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***School Nutrition Dietary Assessment
Study—III:***

***Volume II: Student Participation and
Dietary Intakes--Appendices***



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School Nutrition Dietary Assessment Study-III: Volume II: Student Participation and Dietary Intakes--Appendices

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APPENDIX A

DEFINITION OF SCHOOL MEAL PROGRAM PARTICIPATION

A crucial issue in the analysis of school meal program participation is how to measure and define whether a student participates in the programs. The School Nutrition Dietary Assessment (SNDA)-III asked respondents whether they consumed a National School Lunch Program (NSLP) lunch on the day dietary intakes were measured. However, self-reports are often subject to reporting error, as students may not distinguish reimbursable school meals from other cafeteria offerings. Furthermore, respondents were not directly asked whether they participated in the School Breakfast Program (SBP) on the target day.¹ Therefore, SBP and NSLP participation measures were developed based on information from various sources, including student self-reports and information on the food items they consumed at breakfast and lunch.

This appendix describes how SBP and NSLP participation was measured and defined for the SNDA-III data analyses. The final SBP participation measure used for the analyses was based on whether the student reported having consumed at least one breakfast item purchased in the school cafeteria that was on the school breakfast menu. The final NSLP participation measure used for the analyses was based on dietary intake data and the self-reported measure of NSLP participation on the target day. Students were counted as NSLP participants if they reported either (1) consuming food items from all the food groups required for a reimbursable meal and also found on the lunch menu; or (2) consuming at least one of the items counting toward a reimbursable meal, as well as reporting consuming a school lunch on the target day.

Section A of this appendix describes possible approaches for defining SBP and NSLP participation in the SNDA-III sample. Section B describes alternative definitions of SBP and NSLP participation that were developed, and Section C describes the criteria and benchmarks used to select among the definitions developed. Section D presents estimated participation rates

¹ The “target day” is the day for which dietary recall data were collected (the first recall day for the subsample that completed two recalls).

according to the final participation measures, as well as estimated rates under the alternative definitions considered.

A. APPROACHES FOR MEASURING SBP AND NSLP PARTICIPATION

Participation in the school meal programs can be measured in several ways. One approach is to simply ask students whether they participated. Another approach is to ask students what foods they ate during the target day, then examine the extent to which these foods correspond to the rules laid out for the school meal programs by the Food and Nutrition Service (FNS), determine whether they were from the school menu, and assess whether they were bought from sources that offered reimbursable meals. While each approach has some limitations, each provides information that can be used in complementary ways to develop a reliable measure of participation.

1. Measuring Participation Using Self-Reports

SNDA-III collected student self-reports on usual and target day participation in the NSLP, as well as self-reports of usual participation in the SBP.² Using the self-reports was one option for measuring participation. However, previous studies suggested that self-reported school meal program participation might be subject to reporting errors (Gleason and Suitor 2001; Gleason 1996). Students often neither know nor care whether their meals are NSLP- or SBP-reimbursable meals—they know only what foods they take from the cafeteria. Recognizing these limitations, the SNDA-III study did not rely solely on self-reports to determine SBP and NSLP participation.

² Specifically, students were asked whether they “usually eat a regular school lunch” or “usually eat a regular school breakfast.”

2. Measuring Participation Using Intake Data

Actual participation in the SBP and NSLP is determined by well-defined rules specifying the mix and quantity of food groups that students must select for their meal to count as a reimbursable meal. Items counting toward a reimbursable school meal were also specified in data on school menus collected from school food service managers (the SNDA-III Menu Survey, results of which were discussed in Volume I). As part of the dietary recall interviews, SNDA-III interviewers asked students what foods they ate and if those foods were obtained from the school cafeteria. Examining the extent to which the mix and quantity of the items students reported eating corresponded to FNS rules and whether these items were obtained from the cafeteria and were on the school menu provided another approach to measuring participation.

Measuring participation from intake data presented two main challenges. First, although the students reported which foods were obtained from the school cafeteria, it was not always known whether these school cafeteria foods were part of a reimbursable school meal or were purchased on an a la carte basis.³ However, it *was* known whether the item was on the school menu, and this information could be used, in conjunction with information on the mix and quantity of food groups that the student reported consuming from the school cafeteria during breakfast or lunch, to reach conclusions about school meal program participation. A second challenge arose, however: the definition of a reimbursable meal, per FNS rules, pertains to foods *selected* by students from the school cafeteria, but SNDA-III collected information only on the foods students reported having *consumed*. There was no information on foods students selected from the school cafeteria but did not consume. Thus, even students who selected a reimbursable meal

³ SNDA-III collected data on the point of sale for the item, but that information was not always found to be very useful, because many lines offered both reimbursable and a la carte items. However, in cases in which an item was obtained from an exclusively a la carte point of sale, this information was used to classify the item as not “on menu.”

might (correctly) not report consuming the right mix and quantity of food components, if they threw away an entire item belonging to a required food group for the reimbursable meal.

To define participation as accurately as possible, it was necessary to balance these two challenges. The first challenge implied that, if the bar (in terms of quantity and mix of food items required to be defined as a participant) was set too low, participation might be overestimated, because students who bought enough a la carte items belonging to the relevant food groups might incorrectly be classified as participants. The higher this standard was set, the smaller the misclassification error would be. The second challenge implied that, if the bar was set too high, participation might be underestimated, because true participants probably would not always consume the relevant food groups in the appropriate quantities, if they did not consume all items selected as part of the reimbursable meal.

B. ALTERNATIVE DEFINITIONS OF SBP AND NSLP PARTICIPATION

To determine the most reliable definitions of SBP and NSLP participation, several alternative measures of participation were developed and assessed. Incorporating information from self-reports and intake data, the parameters that could be varied to measure SBP and NSLP participation were:

- The number of food items from different categories required (separately for Food-Based Menu Planning [FMP] schools and Nutrient Standard Menu Planning [NSMP] schools, with the strictest standard being the FNS rules for each).
- Whether the items counting toward a school meal were required to be on the school menu (as measured by matching food items from the Menu Survey to the recall data and excluding items obtained from exclusively a la carte points of sale).
- Whether the student reporting taking a school meal on the target day (available for lunch only) or whether they reported usual participation (three or more times per week) in the SBP or the NSLP.

To assess the reliability of various approaches, participation was defined in several ways, then compared to information from administrative data. Because the FNS rules for what constitutes a reimbursable meal differed by menu-planning system, participation was defined differently for the two menu-planning systems. Some key alternative definitions of participation are described below.

There were two important intermediate steps in defining participation from intake data. The first was defining which foods were consumed at lunchtime and which were consumed at breakfast. The definitions of lunch and breakfast foods used for defining participation were adapted from the time-of-day and meal-type definitions used by Gleason and Suito (2001). Breakfast items were largely those reported to have been eaten between 5:00 A.M. and 9:30 A.M. and called “breakfast” by the student, and lunch items were largely those reported to have been consumed between 10:00 A.M. and 2:00 P.M. and designated as “lunch” by the student.⁴ Other important steps were to define which foods were consumed from the school cafeteria and whether they were on the lunch menu on the intake day. Foods were defined to be “on menu” if the reported food (or a similar food) was found to be on the menu (1) on the day of the recall, the day before, or the day after; or (2) in the rare situations where recall and menu survey dates did not overlap, the reported food was on the menu two or more times during the week of the dietary intake or there was evidence of a comparable meal (for example, cold cereals offered every day).

⁴ All foods reported between 5:00 A.M. and 9:30 A.M. and foods reported between 9:30 A.M. and 10:30 A.M. and called “breakfast” by the student were counted as breakfast foods. There were a small number of legitimate breakfasts reported earlier in the day (3:00-4:00 A.M.) and later in the day (10:45-11:30 A.M.), and these were also counted as such. The following were counted as lunch: (1) all foods reported between 10:00 A.M. and 2:00 P.M., unless reported as breakfast; (2) all foods reported between 9:30 A.M. and 10:00 A.M. that were reported as lunch, supper, or dinner; and (3) all foods reported between 2:00 P.M. and 3:30 P.M. that were reported as lunch. In some instances, legitimate lunches were reported later than the 3:00 P.M. cutoff used by Gleason and Suito, and these were counted toward lunch also.

The measures of participation developed were not sensitive to modifications in the definition of being “on menu.”

1. Alternative Definitions of SBP Participation

The following definitions of SBP participation were developed, and their reliability assessed:

- **Definition 1 (FNS rules in schools with offer-versus-serve [OVS]):** In FMP schools: the student consumed at least three of the four meal component servings (two grains and/or meat/meat alternate servings, one serving of fruits or vegetables, one serving of milk). In NSMP schools: the student consumed at least two menu items (which could be sides or milk).
- **Definition 2:** In FMP schools: the student consumed at least one of the four servings and the item was on menu. In NSMP schools: the student consumed at least one menu item.
- **Definition 3:** In FMP schools: the student consumed at least two of the four servings *or* consumed at least one breakfast item on the menu and was a self-reported “usual” participant. In NSMP schools: the student consumed at least two menu items *or* consumed at least one menu item and was a self-reported “usual” participant.

2. Alternative Definitions of NSLP Participation

The following alternative definitions of NSLP participation were developed, and their reliability assessed:

- **Definition 1 (FNS rules in schools with OVS):** In FMP schools: the student consumed at least three of the five servings offered (one grain, one meat/meat alternate, two fruits and/or vegetables, one milk). In NSMP schools: the student consumed at least one entree and one side.
- **Definition 2 (FNS rules with menu information):** In FMP schools: the student consumed at least three of the five servings offered (one grain, one meat/meat alternate, two fruits and/or vegetables, one milk). In NSMP schools: the student consumed at least one entree and one side. All items were required to be on the menu.

- **Definition 3:** In FMP schools: the student consumed at least two of the five offered servings, and both items were on the menu. In NSMP schools: the student consumed an on-menu entree.
- **Definition 4 (FNS rules or self-report combined with intake):** In FMP schools: the student consumed at least three of the five on-menu servings *or* consumed at least one on-menu serving and was a self-reported target day participant. In NSMP schools: the student consumed at least one entree and one side (both on menu) *or* consumed at least one on-menu entree or side and was a self-reported target day participant.
- **Definition 5:** In FMP schools: the student consumed at least three of the five on-menu servings (one grain, one meat/meat alternate, two fruits and/or vegetables, one milk) *or* consumed at least two on-menu servings and was a self-reported target day participant. In NSMP schools: the student consumed at least one on-menu entree and side *or* consumed at least one on-menu entree or side and was a self-reported target day participant.
- **Definition 6:** In FMP schools: the student consumed at least three on-menu servings *or* consumed at least one on-menu servings and was a self-reported target day participant. In NSMP schools: the student consumed at least one on-menu entree and side *or* consumed at least one on-menu entree and was a self-reported target day participant.

C. APPROACH TO SELECTING THE BEST SBP AND NSLP PARTICIPATION MEASURES

The alternative definitions of SBP and NSLP participation were assessed according to several criteria. The implied SBP and NSLP participation rates under each measure were compared to benchmark participation rates from administrative data and student self-reports, described below.

1. Criteria Used for Selection

The criteria used to determine which of the alternative definitions of SBP and NSLP participation were most reliable for the SNDA-III data analyses were:

- Degree of conformity with FNS rules for defining reimbursable meals, as reported in Tables A.1 and A.2.
- Accordance of the estimated participation rate with benchmark rates based on administrative data—both overall and among students certified to receive free or reduced-price meals. The target day participation rate was expected to be close to the

TABLE A.1
FNS RULES FOR DEFINING SBP BREAKFASTS

	Basic Requirements	Requirements Under Offer-Versus-Serve (OVS)
Food-Based Menu Planning (FMP)	1 serving milk 1 serving fruits and vegetables 2 servings meat/meat alternate <i>or</i> 2 servings bread <i>or</i> 1 serving bread <i>and</i> 1 serving meat/meat alternate	At least 3 of the required servings
Nutrient Standard Menu Planning (NSMP)	3 menu <i>items</i> , 1 of which must be milk	At least 2 menu items

Note: Since only a small percentage of students were in schools without OVS, the rules as defined under OVS were used as the starting rules for all students.

TABLE A.2
FNS RULES FOR DEFINING NSLP LUNCHES

	Basic Requirements	Requirements Under Offer-Versus-Serve (OVS)
Food-Based Menu Planning (FMP)	1 serving milk 1 serving meat/meat alternate 1 serving bread 2 servings fruits and vegetables (different types)	At least 3 of the required servings
Nutrient Standard Menu Planning (NSMP)	3 menu <i>items</i> , 1 of which must be milk	At least 2 menu items

Note: Since only a small percentage of students were in schools without OVS, the rules as defined under OVS were used as the starting rules for all students.

average daily number of breakfasts and lunches claimed by schools divided by the number of students enrolled in SBP or NSLP schools, respectively (adjusted for attendance), from FNS administrative data.

- Correlation with self-reports of participation. Despite the errors in self-reports, they were expected to be positively correlated with actual participation.
- Correlation with other measures known to be correlated with participation from previous research. In particular, previous research suggested that participation rates were highest in elementary schools and lowest in high schools. Examining whether the rates resulting from the various alternative definitions followed the same pattern was an additional check of the accuracy of the definitions.

2. Benchmark Participation Rates

Participation rates based on FNS administrative data for all schools served as the primary benchmark for evaluating alternative definitions of participation. The number of participants in the SBP and NSLP was derived from the number of average daily breakfasts and lunches, respectively, served during the months of September to May (reported on form FNS-10), adjusted by the absentee factor of 0.927 (historically derived). Participation rates were estimated by dividing the number of participants by the number of students attending schools offering the SBP and NSLP.⁵ Self-reports of participation were used as additional benchmarks.

a. SBP Benchmark Participation Rates

According to FNS administrative data, the participation rate in the SBP for fiscal year 2005 among schools that had the SBP program was 23.0 percent. SNDA-III did not collect self- or parent-reported measures of target day participation in SBP, but it did collect information on “usual” participation—defined as consuming a school breakfast at least three times per week. The participation rate constructed from child reports of usual participation was 29.8 percent, and that based on parent reports of usual participation was 33.7 percent. In general, parents were

⁵ Data were provided by FNS staff from the USDA National Databank.

more likely to report that their child usually ate a school breakfast than were the children themselves, and the discrepancies between child and parent reports were greatest for students certified to receive free or reduced-price meals.

b. NSLP Benchmark Participation Rates

FNS administrative data suggested that the NSLP participation rate in fiscal year 2005 was 59.7 percent. Participation rates based on student self-reports were considerably higher, with nearly 67.7 percent of students reporting that they ate a school lunch on the target day. Participation rates based on self-reported data were consistently higher than those based on administrative data, both for students certified to receive free or reduced-price lunches and for those paying full price. On the target day, 84.7 percent of certified students reported having a school lunch, while the participation rate based on administrative data was 77.7 percent.

D. COMPARISON OF FINAL SBP AND NSLP PARTICIPATION MEASURES WITH ALTERNATIVE MEASURES AND BENCHMARK PARTICIPATION RATES

Tables A.3 and A.4 show participation rates based on the final and alternative definitions of SBP and NSLP participation for all schools. The tables also show how participation rates based on the different measures compared to the benchmark participation rates and how they performed based on the criteria described above.

1. SBP Participation

After assessing the alternative SBP participation measures using the criteria described above, the final measure (Definition 2; shaded in gray in Table A.3) was selected:

- FMP Schools
 - Consumed at least one of the four servings (two grains or meat/meat alternates, one fruit and vegetable, one milk) and item was on menu

TABLE A.3
SBP PARTICIPATION MEASURES (ALL SCHOOLS OFFERING SBP)
(FINAL MEASURE SHADED IN GRAY)

Definition of Participation	Participation Rate	Participation Rate Among "Usual" Participants	Participation Rate Among "Usual" Non Participants	Participation Among Free/Reduced-Price Recipients		Participation Among Non-Free/Reduced-Price Recipients		Participation in High Schools
				Participation Rate Among "Usual" Participants	Participation Rate Among "Usual" Non Participants	Participation in Elementary Schools	Participation in Middle Schools	
Number of Students in SNDA-III Sample	1,995	507	1,381	967	1,004	634	704	657
Benchmark Rates								
1. SBP Participation Rate (FNS Data)	23.0	—	—	34.3	11.8			
2. Child: Usually Eats School Breakfast 3 or More Times/Week	29.8	100.0	0.0	48.5	13.8	38.0	24.7	19.8
3. Parent: Child Usually Eats School Breakfast 3 or More Times/Week	33.7	78.9	14.4	56.8	14.1	41.2	29.6	23.5
Participation Rates from Intake Data								
1. Definition 1	10.4	29.2	2.3	19.3	4.3	15.6	7.2	4.2

FMP: Consumed at Least Three of the Four Servings (2 B/MA, FV, M)

NSMP: Consumed at Least Two Menu Items (Including Milk)

TABLE A.3 (continued)

Definition of Participation	Participation Rate	Participation Rate Among "Usual" Participants	Participation Rate Among "Usual" Non Participants	Participation Among Free/Reduced-Price Recipients	Participation Among Non-Free/Reduced-Price Recipients	Participation in Elementary Schools	Participation in Middle Schools	Participation in High Schools
2. Definition 2 FMP: Consumed at Least One of the Four Servings (2 B/MA, FV, M) and Item Was on Menu NSMP: Consumed at Least One Menu Item (Including Milk)	22.6	64.4	4.7	36.7	10.1	30.6	18.0	13.6
3. Definition 3: FMP: Consumed at Least Two of the Four Servings OR (Consumed at Least One School "Breakfast" Item AND Is a "Usual" Participant) NSMP: Consumed at Least Two Menu Items (Including Milk) OR (Consumed at Least One Menu Item AND Is a "Usual" Participant)	21.0	64.4	3.0	34.7	9.0	27.9	16.7	11.4

B = bread
MA = meat/meat alternate
F = fruit
V = vegetable
M = milk

TABLE A.4

NSLP PARTICIPATION MEASURES (ALL SCHOOLS OFFERING SBP)
(FINAL MEASURE SHADED IN GRAY)

Definition of Participation	Participation Rate	Participation Rate Among		Participation Rate Among Non-Target Day Participants	Participation Among Free/Reduced-Price Recipients	Participation Among Non-Free/Reduced-Price Recipients	Participation in Elementary Schools		Participation in High Schools	
		Target Day Participants	Non-Target Day Participants				in Middle Schools	in High Schools		
Number of Students in SNDA-III Sample	2,314	1,534	725	1,017	1,259	732	787	795		
Benchmark Rates										
1. NSLP Participation Rate (FNS Data)	59.7	---	---	77.7	44.8	---	---	---		
2. Child: Ate School Lunch on Target Day	67.7			84.7	49.1	77.0	68.9	51.0		
Participation Rates from Intake Data										
1. Definition 1	48.3	65.1	8.0	61.1	39.2	54.6	48.1	37.7		
FMP: Consumed at Least Three of the Five Servings (1 B, 1 MA, 2 FV, 1 M)										
NSMP: Consumed at Least One Entree and One Side										
2. Definition 2	43.5	60.1	4.8	57.2	33.8	52.2	40.4	30.7		
FMP: Consumed at Least Three of the Five Servings (1 B, 1 MA, 2 FV, 1 M and Items Were on Menu)										
NSMP: Consumed at Least One Entree and One Side and Both Were on Menu										

TABLE A.4 (continued)

Definition of Participation	Participation Rate	Participation Rate Among Target Day Participants	Participation Rate Among Non-Target Day Participants	Participation Among Free/Reduced-Price Recipients	Participation Among Non-Free/Reduced-Price Recipients	Participation in Elementary Schools	Participation in Middle Schools	Participation in High Schools
3. Definition 3 FMP: Consumed at Least Two of the Five Servings and Items Were on Menu (1 B, 1 MA, 2 FV, 1 M) NSMP: Consumed at Least One on-Menu Entree	51.8	70.8	7.8	68.6	39.9	59.2	54.1	37.4
4. Definition 4 FMP: Consumed at Least Three of the Five on-Menu Servings (1 B, 1 MA, 2 FV, 1 M) OR (Consumed at Least One on-Menu Serving AND Self-Reported Target Day Participant) NSMP: Consumed at Least One Entree and One Side OR (Consumed at Least One Entree or One Side and Self-Reported Target Day Participant)	61.7	87.2	4.4	78.8	49.6	72.6	60.2	43.9
5. Definition 5 FMP: Consumed at Least Three of the Five on-Menu Servings (1 B, 1 MA, 2 FV, 1 M) OR (Consumed at Least Two on-Menu Servings Items AND Self-Reported Target Day Participant) NSMP: Consumed at Least One on-Menu Entree and One Side OR (Consumed at Least One Entree or One Side and Self-Reported Target Day Participant)	50.7	70.8	4.8	67.7	38.7	58.1	53.3	36.5

TABLE A.4 (continued)

Definition of Participation	Participation Rate	Participation Rate Among Target Day Participants	Participation Rate Among Free/Reduced-Price Recipients	Participation Among Non-Free/Reduced-Price Recipients	Participation in Elementary Schools	Participation in Middle Schools	Participation in High Schools
6. Definition 6	54.7	76.5	5.3	72.8	41.9	61.5	57.5
FMP: Consumed at Least Three on-Menu Servings OR (Consumed at Least One on-Menu Servings AND Self-Reported Target Day Participant)							41.2
NSMP: Consumed at Least One Entree and One Side OR (Consumed at Least One Entree and Self-Reported Target Day Participant)							

B = bread
 MA = meat/meat alternate
 F = fruit
 V = vegetable
 M = milk

- NSMP Schools
 - Consumed at least one menu item (including milk)

The overall participation rate, measured by this definition, was 22.6 percent, which was close to the 23.0 percent rate suggested from administrative data. The measure also had a reasonable correlation with self-reported usual participation. It suggested that 64.4 percent of self-reported usual participants—and only 4.7 percent of students who did not usually have a school breakfast—had a school breakfast on the target day. One possible concern about this measure was that it might overestimate participation in schools where menu items are also sold a la carte. To address this, participation rates were examined separately in schools that sold a la carte items (milk, food, and juice beverages with at least 50 percent juice) at breakfast and those that did not. The increase in participation rates under the recommended measure compared with the one based strictly on FNS rules was found to be larger for schools without a la carte items than for those that did sell a la carte items at breakfast.⁶ This provided some suggestive evidence that relaxing the required rules to account for plate waste did not overestimate participation because of the presence of a la carte items. Finally, the measure implies participation rates among students certified to receive free or reduced-price breakfasts that were close to those estimated from administrative data.

2. NSLP Participation

After assessing the alternative NSLP participation measures using the criteria described above, the final measure (Definition 4, shaded in gray in Table A.4) was selected:

⁶ Children in schools where breakfast items were sold a la carte reported lower levels of usual participation: 17 percent, compared with 26 percent in schools without a la carte items. However, the usual participation rates reported by parents in both types of schools were very similar. Defining participation using FNS rules strictly implied participation rates of 8.4 and 9.4 percent in schools with and without a la carte items, respectively. This increased to 17.9 and 29.4 percent when the recommended measure was used.

- FMP Schools
 - Students were counted as participants if they reported either (1) consuming items from the school menu that counted toward three of the required five servings; or (2) consuming at least one item from the school menu that counted toward an NSLP lunch, as well as reporting that they consumed a school lunch on the target day.
- NSMP Schools
 - Students were counted as participants if they reported either (1) consuming at least one entree and one side; or (2) consuming at least one item from the school menu that counted toward an NSLP lunch, as well as reporting that they consumed a school lunch on the target day.

The overall participation rate using this measure was 61.7 percent and, among the alternate measures, came closest to the 59.7 percent estimated using administrative data. The measure also correctly predicted participation among 87.2 percent of self-reported participants and nonparticipation for 95.6 percent of self-reported nonparticipants; therefore, it had the highest correlation with self-reported measures. Using this measure, the participation rate among students certified to receive free and reduced-price meals was 78.8 percent, which was similar to the 77.7 percent suggested from administrative data. This measure implied a slightly higher participation rate among noncertified students than that suggested by administrative data. However, the difference in participation rates between students certified to receive free or reduced-price meals and those who were not did not change with alternate measures, including those that were stricter. Compared to the alternate measures, the recommended measure also seemed to best predict the differential rates of lunch participation between elementary, middle, and high schools suggested by self-reports.

APPENDIX B

**PARTICIPATION AND CUSTOMER SATISFACTION
(SUPPLEMENTAL TABLES)**

TABLE B.1
AVERAGE PARTICIPATION RATES IN SECONDARY SCHOOLS

	Target Day Participation		Usual Participation	
	NSLP	SBP	NSLP	SBP
Gender				
Male	56.4	15.3	70.5	22.7
Female	45.0	9.4	56.8	14.9
Income Relative to Poverty				
Less than or equal to 130 percent	62.6	23.3	75.2	33.8
Between 130 and 185 percent	63.8	13.5	78.8	23.5
More than 185 percent	43.2	7.5	55.7	10.7
Receipt of Free or Reduced-Price Meals (Parent Report)				
Receives free or reduced-price meals	68.6	23.6	82.3	36.1
Does not receive free or reduced-price meals	40.5	5.7	53.2	8.6
Race/Ethnicity				
Black, non-Hispanic	49.7	13.1	67.7	24.4
Hispanic	54.0	9.2	60.3	13.0
White, non-Hispanic	49.6	21.4	66.7	31.3
Other	51.4	12.1	66.1	17.7
All Students	50.5	12.2	63.4	18.7
Number of Students	1,582	1,379	1,582	1,379

Source: School Nutrition Dietary Assessment Study-III, school year 2004-2005, Child Interview, Dietary Recalls, Parent Interview. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: Target day participation is defined using several sources, primarily the foods reported in the dietary recall data and sources of foods; see further discussion in text and Appendix A. Secondary schools include both middle and high schools.

TABLE B.2
 TOP REASON FOR EATING SCHOOL LUNCH ON TARGET DAY,
 BY USUAL PARTICIPATION STATUS
 (Percentage of Students)

	Usual NSLP Participants	Not Usual NSLP Participants
Among Students Who Ate School Lunch on Target Day, Top Reason for Eating School Lunch		
Felt hungry	36.0	28.3
Likes the food (general)	21.1	20.8
Liked meal served that day	11.8	21.0
Easy/convenient to get	9.7	4.8
Parents want me to/no other choice	8.9	5.7
No one at home/no time to make lunch	5.7	10.6
It's free, prices are good	2.6	0.7
Other	4.3	7.9
Number of Students	1,382	134

Source: School Nutrition Dietary Assessment-III, Student Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 1,534 (18 respondents did not give a top reason for eating a school lunch on the target day). List of possible answers was read out loud to respondents.

TABLE B.3

TOP REASON FOR EATING SCHOOL LUNCH ON TARGET DAY,
BY HOUSEHOLD INCOME
(Percentage of Students)

	Students from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Students from High- Income Households (Greater than 185 Percent of Poverty Level)	All Students
Among Students Who Ate School Lunch on Target Day, Top Reason for Eating School Lunch			
Hunger	40.1	30.6	35.1
Likes the food (general)	20.7	21.4	21.1
Liked meal served that day	10.5	14.9	12.8
Easy/convenient to get	5.6	12.2	9.1
Parents want me to or no other choice	10.7	7.2	8.9
No one at home or no time to make lunch	5.3	7.1	6.2
It's free, prices are good	2.9	2.0	2.4
Other	4.3	4.8	4.5
Number of Students	743	724	1,467

Source: School Nutrition Dietary Assessment-III, Student Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 1,483 (16 respondents did not give a top reason for eating a school lunch on the target day). List of possible answers was read out loud to respondents.

TABLE B.4

TOP REASON FOR EATING SCHOOL BREAKFASTS, BY HOUSEHOLD INCOME
(Percentage of Students Who Ever Eat School Breakfasts)

	Students from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Students from High- Income Households (Greater than 185 Percent of Poverty Level)	All Students
Easy/Convenient to Get	31.9	39.5	34.9
Food Is Good	35.1	28.9	32.6
I Am Hungry	22.6	19.2	21.2
Parents Make Me	3.4	5.0	4.0
No Other Choice	2.9	3.1	3.0
Friends Eat Breakfast There	2.5	2.2	2.4
Prices Are Good	1.1	1.8	1.4
Other	0.5	0.5	0.5
Number of Students	549	330	879

Source: School Nutrition Dietary Assessment-III, Student Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 879 (10 respondents did not give a top reason for eating school breakfasts). List of possible answers was read out loud to respondents.

TABLE B.5

REASONS FOR NOT PARTICIPATING IN THE SBP, BY HOUSEHOLD INCOME
(Percentage of Students)

	Students from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Students from High- Income Households (Greater than 185 Percent of Poverty Level)	All Students
Among Students Who Do Not Usually Eat School Breakfasts, Reasons for Not Eating School Breakfasts ^a			
Eats breakfast at home	41.7	51.7	48.7
No time	27.4	24.7	25.5
Never eats breakfast	12.2	7.7	9.0
Doesn't like what is served	10.4	5.9	7.2
Monetary reasons	3.8	5.1	4.7
Transportation issue	1.6	2.4	2.2
Lack of choice	1.6	2.4	2.1
Not convenient	0.5	1.2	1.0
Not nutritious enough	0.0	1.5	1.0
Busy with school activities	0.3	0.8	0.7
Doesn't like taste	0.1	0.5	0.3
Other	10.0	8.5	9.0
Number of Students Reporting	365	677	1,042
Likely to Eat School Breakfasts More Often if Served in Classroom ^b			
	63.5	55.5	60.0
Number of Students Reporting	141	218	359
Number of Students	919	985	1,980

Source: School Nutrition Dietary Assessment-III, Student Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 1,980 (276 respondents did not report on why they do not eat school breakfasts).

^aMultiple answers allowed; open-ended question.

^bAmong students who eat school breakfasts three or fewer days per week *and* who do not eat school breakfasts in the classroom (n = 359).

TABLE B.6

STUDENTS' GENERAL VIEWS ON SCHOOL LUNCHES, BY HOUSEHOLD INCOME
(Percentage of Students Who Ever Ate a School Lunch)

	Students from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Students from High- Income Households (Greater than 185 Percent of Poverty Level)	All Students
General Opinion of School Lunches			
Like them	47.2	47.4	47.3
Only okay	46.9	49.5	48.3
Doesn't like them	5.9	3.2	4.4
Number of Students Reporting	768	773	1,541

Source: School Nutrition Dietary Assessment-III, Student Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 1,541 (437 respondents did not give a general opinion of school lunches or were missing data on household income). Response categories correspond to the wording on the instrument.

TABLE B.7
STUDENTS' VIEWS ON FOOD SERVED FOR LUNCH, BY HOUSEHOLD INCOME
(Percentage of Students)

	Students from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Students from High- Income Households (Greater than 185 Percent of Poverty Level)	All Students
Likes Taste of Food . . .			
Always	23.9	16.9	19.8
Often	18.9	28.1	24.3
Sometimes	52.4	51.0	51.6
Never	4.8	4.0	4.4
Likes Smell of Food . . .			
Always	24.0	22.3	23.0
Often	19.0	22.2	20.9
Sometimes	45.7	47	46.5
Never	11.3	8.5	9.6
Food Looks Good . . .			
Always	21.4	19.2	20.1
Often	20.6	22.7	21.8
Sometimes	49.3	48.5	48.8
Never	8.7	9.6	9.2
Vegetables in Serving Line Look Good . . .			
Always	29.8	23.6	26.1
Often	16.3	21.5	19.4
Sometimes	35.3	38.3	37
Never	18.6	16.7	17.5
Amount of Food (Portions)			
Too much	3.4	2.6	2.9
Too little	23.2	20.4	21.6
About right	73.4	77	75.5
Temperature of Milk Served			
Too warm	8.6	6.9	7.6
Too cold	10.8	5.8	7.9
About right	80.6	87.3	84.5

TABLE B.7 (continued)

	Students from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Students from High- Income Households (Greater than 185 Percent of Poverty Level)	All Students
How Often Lunch Menu Includes Foods They Like			
Always	21.9	20.9	21.3
Often	20.8	26.6	24.2
Sometimes	50.4	48.7	49.4
Never	6.9	3.7	5.0
How Often Enough Food Choices			
Always	28.2	31.1	29.9
Often	19.4	27.8	24.4
Sometimes	36.6	31.4	33.6
Never	15.8	9.6	12.1
Number of Students	994	1,232	2,226

Source: School Nutrition Dietary Assessment-III, Student Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 2,226 (35 respondents did not answer the question about taste, 32 did not answer the question about smell, 24 did not answer the question about appearance, 59 did not answer the question about vegetables, 27 did not answer the question about food amounts, 99 did not answer the question about milk, 28 did not answer the question about the lunch menu, and 24 did not answer the question about choice).

TABLE B.8
PARENTS' VIEWS ON SCHOOL LUNCHES, BY HOUSEHOLD INCOME
(Percentage of Parents)

	Parents from Low-Income Households (Less than or Equal to 185 Percent of Poverty Level)	Parents from High-Income Households (Greater than 185 Percent of Poverty Level)	All Parents
Healthfulness of School Lunches			
Very healthy	28.4	15.6	20.9
Somewhat healthy	63.3	71.6	68.2
Not healthy	5.5	9.8	8.0
It depends	1.5	1.1	1.3
Don't know	1.3	1.8	1.6
Value of School Lunches			
A good value	28.6	26.8	27.5
A pretty good value	45.1	58.7	53.1
Not a good value	13.2	11.9	12.4
Gets lunch free (volunteered)	11.5	1.5	5.6
Don't know	1.6	1.2	1.4
Number of Parents Reporting			
Among Parents Whose Child Ever Eats a School Lunch:			
Satisfaction with School Lunches			
Very satisfied	35.9	23.6	29.1
Somewhat satisfied	48.5	55.6	52.4
Somewhat dissatisfied	12.1	14.9	13.6
Very dissatisfied	2.9	4.5	3.8
Don't know	0.6	1.5	1.1
Children Like School Lunches			
Strongly agree	24.9	15.5	19.8
Agree somewhat	51.6	65.5	59.1
Disagree somewhat	16.4	14.3	15.2
Strongly disagree	7.2	4.7	5.9
School Lunches Are Served at a Convenient Time and Place			
Strongly agree	64.3	56.9	60.3
Agree somewhat	27.7	33	30.6
Disagree somewhat	5.4	7.7	6.6
Strongly disagree	2.6	2.4	2.5
Number of Parents Reporting	946	973	1,919
Number of Parents	994	1,232	2,226

Source: School Nutrition Dietary Assessment-III, Parent Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

TABLE B.9

PARENTS' VIEWS ON SCHOOL BREAKFASTS, BY HOUSEHOLD INCOME
(Percentage of Parents Whose Child Ever Ate a School Breakfast)

	Parents from Low-Income Households (Less than or Equal to 185 Percent of Poverty Level)	Parents from High-Income Households (Greater than 185 Percent of Poverty Level)	All Parents
Satisfaction with SBP			
Very satisfied	44.4	32.2	39.9
Somewhat satisfied	42.2	60.0	48.8
Somewhat dissatisfied	10.6	7.5	9.4
Very dissatisfied	2.4	0.3	1.6
Don't know	0.4	0.0	0.3
Healthfulness of School Breakfasts			
Very healthy	34.2	24.5	30.6
Somewhat healthy	57.8	68.6	61.8
Not healthy	4.4	4.8	4.6
It depends	1.9	1.4	1.7
Don't know	1.7	0.8	1.3
Children Like School Breakfasts			
Strongly agree	39.5	30.9	36.3
Agree somewhat	46.5	60.5	51.7
Disagree somewhat	10.6	5.9	8.9
Strongly disagree	3.4	2.7	3.1
School Breakfasts Are Served at a Convenient Time and Place			
Strongly agree	69.4	62.5	66.9
Agree somewhat	23.7	30.8	26.3
Disagree somewhat	5.6	6.4	5.9
Strongly disagree	1.2	0.4	0.9
Number of Parents	613	322	935

Source: School Nutrition Dietary Assessment-III, Parent Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 935 (15 respondents did not answer the question on information about if children like school breakfasts, 13 did not answer the question about convenience).

TABLE B.10

PARENTS' VIEWS ON COMPETITIVE FOODS, BY HOUSEHOLD INCOME
(Percentage of Parents)

	Parents from Low-Income Households (Less than or Equal to 185 Percent of Poverty Level)	Parents from High-Income Households (Greater than 185 Percent of Poverty Level)	All Parents
Allowing National Brands (for Example, Fast-Food Chains) in Schools			
Good idea	36.8	26.5	30.7
Bad idea	53.2	61.0	57.8
It depends	9.5	12.1	11.0
Don't know, no opinion	0.5	0.4	0.5
Allowing Vending Machines in Schools			
Good idea	34.5	25.9	29.5
Bad idea	53.3	64.5	59.9
It depends	12.0	9.4	10.5
Don't know, no opinion	0.2	0.2	0.2
Number of Parents Reporting	994	1,232	2,226

Source: School Nutrition Dietary Assessment-III, Parent Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

TABLE B.11

PARENTS' SUGGESTIONS FOR IMPROVING SCHOOL MEALS, BY SCHOOL TYPE
(Percentage of Parents)

	Elementary School Parents	Middle School Parents	High School Parents	All Parents
Serve Healthier Foods (General)	20.2	25.1	24.6	23.4
Serve More Fruits and/or Vegetables	18.4	21.4	19.6	19.8
Serve a Greater Variety of Foods (General)	24.0	15.1	14.9	17.8
Serve Less Fatty Foods	7.4	11.6	7.9	9.0
Serve More Fresh Foods, Foods from Scratch, Less Processed Foods (Includes Preparing Foods on Site)	11.4	6.3	6.1	7.8
Increase Quantity or Portion Size	7.9	8.6	6.3	7.6
Increase Time Scheduled to Eat	5.4	5.1	7.9	6.2
Improve Quality (General)	5.2	5.5	6.3	5.7
Reduce Carbohydrates (Sugars, Starches)	3.1	4.7	4.4	4.1
Send Menus Home, Better Communication About Food Served	2.9	3.9	4.4	3.7
Serve Tastier Foods	2.9	4.7	3.0	3.5
Reduce or Eliminate Fast Foods, a la Carte, Vending Machines	1.1	4.7	4.0	3.3
Reduce or Eliminate Junk Food	2.0	3.1	3.2	2.8
Reduce Cost of School Meals	1.6	2.4	2.8	2.3
Reduce Waiting Time in Line	0.7	2.7	3.2	2.2
Get Feedback from Students, Parents	2.9	1.8	1.8	2.2
Serve (More) Hot Meals	1.1	2.2	1.0	1.5
Be More Responsive to Special Diets (for Example, Vegetarians, Allergies, or Religious Restrictions)	1.1	1.6	0.8	1.2
Pay More Attention to Food Safety (for Example, Concerns About Undercooked Meat or Expiration Dates)	1.8	0.8	0.8	1.1
Expand Coverage of Free or Reduced School Meal Programs	0.2	0.2	1.6	1.1
Replace Sugary Items in Vending Machines with Healthy Snacks	0.2	1.6	1.2	1.0
Improve Cleanliness of Food Service Environment (for Example, Floors or Plates)	1.4	0.2	1.4	1.0
Offer More Foods from Chains or Brand-Name Restaurants	0.2	0.2	1.6	0.7
Serve More Ethnic Foods	0.7	0.4	0.8	0.6
Serve More Protein	0.7	0.4	0.8	0.6
Ensure that Food Does Not Run Out	0.2	0.4	0.8	0.5
Make Eating Time Later (Now Too Early)	0.7	0.6	0.2	0.5
Make Eating Time Earlier (Now Too Late)	0.0	0.2	0.2	0.1
Other	7.6	6.9	6.3	6.9
Number of Parents Reporting	450	496	508	1,454
Number of Parents	732	787	795	2,314

Source: School Nutrition Dietary Assessment-III, Parent Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 2,314 (860 parents did not offer any suggestions on how to improve the school meal programs).

TABLE B.12

PARENTS' SUGGESTIONS FOR IMPROVING SCHOOL MEALS, BY HOUSEHOLD INCOME
(Percentage of Parents)

	Parents from Low- Income Households (Less than or Equal to 185 Percent of Poverty Level)	Parents from High- Income Households (Greater than 185 Percent of Poverty Level)	All Parents
Serve Healthier Foods (General)	23.3	23.9	23.5
Serve More Fruits and/or Vegetables	19.0	19.8	19.4
Serve a Greater Variety of Foods (General)	15.8	18.4	17.4
Serve Less Fatty Foods	8.3	9.8	9.2
Serve More Fresh Foods, Foods from Scratch, Less Processed Food (Includes Preparing Foods on Site)	5.7	9.6	8.0
Increase Quantity or Portion Size	10.3	6.1	7.8
Increase Time Scheduled to Eat	5.3	6.9	6.3
Improve Quality (General)	6.6	5.1	5.7
Reduce Carbohydrates (Sugars, Starches)	3.6	4.5	4.1
Send Menus Home, Better Communication About Food Served	3.7	3.6	3.7
Serve Tastier Foods	4.8	2.8	3.6
Reduce or Eliminate Fast Foods, a la Carte, Vending Machines	2.7	3.6	3.2
Reduce or Eliminate Junk Food	3.0	2.7	2.8
Reduce Cost of School Meals	2.0	2.8	2.4
Reduce Waiting Time in Line	1.8	2.5	2.2
Get Feedback from Students, Parents	3.4	1.3	2.2
Serve (More) Hot Meals	2.5	0.6	1.4
Pay More Attention to Food Safety (for Example, Concerns About Undercooked Meat, or Expiration Dates)	1.1	1.2	1.2
Expand Coverage of Free or Reduced School Meal Programs	2.1	0.5	1.2
Be More Responsive to Special Diets (for Example, Vegetarians, Allergies, or Religious Restrictions)	1.1	1.1	1.1
Replace Sugary Items in Vending Machines with Healthy Snacks	0.9	1.1	1.0
Improve Cleanliness of Food Service Environment (for Example, Floors or Plates)	1.4	0.7	1.0
Offer More Foods from Chains or Brand-Name Restaurants	0.0	1.1	0.7
Serve More Protein	0.2	1.0	0.7
Serve More Ethnic Foods	0.7	0.5	0.6
Make Eating Time Later (Now Too Early)	0.7	0.4	0.5
Ensure that Food Doesn't Run Out	0.0	0.6	0.4
Make Eating Time Earlier (Now Too Late)	0.0	0.2	0.1
Other	6.4	7.3	6.9
Number of Parents Reporting	845	555	1,400
Number of Parents	994	1,232	2,226

Source: School Nutrition Dietary Assessment-III, Parent Interview, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: N = 2,226 (826 parents did not offer any suggestions on how to improve the school meal programs).

APPENDIX C

**TECHNICAL APPENDIX ON THE MULTIVARIATE ANALYSIS OF
PARTICIPATION IN THE NATIONAL SCHOOL LUNCH PROGRAM
AND SCHOOL BREAKFAST PROGRAM**

Chapter IV of this report examined the factors associated with school meal program (NSLP or SBP) participation in a multivariate context, simultaneously controlling for personal and family characteristics; key programmatic variables such as full price of the U.S. Department of Agriculture (USDA) meal; characteristics of meals offered; alternatives to the USDA meal; other school-level factors; and location, region, and day of week. Results were presented as predicted probabilities of participation for students with a particular characteristic (for example, girls), holding all other specified factors constant at their mean value for the full sample. Comparing the predicted probabilities for students who differed according to a particular characteristic (for example, girls versus boys) indicated the relationship between this characteristics (for example, gender) and the likelihood that the student participated in the school meal program, holding constant other observable characteristics.

The results of this analysis were based on probit models of school meal program participation that controlled for the factors listed in Table IV.1. Probit models were estimated in Stata using the survey commands to account for the complex sample design, including sample weights, clustering, and stratification. Predicted probabilities were computed as the predicted value of the outcome variable (NSLP or SBP participation), holding all other factors constant at the mean value for the full sample. Where the characteristic did not vary for a particular set of students (for example, all high schools used offer-versus-serve (OVS) at both breakfast and lunch), this was incorporated into the calculation of the predicted probability (for example, the predicted probability of participation for students in schools that used OVS was computed as the predicted value *among elementary and middle school students* in schools with OVS who otherwise had the characteristics of the average sample member). Similarly, some variables were not defined for the full sample (for example, elementary school students were not asked whether they were on a diet). In these cases, the variable was set to zero for the group for which

it was undefined, and the predicted probabilities were estimated only for the group for which the variable was defined. Predicted probabilities were multiplied by 100 so as to be interpretable as predicted participation rates.

The estimation sample for the NSLP participation models included all students with completed dietary recalls and parent interviews. The estimation sample for the SBP participation models included all students with valid child and parent interview data in schools that offered the SBP. Where the value for a particular covariate was missing for a particular student, the value for this covariate was imputed. Across the different covariates included in the analysis, the percentage of sample members with missing values ranged from zero to nine percent. Missing values of continuous school-level variables were imputed as the mean value of that variable by region and grade level (elementary, middle, or high school). Missing values of school-level binary and categorical variables were imputed as the modal value for that variable by region and grade level, and missing values of student-level binary and categorical variables were imputed as the modal value for that variable by region, grade level, and gender. There were no continuous student-level covariates included in the multivariate analysis of school meal program participation. Models included controls for imputation indicators for each imputed covariate, if the covariate was imputed for one percent or more of the sample. The base NSLP participation model included eight such imputation indicators, and the base SBP participation model included four imputation indicators.

Results of the estimation of the base NSLP participation model are shown in Table IV.2 in the text, and results of the base SBP participation model are shown in Table IV.3. The base models includes the variables listed in Table IV.1 in the text; however, results were generally not sensitive to the choice of covariates.

Table C.1 shows the marginal effects of the base NSLP participation model specification, as well as marginal effects from alternative specifications, that controlled for fewer or more covariates. Marginal effects were multiplied by 100 so as to be interpretable as marginal effects on predicted participation rates. The marginal effect can therefore be interpreted as the difference between the predicted participation rate if the student (or school) had a particular characteristic (for example, the student was a girl) and the predicted participation rate if the student had the characteristic of the reference category (or omitted group—for example, boys), controlling for other characteristics.

In general, estimated marginal effects and associated significance levels were similar across the models estimated. The first column of Table C.1 displays estimated marginal effects from the base model. The second and third columns displays results from models that include more limited sets of covariates than the base model. Model 2 controls for only key programmatic variables; a basic set of personal and family characteristics; and location, region, and day of week. Model 3 adds controls for characteristics of meals offered and other school-level factors, but it does not control for the full set of personal and family characteristics included in the base model. The third and fourth columns control for more factors than the base model. Model 4 controls for all the characteristics in the base model, plus additional school-level factors, including whether healthy foods were available in vending machines, snack bars, a school store, or a la carte, and whether the school had a pouring rights contract or served branded foods. Model 5 adds controls for additional personal and family characteristics, including whether the student ate more or less than others of the same age, hours of TV watching, frequency of cigarette smoking, student's health (according to parent reports), and whether the family received public assistance. In general, patterns of results were similar in magnitude and significance across all five model specifications.

TABLE C.1

ESTIMATED MARGINAL EFFECTS OF INDEPENDENT VARIABLES ON THE PROBABILITY OF PARTICIPATION IN THE NSLP, UNDER ALTERNATIVE MODEL SPECIFICATIONS

	Model 1 (Base Model)	Model 2	Model 3	Model 4	Model 5
Key Program Variables					
Full Price of Meal/0.25 (for Students Not Income-Eligible for Free or Reduced-Price)	-2.3**	-2.1	-2.3**	-2.1**	-2.1**
Offer-Versus-Serve at Lunch	21.3*	19.1*	21.2*	26.5*	26.6*
Menu Planning System	8.3**	9.7**	8.9**	7.5	7.4
Meals Prepared Onsite	6.1	5.4	4.8	4.7	4.9
School Participating in SBP	13.6**	15.1**	14.6**	12.9**	12.1
Characteristics of Meals Offered					
30-35 Percent of Calories from Fat	-0.2		0.0	0.5	0.5
More than 35 Percent of Calories from Fat	4.9		4.9	5.0	4.7
Dessert Served 4-5 Times a Week	-3.7		-3.2	-4.2	-4.0
4-6 Entrees Offered per Day	11.4**		11.0**	11.5**	11.2**
7 or More Entrees Offered per Day	13.1**		13.0**	14.7**	15.0**
2-3 Fresh Fruits and Vegetables Offered per Day	-6.1		-7.0	-5.6	-5.5
4 or More Fresh Fruits and Vegetables Offered per Day	-0.9		-2.1	-1.6	-1.7
French Fries Served 4-5 Times a Week	-1.8		-1.7	-2.8	-3.3
Alternatives to NSLP Lunch					
School Has Open-Campus Policy	-7.7		-7.9	-5.6	-6.0
Competitive Foods Offered During Mealtimes	-3.4		-2.3	-3.5	-3.5
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store				-8.0	-8.5
Healthy Foods Offered a la Carte				0.3	0.7
Other School-Level Factors					
Competing Activities Scheduled During Lunch	-1.4		-2.7	-0.7	-0.9
School Has Recess (Elementary and Middle Schools)	0.1		-0.1	1.1	1.0
School Has Enough Lines During Lunch	2.7		1.3	-0.3	-0.3
School Has Enough Seats During Lunch	14.4		16.1**	14.4	15.8**
School Enrollment 500 to 1,000	5.3		6.1	4.9	4.5
School Enrollment More than 1,000	-3.2		-3.3	-3.9	-3.6
Percent Black in District	-0.2**		-0.2	-0.2**	-0.2**
Percent Hispanic in District	0.1		0.1	0.1	0.1
School Has Pouring Rights Contract				10.4**	10.4**
School Served Branded Foods				-6.4	-6.5

TABLE C.1 (continued)

	Model 1 (Base Model)	Model 2	Model 3	Model 4	Model 5
Personal and Family Characteristics					
Middle School	-18.5*	-13.9*	-18.5*	-16.6**	-16.5**
High School	-26.2*	-28.4*	-25.7*	-26.6*	-26.1*
White, Non-Hispanic	-2.1	-7.6	-4.2	-2.5	-1.7
Black, Non-Hispanic	10.4	0.1	8.9	10.1	9.5
Other Race, Non-Hispanic	0.9	-4.6	-1.8	0.3	0.8
Female	-5.5**	-6.4**	-5.6	-5.4	-5.2
Student Somewhat Picky Eater	1.3			0.7	1.5
Student Not Picky Eater	3.8			3.5	4.7
Student About as Physically Active as Others	-0.2			-0.2	-1.4
Student More Physically Active than Others	2.8			3.3	2.5
Student Much More Physically Active than Others	-4.3			-4.1	-4.6
Student Has Food Allergies or Special Dietary Needs	-6.0			-6.2	-6.5
Student on a Diet (Middle and High School Students)	-2.7			-2.9	-2.4
Two Parents, One Employed Full Time	-3.3			-3.2	-3.1
Two Parents, Neither Employed Full Time	1.6			1.9	1.1
One Parent, Employed Full Time	6.8			7.4	7.2
One Parent, Not Employed Full Time	-5.9			-5.3	-6.9
Two Children in Household	-3.4			-3.9	-4.3
Three or More Children in Household	2.2			2.1	1.9
Income-Eligible for Reduced-Price Meals	0.5	0.8	0.7	-0.3	1.6
Not Income-Eligible for Free or Reduced-Price Meals	0.5	-4.1	-2.9	-0.8	3.5
Highest Level of Parental Education: Some College	-0.8			-0.4	0.2
Highest Level of Parental Education: College or More	-10.8*			-10.3**	-9.4**
Primary Language Spoken at Home: Spanish	4.1			4.3	4.5
Primary Language Spoken at Home: Other	-2.1			-2.2	-1.8
Family Eats Dinner Together Five Nights a Week or More	1.5			2.0	2.1
Student Eats About the Same Amount as Others					3.7
Student Eats Less than Others					5.4
Smoked 1 to 10 Days in Past Month					6.8
Smoked More than 10 Days in Past Month					-13.0
Student Watches 0.1 to 1 Hours of TV a Day					2.6
Student Watches 1.1 to 2.9 Hours of TV a Day					7.7
Student Watches More than 3 Hours of TV a Day					7.6
Student in Good Health (Parent Report)					-3.7
Student in Very Good Health (Parent Report)					-0.5
Student in Excellent Health (Parent Report)					0.7
Family Received Public Assistance					8.7**

TABLE C.1 (continued)

	Model 1 (Base Model)	Model 2	Model 3	Model 4	Model 5
Location, Region, And Day Of Week					
Suburban	-3.1	3.3	-2.3	-3.0	-3.5
Rural	12.8*	18.8*	14.2*	11.8**	11.8**
Midwest	13.5	12.1	13.5	13.9	14.0
Mountain	9.9	4.9	8.1	11.2	10.9
Northeast	6.7	7.3	6.3	7.6	8.5
Southeast	14.8**	12.7	14.0**	15.8**	16.5*
Southwest	5.4	9.9	4.9	6.2	7.2
Western	-1.2	0.3	-1.9	0.9	2.1
Tuesday	1.1	2.5	1.8	1.4	1.4
Wednesday	2.3	1.1	3.4	1.0	1.0
Thursday	11.6**	13.5*	12.7**	10.3**	9.8
Friday	-4.7	-3.5	-4.1	-2.7	-2.6
Imputation Indicators	x	x	x	x	x
Number of Students	2,314	2,314	2,314	2,314	2,314

Source: School Nutrition Dietary Assessment–III, Initial Contact Form, Principal Survey, Food Service Manager Survey, Menu Survey, Student Interview, and Parent Interview, school year 2004–2005. Weighted estimates prepared by Mathematica Policy Research, Inc.

Note: Models were estimated using probit analysis. Figures shown are marginal effects multiplied by 100.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

Table C.2 shows the marginal effects of the base SBP participation model (Model 1), as well as marginal effects from alternative specifications, that controlled for fewer (Models 2 and 3) or more (Models 4 and 5) covariates. Estimated marginal effects were again similar in magnitude and significance level across the various model specifications. One exception was for whether the student lived in a rural location—although this marginal effect was similar in magnitude in all five models, it was statistically significant at the 0.05 level in Models 3 through 5, but not in the base model.

TABLE C.2

ESTIMATED MARGINAL EFFECTS OF INDEPENDENT VARIABLES ON THE PROBABILITY OF PARTICIPATION IN THE SBP, UNDER ALTERNATIVE MODEL SPECIFICATIONS

	Model 1 (Base Model)	Model 2	Model 3	Model 4	Model 5
Key Program Variables					
Full Price of Meal/0.15 (for Students Not Income-Eligible for Free or Reduced-Price)	-2.8*	-2.5*	-2.5*	-2.4*	-2.4*
Offer-Versus-Serve at Lunch	5.0	2.3	5.3	4.2	3.9
Menu Planning System	5.2	4.7	5.9	5.1	5.0
Meals Prepared Onsite	3.7	3.1	2.9	3.1	3.6
Characteristics of Meals Offered					
20 to 25 Percent of Calories from Fat	2.7		2.5	1.6	1.7
More than 25 Percent of Calories from Fat	5.7		5.7	3.9	4.0
Alternatives to SBP Breakfast					
Competitive Foods Offered During Mealtimes	-0.3		0.9	-1.3	-1.4
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store				-2.6	-2.5
Healthy Foods Offered a la Carte				-6.2**	-5.6
Other School-Level Factors					
School Enrollment 500 to 1,000	0.9		0.9	0.2	0.1
School Enrollment More than 1,000	-8.2**		-8.9**	-8.0	-8.0
Percent Black in District	0.0		0.1	0.0	0.0
Percent Hispanic in District	0.0		0.0	0.0	0.0
School Has Pouring Rights Contract				2.7	2.7
School Served Branded Foods				3.5	3.7
Personal and Family Characteristics					
Middle School	-7.3**	-8.3*	-9.9*	-6.5**	-6.4**
High School	-7.6**	-12.7*	-9.9*	-5.9	-5.6
White, Non-Hispanic	1.8	-0.4	-0.1	1.5	1.6
Black, Non-Hispanic	10.2**	10.7**	9.8**	10.1**	9.0
Other Race, Non-Hispanic	9.2	5.2	6.6	8.1	8.4
Female	-8.1*	-7.8*	-8.2*	-7.9*	-8.0*
Student Somewhat Picky Eater	1.7			1.2	1.6
Student Not Picky Eater	3.2			2.9	2.9

TABLE C.2 (continued)

	Model 1 (Base Model)	Model 2	Model 3	Model 4	Model 5
Student About as Physically Active as Others	1.0			1.3	1.8
Student More Physically Active than Others	0.4			1.0	1.9
Student Much More Physically Active than Others	0.7			0.9	1.4
Student Has Food Allergies or Special Dietary Needs	5.0			5.0	4.3
Student on a Diet (Middle and High School Students)	-1.4			-1.1	-1.1
Two Parents, One Employed Full Time	-4.3			-4.7	-5.2
Two Parents, Neither Employed Full Time	6.1			6.1	4.3
One Parent, Employed Full Time	2.0			2.0	1.3
One Parent, Not Employed Full Time	4.4			4.5	2.7
Two Children in Household	-1.9			-1.8	-2.2
Three or More Children in Household	2.5			3.0	2.5
Income-Eligible for Reduced-Price Meals	0.1	-2.5	-2.2	0.5	2.4
Not Income-Eligible for Free or Reduced-Price Meals	3.3	0.1	-0.2	3.2	7.1
Highest Level of Parental Education: Some College	2.7			2.4	3.1
Highest Level of Parental Education: College or More	-3.3			-3.2	-2.1
Primary Language Spoken at Home: Spanish	11.1**			9.7	9.2
Primary Language Spoken at Home: Other	-11.4**			-11.4**	-11.6**
Family Eats Dinner Together Five Nights a Week or More	-4.2			-4.0	-4.3
Student Eats About the Same Amount as Others					0.1
Student Eats Less than Others					0.1
Smoked 1 to 10 Days in Past Month					-9.1
Smoked More than 10 Days in Past Month					-1.5
Student Watches 0.1 to 1 Hours of TV a Day					-4.3
Student Watches 1.1 to 2.9 Hours of TV a Day					-0.6
Student Watches More than 3 Hours of TV a Day					-0.5
Student in Good Health (Parent Report)					-2.7
Student in Very Good Health (Parent Report)					-4.2
Student in Excellent Health (Parent Report)					-2.7
Family Received Public Assistance					5.9
Location, Region, and Day of Week					
Suburban	-4.2	-5.0	-3.4	-2.4	-2.4
Rural	7.0	7.2	8.8**	9.0**	8.8**
Midwest	1.6	2.7	0.5	2.6	2.6

TABLE C.2 (continued)

	Model 1 (Base Model)	Model 2	Model 3	Model 4	Model 5
Mountain	-5.3	-6.0	-7.1	-6.2	-6.2
Northeast	1.5	-4.0	-0.4	3.5	3.4
Southeast	-1.1	-0.2	-2.7	0.2	0.6
Southwest	2.3	1.6	0.5	3.2	3.7
Western	6.4	4.3	3.9	4.4	5.4
Tuesday	2.4	2.0	2.4	2.5	2.4
Wednesday	2.2	1.4	2.1	1.5	1.9
Thursday	4.9	4.9	5.1	5.2	4.7
Friday	-0.7	-2.3	-0.6	-0.7	-0.8
Imputation Indicators	x	x	x	x	x
Number of Students	2,011	2,011	2,011	2,011	2,011

Source: School Nutrition Dietary Assessment–III, Initial Contact Form, Principal Survey, Food Service Manager Survey, Menu Survey, Student Interview, and Parent Interview, school year 2004–2005. Weighted estimates prepared by Mathematica Policy Research, Inc. Sample excludes students in schools that did not participate in the SBP.

Note: Models were estimated using probit analysis. Figures shown are marginal effects multiplied by 100.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

APPENDIX D
FOOD GROUPS

A food grouping system with major and minor food groups was developed to provide further insight into the various types of foods offered in menus and the types of foods consumed by children in the dietary recall data (see Appendix Table D.1). Major and minor food groups were created, similar to those used in the Second School Nutrition Dietary Assessment Study (SNDA-II). Each menu item was assigned to one of nine major food groups—milk, fruits, vegetables, combination entrees, meat/meat alternates, grains/breads, desserts, accompaniments (condiments and toppings), and other menu items (e.g., snack items, juice drinks—not 100% juice). To further classify foods, the major food groups were expanded into subgroups (minor food groups). The minor food groups were established based on how often foods were reported in breakfast and lunch menus and dietary recalls and a review of the minor food groups used in SNDA-II. Vegetable minor groups were based on the U.S. Department of Agriculture’s (USDA’s) My Pyramid subgroups (dark green, deep yellow, legumes, starchy, and other vegetables). Also taken into consideration during the development of the food grouping system was the desire to describe the frequency with which schools offered fresh produce and self-serve food bars. The major and minor food groups were assigned to all menu and dietary recall items using the SurveyNet food codes.

TABLE D.1
MAJOR AND MINOR FOOD GROUPS

Major	Minor	Examples	
Milk	Minor		
	Whole, unflavored	Whole milk with no added flavoring	
	Whole, flavored	Whole chocolate or strawberry milk	
	2%, unflavored	2% milk with no added flavoring	
	2%, flavored	2% chocolate or strawberry milk	
	1%, unflavored	1% milk with no added flavoring	
	1%, flavored	1% chocolate or strawberry milk	
	Skim, unflavored	Skim milk with no added flavoring	
	Skim, flavored	Nonfat chocolate or strawberry milk	
	Other milk beverages	Milkshakes, cocoa made with milk, powdered breakfast drink made with milk	
Fruits	Fresh	Any fresh fruit including apples, oranges, bananas, strawberries, and self-serve fruit bars	
	Canned, sweetened	Any canned fruit in light, medium or heavy syrup, or juice-packed, including peaches, pears, fruit cocktail	
	Canned, unsweetened	Any canned fruit water-packed or drained, including peaches, pears, fruit cocktail	
	Frozen	Any frozen fruit, including strawberries, blueberries, peaches, cherries	
	Dried	Any dried fruit, including raisins, cranberries	
	Citrus fruit juice, 100%	Orange juice, grapefruit juice, orange-blend juice, including calcium fortified juice	
	Non-citrus fruit juice, 100%	Apple juice, grape juice, juice blends, including vitamin C fortified juice	
	Vegetables	Cooked, starchy	Potatoes, French fries, tater tots, corn, green peas
		Cooked, dark green	Cooked broccoli, spinach, collards, kale
		Cooked, deep yellow	Cooked carrots, sweet potatoes
Cooked, other		String beans, cauliflower, asparagus, mixed vegetables, vegetable soups	
Vegetable soups and vegetable casseroles			Tomato soup, broccoli cheese soup, vegetable noodle soup

TABLE D.1 (continued)

Major	Minor	Examples
Combination Entrees	Legumes	Pinto beans, kidney beans, black beans, lentils, bean soups
	Raw, dark green	Raw spinach, romaine, broccoli
	Raw, deep yellow	Raw carrots
	Raw, other	Raw green or red peppers, iceberg lettuce, cabbage
	Entree food bars	Self-serve salad bars, sandwich or deli bars, nacho or taco bars, pasta bars, potato bars
Combination Entrees	Bag lunches/pre-plated meals	Pre-packaged meals, including Lunchables
	Hamburger, similar beef/pork sandwiches	Hamburgers, sloppy joes, beef steak sandwiches, and riblet sandwiches
	Cheeseburger, similar beef/pork sandwiches	Cheeseburgers, sloppy joes with cheese, beef steak and cheese sandwiches, meatball and cheese subs
	Hot dog, corn dog, similar sausage sandwiches	Hot dog on bun, corn dogs, and pancake-on-a-stick
	Sandwiches with breaded/fried meat, poultry, or fish	Chicken patty, chicken-fried steak, breaded beef or pork patty, and breaded fish patty sandwiches
	Sandwiches with plain meat, poultry, or fish	Turkey, ham, turkey ham, grilled chicken, roast beef, and salami sandwiches
	Sandwiches with mayonnaise-based poultry, egg, or tuna salads	Chicken, egg, and tuna salad sandwiches
	Sandwiches with only cheese	Grilled cheese, cheese sandwiches, Uncrustables
	Peanut butter sandwiches	Peanut butter and jelly sandwiches, Uncrustables
	Breakfast sandwiches	Sausage, egg, and cheese on bagel; chicken patty on a biscuit; croissant with ham and cheese
	Pizza with meat	Sausage, pepperoni, and breakfast pizzas
	Pizza without meat	Cheese pizzas and vegetable pizzas
	Pizza-type product with meat	Calzones with pepperoni and cheese
	Pizza-type product without meat	Pizza dippers, pizza sticks, pizza rolls, mozzarella sticks
	Mixtures with pasta or noodle base	Spaghetti with sauce, lasagna, macaroni and cheese, ravioli
	Other mixtures with meat, grain, and/or vegetables	Chili, beef or chicken stir-fry, egg rolls, frozen meals, chili cheese fries, baked potato with cheese and meat
	Mexican-style entrees	Burritos, tacos, nachos, quesadillas, fajitas, enchiladas, taquitos, tamales
Entree salads	Chef salads, chicken caesar salad, taco salad, salads with tuna or chicken salad	

TABLE D.1 (continued)

Major	Minor	Examples	
Meat/Meat Alternates	Chicken and turkey, breaded/fried	Chicken nuggets, patties, fillets, tenders, poppers, and fried chicken	
	Chicken and turkey, plain (not breaded/fried)	Chicken or turkey salad, grilled chicken strips, chicken fajita strips, and roasted chicken breast	
	Fish and shellfish, breaded/fried	Fish sticks, nuggets or patties, and shrimp poppers	
	Fish and shellfish, plain (not breaded/fried)	Tuna salad, salmon, cod, shrimp	
	Meat, breaded/fried	Chicken fried steak, breaded beef patty	
	Meat, plain (not breaded/fried)	Ground beef, pork chops, meatloaf, meatballs	
	Sausage, frankfurters and cold cuts	Sausage patties/links, hot dogs, bologna, salami	
	Other protein (cheese, eggs, beans, or meat substitutes)	Cheese slices, omelets, hard boiled eggs, cheese sauce	
	Nuts, nut butters, seeds, trail mixes	Peanut butter, sunflower seeds, trail mixes, mixed nuts	
	Yogurt	Fruited or plain yogurt, including nonfat and lowfat	
	Grains/Breads	White breads, rolls, bagels, and other plain breads	White bread, pita bread, bagels, English muffins, toast, dinner rolls
		Whole grain breads, rolls, bagels, and other plain breads	Wheat, whole wheat, oatmeal, and rye bread or rolls
		Cold cereal, sweetened ^a	Any type of sweetened cold cereal: Honey Nut Cheerios, Fruit Loops, Lucky Charms, Frosted Flakes
		Cold cereal, unsweetened	Any type of unsweetened cold cereal: Rice Krispies, Corn Flakes, Wheaties, Chex
		Hot cereal	Any type of cooked hot cereal, including oatmeal, grits, cream of wheat
Crackers and pretzels (hard)		Saltines, oyster crackers, cheese-filled crackers, hard pretzels	
Biscuits, croissants, seasoned breadsticks, cornbread, and stuffing		Biscuits, croissants, cornbread, hush puppies, stuffing, dumplings, flavored bread sticks	
Corn/tortilla chips		Corn chips, tortilla chips, taco shells	
Bread or bread alternates with added fat		Buttered toast, bagel with cream cheese, garlic bread	
Muffins (excluding English muffins), sweet/quick breads		Blueberry muffins, chocolate chip muffins, banana or pumpkin bread	
Pancakes, waffles, French toast		Pancakes, waffles, French toast or French toast sticks	

TABLE D.1 (continued)

Major	Minor	Examples
	Rice	White, yellow or brown rice, rice pilaf, rice with vegetables, flavored rice not included in a combination entree
	Pasta	Noodles, macaroni, and spaghetti not included in a combination entree; pasta salad without meat; macaroni and cheese as a side dish
	Pastries ^b	Pop-Tarts, cinnamon or sweet rolls, coffee cake, danishes, doughnuts
	Granola bars, fruit and grain bars ^b	Cereal bars with fruit filling, granola bars, Power Bars
Desserts	Baked (grain-based) desserts	Cookies, cakes, brownies, pies
	Granola bars, fruit and grain bars	Granola bars, breakfast bars, Rice Krispies treats
	Desserts containing fruit item or fruit juice	Fruit juice bars, gelatin with fruit, fruit sorbet
	Dairy based desserts	Pudding, ice cream, ice cream bars, frozen yogurt, yogurt
	Other (non-fruit gelatin)	Gelatin without fruit, ice pops
Other	Candy	Chocolate bars, licorice, gum, fruit roll-ups, hard candies
	Juice drinks (not 100% juice)	Lemonade, grape juice, fruit punch, orange drinks
	Carbonated soda with caloric sweetener	Regular sodas, fruit-flavored sodas, cream sodas, root beer, ginger ale, tonic water
	Carbonated soda with non-caloric sweetener	Diet sodas, diet fruit-flavored sodas, and club soda
	Tea and coffee	Caffeinated/decaffeinated tea and coffee, including sweetened
	Bottled water, non-carbonated, unsweetened	Plain spring or mineral water
	Bottled water, non-carbonated, sweetened	Sugar-sweetened spring or mineral water, including flavored water
	Bottled water, non-carbonated, vitamin-fortified	Spring or mineral water, including sweetened and/or flavored, fortified with vitamins (Propel, Vitamin Water)
	Bottled water, non-carbonated, sugar-free	Spring or mineral water sweetened with diet sweetener, including flavored water
	Accompaniments	Fat-free/low-fat condiments and toppings

TABLE D.1 (continued)

Major	Minor	Examples
	Higher fat condiments and toppings	Mayonnaise, tartar sauce, butter, margarine, cheese sauce, chili, gravy, cream cheese, sour cream
	Fat-free/low-fat salad dressings	Fat-free, low-fat, reduced-calorie, or low-calorie ranch, Italian, and French dressing
	Regular salad dressings	Ranch, Italian, honey mustard, French, and caesar dressing
	Condiment or fixins bar	Self-serve condiment, toppings, or 'fixins' bars

^aA cereal was classified as sweetened if it contained 21.3 grams of sugar or more per 100 gram serving—the current criterion for cereals allowed under the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC).

^bSweet rolls, doughnuts, toaster pastries, coffee cake, grain fruit bars, and granola bars included as a grain/bread at breakfast.

APPENDIX E

**TECHNICAL APPENDIX ON THE MULTIVARIATE ANALYSIS OF MEAN
DIETARY INTAKES**

This appendix describes the methodology used for the analysis of mean dietary intakes of school meal program participants and nonparticipants. As noted in the report, students who participated in the school meal program likely differed from nonparticipants in many ways, both observable and unobservable. Because of these differences between the two groups of students, it is possible that their dietary intakes would have differed even if the school meal programs were not available and participants obtained their meals from other sources.

To adjust for some of the underlying differences between participants and nonparticipants, the mean dietary intakes presented in the report were regression-adjusted for observable factors that may be correlated both with a student's decision to participate in the school meal programs and with his or her dietary intakes.¹ Differences between the regression-adjusted means for participants and nonparticipants therefore represent differences among students who were similar along many observable characteristics. Because there may have been important unobservable differences between participants and nonparticipants that could not be accounted for in the regression-adjustment, differences between the two groups still do not represent causal effects of the school meal programs. Nonetheless, the regression-adjustment accounts for some of the differences between the two groups.

The process used to generate the regression-adjusted estimates had three steps. First, linear regression models of students' intakes of each nutrient were estimated (both at breakfast or lunch and over 24 hours), with National School Lunch Program (NSLP) and School Breakfast Program (SBP) participation status and other relevant observable factors included as covariates.² Second,

¹ Unadjusted mean intakes of school meal program participants and nonparticipants are presented in Appendix F of this report.

² These regression models were estimated on the full sample of students with completed 24-hour dietary recalls and parent interviews. For students with two dietary recalls, only the first was included.

the estimated coefficients from the regression models were used to calculate two different predicted intake levels for each sample member—one assuming that the student was a school meal program participant, and the other assuming that he or she was a nonparticipant. Third, the regression-adjusted estimate of mean intakes for participants was computed as the weighted mean value of the predicted intake levels assuming all students were participants, and the regression-adjusted estimate of mean intakes for nonparticipants was computed as the weighted mean value of the predicted intake levels assuming all students were nonparticipants.

The regression used to generate regression-adjusted mean intakes took the following form:

$$(1) y_i = \alpha_0 + X_i\beta + \alpha_1NSLP_i + \alpha_2SBP_i + \varepsilon_i,$$

where y_i is student i 's intake of nutrient y ; X_i is a set of observable characteristics; $NSLP_i$ is an indicator of the student's NSLP participation status; SBP_i is an indicator of the student's SBP participation status; and ε_i is a random error term. Table E.1 lists the covariates included in the model.³ Tables E.2 through E.5 present the full results of these regression models for all students.

After the regression model was estimated, the resulting coefficient estimates were used to calculate two predicted intake values for each student in the sample—one predicted intake assuming the student was an NSLP (or SBP) participant, and the other predicted intake assuming

³ When the value for a particular covariate was missing for a particular student, the value for this covariate was imputed. Across the different covariates included in the analysis, the percentage of sample members with missing values ranged from zero to eight percent. Missing values of continuous school-level variables were imputed as the mean value of that variable by region and grade level (elementary, middle, or high school), and missing values of continuous student-level variables were imputed as the mean value of that variable by region, grade level, and gender. Missing values of school-level binary and categorical variables were imputed as the modal value for that variable by region and grade level, and missing values of student-level binary and categorical variables were imputed as the modal value for that variable by region, grade level, and gender. Models included imputation indicators for each imputed covariate as control variables, if the covariate was imputed for one percent or more of the sample. The models included five such imputation indicators.

the student was a nonparticipant. The former predicted intake value (assuming NSLP participation) was calculated as follows:

$$(2) y_i^P = \hat{\alpha}_0 + X_i \hat{\beta} + \hat{\alpha}_2 SBP_i + \hat{\alpha}_1,$$

where $\hat{\alpha}_0$, $\hat{\beta}$, $\hat{\alpha}_1$, and $\hat{\alpha}_2$ are estimated coefficients from model (1).

The predicted intake value assuming NSLP nonparticipation was calculated as follows.

$$(3) y_i^{NP} = \hat{\alpha}_0 + X_i \hat{\beta} + \hat{\alpha}_2 SBP_i.$$

Thus, the difference between the predicted intakes among NSLP participants and the predicted intakes among nonparticipants is $\hat{\alpha}_1$, the estimated coefficient on NSLP participation status. The regression-adjusted mean intake values for participants and nonparticipants were calculated as the mean values of y_i^P and y_i^{NP} . The regression-adjusted mean intakes of SBP participants and nonparticipants were calculated analogously.

TABLE E.1

COVARIATES INCLUDED IN REGRESSION MODELS OF MEAN DIETARY INTAKES

Covariate	Values
NSLP Participation	A binary variable indicating the student participated in the NSLP
SBP Participation	A binary variable indicating the student participated in the SBP
Gender	A binary variable indicating the student's gender
Race/Ethnicity	A set of three binary variables indicating the student's race/ethnicity
Age	A set of 12 binary variables indicating the student's age
Hearty Eater	A set of two binary variables indicating how much the student eats relative to others
Picky Eater	A set of two binary variables indicating whether the student is not picky, somewhat picky, or very picky
Height	The student's height in feet
Food Allergies	A binary variable indicating whether the student has food allergies or special dietary needs
Dieting	A binary variable indicating whether the student is on a diet
Dietary Supplement Use	A binary variable indicating whether the student takes dietary supplements
Health Status	A set of three binary variables indicating how healthy the student is, based on parent reports
Physical Activity	A set of three binary variables indicating the student's level of physical activity relative to others
TV Watching	A set of three binary variables indicating the amount of television the student watches per day
Family Income	A set of four binary variables indicating the student's family income relative to poverty
Public Assistance	A binary variable indicating whether the student's family receives public assistance
Number of Children in Household	A set of two binary variables indicating the number of children in the household
Relationship of Respondent to Student	A binary variable indicating whether the respondent was the student's parent or partner of parent
Parental Employment	A set of four binary variables indicating the employment status of the student's parent(s)
Primary Language Spoken at Home	A set of two binary variables indicating the primary language spoken in the student's home

TABLE E.1 (continued)

Covariate	Values
Parental Education	A set of two binary variables indicating the highest level of education completed by the student's parent(s)
Family Dining Habits	A binary variable indicating whether the student's family eats dinner together 5 nights a week or more
School SBP Participation	A binary variable indicating whether the student's school participated in the SBP
Open Campus	A binary variable indicating whether the student's school has an open-campus policy
Competitive Foods Offered During Mealtimes	A binary variable indicating whether the student's school offers competitive foods during mealtimes
Healthy Foods Offered Competitively	A binary variable indicating whether the student's school offers healthy foods offered in vending machines, snack bars, or school store
Healthy Foods Offered a la Carte ^a	A binary variable indicating whether the student's school offers healthy foods a la carte
Recess	A binary variable indicating whether the student's school offers recess
Urbanicity	A set of three binary variables indicating whether the student's school serves an urban area, urban fringe, town, or rural area
Region	A set of six binary variables indicating region of the country in which the student lives
Day of Week	A set of four binary variables indicating the day of the week of the student's dietary recall
Imputation Indicators	A set of five binary variables indicating whether the values of particular covariates were imputed for that student

^aIncluded only in models for NSLP participants and nonparticipants.

TABLE E.2A

RESULTS FROM REGRESSION MODELS OF MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polysaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
NSLP Participation	2.25	-1.23	0.18	-0.95	-0.33	-0.34	0.11**	-1.38	4.14**		
SBP Participation	-10.39	0.09	0.04	0.11	0.00	0.01	0.01	-3.08	0.12		
Female	-101.71**	-4.59**	-1.45**	-1.91**	-0.88**	-0.78**	-0.06**	-11.44**	-4.02**		
Black, Non-Hispanic	-10.32	-0.83	-0.14	-0.29	-0.32	-0.30	0.00	0.04	-1.31		
Hispanic	-32.71	-2.31	-0.85*	-0.63	-0.64	-0.57	-0.05	-0.63	-2.41*		
Other Race, Non-Hispanic	32.41	0.34	0.47	0.43	-0.56	-0.51	-0.03	6.65	0.93		
Age 7	6.47	2.71	0.62	1.10	0.72	0.64	0.03	-5.40	1.16		
Age 8	19.71	2.71	0.49	1.17	0.76	0.76	0.01	-3.07	1.91		
Age 9	21.80	3.02	0.55	1.55	0.66	0.65	-0.01	-1.61	0.33		
Age 10	-28.48	-0.09	-0.01	-0.14	-0.09	-0.07	-0.04	-7.67	0.36		
Age 11	35.46	5.75	1.72	2.41	0.86	0.82	-0.04	-10.83	6.82		
Age 12	-27.62	2.85	0.52	1.07	0.80	0.75	-0.02	-14.21*	0.97		
Age 13	-30.56	3.17	1.36	1.25	0.12	0.09	-0.07	-16.98*	1.89		
Age 14	-50.84	1.93	1.19	0.82	-0.45	-0.52	-0.08	-19.76**	1.89		
Age 15	-37.15	1.64	1.10	0.81	-0.64	-0.76	-0.10	-15.71	1.96		
Age 16	12.55	5.97	2.43	2.16	0.71	0.50	0.04	-14.33	3.49		
Age 17	22.22	6.01	1.83	2.34	1.08	0.85	0.07	-11.49	3.32		
Age 18	69.59	6.03	2.80	2.38	0.10	-0.07	-0.00	-5.52	8.56		
Student Eats About the Same Amount as Others	-25.57	-1.69	-0.68	-0.58	-0.38	-0.33	-0.05	-1.36	-1.45		
Student Eats Less than Others	-43.96	-2.40	-1.08*	-0.87	-0.34	-0.35	-0.03	-3.77	-1.81		
Student Somewhat Picky Eater	-13.61	-0.14	0.10	0.05	-0.31	-0.31	-0.04	-2.17	-0.90		
Student Not Picky Eater	-18.99	-0.61	-0.14	-0.26	-0.16	-0.20	0.02	-3.28	-0.37		
Student's Height in Feet	77.73	1.03	0.44	0.36	0.27	0.24	0.08	16.44**	0.84		
Student Has Food Allergies or Special Dietary Needs	48.73	2.14	0.30	1.15	0.63	0.56	-0.00	6.76	1.17		
Student on a Diet (Middle and High School Students)	-50.43*	-2.00	-0.57	-1.21*	-0.11	-0.14	0.03	-7.04*	-1.33		
Student Takes Dietary Supplements	5.10	-1.25	-0.40	-0.44	-0.21	-0.22	0.00	4.53*	-0.51		

TABLE E.2A (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Student in Good Health (Parent Report)	15.14	0.87	-0.09	0.15	0.72	0.68	0.02	1.79	0.51		
Student in Very Good Health (Parent Report)	19.26	0.27	-0.03	-0.07	0.29	0.29	-0.01	4.80	-0.09		
Student in Excellent Health (Parent Report)	24.00	0.83	0.17	0.18	0.37	0.38	-0.01	4.21	0.57		
Student About as Physically Active as Others	38.64	2.00	0.74	0.55	0.58	0.44	0.08*	2.58	2.48**		
Student More Physically Active than Others	17.54	0.84	0.41	0.16	0.23	0.16	0.06	1.18	1.20		
Student Much More Physically Active than Others	63.66	3.08	1.36*	0.90	0.55	0.43	0.06	5.37	3.44		
Student Watches 0.1 to 1 Hours of TV a Day	-18.04	-0.59	-0.06	-0.19	-0.30	-0.28	0.02	-3.21	-0.53		
Student Watches 1.1 to 2.9 Hours of TV a Day	-21.59	-1.22	-0.21	-0.53	-0.39	-0.31	-0.01	-2.53	-0.87		
Student Watches More than 3 Hours of TV a Day	-44.89	-1.92	-0.52	-0.65	-0.54	-0.49	-0.01	-4.94	-2.49		
Family Income 130 to 185 Percent of Poverty	4.65	-0.08	-0.00	-0.11	-0.03	0.00	-0.02	0.94	0.31		
Family Income 185 to 200 Percent of Poverty	-43.90	-2.75	-0.93	-0.93	-0.73	-0.64	-0.05	-1.80	-3.07**		
Family Income 200 to 300 Percent of Poverty	-29.00	-2.21	-0.74	-0.73	-0.61	-0.56	-0.05	0.04	-2.42		
Family Income More than 300 Percent of Poverty	-18.93	-1.40	-0.34	-0.58	-0.46	-0.37	-0.03	0.02	-1.70		
Family Receives Public Assistance	-6.86	-0.59	-0.32	-0.01	-0.31	-0.29	-0.04	0.43	-0.70		
Two Children in Household	0.69	-0.16	0.23	0.08	-0.57	-0.57*	-0.04	-0.46	0.96		
Three or More Children in Household	4.63	-0.05	0.37	-0.07	-0.44	-0.44	-0.01	0.58	0.62		
Respondent Was Parent or Partner of Parent	63.68	3.90	-0.06	1.21	2.33	1.82	0.19	4.12	3.57		
Two Parents, One Employed Full Time	-15.98	-1.05	-0.23	-0.55	-0.10	-0.04	-0.01	-0.02	-1.54		
Two Parents, Neither Employed Full Time	5.88	-0.11	0.50	-0.44	-0.12	-0.04	0.04	1.32	0.25		

TABLE E.2A (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
One Parent, Employed Full Time	-45.08	-1.93	-0.63	-0.96	-0.21	-0.18	0.02	-5.51	-1.85		
One Parent, Not Employed Full Time	-27.24	-1.20	-0.39	-0.50	-0.16	-0.12	0.02	-0.88	-3.12		
Primary Language Spoken at Home: Spanish	-3.17	-1.79	0.29	-1.15	-0.86*	-0.73*	-0.03	4.39	-1.03		
Primary Language Spoken at Home: Other	12.47	-1.28	-0.14	-0.60	-0.61	-0.54	-0.03	5.44	0.33		
Highest Level of Parental Education: Some College	22.36	0.37	0.00	-0.04	0.38	0.39	0.04*	5.30*	-0.26		
Highest Level of Parental Education: College or More	3.79	-0.79	-0.07	-0.46	-0.21	-0.18	-0.01	2.67	0.23		
Family Eats Dinner Together Five Nights a Week or More	-5.59	0.09	0.07	0.05	-0.02	-0.05	0.02	-1.66	-0.08		
School Participating in SBP	-1.46	0.12	0.11	0.17	-0.28	-0.19	-0.04	-1.22	0.70		
School Has Open-Campus Policy	14.05	0.35	-0.06	0.12	0.34	0.34	0.01	2.88	-0.16		
Competitive Foods Offered During Mealtimes	31.65	2.53	0.38	1.13	0.77*	0.65*	0.05	-0.64	2.95		
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store	-59.05*	-2.34	-1.24**	-0.62	-0.11	0.03	-0.07**	-4.24	-5.04**		
Healthy Foods Offered a la Carte	1.07	0.06*	0.01	0.03*	0.01	0.01	0.00	0.11	0.03		
School Has Recess (Elementary and Middle Schools)	-32.42	-1.29	-0.21	-0.54	-0.42	-0.33	-0.05	-4.76	-0.38		
School Serves Urban Fringe of City	-4.89	1.07	0.55	0.45	0.07	0.01	0.02	-3.80	0.27		
School Serves Town	-21.10	1.10	1.83**	0.33	-1.22*	-1.10*	-0.06	-7.14*	-0.36		
School Serves Rural Area	18.02	1.89	1.03*	0.51	0.06	0.06	0.03	-0.56	0.98		
Midwest	-7.65	0.71	-0.88	0.37	1.29	1.09	0.15*	-3.27	-0.11		
Mountain	28.66	2.28	0.64	1.04	0.64	0.46	0.12**	1.15	0.91		
Northeast	-18.39	-0.23	0.12	-0.26	0.05	-0.00	0.07	-3.39	-0.87		
Southeast	-34.42	-1.61	-1.09*	-0.45	0.27	0.18	0.07	-1.36	-3.62		
Southwest	-20.11	0.68	-0.20	0.23	0.65	0.55	0.14**	-6.01	-0.87		
Western	-89.92*	-2.95	-1.57**	-1.03	-0.02	0.01	0.04	-12.43**	-3.80		
Tuesday	-3.35	0.53	-0.16	0.03	0.47	0.41	0.06*	-3.71	1.43		

TABLE E.2A (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Wednesday	-0.29	0.10	0.50	-0.19	-0.33	-0.29	-0.03	-2.99	2.36		
Thursday	-5.92	0.36	0.28	0.07	-0.20	-0.21	-0.00	-4.01	1.51		
Friday	-44.31	-2.89*	-0.77	-1.23*	-0.65	-0.66	-0.02	-2.87	-1.74		
Family Income Imputed	-38.37	-1.55	-0.44	-0.75	-0.39	-0.44	-0.02	-1.91	-4.28**		
Parental Employment Imputed	32.29	4.44	0.23	1.59	2.25	1.74	0.22	-3.38	1.63		
Student's Height Imputed	-12.56	-2.24	-0.47	-1.40	-0.27	-0.19	0.02	2.44	-0.31		
Open Campus Imputed	100.45*	4.59	0.64	2.02	1.57	1.53	-0.01	11.32*	5.22**		
Recess Imputed	-77.42	-5.41	-0.43	-2.00	-2.35*	-2.06	-0.09	-6.62	-1.73		
Constant	328.81	19.31	6.82	8.53	2.55	2.49	-0.20	21.90	18.58		
Observations	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228		
R-Squared	0.108	0.095	0.097	0.092	0.086	0.084	0.101	0.096	0.120		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.2B

RESULTS FROM REGRESSION MODELS OF MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
NSLP Participation	0.64	0.87**	-0.37	0.07	0.01	0.17**	-4.57**	3.52**		
SBP Participation	0.18	0.06	0.17	-0.01	-0.01	0.02	-0.58	0.28		
Female	-0.12	-0.16	-0.13	0.14	0.11	0.03	0.31	-0.15		
Black, Non-Hispanic	-0.55	-0.10	0.08	-0.38	-0.35	-0.01	1.28	-1.01		
Hispanic	-2.39*	-0.98*	-0.50	-0.73*	-0.62*	-0.07	3.53**	-1.00		
Other Race, Non-Hispanic	-0.43	0.12	0.41	-0.88	-0.78	-0.07	0.96	-0.49		
Age 7	4.27*	0.87	1.67	1.38*	1.21*	0.10	-3.86	-0.30		
Age 8	3.46	0.61	1.56	0.99	0.96	0.03	-3.64	0.01		
Age 9	3.53	0.48	1.83	1.08*	0.99*	0.02	-2.66	-0.97		
Age 10	2.20	0.79	0.66	0.58	0.54	0.00	-2.62	0.29		
Age 11	5.09*	1.36	2.17*	1.09	1.02	0.01	-6.50	1.20		
Age 12	5.19*	1.46	1.98	1.25	1.13	0.04	-5.50	0.39		
Age 13	5.98*	2.26	2.45*	0.92	0.78	0.01	-6.60	0.39		
Age 14	4.87	2.10	2.11	0.39	0.18	0.02	-5.78	0.54		
Age 15	4.50	2.02	2.05	0.11	-0.07	-0.05	-5.60	0.76		
Age 16	8.24**	3.36**	2.92**	1.26	1.01	0.07	-9.00*	0.64		
Age 17	7.39**	2.12	2.56*	2.06*	1.75*	0.17	-7.88*	0.47		
Age 18	5.84*	2.72*	2.37	0.43	0.26	0.00	-8.43*	2.09		
Student Eats About the Same Amount as Others	-0.95	-0.48	-0.26	-0.16	-0.12	-0.04	1.13	-0.29		
Student Eats Less than Others	-0.91	-0.83*	-0.40	0.26	0.19	0.02	1.12	-0.06		
Student Somewhat Picky Eater	0.79	0.41	0.48	-0.19	-0.19	-0.03	-0.30	-0.43		
Student Not Picky Eater	0.59	0.22	0.25	0.11	0.04	0.04	-0.86	0.20		
Student's Height in Feet	-2.04	-0.65	-1.01*	-0.33	-0.27	0.03	2.75	-0.72		
Student Has Food Allergies or Special Dietary Needs	0.66	-0.10	0.52	0.28	0.20	-0.03	-1.24	0.76		
Student on a Diet (Middle and High School Students)	0.43	0.26	-0.31	0.50	0.37	0.09**	-1.02	0.48		
Student Takes Dietary Supplements	-1.01	-0.36	-0.31	-0.13	-0.15	-0.01	0.75	0.08		

TABLE E.2B (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Student in Good Health (Parent Report)	0.61	-0.49	0.07	0.92*	0.85*	0.07	-0.21	-0.35		
Student in Very Good Health (Parent Report)	-0.58	-0.43	-0.50	0.25	0.24	0.01	1.16	-0.53		
Student in Excellent Health (Parent Report)	-0.33	-0.47	-0.31	0.38	0.38	0.01	0.73	-0.32		
Student About as Physically Active as Others	1.25	0.62	0.19	0.37	0.24	0.08*	-2.39*	0.94*		
Student More Physically Active than Others	1.09	0.49	0.14	0.35	0.27	0.09*	-2.08	0.82		
Student Much More Physically Active than Others	1.00	0.82	-0.07	0.14	0.07	0.05	-2.02	0.73		
Student Watches 0.1 to 1 Hours of TV a Day	0.22	-0.28	0.38	0.17	0.14	0.05	0.10	-0.48		
Student Watches 1.1 to 2.9 Hours of TV a Day	0.08	-0.14	0.15	0.09	0.13	0.03	0.04	-0.42		
Student Watches More than 3 Hours of TV a Day	0.45	-0.11	0.57	0.07	0.07	0.04	0.12	-0.63		
Family Income 130 to 185 Percent of Poverty	-0.37	-0.03	-0.31	-0.15	-0.09	-0.04	0.58	-0.19		
Family Income 185 to 200 Percent of Poverty	-1.27	-0.42	-0.45	-0.45	-0.36	-0.04	2.87*	-1.39**		
Family Income 200 to 300 Percent of Poverty	-0.51	-0.09	-0.21	-0.42	-0.39	-0.06	1.52	-0.72		
Family Income More than 300 Percent of Poverty	-0.33	0.22	-0.39	-0.34	-0.20	-0.02	1.53	-1.02*		
Family Receives Public Assistance	-0.75	-0.26	-0.10	-0.49	-0.45	-0.07*	1.51	-0.53		
Two Children in Household	0.26	0.23	0.29	-0.31	-0.33	-0.02	-0.26	-0.07		
Three or More Children in Household	0.50	0.51	0.22	-0.34	-0.34	-0.01	-0.48	-0.14		
Respondent Was Parent or Partner of Parent	-1.06	-1.41	-1.47	1.39	1.05	0.20	-0.23	1.54		
Two Parents, One Employed Full Time	-0.38	0.31	-0.34	-0.25	-0.19	-0.02	0.52	-0.12		
Two Parents, Neither Employed Full Time	0.63	1.14	-0.59	-0.02	0.07	0.07	-1.13	0.42		
One Parent, Employed Full Time	0.34	0.21	-0.26	0.37	0.31	0.09*	-0.53	0.03		
One Parent, Not Employed Full Time	-0.25	0.03	-0.43	0.15	0.21	0.06	1.24	-0.85		
Primary Language Spoken at Home: Spanish	-1.58	0.57	-1.21*	-0.90*	-0.74*	-0.04	2.35	-0.63		

TABLE E.2B (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Primary Language Spoken at Home: Other	-0.97	-0.05	-0.65	-0.31	-0.25	0.01	1.55	-0.62		
Highest Level of Parental Education: Some College	-0.74	-0.29	-0.49	0.06	0.13	0.02	1.47	-0.61		
Highest Level of Parental Education: College or More	-1.33	-0.25	-0.66	-0.28	-0.22	-0.00	1.57	-0.18		
Family Eats Dinner Together Five Nights a Week or More	-0.29	0.07	-0.28	-0.11	-0.14	0.03	0.13	0.04		
School Participating in SBP	-0.62	-0.11	-0.17	-0.29	-0.16	-0.04	0.95	-0.19		
School Has Open-Campus Policy	-0.39	-0.15	-0.35	0.30	0.30	0.02	0.72	-0.37		
Competitive Foods Offered During Mealtimes	1.21	-0.30	0.68	0.73*	0.65*	0.04	-1.47	0.37		
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store	-0.11	-0.49	0.39	0.19	0.27	-0.03	1.23	-1.18**		
Healthy Foods Offered a la Carte	0.04	-0.00	0.02*	0.01	0.01	0.00	-0.02	-0.02		
School Has Recess (Elementary and Middle Schools)	-0.59	0.11	-0.41	-0.20	-0.11	-0.02	0.20	0.48		
School Serves Urban Fringe of City	1.62*	0.99*	0.64	0.04	-0.06	0.02	-1.71	0.15		
School Serves Town	2.21	2.27**	0.80	-1.06	-0.92	-0.05	-0.97	-0.71		
School Serves Rural Area	0.97	0.83*	0.31	-0.32	-0.28	-0.02	-0.43	-0.34		
Midwest	1.07	-1.02	0.61	1.35*	1.13*	0.12	-1.84	0.92		
Mountain	0.96	0.42	0.33	0.28	0.18	0.07	-1.69	0.86		
Northeast	0.25	0.18	-0.10	0.24	0.18	0.07	-0.85	0.63		
Southeast	-0.17	-0.87	0.16	0.63	0.50	0.09*	0.89	-0.57		
Southwest	2.61*	0.11	1.15	1.05*	0.88	0.16**	-3.97**	1.32		
Western	1.36	-0.53	0.93	0.90*	0.87*	0.09	-1.95	0.54		
Tuesday	0.25	-0.32	-0.10	0.50	0.43	0.07*	-1.52	1.13*		
Wednesday	0.11	0.62	-0.08	-0.55	-0.45	-0.07*	-1.56	1.34**		
Thursday	-0.58	-0.19	-0.28	-0.18	-0.16	0.01	0.28	0.36		
Friday	-1.31	-0.11	-0.69	-0.37	-0.37	0.02	1.62	-0.16		
Family Income Imputed	0.87	0.21	0.44	-0.19	-0.19	-0.01	0.32	-1.12		
Parental Employment Imputed	1.64	-0.49	-0.20	1.84	1.45	0.26	-2.52	0.93		
Student's Height Imputed	-2.59	-0.58	-1.97*	0.01	0.06	0.07	1.91	0.78		

TABLE E.2B (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Open Campus Imputed	-1.38	-0.96	-0.72	0.15	0.31	-0.12	1.34	0.95		
Recess Imputed	-1.49	0.75	-0.02	-1.56	-1.39	-0.00	0.30	0.39		
Constant	38.97**	14.22**	17.71**	5.63*	4.92*	-0.05	45.96**	16.53**		
Observations	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228		
R-squared	0.060	0.072	0.063	0.074	0.069	0.106	0.075	0.147		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.2C

RESULTS FROM REGRESSION MODELS OF MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
NSLP Participation	97.42**	120.63**	-1.87	-0.30	0.04*	0.50**	5.46	-0.02	0.21**	0.03
SBP Participation	-0.18	-2.17	1.58	0.01	0.01	0.15	-4.90	-0.06	0.00	-0.01
Female	-10.01	-1.85	-2.35	-0.22	-0.06**	-0.21**	-10.74*	-0.84**	-0.10**	-0.05**
Black, Non-Hispanic	-5.91	6.07	8.25*	-0.04	-0.01	-0.17	-3.45	-0.57	-0.04	-0.01
Hispanic	-12.16	-10.26	1.09	-0.21	-0.01	-0.08	-5.01	-0.46	-0.05	-0.01
Other Race, Non-Hispanic	3.90	8.10	3.02	-0.19	0.01	0.14	17.90	0.20	0.05	0.03
Age 7	-7.00	-10.79	-0.67	0.24	-0.00	0.11	-4.54	0.46	-0.04	-0.07*
Age 8	-47.54*	-69.82*	5.81	0.26	-0.00	0.18	-4.34	0.47	-0.02	-0.01
Age 9	-53.55*	-61.99	6.33	0.23	-0.03	-0.12	-9.64	0.44	-0.10	-0.07
Age 10	-34.19	-47.77	4.99	-0.03	-0.02	0.05	-10.31	0.02	-0.04	-0.08
Age 11	-45.36	-77.99*	-2.91	0.11	0.05	0.08	-9.59	1.02	-0.02	-0.08
Age 12	-68.63**	-106.33*	-3.34	0.51	0.00	-0.09	-19.79	0.28	-0.08	-0.12*
Age 13	-59.54*	-86.68	1.31	0.02	0.01	0.05	-18.47	0.31	-0.07	-0.13*
Age 14	-63.50*	-107.21*	-5.48	-0.37	0.01	0.05	-37.54*	0.03	-0.09	-0.16*
Age 15	-63.59*	-96.04	-3.96	-0.43	0.04	0.09	-19.60	0.53	-0.06	-0.13
Age 16	-68.45*	-84.20	-1.81	-0.04	0.05	0.11	-24.82	0.55	-0.07	-0.14
Age 17	-51.04	-83.20	-1.27	0.26	0.09	0.07	1.08	1.13	-0.03	-0.10
Age 18	-40.40	-68.94	0.65	-0.42	0.13*	0.42	9.59	1.98*	0.06	-0.04
Student Eats About the Same Amount as Others	-11.71	-24.80	-1.04	-0.15	-0.03	-0.08	-7.03	-0.32	-0.03	-0.03
Student Eats Less than Others	-4.59	-23.84	-0.84	0.03	-0.02	-0.08	-7.73	-0.21	-0.02	-0.03
Student Somewhat Picky Eater	0.77	6.94	-5.19	-0.12	-0.01	-0.15*	-3.54	-0.27	-0.04	-0.00
Student Not Picky Eater	8.85	17.96	-3.56	-0.12	0.00	-0.06	-3.87	-0.23	-0.02	0.00
Student's Height in Feet	42.84**	60.83**	0.16	0.23	0.04	0.18	18.50*	0.53	0.07	0.11**
Student Has Food Allergies or Special Dietary Needs	3.64	3.22	-2.97	0.20	0.02	0.04	3.58	0.58	0.00	0.01
Student on a Diet (Middle and High School Students)	-4.27	-4.00	-0.40	-0.25	-0.05**	-0.11	-5.69	-0.52	-0.02	0.02
Student Takes Dietary Supplements	12.59*	16.17	1.77	-0.12	0.02	0.02	-1.18	-0.04	0.02	0.01
Student in Good Health (Parent Report)	-10.86	-27.93	-3.88	0.09	0.02	-0.14	3.96	0.56	0.02	0.04

TABLE E.2C (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg DFE)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Student in Very Good Health (Parent Report)	-16.89	-35.36	-3.37	-0.08	-0.01	-0.15	8.58	0.59	0.00	0.06*
Student in Excellent Health (Parent Report)	1.53	3.94	-1.75	0.07	-0.01	-0.15	8.51	0.66	0.01	0.06*
Student About as Physically Active as Others	30.20**	33.43*	1.18	0.24	0.07**	0.22**	10.99	0.38	0.09**	0.02
Student More Physically Active than Others	20.92*	12.85	1.67	0.08	0.04*	0.14	1.11	0.13	0.07*	-0.01
Student Much More Physically Active than Others	22.54*	23.23	0.69	0.18	0.04	0.24*	3.74	0.20	0.07*	0.02
Student Watches 0.1 to 1 Hours of TV a Day	-16.20	-7.45	5.66	-0.25	0.01	-0.01	-4.27	-0.32	-0.02	0.01
Student Watches 1.1 to 2.9 Hours of TV a Day	-14.48	-9.41	6.19	-0.28	-0.01	-0.05	1.25	-0.17	-0.02	0.03
Student Watches More than 3 Hours of TV a Day	-20.86	-13.70	6.24*	-0.40	-0.03	-0.12	-10.93	-0.71	-0.07*	-0.03
Family Income 130 to 185 Percent of Poverty	8.62	7.01	-3.95	0.08	-0.01	0.01	8.58	0.20	0.02	0.03
Family Income 185 to 200 Percent of Poverty	-24.54	-35.60	-2.30	-0.40*	-0.03	-0.22**	-5.85	-0.62*	-0.08**	-0.02
Family Income 200 to 300 Percent of Poverty	-20.94	-40.57	-3.08	-0.32	-0.02	-0.20	10.44	-0.13	-0.05	0.01
Family Income More than 300 Percent of Poverty	-18.46	-35.31	-3.90	-0.35*	-0.02	-0.23*	-3.64	-0.33	-0.04	0.00
Family Receives Public Assistance	-20.74	-30.93*	-0.25	-0.17	0.01	-0.09	-0.81	-0.14	-0.04	-0.02
Two Children in Household	9.92	19.71	1.32	-0.16	-0.02	-0.05	-2.38	-0.26	0.02	-0.02
Three or More Children in Household	6.39	16.31	1.84	-0.29	-0.02	0.00	-2.78	-0.34	0.01	-0.01
Respondent Was Parent or Partner of Parent	1.34	25.98	10.34	0.40	0.10	0.18	34.91	1.89	0.04	0.03
Two Parents, One Employed Full Time	6.53	9.47	1.29	-0.05	0.00	-0.07	0.08	-0.26	0.00	-0.00
Two Parents, Neither Employed Full Time	32.20	58.17	9.02	0.02	0.03	0.12	9.66	-0.27	0.04	0.02
One Parent, Employed Full Time	0.14	-3.72	0.87	-0.20	-0.00	-0.13*	-7.29	-0.57	-0.04	-0.04*
One Parent, Not Employed Full Time	5.91	39.69	8.53*	-0.04	0.02	-0.20*	-1.50	-0.73*	-0.04	-0.01
Primary Language Spoken at Home: Spanish	2.62	5.39	2.22	-0.34	-0.00	0.03	10.52	-0.49	0.02	0.03

TABLE E.2C (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Primary Language Spoken at Home: Other	30.70	52.63	-0.94	-0.22	-0.00	0.14	-6.72	-0.51	-0.00	-0.00
Highest Level of Parental Education: Some College	3.16	0.90	-0.88	0.12	0.02	0.03	8.44	0.06	0.02	0.01
Highest Level of Parental Education: College or More	-1.01	8.59	2.41	-0.08	-0.00	0.06	-2.53	-0.20	0.01	0.01
Family Eats Dinner Together Five Nights a Week or More	3.94	9.21	-1.20	-0.13	-0.03	-0.01	3.62	-0.33	-0.01	-0.01
School Participating in SBP	-11.72	-7.68	-3.83	-0.13	0.02	0.00	-4.40	-0.02	-0.02	0.02
School Has Open-Campus Policy	-13.91	-20.92	0.40	0.18	0.00	-0.23*	6.10	0.10	-0.01	0.03
Competitive Foods Offered During Mealtimes	-13.76	-15.26	0.51	0.17	0.03	-0.03	3.21	0.57	-0.01	-0.01
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store	-16.42	-41.18*	-4.23	0.22	-0.07**	-0.26*	-10.05	-0.80*	-0.08**	-0.04*
Healthy Foods Offered a la Carte	-0.70*	-0.91	0.03	0.01	-0.00	-0.00*	0.38*	0.01	-0.00	0.00*
School Has Recess (Elementary and Middle Schools)	0.88	-11.92	-8.85**	-0.16	-0.03	-0.10	-2.38	-0.35	-0.01	-0.02
School Serves Urban Fringe of City	8.89	5.60	0.86	0.05	0.00	0.10	-11.13*	-0.43	0.01	-0.02
School Serves Town	35.11**	30.41	2.69	-0.42	-0.01	0.28**	-18.46*	-1.43**	0.03	-0.08**
School Serves Rural Area	12.82	22.36	0.68	-0.08	0.01	0.27**	6.96	-0.65*	0.03	-0.00
Midwest	23.17	44.43	-1.51	0.21	0.07	0.14	-11.65	0.28	0.01	-0.02
Mountain	56.08**	81.43*	0.34	0.06	0.07	0.33	3.83	-0.03	0.07	0.02
Northeast	16.34	31.44	7.65	-0.07	0.05	0.20	14.16	-0.09	0.07*	0.02
Southeast	2.33	-6.27	-3.35	0.08	0.03	-0.08	-9.89	-0.05	-0.04	-0.03
Southwest	-2.61	-5.31	-2.81	0.31	0.05	0.20	-3.98	0.00	-0.04	-0.01
Western	-9.30	-13.65	-1.58	0.05	-0.04	-0.07	-2.20	-0.85	-0.07*	-0.03
Tuesday	-15.81	-17.39	-7.05*	0.18	0.01	0.11	8.89	0.40	-0.03	-0.00
Wednesday	11.73	28.42	-4.03	0.09	0.02	0.30*	10.79	0.33	0.02	0.03
Thursday	-32.38**	-34.05	-0.88	-0.08	0.00	0.01	-1.44	0.04	-0.04	-0.01
Friday	-1.14	13.02	-1.64	-0.20	-0.02	-0.06	-8.28	-0.73	-0.05	-0.03
Family Income Imputed	-16.86	-12.41	1.56	-0.04	-0.06	-0.36**	-5.32	-1.09*	-0.06	-0.02
Parental Employment Imputed	-5.84	14.95	5.84	0.40	0.08	0.15	20.86	1.10	-0.02	0.01
Student's Height Imputed	11.57	10.86	-2.00	-0.40*	0.07	0.07	-3.02	-0.06	0.04	-0.04

TABLE E.2C (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg DFE)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Open Campus Imputed	-2.63	27.15	-0.98	0.83	0.07**	-0.22	27.76*	2.56**	0.14**	0.13**
Recess Imputed	-38.11	-77.49	-2.82	-0.87	-0.10**	0.14	2.70	-1.47	-0.06	-0.01
Constant	-30.89	-70.09	21.91	1.43	0.14	0.32	15.03	3.32	0.32	-0.08
Observations	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228
R-Squared	0.215	0.157	0.059	0.068	0.098	0.152	0.090	0.101	0.196	0.096

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

DFE = Dietary Folate Equivalents.
 RAE = Retinol Activity Equivalents.
 RE = Retinol Equivalents.

*Significantly different from zero at the .05 level.
 **Significantly different from zero at the .01 level.

TABLE E.2D

RESULTS FROM REGRESSION MODELS OF MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
NSLP Participation	155.26**	0.34*	7.06*	110.12**	202.28**	137.01**	0.44**	0.38*	0.06	-0.83
SBP Participation	-2.49	-0.07	0.41	-6.65	17.03	-27.98	0.17	0.03	-0.13	-1.39
Female	-55.34**	-0.43**	-11.75**	-63.21**	-123.69**	-132.99**	-0.55**	-0.53**	0.14	-17.12
Black, Non-Hispanic	-21.02	-0.11	-7.17*	-34.33	-16.52	-101.45	-0.14	-0.25	0.11	3.73
Hispanic	-31.18	-0.23	-6.82	-43.13**	-32.85	-106.47*	-0.15	-0.22	0.27	-10.55
Other Race, Non-Hispanic	25.86	0.52	4.57	15.52	29.08	-86.09	0.28	0.39	0.08	-0.74
Age 7	-53.12	0.07	-2.89	-21.76	-31.99	13.91	0.31	-0.59	-1.53	22.50
Age 8	-72.85*	0.17	-2.30	-49.26	-43.92	52.03	0.38	-0.73	-1.83	32.92
Age 9	-106.19*	-0.04	-4.38	-65.98	-115.77	22.22	0.14	-0.57	-1.31	32.03
Age 10	-76.67	-0.36	-10.08	-61.15	-66.98	-42.32	-0.04	-1.27*	-1.79	41.45
Age 11	-100.31	-0.10	-3.10	-32.43	-39.43	120.17	0.65	-0.94	-2.08	118.42
Age 12	-120.42**	-0.58	-6.92	-64.42	-136.28	-69.08	0.14	-1.48**	-1.57	55.69
Age 13	-125.57*	-0.61	-10.56	-75.66	-139.56	-105.59	0.33	-1.82**	-2.20	77.29
Age 14	-130.63*	-1.06**	-16.60*	-72.25	-150.64	-138.19	0.20	-2.20**	-2.44	79.38
Age 15	-128.03*	-0.78	-16.96	-69.15	-167.90	-67.26	0.19	-2.02**	-2.55	79.45
Age 16	-132.48*	-0.65	-12.78	-57.61	-98.93	-28.59	0.42	-1.95**	-2.54	88.77
Age 17	-133.29*	-0.43	-8.10	-49.43	-63.21	11.95	0.42	-1.30	-2.17	79.66
Age 18	-66.83	0.30	-7.03	6.01	-2.83	274.31	1.06	-1.30	-2.06	107.39
Student Eats About the Same Amount as Others	-21.09	-0.18	-4.14	-24.28	-65.08**	-59.01	-0.14	-0.34	-0.59*	-4.08
Student Eats Less than Others	-14.53	-0.24	-2.87	-15.44	-53.74	-40.27	-0.31	-0.31	-0.25	-13.63
Student Somewhat Picky Eater	-25.67	-0.24	-3.89	-14.54	-44.64	-30.60	-0.18	0.04	0.40	6.44
Student Not Picky Eater	-9.38	-0.25	-4.72	-2.61	-11.41	10.07	-0.20	0.11	0.58*	1.62
Student's Height in Feet	90.78**	0.79**	10.23*	78.61*	122.55**	247.34*	0.32	0.94**	0.09	-50.02
Student Has Food Allergies or Special Dietary Needs	7.45	0.31	9.86*	18.97	54.42	38.10	0.18	0.11	-0.41	-3.41
Student on a Diet (Middle and High School Students)	-3.81	-0.34*	-6.28*	-21.35	-74.21**	-16.21	-0.36*	-0.41*	-0.24	-3.84
Student Takes Dietary Supplements	14.84	-0.05	1.71	6.84	26.97	17.27	-0.13	0.16	-0.17	-8.64
Student in Good Health (Parent Report)	1.33	0.06	2.96	15.44	-3.51	-10.29	-0.23	0.07	-0.49	0.40

TABLE E.2D (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Student in Very Good Health (Parent Report)	9.17	0.15	-0.25	6.38	-45.09	-21.67	-0.22	0.05	-0.58	-9.47
Student in Excellent Health (Parent Report)	19.56	0.21	3.69	10.04	-17.20	-0.87	-0.20	0.11	-0.50	-1.46
Student About as Physically Active as Others	43.99**	0.18	6.66*	51.83**	92.81**	78.46	0.35*	0.35	0.11	10.25
Student More Physically Active than Others	31.68	0.03	3.72	32.52	67.67	46.13	0.22	0.17	-0.09	3.35
Student Much More Physically Active than Others	35.13	0.14	5.22	52.37*	85.86	102.09	0.58*	0.20	-0.43	25.13
Student Watches 0.1 to 1 Hours of TV a Day	-0.70	-0.36	-4.74	-12.96	-0.82	-1.13	-0.01	-0.14	-0.15	-5.38
Student Watches 1.1 to 2.9 Hours of TV a Day	-5.86	-0.18	-4.77	-23.77	-25.15	-34.28	-0.04	-0.33	-0.50	-12.28
Student Watches More than 3 Hours of TV a Day	-13.57	-0.52*	-7.16	-37.32	-43.68	-114.39	-0.29	-0.23	0.13	-18.06*
Family Income 130 to 185 Percent of Poverty	8.30	0.07	-0.68	12.24	-36.34	54.63	-0.05	-0.07	-0.45	-7.28
Family Income 185 to 200 Percent of Poverty	-43.08*	-0.31	-7.14*	-48.66*	-106.90**	-84.82	-0.41*	-0.14	0.59	-14.99*
Family Income 200 to 300 Percent of Poverty	-31.75	0.05	-5.64	-34.27	-102.81*	-30.58	-0.33	-0.27	0.15	-26.80
Family Income More than 300 Percent of Poverty	-35.13	-0.11	-7.21*	-44.17*	-65.13	30.34	-0.29	-0.27	0.17	-3.67
Family Receives Public Assistance	-28.19	-0.09	-2.16	-21.59	-35.56	-14.08	-0.02	0.13	0.61*	-1.81
Two Children in Household	7.19	0.01	-1.06	9.09	-2.22	-22.12	0.07	-0.17	-0.37	23.28
Three or More Children in Household	1.29	0.11	-1.06	4.52	-6.29	7.64	0.05	-0.11	-0.43	10.79
Respondent Was Parent or Partner of Parent	-20.69	0.85*	11.35	11.76	8.40	-107.08	0.70	0.54	0.91	6.54
Two Parents, One Employed Full Time	10.06	-0.09	2.09	-3.23	11.67	-43.89	-0.08	0.15	0.37	-16.37
Two Parents, Neither Employed Full Time	45.71	0.31	5.20	14.10	81.22	52.34	0.43	0.34	0.41	-12.19
One Parent, Employed Full Time	-13.62	-0.22	-5.70	-28.16	-13.46	-101.59*	-0.18	-0.21	0.17	-11.31
One Parent, Not Employed Full Time	-1.49	-0.19	-0.40	-28.25	15.43	-74.17	-0.29	0.30	0.73	-24.36

TABLE E.2D (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Primary Language Spoken at Home: Spanish	46.50	0.21	0.54	15.00	33.67	-21.78	0.05	0.20	0.53	-14.03
Primary Language Spoken at Home: Other	7.59	0.04	-0.80	16.23	30.48	-3.21	0.21	-0.07	-0.11	8.88
Highest Level of Parental Education: Some College	5.65	0.16	2.32	-1.88	27.05	13.43	0.03	0.29	0.31	-6.62
Highest Level of Parental Education: College or More	-12.38	-0.00	-0.03	-7.86	18.64	-10.77	0.03	0.32	0.73*	8.56
Family Eats Dinner Together Five Nights a Week or More	6.71	-0.05	-3.27	-3.09	-15.88	9.18	-0.04	0.05	-0.09	-6.20
School Participating in SBP	-4.97	0.06	-0.42	-5.29	9.13	20.40	0.24	0.32	0.75	10.99
School Has Open-Campus Policy	-4.02	0.06	2.15	-7.91	3.46	37.52	-0.25	0.25	0.06	6.57
Competitive Foods Offered During Mealtimes	-7.07	0.10	2.97	16.90	23.07	51.55	0.28	0.03	-0.08	31.07
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store	-37.99*	-0.40*	-1.44	-53.22**	-75.94*	-167.79**	-0.50*	-0.03	0.35	-36.93**
Healthy Foods Offered a la Carte	-0.27	0.01	0.02	-0.11	-1.05	-0.47	0.00	0.00	-0.01	0.58*
School Has Recess (Elementary and Middle Schools)	22.62	-0.29*	0.79	15.73	-32.33	-52.54	-0.10	0.02	0.70	-5.67
School Serves Urban Fringe of City	7.51	-0.04	-0.86	10.66	28.07	33.15	0.07	-0.04	-0.21	5.43
School Serves Town	58.35**	-0.41*	-3.89	28.57	33.64	-6.14	0.44	0.11	0.97	12.61
School Serves Rural Area	10.30	0.20	-0.14	7.18	36.75	35.46	0.48**	0.13	0.71	20.45
Midwest	-5.32	0.00	1.92	8.14	72.61	51.56	-0.14	0.33	0.66	-20.11
Mountain	49.65	0.27	1.62	55.25	117.64*	167.35*	0.26	0.59*	1.06	-28.34
Northeast	30.62	0.10	2.35	12.06	33.52	47.31	-0.08	0.44	1.34	-29.91
Southeast	-30.48	-0.33	-2.75	-21.78	-1.15	8.70	-0.59**	0.29	0.85	-41.71
Southwest	-26.00	0.06	-1.59	-4.57	4.64	90.89	0.02	0.19	0.87	-26.54
Western	-36.26	-0.17	-6.33	-47.31*	-109.99**	-117.39	-0.50*	0.21	1.82*	-34.72
Tuesday	-23.19	0.20	0.18	-13.89	-22.36	-15.02	0.23	-0.24	-0.43	12.68
Wednesday	35.51	0.34*	3.87	19.76	21.92	57.44	0.64**	0.02	-0.11	4.26
Thursday	-22.84	-0.12	-3.51	-25.61	-22.54	-38.46	0.19	-0.40	-0.27	31.02
Friday	-13.24	-0.31	-3.19	-31.77	-21.05	-56.79	-0.11	-0.16	0.32	-2.58
Family Income Imputed	-48.69	-0.34	-10.88*	-47.09	-91.90	-24.76	-0.58**	-0.33	-0.15	-5.74
Parental Employment Imputed	-38.22	0.46	4.58	-16.21	-11.15	-149.66	0.60	0.31	1.12	-1.54

TABLE E.2D (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Student's Height Imputed	13.42	-0.13	-2.76	-13.05	34.04	-77.59	-0.02	-0.22	-0.70	-9.25
Open Campus Imputed	43.75	0.72*	30.03**	94.50**	86.08*	289.22**	0.73**	1.70**	1.69	-3.07
Recess Imputed	-32.61	0.11	-14.05	-72.99*	-108.95**	-6.77	-0.02	-0.03	0.35	-5.13
Constant	-14.85	-0.01	37.45	117.23	319.55	143.86	0.97	0.13	6.16*	273.03
Observations	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228	2,228
R-squared	0.190	0.111	0.088	0.146	0.159	0.115	0.117	0.076	0.084	0.120

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.3A

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
NSLP Participation	67.94	1.73	0.97	0.40	0.19	0.12	0.13**	7.14	5.41*		
SBP Participation	130.05*	5.12	1.66	2.10	1.12	1.06	0.08	16.11*	5.12*		
Female	-360.13**	-14.54**	-5.55**	-5.47**	-2.28**	-2.08**	-0.16**	-43.03**	-14.96**		
Black, Non-Hispanic	-81.40	-3.57	-2.15*	-1.13	-0.49	-0.48	-0.03	-10.22	-3.59		
Hispanic	-3.48	-2.22	-0.52	-0.68	-1.08	-0.98	-0.09	4.17	-0.42		
Other Race, Non-Hispanic	81.48	0.43	-0.45	0.83	-0.21	-0.23	-0.03	15.39	3.89		
Age 7	-62.27	0.80	-0.91	1.20	0.71	0.72	-0.10	-17.19	0.13		
Age 8	11.04	2.37	-0.11	1.62	0.83	0.79	-0.08	-2.02	-0.61		
Age 9	46.08	0.84	-0.87	1.04	0.70	0.62	-0.14	4.27	5.25		
Age 10	-78.77	-5.25	-2.97	-1.46	-0.28	-0.25	-0.24	-8.66	-0.06		
Age 11	74.21	4.98	0.56	2.45	1.45	1.38	-0.10	-2.14	9.60		
Age 12	-27.49	-0.38	-1.50	0.16	0.81	0.74	-0.10	-7.78	1.93		
Age 13	70.77	3.73	0.90	1.90	0.57	0.48	-0.14	3.89	5.50		
Age 14	-38.92	2.51	0.72	1.86	-0.43	-0.52	-0.23	-21.97	5.96		
Age 15	117.45	9.17	2.71	4.43	1.29	0.89	-0.05	0.17	8.35		
Age 16	189.85	15.71	5.11	6.05	3.14	2.55	0.16	-0.31	12.30		
Age 17	188.75	12.94	3.74	5.56	2.30	1.82	0.13	4.48	13.80		
Age 18	180.69	13.26	5.05	5.65	1.38	0.98	-0.02	-6.60	20.72		
Student Eats About the Same Amount as Others	-102.40*	-4.72*	-1.22	-1.79	-1.42*	-1.30*	-0.14**	-10.39	-4.72*		
Student Eats Less than Others	-169.96**	-7.51*	-2.59*	-3.06*	-1.35	-1.25	-0.10	-16.36	-9.22**		
Student Somewhat Picky Eater	-107.22*	-5.65*	-1.46	-2.15*	-1.68**	-1.50**	-0.12*	-11.31	-3.11		
Student Not Picky Eater	-22.09	-1.99	-0.41	-0.94	-0.67	-0.67	0.01	-3.32	2.08		
Student Has Food Allergies or Special Dietary Needs	209.80	8.99*	3.13	3.54*	1.72	1.52	0.23**	26.46	6.32		
Student Has Food Allergies or Special Dietary Needs	-37.76	0.27	-0.47	0.21	0.43	0.47	-0.03	-11.57	2.24		
Student on a Diet (Middle and High School Students)	-294.58**	-11.69**	-4.02**	-4.98**	-1.81**	-1.62**	-0.13*	-39.34**	-9.09**		

TABLE E.3A (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Student Takes Dietary Supplements	11.80	-0.01	0.41	-0.20	-0.05	-0.06	0.00	2.75	0.60		
Student in Good Health (Parent Report)	43.81	1.16	-0.06	0.98	0.41	0.34	0.01	7.43	1.17		
Student in Very Good Health (Parent Report)	78.23	2.18	0.32	0.92	0.86	0.76	0.09	14.59	0.50		
Student in Excellent Health (Parent Report)	160.14	5.68	1.49	2.19	1.66	1.51	0.14	22.31	5.59		
Student About as Physically Active as Others	46.94	1.48	0.23	0.48	0.72	0.49	0.11	5.32	2.34		
Student More Physically Active than Others	103.34	4.85	1.14	2.06	1.52	1.24	0.13	10.09	4.53		
Student Much More Physically Active than Others	196.50*	7.07	2.22	2.62	2.00	1.79	0.07	27.43*	6.17		
Student Watches 0.1 to 1 Hours of TV a Day	18.49	0.28	0.57	0.49	-1.00	-0.91	-0.12	6.51	-2.36		
Student Watches 1.1 to 2.9 Hours of TV a Day	58.64	2.48	1.40	1.15	-0.41	-0.24	-0.12	8.31	0.32		
Student Watches More than 3 Hours of TV a Day	-14.55	-1.38	-0.05	0.11	-1.42	-1.25	-0.20	2.92	-3.65		
Family Income 130 to 185 Percent of Poverty	-17.12	-0.50	-0.13	-0.78	0.40	0.47	-0.03	-3.42	0.20		
Family Income 185 to 200 Percent of Poverty	-118.98	-5.72*	-1.60	-1.75	-1.86*	-1.64*	-0.20**	-8.07	-8.81**		
Family Income 200 to 300 Percent of Poverty	-39.65	-4.07	-0.64	-1.42	-1.66*	-1.50*	-0.19*	4.83	-5.29		
Family Income More than 300 Percent of Poverty	-95.10	-4.90	-1.31	-1.89	-1.28	-1.12	-0.12	-6.52	-6.15		
Family Receives Public Assistance	-7.04	-0.22	-0.47	0.23	0.08	0.09	-0.03	0.42	-1.41		
Two Children in Household	-6.41	0.45	0.15	0.33	-0.17	-0.08	-0.07	-2.18	-0.34		
Three or More Children in Household	-17.03	-0.42	0.76	-0.29	-0.95	-0.79	-0.05	-1.05	-2.10		
Respondent Was Parent or Partner of Parent	162.65	4.78	-1.03	1.45	3.82	3.46	0.13	26.04	4.87		
Two Parents, One Employed Full Time	-60.08	-2.25	-0.08	-1.14	-0.81	-0.70	-0.07	-9.17	-0.50		

TABLE E.3A (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Two Parents, Neither Employed Full Time	121.31	3.45	1.39	1.03	0.53	0.57	0.08	19.89	4.09		
One Parent, Employed Full Time	-90.72	-2.85	-0.39	-1.82	-0.72	-0.62	-0.01	-16.16*	-0.11		
One Parent, Not Employed Full Time	-79.08	-1.71	-0.11	-0.91	-0.48	-0.44	-0.02	-10.34	-5.22		
Primary Language Spoken at Home: Spanish	-96.23	-7.65	-1.59	-4.06*	-1.41	-1.26	0.01	-3.73	-2.91		
Primary Language Spoken at Home: Other	-250.98*	-13.07**	-2.86*	-6.11**	-3.46**	-3.18**	-0.16	-31.41	-4.72		
Highest Level of Parental Education: Some College	43.23	0.68	0.20	-0.19	0.66	0.63	0.11*	8.89	0.28		
Highest Level of Parental Education: College or More	55.86	0.02	0.71	-0.46	0.02	-0.05	0.06	11.43	2.49		
Family Eats Dinner Together Five Nights a Week or More	17.48	0.93	0.70	0.04	0.09	0.06	0.05	-2.44	4.73*		
School Participating in SBP	43.38	0.15	0.43	0.02	-0.52	-0.42	-0.01	10.70	0.29		
School Has Open-Campus Policy	58.90	0.22	0.27	-0.03	-0.30	-0.15	-0.05	12.69	1.69		
Competitive Foods Offered During Mealtimes	-76.10	-4.39	-2.21**	-1.57	-0.40	-0.33	-0.07	-5.36	-3.62		
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store	-56.17	-1.39	-1.20	-0.33	0.47	0.49	-0.02	-4.08	-6.27**		
Healthy Foods Offered a la Carte	2.26	0.04	0.00	0.02	0.01	0.01	0.00	0.41*	0.08		
School Has Recess (Elementary and Middle Schools)	16.21	1.78	0.83	0.40	0.41	0.43	0.05	-1.49	2.09		
School Serves Urban Fringe of City	-106.33*	-3.42	0.04	-1.79	-1.57**	-1.52**	-0.06	-14.60*	-4.15*		
School Serves Town	-240.42*	-8.89	-0.97	-4.11*	-3.45**	-3.09**	-0.27**	-33.12*	-7.37*		
School Serves Rural Area	-94.17	-3.15	-0.64	-1.69	-0.85	-0.75	-0.04	-10.26	-6.02**		
Midwest	33.03	1.90	0.21	0.74	0.98	0.97	0.08	2.71	2.01		
Mountain	-46.18	-0.70	-0.01	-0.19	-0.12	-0.09	0.02	-6.34	-3.07		
Northeast	-150.44	-7.17	-0.87	-3.38	-2.21*	-2.03*	-0.09	-18.43	-3.50		
Southeast	-129.50	-1.86	-1.53	-0.20	0.44	0.35	0.05	-20.59	-7.36*		

TABLE E.3A (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Southwest	-27.48	2.95	1.27	1.69	0.00	-0.06	0.09	-11.70	-1.85		
Western	-219.35*	-6.53	-3.08	-1.72	-0.84	-0.66	-0.07	-33.61**	-6.80		
Tuesday	-25.28	-0.58	-1.14	-0.78	1.02	0.97	0.08	-5.75	0.38		
Wednesday	-7.12	0.20	0.41	-0.36	-0.27	-0.20	-0.02	-4.56	2.39		
Thursday	9.51	-1.24	-0.88	-0.67	0.04	0.00	0.04	4.22	0.85		
Friday	-4.32	-0.86	0.41	-0.51	-0.89	-1.03	-0.04	0.95	-0.51		
Family Income Imputed	39.34	-0.13	-0.30	0.10	-0.26	-0.21	-0.05	12.21	-2.34		
Parental Employment Imputed	175.90	8.96	-0.42	2.99	5.74	5.10	0.29	23.56	2.19		
Student's Height Imputed	97.30	-0.70	-0.71	-0.69	0.94	0.68	0.07	20.71	4.58		
Open Campus Imputed	35.87	-0.17	-1.40	0.21	0.94	1.08	-0.09	12.36	-0.86		
Recess Imputed	-38.61	-0.78	0.24	0.63	-1.61	-1.31	-0.07	-5.49	-2.23		
Constant	1,176.93*	40.81	16.18*	15.76	6.22	5.39	0.3	153.00*	51.27*		
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314		
R-Squared	0.149	0.132	0.121	0.127	0.114	0.113	0.119	0.123	0.158		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.3B

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Percentage of Food Energy from:							
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
NSLP Participation	0.00	0.22	-0.13	-0.10	-0.10	0.04**	-0.70	0.60*
SBP Participation	-0.04	-0.08	0.01	0.11	0.12	0.01	0.04	-0.03
Female	-0.45	-0.38	-0.15	0.15	0.11	0.02	0.86	-0.33
Black, Non-Hispanic	0.11	-0.42	0.22	0.12	0.09	0.00	-0.25	-0.10
Hispanic	-1.19*	-0.37	-0.31	-0.53*	-0.47*	-0.04*	0.86	0.26
Other Race, Non-Hispanic	-0.61	-0.53	0.18	-0.29	-0.23	-0.05	0.31	0.28
Age 7	1.16	0.20	0.57	0.41	0.39	-0.01	-0.95	-0.07
Age 8	0.20	-0.17	0.26	0.20	0.19	-0.04	0.40	-0.61
Age 9	-0.21	-0.38	0.03	0.22	0.18	-0.06	0.01	0.20
Age 10	-1.26	-0.59	-0.45	-0.04	-0.07	-0.07	1.00	0.20
Age 11	0.63	0.06	0.13	0.36	0.32	-0.04	-1.12	0.56
Age 12	-0.10	-0.25	-0.21	0.30	0.25	-0.02	0.25	-0.02
Age 13	0.26	0.12	0.03	0.12	0.07	-0.05	-0.19	-0.04
Age 14	1.25	0.57	0.59	-0.05	-0.13	-0.07	-1.96	0.71
Age 15	1.82	0.72	0.78	0.20	0.08	-0.03	-2.00	0.20
Age 16	3.01	1.19	0.77	0.71	0.51	0.04	-3.37	0.53
Age 17	1.40	0.45	0.29	0.42	0.27	0.02	-2.28	0.95
Age 18	2.38	1.26	0.72	0.18	0.03	0.00	-4.19	1.67
Student Eats About the Same Amount as Others	-0.54	-0.07	-0.22	-0.23	-0.21	-0.03*	0.80	-0.19
Student Eats Less than Others	-0.39	-0.21	-0.21	0.04	0.02	0.00	0.95	-0.43
Student Somewhat Picky Eater	-0.65	-0.07	-0.27	-0.31*	-0.26*	-0.02	0.66	0.02
Student Not Picky Eater	-0.68	-0.12	-0.32	-0.28	-0.27	0.00	0.16	0.56*
Student Has Food Allergies or Special Dietary Needs	0.26	0.05	0.13	0.04	0.05	0.03	-0.19	-0.10
Student Has Food Allergies or Special Dietary Needs	0.18	-0.08	-0.01	0.19	0.21	-0.01	-0.68	0.74
Student on a Diet (Middle and High School Students)	-0.73	-0.17	-0.49*	0.00	0.00	0.01	0.33	0.44

TABLE E.3B (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Student Takes Dietary Supplements	-0.38	-0.01	-0.17	-0.08	-0.09	0.00	0.33	0.09		
Student in Good Health (Parent Report)	-0.14	-0.40	0.08	0.30	0.27	0.02	-0.01	0.16		
Student in Very Good Health (Parent Report)	-0.12	-0.34	-0.06	0.32	0.27	0.04	0.42	-0.26		
Student in Excellent Health (Parent Report)	-0.08	-0.37	-0.07	0.40	0.37	0.05	0.07	0.08		
Student About as Physically Active as Others	0.03	-0.11	-0.06	0.25	0.18	0.04*	-0.34	0.18		
Student More Physically Active than Others	0.53	-0.03	0.22	0.39*	0.34	0.03	-0.88	0.30		
Student Much More Physically Active than Others	-0.18	-0.02	-0.22	0.19	0.18	-0.01	0.26	-0.11		
Student Watches 0.1 to 1 Hours of TV a Day	0.23	0.13	0.27	-0.24	-0.23	-0.04	0.61	-0.73		
Student Watches 1.1 to 2.9 Hours of TV a Day	0.56	0.44	0.30	-0.26	-0.21	-0.05	-0.28	-0.36		
Student Watches More than 3 Hours of TV a Day	0.12	0.12	0.31	-0.33	-0.30	-0.06*	0.43	-0.51		
Family Income 130 to 185 Percent of Poverty	0.15	0.25	-0.23	0.05	0.07	-0.01	-0.50	0.36		
Family Income 185 to 200 Percent of Poverty	-0.13	0.09	0.11	-0.32	-0.30	-0.03	1.03	-0.84**		
Family Income 200 to 300 Percent of Poverty	-0.89	0.05	-0.34	-0.54*	-0.49*	-0.06*	1.71	-0.72		
Family Income More than 300 Percent of Poverty	-0.58	0.15	-0.34	-0.36	-0.33	-0.02	1.01	-0.37		
Family Receives Public Assistance	-0.25	-0.28	0.02	0.04	0.02	0.00	0.58	-0.27		
Two Children in Household	0.34	0.07	0.28	-0.06	-0.03	-0.02	-0.13	-0.15		
Three or More Children in Household	0.35	0.38	0.18	-0.24	-0.19	-0.01	0.17	-0.45		
Respondent Was Parent or Partner of Parent	-0.73	-0.96	-0.52	0.61	0.48	-0.01	0.59	0.20		
Two Parents, One Employed Full Time	-0.16	0.28	-0.18	-0.24	-0.21	-0.02	-0.09	0.38		
Two Parents, Neither Employed Full Time	-0.40	0.06	-0.44	-0.09	-0.07	0.03	0.50	0.19		
One Parent, Employed Full Time	0.10	0.36	-0.28	-0.10	-0.09	0.02	-0.64	0.62		
One Parent, Not Employed Full Time	0.93	0.64	0.19	0.03	0.02	0.01	-0.68	-0.14		

TABLE E.3B (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Primary Language Spoken at Home: Spanish	-1.52*	-0.08	-1.16**	-0.19	-0.17	0.03	1.75*	-0.10		
Primary Language Spoken at Home: Other	-1.18	0.30	-0.90	-0.65*	-0.63*	-0.01	-0.42	1.11		
Highest Level of Parental Education: Some College	-0.07	-0.07	-0.22	0.25	0.25	0.05**	0.19	-0.16		
Highest Level of Parental Education: College or More	-0.28	0.06	-0.25	0.07	0.05	0.03	0.14	0.15		
Family Eats Dinner Together Five Nights a Week or More	-0.08	0.13	-0.13	-0.10	-0.10	0.01	-0.59	0.70**		
School Participating in SBP	-0.46	-0.05	-0.15	-0.29	-0.23	0.00	0.85	-0.32		
School Has Open-Campus Policy	-0.48	-0.17	-0.20	-0.12	-0.05	-0.03	0.76	-0.26		
Competitive Foods Offered During Mealtimes	-0.66	-0.67**	-0.11	0.16	0.16	0.00	1.07	-0.33		
Healthy Foods Offered in Vending Machines, Snack Bars, or School Store	0.67	0.03	0.27	0.35	0.34*	0.00	0.01	-0.58*		
Healthy Foods Offered a la Carte	-0.02	-0.01*	0.00	0.00	0.00	0.00	0.03	-0.01		
School Has Recess (Elementary and Middle Schools)	0.19	0.18	-0.09	0.05	0.07	0.01	-0.42	0.34		
School Serves Urban Fringe of City	0.23	0.58**	-0.16	-0.28	-0.31*	0.00	0.07	-0.19		
School Serves Town	0.14	0.79**	-0.20	-0.56*	-0.50*	-0.04	-0.05	0.01		
School Serves Rural Area	0.00	0.13	-0.13	-0.09	-0.08	0.00	0.72	-0.64*		
Midwest	-0.30	-0.21	-0.10	0.11	0.09	0.01	0.13	0.26		
Mountain	-0.34	0.07	-0.18	-0.08	-0.07	0.01	0.65	-0.20		
Northeast	-1.39	0.15	-0.72	-0.58*	-0.56*	-0.01	1.20	0.27		
Southeast	0.65	-0.14	0.50	0.40	0.32	0.04	-0.07	-0.47		
Southwest	1.31	0.50	0.71*	0.07	0.00	0.04	-1.61	0.26		
Western	0.33	-0.16	0.47	0.16	0.15	0.02	-0.68	0.38		
Tuesday	0.26	-0.34	0.00	0.45*	0.40*	0.04*	-0.47	0.13		
Wednesday	0.40	0.21	0.11	-0.08	-0.05	-0.01	-0.55	0.22		
Thursday	-0.27	-0.38	-0.07	0.09	0.06	0.02	0.59	-0.33		
Friday	-0.10	0.22	-0.03	-0.35	-0.40	-0.02	0.44	-0.38		
Family Income Imputed	-0.62	-0.25	-0.21	-0.25	-0.21	-0.03	0.76	-0.29		
Parental Employment Imputed	0.88	-0.48	-0.01	1.19	0.99	0.04	-0.37	-0.32		

TABLE E.3B (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Student's Height Imputed	-2.10*	-0.75	-1.13*	0.01	-0.06	0.01	1.40	0.53		
Open Campus Imputed	-1.05	-0.68	-0.44	0.12	0.23	-0.05	1.84	-0.44		
Recess Imputed	1.34	0.47	0.99	-0.26	-0.20	0.01	-1.73	0.37		
Constant	32.60**	12.05**	12.88**	5.70**	5.07**	0.37*	52.41**	15.58**		
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314		
R-Squared	0.058	0.059	0.068	0.068	0.065	0.078	0.055	0.082		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.3C

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
NSLP Participation	81.84**	105.99**	-0.18	-0.35	-0.02	0.19	1.17	-0.19	0.17*	0.01
SBP Participation	20.99	44.71	4.44	0.44	-0.04	0.48	-5.22	0.08	0.17*	0.08
Female	-96.12**	-108.88**	-11.50*	-0.85**	-0.37**	-1.26**	-95.36**	-3.77**	-0.45**	-0.29**
Black, non-Hispanic	-102.09**	-66.98	25.84**	-0.01	-0.04	-0.47	3.46	-0.52	-0.24**	-0.07
Hispanic	-75.43*	-40.44	13.46*	-0.46	0.03	-0.48	16.82	-0.54	-0.12	-0.01
Other race, non-Hispanic	-39.98	-3.36	17.80	-0.21	0.10	-0.24	25.43	1.56	-0.03	0.10
Age 7	44.19	90.45	-9.23	0.68	-0.02	-0.27	-13.10	-0.70	-0.15	-0.11
Age 8	-66.69	-29.38	16.00	0.23	-0.05	-0.46	-28.33	-1.57	-0.21	-0.08
Age 9	25.08	107.30	30.48	0.80	0.20	0.17	66.28	1.03	-0.07	0.01
Age 10	-9.16	30.94	11.34	-0.04	0.00	-0.38	-10.18	-1.45	-0.16	-0.08
Age 11	14.93	78.15	16.04	1.16	0.24	0.42	30.83	0.01	-0.06	-0.04
Age 12	26.17	90.30	3.27	0.93	0.15	0.23	-41.52	-1.02	-0.23	-0.21
Age 13	47.15	131.16	40.66	1.07	0.27	0.68	8.14	0.38	-0.08	-0.09
Age 14	-33.12	0.96	6.49	0.24	0.07	0.43	-65.71	-1.40	-0.19	-0.22
Age 15	66.40	135.96	12.22	1.07	0.33	0.95	-8.18	1.39	0.01	-0.04
Age 16	-12.90	41.05	8.07	1.80	0.21	0.62	-56.57	-0.07	-0.15	-0.12
Age 17	40.97	147.39	25.58	1.30	0.26	0.72	-35.33	1.26	0.02	0.01
Age 18	-7.86	107.36	19.08	0.72	0.24	0.39	-38.75	1.75	-0.13	-0.12
Student eats about the same amount as others	-30.17	-56.84	-8.53	-0.69	-0.10	-0.24	-22.20	-0.79	-0.06	-0.09
Student eats less than others	-54.38	-54.88	6.34	-0.39	-0.19*	-0.68*	-52.67	-1.92*	-0.18*	-0.13*
Student somewhat picky eater	33.68	62.90	-1.17	-0.59	-0.05	-0.26	-31.79	-1.45	-0.11	-0.13
Student not picky eater	38.91	99.08*	7.77	-0.32	0.05	-0.17	-1.94	0.26	0.02	0.01
Student has food allergies or special dietary needs	34.47	19.29	-16.32	0.19	-0.05	-0.26	29.80	1.36	0.15	0.13
Student has food allergies or special dietary needs	47.18	23.42	-17.02	-0.05	0.12	0.06	-3.67	0.69	0.00	-0.04
Student on a diet (middle and high school students)	-79.19**	-87.40*	-2.78	-0.91**	-0.21**	-0.47	-62.08*	-2.37**	-0.21**	-0.10
Student takes dietary supplements	68.48**	108.71**	4.15	0.03	0.03	-0.06	-15.34	0.00	0.10	0.05

TABLE E.3c (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Student in good health (parent report)	-0.34	25.18	10.23	-0.52	-0.05	0.18	29.87	0.26	0.09	0.13
Student in very good health (parent report)	14.84	27.70	6.63	-0.07	-0.01	0.36	80.12	0.78	0.12	0.19*
Student in excellent health (parent report)	69.59	130.14	16.64	0.34	0.10	0.78*	105.72*	1.76	0.24*	0.28**
Student about as physically active as others	-10.58	-20.19	-0.13	0.29	-0.01	0.00	8.75	0.13	0.02	0.01
Student more physically active than others	0.19	-27.58	-0.15	0.36	-0.06	-0.10	-33.63	0.37	0.04	-0.03
Student much more physically active than others	58.93	46.14	3.41	1.13	0.13	0.48	43.91	1.55	0.20	0.13
Student watches 1-1 hours of TV a day	-85.74	-121.53	7.07	-0.44	-0.04	0.19	-31.97	-0.84	-0.05	0.05
Student watches 1.1-2.9 hours of TV a day	-111.75	-169.67*	1.38	-0.33	-0.22	-0.10	-80.84	-1.45	-0.10	0.01
Student watches more than 3 hours of TV a day	-126.92*	-201.96**	-7.50	-0.79	-0.21	-0.30	-96.21	-1.51	-0.21	-0.07
Family income 130 to 185% of poverty	58.10	61.60	-13.22	0.37	-0.01	0.08	-23.57	0.08	0.06	-0.02
Family income 185 to 200% of poverty	-40.73	-47.63	-5.98	-0.79*	-0.17*	-0.91**	-47.07	-2.57**	-0.25**	-0.15*
Family income 200 to 300% of poverty	-15.24	26.63	2.88	-0.23	-0.07	-0.64	-10.36	-0.56	-0.10	0.03
Family income >300% of poverty	-26.42	-9.06	-1.37	-0.35	-0.10	-0.66	-36.41	-1.48	-0.22	-0.10
Family receives public assistance	-48.61	-61.44	1.59	0.00	-0.02	-0.36	-20.75	-0.61	-0.13	-0.06
Two children in household	-28.48	-27.39	-9.53	0.42	-0.08	-0.24	26.99	-0.46	-0.04	-0.07
Three or more children in household	-32.71	-44.57	-7.83	-0.25	-0.07	-0.20	9.63	-0.62	-0.02	-0.03
Respondent was parent or partner of parent	-136.46	-168.08	17.11	0.91	-0.08	-0.68	6.93	3.57	-0.01	-0.05
Two parents, one employed full time	23.37	21.42	-7.80	-0.10	0.00	0.20	32.89	-0.07	0.06	0.01
Two parents, neither employed full time	-24.13	7.62	9.59	-0.04	0.04	-0.16	-16.84	0.58	-0.01	-0.02
One parent, employed full time	-25.55	-14.71	-2.00	0.07	-0.04	-0.10	-35.81	-1.46	-0.08	-0.09
One parent, not employed full time	10.04	40.34	-2.74	-0.31	-0.07	-0.27	-48.42	-1.84	-0.02	-0.10
Primary language spoken at home: Spanish	26.52	57.27	7.66	-0.57	0.04	0.25	-9.98	-0.86	0.07	0.05
Primary language spoken at home: other	-37.65	16.10	-7.86	-1.01*	-0.27	-0.15	-84.45	-3.29*	-0.25*	-0.15
Highest level of parental education: some college	-4.96	0.32	-1.86	0.00	0.05	0.15	24.63	0.31	0.06	0.05
Highest level of parental education: college or more	18.91	37.77	12.63	0.07	0.13	0.40	53.05	0.21	0.17	0.09

TABLE E.3c (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Family eats dinner together 5 nights a week or more	35.95	36.34	-4.67	-0.10	0.04	0.42	23.62	0.50	0.14	0.08
School Participating in SBP	-4.09	32.19	7.73	-0.70	0.14	0.17	62.13	0.57	0.02	0.08
School has open-campus policy	-4.62	-17.37	7.03	0.03	0.11	0.00	78.75*	0.77	0.09	0.09
Competitive foods offered during mealtimes	-51.35*	-34.89	10.33	0.06	-0.02	-0.42	29.03	-0.89	-0.17*	-0.05
Healthy foods offered in vending machines, snack bars, or school store	-18.12	-39.27	-7.02	0.18	-0.11	-0.47	-40.87	-1.20	-0.13	-0.10
Healthy foods offered a la carte	-0.23	-0.29	0.26	0.01	0.00	0.01	2.38**	0.04	0.00	0.00**
School has recess (elementary and middle schools)	67.03*	87.46*	-9.82	0.18	-0.04	0.09	4.10	-0.73	0.12	0.01
School serves urban fringe of city	9.99	-25.13	-8.02	-0.36	0.01	0.13	13.13	-1.06	0.00	-0.10
School serves town	-1.38	-54.46	-0.30	-0.93	-0.17	0.05	-76.17*	-4.14**	-0.17	-0.31**
School serves rural area	-16.90	-38.87	-2.32	-0.20	-0.04	-0.02	43.67	-2.17**	-0.09	-0.06
Midwest	119.65*	83.20	-18.34	-0.50	0.13	0.27	-16.00	1.23	0.24*	0.05
Mountain	73.75	-8.22	-29.60*	-0.80	-0.03	0.09	-19.68	-0.46	0.12	-0.04
Northeast	38.22	14.14	-12.47	-1.17	0.00	-0.26	0.54	-1.01	0.18	-0.02
Southeast	-33.47	-110.77	-35.96**	-0.51	-0.20	-1.09**	-174.21**	-1.40	-0.21*	-0.19*
Southwest	-36.76	-112.06	-27.71*	-0.16	-0.01	-0.18	-54.93	-0.08	-0.04	-0.06
Western	3.35	-26.76	-20.47	-0.32	-0.12	-0.43	-76.75	-1.60	-0.15	-0.13
Tuesday	-22.98	14.54	5.39	0.68	0.09	0.15	48.31	0.99	-0.05	0.07
Wednesday	20.63	76.46	-1.81	0.79	0.09	0.56	9.57	0.34	0.05	0.08
Thursday	-30.29	6.55	19.86	0.04	0.17	0.25	51.81	0.90	0.03	0.12
Friday	-54.36	-70.97	-4.82	-0.21	-0.03	0.07	-26.32	-1.00	-0.05	-0.02
Family income imputed	7.72	26.13	9.77	-0.09	-0.09	-0.47	-48.32	-1.57	-0.13	-0.02
Parental employment imputed	-119.16	-147.79	10.21	1.73	-0.17	-0.93*	-110.21	2.12	-0.16	-0.20
Student's height imputed	98.65	136.96	4.02	0.92	0.37	0.60	105.20	3.35	0.27	0.16
Open campus imputed	-69.22	-0.79	14.51	0.49	-0.07	-1.42**	-48.87	0.74	-0.08	0.03
Recess imputed	67.33	-34.43	-6.59	-1.00	-0.03	0.91*	3.48	-2.13	0.09	-0.12
Constant	651.94*	888.02*	149.04**	5.96*	2.33**	8.14**	453.44	18.21**	1.92**	1.21*
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314
R-squared	0.135	0.107	0.085	0.077	0.093	0.098	0.089	0.105	0.140	0.112

TABLE E.3c (continued)

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

DFE = Dietary Folate Equivalents.
RAE = Retinol Activity Equivalents.
RE = Retinol Equivalents.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.3D

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
NSLP Participation	158.59**	-0.03	12.53*	125.24**	241.24**	187.25*	0.27	0.70	0.11	0.47
SBP Participation	109.39*	0.56	16.89*	124.69**	230.30**	272.89*	0.75	0.81	-0.09	-8.50
Female	-201.63**	-2.61**	-39.66**	-251.70**	-421.97**	-548.99**	-2.56**	-1.91**	0.23	-57.85**
Black, non-Hispanic	-168.24**	-0.84	-27.01**	-181.39**	-134.63	-266.72*	-0.74	-1.32*	-0.22	20.05
Hispanic	-66.62	-0.80	-4.82	-46.96	42.64	-53.84	-0.33	-0.10	0.16	1.95
Other race, non-Hispanic	-43.16	0.13	13.33	-5.91	76.91	185.35	0.08	1.28	0.50*	23.16
Age 7	-78.46	-1.40	-2.38	-17.66	-68.15	-132.94	-1.02	-0.29	-0.04	22.61
Age 8	-108.18	-1.50	-6.49	-55.04	-84.54	-66.68	-1.50	-0.02	-0.07	35.62
Age 9	-12.02	0.74	6.80	18.93	80.47	77.40	-0.38	0.54	0.05	64.38*
Age 10	-83.75	-2.71	-14.84	-38.03	-21.07	-198.29	-2.05	-0.97	-0.16	40.40
Age 11	-87.94	-1.18	-0.32	2.05	46.43	230.75	-1.13	-0.23	-0.28	135.33
Age 12	-136.35	-2.26	-11.55	-88.98	-54.94	-331.83	-1.54	-0.54	0.00	56.08
Age 13	-111.51	-1.40	-5.93	-50.30	43.61	-87.33	-0.70	-1.07	-0.56	94.70
Age 14	-124.21	-3.26	-18.12	-32.46	-55.86	-245.71	-0.93	-1.69	-0.46	97.09
Age 15	-117.92	-0.97	-7.10	20.97	25.79	-31.66	-0.94	-0.71	-0.37	104.82
Age 16	-99.07	-2.42	-2.02	45.72	104.08	148.58	-0.21	-0.05	-0.08	130.97
Age 17	-111.24	-1.56	12.58	55.43	275.98	123.80	-0.26	0.04	-0.42	121.43
Age 18	-66.03	-2.00	3.20	85.72	216.22	476.37	0.15	-0.51	-0.58	171.32
Student eats about the same amount as others	-36.30	-0.71	-14.19*	-61.89	-183.22**	-174.19	-0.22	-1.24**	-0.16	-9.16
Student eats less than others	-58.77	-1.63*	-14.99	-128.98**	-187.19*	-321.05*	-0.89	-1.76**	-0.28	-39.80**
Student somewhat picky eater	-10.05	-1.19	-8.56	-47.07	-26.78	-215.88	-0.70	-0.05	0.46**	-3.52
Student not picky eater	23.78	-0.24	4.09	35.90	127.24	55.28	-0.05	0.68	0.64**	14.21
Student has food allergies or special dietary needs	150.86*	1.64	24.70*	171.57*	166.07	463.84*	1.43	1.46*	-0.02	-34.19
Student has food allergies or special dietary needs	6.95	0.51	14.68	28.36	21.87	-2.82	0.51	0.78	0.76	-15.90
Student on a diet (middle and high school students)	-119.50**	-1.49*	-35.33**	-162.93**	-330.35**	-386.72**	-1.66**	-1.96**	0.18	-28.27**
Student takes dietary supplements	59.30	-0.40	7.23	46.31	110.76	1.83	-0.19	0.59	0.25	0.62

TABLE E.3d (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Student in good health (parent report)	-25.14	1.48	1.45	13.21	64.10	4.19	-0.04	0.56	-0.02	0.94
Student in very good health (parent report)	-25.80	2.23**	-3.25	0.80	40.62	57.75	0.59	0.62	-0.08	2.48
Student in excellent health (parent report)	51.67	2.90**	15.69	88.66	191.25	215.65	1.33	1.53	0.16	17.93
Student about as physically active as others	30.76	0.00	1.40	36.25	30.18	47.06	-0.20	0.11	0.08	3.02
Student more physically active than others	53.22	-0.07	6.37	74.77	116.32	190.68	-0.14	0.38	0.13	-2.12
Student much more physically active than others	92.93	1.02	19.58	144.18*	173.27	266.07	0.77	0.97	-0.08	24.04
Student watches .1-1 hours of TV a day	13.49	-1.25	-2.82	-4.77	-11.38	81.40	-0.03	-0.58	-0.35	-21.52
Student watches 1.1-2.9 hours of TV a day	-5.14	-1.77	-2.70	10.47	-38.34	155.06	-0.18	-0.61	-0.60*	-22.55
Student watches more than 3 hours of TV a day	-94.07	-2.10	-12.43	-66.28	-159.64	117.01	-0.58	-0.84	-0.37	-33.65
Family income 130 to 185% of poverty	4.99	0.65	1.76	29.89	-10.77	76.09	-0.13	-0.04	0.02	3.19
Family income 185 to 200% of poverty	-137.34*	-1.11	-20.98*	-130.97**	-209.57*	-160.37	-1.49**	-0.55	0.17	-25.44
Family income 200 to 300% of poverty	-65.11	-0.07	-7.00	-59.14	-27.06	20.72	-1.14	-0.26	-0.01	-39.66
Family income >300% of poverty	-109.81	-0.84	-15.04	-110.17	-126.82	9.27	-1.18*	-0.16	0.35	-16.84
Family receives public assistance	-62.78	-0.41	-3.80	-47.75	-8.24	49.80	-0.15	-0.01	-0.03	-0.12
Two children in household	-50.78	0.15	-4.98	-38.25	-97.71	21.38	0.02	-0.18	0.05	20.89
Three or more children in household	-47.02	0.50	-7.64	-62.87	-150.43*	27.71	-0.33	-0.12	0.11	4.78
Respondent was parent or partner of parent	-37.71	0.22	13.03	-4.74	111.31	-284.57	-0.24	-0.39	-0.86	-19.29
Two parents, one employed full time	20.07	-0.04	0.84	16.94	-5.13	-107.85	0.73	-0.01	0.28	-15.97
Two parents, neither employed full time	-57.88	0.16	18.33	35.93	216.02	221.71	0.97	1.45	0.57	-2.33
One parent, employed full time	-57.90	-0.75	-8.97	-16.50	2.55	-151.10	0.54	-0.03	0.32	3.14
One parent, not employed full time	-24.00	-1.28	-6.82	-26.32	-1.98	-172.56	-0.77	0.02	0.19	-33.61

TABLE E.3d (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Primary language spoken at home: Spanish	85.49	0.28	5.97	30.69	141.62	-279.56	-0.94	1.56	1.07**	-21.71
Primary language spoken at home: other	-78.95	-1.99*	-34.72**	-112.93*	-80.26	-159.60	-1.18	-1.73*	0.00	-6.53
Highest level of parental education: some college	14.51	0.18	-0.03	0.78	14.34	41.89	0.26	-0.14	-0.18	-4.66
Highest level of parental education: college or more	74.62	0.44	8.27	51.59	162.22*	28.94	0.30	0.41	0.09	22.72
Family eats dinner together 5 nights a week or more	78.77*	0.42	12.19	78.51*	145.04*	110.24	0.87	0.75	0.30	6.68
School Participating in SBP	31.79	0.90	-4.69	-11.69	41.06	1.95	0.41	0.32	0.07	16.98
School has open-campus policy	40.83	1.03	12.29	18.54	133.21	93.09	0.14	0.62	0.28	22.20
Competitive foods offered during mealtimes	-55.62	-0.11	-10.97	-78.43*	-113.14	-62.79	-1.00**	-0.38	0.15	5.16
Healthy foods offered in vending machines, snack bars, or school store	-73.57	-0.71	-3.50	-58.93	-68.96	-143.99	-0.67	-0.01	0.01	-27.51
Healthy foods offered a la carte	1.18	0.04*	0.15	0.26	-0.29	0.39	0.01	0.00	-0.01	0.67
School has recess (elementary and middle schools)	117.19**	-0.08	8.43	73.48	54.91	33.24	0.09	0.76	0.43	4.42
School serves urban fringe of city	-29.26	-0.07	-12.41*	-51.37	-99.48	-138.34	0.12	-0.57	-0.01	5.88
School serves town	-24.42	-2.12*	-28.07*	-75.49	-159.97	-303.09	-0.36	-1.59	0.00	7.66
School serves rural area	-41.94	0.18	-16.01*	-92.23*	-114.43	-185.92*	0.08	-0.32	0.24	2.97
Midwest	60.66	0.11	15.79	60.42	190.40	-93.90	0.76	1.07	0.40	-40.44
Mountain	-30.88	-0.17	-4.17	-10.18	37.11	-39.20	0.79	0.52	0.34	-45.37
Northeast	15.87	-0.55	3.74	-24.59	76.42	-294.32	0.39	0.60	1.08**	-49.32
Southeast	-161.90**	-2.96**	-17.55*	-84.07	-148.40	-223.90	-1.38*	-0.18	0.38*	-60.68*
Southwest	-77.96	-0.45	-6.83	-30.26	-66.12	-98.38	0.94	0.37	0.30	-31.16
Western	-112.71	-1.09	-8.62	-121.29	-178.00	-478.73**	-0.23	0.76	1.01**	-65.17**
Tuesday	-48.43	0.76	0.36	-29.60	-37.61	-5.45	0.38	0.14	0.16	4.40
Wednesday	39.28	0.88	10.01	36.15	82.89	75.17	1.27*	0.72	0.42	4.05
Thursday	-17.26	0.80	0.31	-23.11	83.08	-84.64	0.18	0.24	0.12	22.58
Friday	8.96	-0.58	-8.59	11.87	-27.08	-71.20	0.28	-0.57	-0.20	5.16
Family income imputed	-100.14	-0.47	-4.60	-34.14	-28.17	160.81	-0.76	1.14	0.35	10.61

TABLE E.3d (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Parental employment imputed	-117.22	-1.98	12.58	-28.43	109.90	-276.55	-1.71	-0.05	-0.65	-7.78
Student's height imputed	70.06	1.97	15.14	94.11	260.03*	57.25	1.96	-0.14	-0.41	-1.59
Open campus imputed	-89.54	-0.13	21.26	-26.62	-64.39	82.70	-0.91	2.44**	1.15*	-17.51
Recess imputed	105.21	-0.46	-9.25	45.45	-69.66	-56.56	1.19	-0.79	-0.32	-8.62
Constant	592.49	10.79	164.39**	756.62*	1,679.56**	1,939.72	7.18*	7.10*	6.08**	394.32
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314
R-squared	0.152	0.098	0.135	0.160	0.150	0.130	0.122	0.106	0.102	0.104

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.4A

RESULTS FROM REGRESSION MODELS OF MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Food Energy (kcal)	Total Amount (g)							
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
SBP Participation	34.59	1.23	0.07	0.78*	0.48*	0.47*	0.02	3.79	2.01*
NSLP Participation	-4.60	0.06	-0.03	0.04	0.01	0.00	0.00	-0.97	-0.44
Female	-56.86**	-2.19**	-1.00**	-0.68*	-0.33	-0.27	-0.03	-7.03*	-2.42**
Black, non-Hispanic	-8.22	0.89	0.13	0.38	0.17	0.19	0.00	-4.10	-0.25
Hispanic	-2.00	1.15	0.86	0.27	-0.11	-0.10	0.00	-3.11	-0.23
Other race, non-Hispanic	21.06	1.47	0.54	0.48	0.28	0.23	0.01	0.22	1.60
Age 7	-69.20	-0.64	-0.41	0.05	-0.14	-0.10	-0.05	-13.75	-2.20
Age 8	-48.02	-0.24	0.02	0.00	-0.16	-0.13	-0.03	-9.43	-2.18
Age 9	-82.04	-2.75	-0.75	-1.05	-0.71	-0.62	-0.07*	-13.58	-1.52
Age 10	-79.98	-1.70	-0.62	-0.42	-0.38	-0.33	-0.03	-13.32	-3.22
Age 11	-92.59	-2.38	-0.84	-0.81	-0.44	-0.40	-0.02	-14.62	-3.63
Age 12	-131.12	-3.45	-1.81*	-0.89	-0.28	-0.22	-0.03	-20.43	-5.49*
Age 13	-84.31	-2.80	-1.33	-0.72	-0.37	-0.32	-0.03	-11.00	-4.29
Age 14	-130.20	-1.58	-0.82	-0.14	-0.35	-0.36	-0.03	-25.35	-4.24
Age 15	-110.82	-1.51	-0.80	-0.16	-0.25	-0.22	-0.02	-20.45	-4.16
Age 16	-119.12	-1.40	-0.89	-0.28	-0.07	-0.07	-0.01	-22.51	-4.26
Age 17	-136.52	-3.56	-1.69	-1.09	-0.51	-0.43	-0.03	-21.63	-4.92
Age 18	-158.62	-3.40	-1.73	-0.97	-0.14	-0.12	0.00	-27.73	-5.06
Student eats about the same amount as others	11.25	0.39	0.24	0.04	0.09	0.08	0.00	1.95	0.01
Student eats less than others	24.27	-0.26	-0.12	-0.20	0.05	0.06	-0.01	6.31	0.30
Student somewhat picky eater	-19.88	-0.74	-0.42	-0.21	-0.01	0.01	-0.01	-2.66	-0.70
Student not picky eater	37.98	1.95*	0.57	0.71*	0.47*	0.43*	0.02	3.09	2.06*
Student's height in feet	54.60	2.46*	0.86	0.96*	0.33	0.30	-0.01	5.75	2.84*
Student has food allergies or special dietary needs	-12.58	-0.44	-0.49	-0.08	0.18	0.21	-0.01	-1.32	-0.51
Student on a diet (middle and high school students)	-48.10*	-1.20	-0.33	-0.52	-0.33	-0.31	-0.03*	-8.74**	-0.68
Student takes dietary supplements	-20.89	-0.22	-0.06	-0.04	-0.12	-0.11	0.00	-4.28	-0.52

TABLE E.4a (continued)

	Food Energy (kcal)	Total Amount (g)							
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
Student in good health (parent report)	92.03	1.98	1.02	0.78	0.22	0.19	0.04	16.88*	2.34
Student in very good health (parent report)	61.46	1.02	0.41	0.32	0.33	0.28	0.05*	12.09	1.28
Student in excellent health (parent report)	60.47	0.65	0.31	0.22	0.18	0.16	0.03	12.74	1.27
Student about as physically active as others	-40.78	-1.52	-0.37	-0.59	-0.40	-0.38	-0.03	-5.88	-0.95
Student more physically active than others	-25.73	-0.03	0.06	0.05	-0.01	0.01	0.00	-6.46	0.08
Student much more physically active than others	-9.35	-0.23	0.00	0.03	-0.09	-0.10	-0.02	-2.26	0.41
Student watches .1-1 hours of TV a day	-9.55	-0.06	-0.46	0.02	0.28	0.27	0.01	-1.38	-1.05
Student watches 1.1-2.9 hours of TV a day	-27.57	0.24	-0.36	0.15	0.34	0.32	0.01	-6.78	-1.16
Student watches more than 3 hours of TV a day	-27.35	-0.70	-0.75	-0.12	0.18	0.15	0.00	-4.17	-1.58
Family income 130 to 185% of poverty	17.04	0.98	0.29	0.34	0.19	0.19	0.02	1.31	0.80
Family income 185 to 200% of poverty	-36.94	-0.68	-0.43	-0.13	-0.16	-0.14	-0.03	-6.57	-1.45
Family income 200 to 300% of poverty	29.43	1.16	0.04	0.48	0.39	0.37	0.01	4.67	0.18
Family income >300% of poverty	-9.19	0.51	-0.05	0.26	0.19	0.22	0.00	-2.69	-0.51
Family receives public assistance	-20.59	0.02	-0.19	0.10	0.09	0.08	-0.01	-4.97	-0.36
Two children in household	-8.94	0.75	0.22	0.28	0.17	0.16	0.00	-3.76	-0.01
Three or more children in household	-14.71	-0.39	0.02	-0.16	-0.27	-0.25	-0.02	-2.64	-0.04
Respondent was parent or partner of parent	-10.90	2.55	-0.36	0.38	0.99	0.90	0.08	-4.37	-4.70
Two parents, one employed full time	-14.25	0.15	0.10	0.15	-0.07	-0.10	-0.01	-4.42	0.62
Two parents, neither employed full time	62.00	2.11	0.59	1.01	0.34	0.28	-0.01	10.30	1.07
One parent, employed full time	-47.27	-2.72	0.64	-1.17	-1.07	-0.95	-0.05	-5.39	1.23

TABLE E.4a (continued)

	Food Energy (kcal)	Total Amount (g)							
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
One parent, not employed full time	-66.73	-3.83	0.34	-1.59	-1.33	-1.18	-0.08	-7.89	0.88
Primary language spoken at home: Spanish	16.43	-0.56	-0.01	-0.40	-0.18	-0.18	0.03	3.38	1.47
Primary language spoken at home: other	-22.20	-1.22	-0.22	-0.69	-0.42	-0.39	0.00	-6.33	2.46
Highest level of parental education: some college	-3.00	-0.25	-0.04	-0.15	-0.04	-0.06	-0.01	-0.34	0.05
Highest level of parental education: college or more	-10.02	-1.63	-0.34	-0.62	-0.34	-0.34	-0.03*	0.65	0.23
Family eats dinner together 5 nights a week or more	12.26	0.16	0.52	-0.19	-0.16	-0.14	0.00	1.42	1.42
School participating in SBP	63.48**	1.27	0.45	0.36	0.40	0.35	0.05*	13.52**	0.14
School has open-campus policy	50.57**	1.37	0.47	0.53	0.12	0.11	0.01	8.63*	1.48
Competitive foods offered during mealtimes	53.50*	-0.07	-0.10	-0.02	0.03	0.04	0.00	13.68**	0.40
Healthy foods offered in vending machines, snack bars, or school store	-16.35	0.38	0.08	0.15	0.09	0.07	0.01	-4.73	-0.23
School has recess (elementary and middle schools)	13.94	1.17	0.12	0.54	0.40	0.38	0.02	0.65	0.60
School serves urban fringe of city	-25.32	-1.30	-0.16	-0.66*	-0.47*	-0.42*	-0.01	-2.31	-1.09
School serves town	-41.33	-1.68	-0.77	-0.57	-0.19	-0.18	-0.02	-5.05	-1.82
School serves rural area	-27.87	-1.60	-0.48	-0.71	-0.40	-0.34	-0.01	-2.15	-1.38
Midwest	-77.02*	-3.46*	-1.24*	-1.35*	-0.62	-0.46	-0.07**	-8.80	-2.48*
Mountain	-36.62	-0.76	-0.39	-0.30	0.06	0.14	-0.01	-5.96	-1.48
Northeast	-56.12	-3.58*	-0.96	-1.52*	-0.84	-0.69	-0.08**	-5.95	0.03
Southeast	-79.43*	-0.93	-0.49	-0.06	-0.25	-0.19	-0.03	-16.29*	-1.71
Southwest	-84.88*	-2.10	-0.65	-0.73	-0.60	-0.52	-0.04	-14.59*	-1.99
Western	-132.48**	-3.83**	-1.59**	-1.20*	-0.59	-0.48	-0.07**	-21.31**	-3.35**
Tuesday	3.06	-0.83	-0.61*	-0.30	0.04	0.06	0.00	3.46	-0.79
Wednesday	-13.42	-0.57	-0.44	-0.14	-0.09	-0.05	-0.01	-0.67	-1.15
Thursday	18.71	-0.91	-0.49	-0.43	-0.01	0.01	0.00	7.49	-0.64
Friday	13.48	0.72	0.39	0.06	0.15	0.14	0.03	1.76	-0.12

TABLE E.4a (continued)

	Food Energy (kcal)	Total Amount (g)							
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
Family income imputed	27.60	1.32	-0.17	0.79	0.60	0.58	0.03	4.65	-0.55
Parental employment imputed	-39.68	0.06	0.02	-0.56	0.19	0.21	0.03	-6.03	-3.60
Student's height imputed	92.22	2.79	0.59	1.02	1.08**	0.90**	0.07**	14.22	2.72
Open campus imputed	60.57	1.15	-0.24	0.41	0.65	0.59	0.04	14.38*	-1.32
Recess imputed	14.46	2.54	-0.23	1.07	1.40	1.29	0.11	-2.45	0.29
Constant	363.41	4.83	2.77	1.77	0.82	0.58	0.25*	68.51	9.92
Observations	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
R-squared	0.073	0.072	0.064	0.072	0.085	0.084	0.092	0.083	0.083

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.4B

RESULTS FROM REGRESSION MODELS OF MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Percentage of Food Energy from:							
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
SBP Participation	1.29	-0.38	1.18**	0.79**	0.79**	0.01	-3.00*	1.15*
NSLP Participation	-0.13	-0.12	0.06	0.00	0.00	0.00	0.60	-0.56
Female	-0.44	-0.46	0.04	0.08	0.13	-0.01	1.13	-0.53
Black, non-Hispanic	1.63	0.45	0.50	0.02	0.01	0.01	-1.00	-0.09
Hispanic	1.94	1.11*	0.47	0.08	0.06	0.01	-2.19	0.38
Other race, non-Hispanic	1.90	0.74	0.70	0.06	0.03	0.00	-2.53	0.78
Age 7	2.06	0.12	1.81*	0.05	0.16	-0.13*	-1.10	-0.61
Age 8	-0.06	0.07	0.94	-0.43	-0.32	-0.13*	0.11	-0.67
Age 9	-1.26	-0.37	0.09	-0.79	-0.67	-0.14	0.73	0.50
Age 10	-0.75	-0.37	0.78	0.03	0.14	-0.13*	1.20	-1.09
Age 11	-0.11	-0.16	0.74	-0.52	-0.46	-0.09	1.14	-0.62
Age 12	-1.01	-1.58	1.10	0.35	0.39	-0.06	3.25	-2.17
Age 13	-1.71	-1.32	0.74	-0.28	-0.18	-0.11	4.08	-2.02
Age 14	2.38	-0.07	2.35	0.46	0.45	-0.06	-0.77	-1.25
Age 15	1.62	-0.17	2.33	0.33	0.40	-0.08	1.19	-2.27
Age 16	-0.12	-1.52	1.20	0.46	0.53	-0.08	4.63	-2.22
Age 17	-1.32	-1.57	0.63	-0.02	0.09	-0.10	5.28	-2.04
Age 18	-1.49	-2.13	1.08	0.23	0.24	-0.06	5.81	-2.53
Student eats about the same amount as others	-0.47	-0.28	-0.10	0.41	0.37	0.00	0.16	-0.36
Student eats less than others	-2.37	-0.94	-0.76	0.20	0.21	-0.03	2.34	-0.56
Student somewhat picky eater	-0.96	-0.88	-0.23	0.05	0.07	-0.01	1.46	-0.13
Student not picky eater	1.09	-0.28	0.43	0.64	0.62	0.01	-1.78	0.53
Student's height in feet	0.14	0.17	-0.13	-0.10	-0.06	-0.05*	-1.00	0.77
Student has food allergies or special dietary needs	-0.56	-0.77	-0.23	0.20	0.25	-0.02	1.63	-0.30
Student on a diet (middle and high school students)	0.24	0.21	-0.35	-0.14	-0.14	-0.01	-0.02	0.29
Student takes dietary supplements	-0.09	-0.01	0.12	0.00	0.01	0.01	-0.59	0.24
Student in good health (parent report)	-0.07	-0.49	-0.19	-0.52	-0.48	-0.01	-0.36	0.85

TABLE E.4b (continued)

	Percentage of Food Energy from:							
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
Student in very good health (parent report)	1.45	-0.34	-0.12	0.29	0.23	0.08*	-1.46	0.75
Student in excellent health (parent report)	0.34	-0.51	-0.46	-0.10	-0.10	0.04	-0.29	0.66
Student about as physically active as others	-2.38	-0.45	-0.94	-0.36	-0.32	-0.04	3.00	-0.32
Student more physically active than others	0.34	0.31	0.17	0.19	0.19	0.01	-0.37	0.19
Student much more physically active than others	-1.63	-0.08	-0.33	-0.27	-0.24	-0.04	1.22	0.03
Student watches 1-1 hours of TV a day	3.58**	0.77	1.25*	0.87**	0.83**	0.05*	-3.18	-0.58
Student watches 1.1-2.9 hours of TV a day	3.71*	1.06	1.35*	1.05**	0.99**	0.06*	-3.61	-0.40
Student watches more than 3 hours of TV a day	1.81	0.28	0.66	0.76**	0.70**	0.05	-1.26	-0.84
Family income 130 to 185% of poverty	2.12	0.89	0.72	0.07	0.08	0.02	-2.65	0.62
Family income 185 to 200% of poverty	1.67	0.29	0.78	0.25	0.20	-0.01	-1.34	-0.19
Family income 200 to 300% of poverty	0.36	-0.40	0.22	0.18	0.22	-0.01	0.06	-0.05
Family income >300% of poverty	1.07	-0.01	0.54	0.41	0.43	0.01	-0.27	-0.09
Family receives public assistance	0.26	-0.02	0.25	0.19	0.17	-0.02	-1.02	0.54
Two children in household	1.32	0.28	0.40	-0.10	-0.12	0.01	-0.33	0.01
Three or more children in household	-0.72	-0.26	-0.25	-0.77	-0.76	-0.03	1.55	0.18
Respondent was parent or partner of parent	2.64	-3.18	0.74	2.30	2.14	0.12	1.47	-5.47**
Two parents, one employed full time	0.40	0.30	0.49	0.14	0.13	-0.02	-1.57	1.00**
Two parents, neither employed full time	1.33	0.06	0.50	0.09	0.06	-0.03	-0.13	-0.52
One parent, employed full time	-3.30	2.38	-1.60	-1.63	-1.41	-0.08	2.31	2.99**
One parent, not employed full time	-3.40	2.61	-1.76	-1.72	-1.47	-0.09	2.72	3.04**
Primary language spoken at home: Spanish	0.94	0.90	-0.50	-0.34	-0.36	0.08*	-2.58	1.52*
Primary language spoken at home: other	0.52	0.75	-0.34	-0.32	-0.38	0.04	-4.18	2.98**
Highest level of parental education: some college	0.17	0.29	-0.07	-0.19	-0.20	-0.02	-0.22	0.09
Highest level of parental education: college or more	-1.78	-0.20	-0.73	-0.44	-0.40	-0.06**	1.40	0.47
Family eats dinner together 5 nights a week or more	0.11	0.84*	-0.41	-0.40	-0.38	-0.01	-0.83	0.93*
School participating in SBP	-1.17	-0.30	-0.84	-0.41	-0.43	0.04	3.26*	-1.33*
School has open-campus policy	-0.56	-0.27	-0.05	-0.34	-0.30	-0.01	0.71	-0.08
Competitive foods offered during mealtimes	-1.47	-0.48	-0.57	-0.28	-0.25	-0.04	1.23	-0.30

TABLE E.4b (continued)

	Percentage of Food Energy from:							
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
Healthy foods offered in vending machines, snack bars, or school store	1.14	0.53	0.20	-0.15	-0.17	0.02	-1.20	0.50
School has recess (elementary and middle schools)	1.00	0.16	0.44	0.42	0.42	0.02	-1.43	0.30
School serves urban fringe of city	-0.88	0.26	-0.51	-0.30	-0.29	0.01	0.85	-0.36
School serves town	-0.71	-0.22	0.05	0.08	0.07	-0.03	0.34	-0.36
School serves rural area	-1.15	-0.43	-0.54	-0.35	-0.32	0.00	2.02	-0.61
Midwest	-3.03	-1.22	-1.27	-0.46	-0.32	-0.05	4.35*	-0.67
Mountain	-0.80	-0.73	-0.29	0.37	0.40	0.01	2.22	-0.81
Northeast	-3.64	-0.97	-1.67	-0.53	-0.40	-0.08*	3.71	0.75
Southeast	2.59	0.60	1.76**	0.93*	0.89*	0.03	-3.48*	-0.04
Southwest	-0.09	-0.25	-0.06	0.09	0.09	0.00	0.68	0.16
Western	-1.38	-0.92	-0.16	0.13	0.19	-0.03	2.04	-0.14
Tuesday	-0.96	-0.50	-0.25	0.12	0.15	-0.02	0.57	-0.42
Wednesday	0.46	-0.32	0.54	0.09	0.12	0.00	-0.27	-0.33
Thursday	-1.04	-0.58	-0.58	-0.01	-0.01	-0.01	0.93	-0.14
Friday	-0.41	0.24	-0.53	-0.13	-0.13	0.02	-0.80	0.45
Family income imputed	2.10	-0.58	1.63	0.88	0.88	0.03	-2.02	-0.34
Parental employment imputed	1.37	0.29	-0.25	0.80	0.82	0.08	0.99	-2.02
Student's height imputed	1.80	0.43	0.34	0.86*	0.68*	0.06*	-1.66	0.13
Open campus imputed	-0.31	-1.27	-0.15	0.46	0.40	0.03	3.64	-3.07**
Recess imputed	3.39	0.91	1.09	1.02	0.90	0.08	-6.12	2.63*
Constant	22.56**	10.62**	8.98*	3.45	2.66	0.60**	65.12**	12.26**
Observations	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
R-squared	0.081	0.068	0.095	0.068	0.066	0.105	0.084	0.077

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.4C

RESULTS FROM REGRESSION MODELS OF MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
SBP Participation	-16.13	-10.18	2.00	0.16	-0.12**	-0.19	-43.87*	-0.53	-0.01	-0.03
NSLP Participation	-7.55	3.43	0.86	-0.26	-0.05	-0.30*	-11.22	-0.55	-0.07	-0.06
Female	-31.54*	-31.91	1.16	0.04	-0.06	-0.31**	-18.69	-0.58	-0.12**	-0.06*
Black, non-Hispanic	-36.18	-14.07	8.86*	0.13	-0.02	-0.03	-7.87	-0.13	-0.05	-0.02
Hispanic	-39.41	-31.72	-0.49	-0.39	-0.02	-0.28	-0.08	-0.45	-0.05	-0.02
Other race, non-Hispanic	-9.76	0.48	0.65	-0.20	-0.08	-0.14	-26.72	-0.44	0.00	0.03
Age 7	-16.90	15.69	7.66	0.21	0.01	-0.24	-30.73	-0.67	-0.16	-0.09
Age 8	-24.17	1.93	12.01	-0.30	-0.04	-0.35	-48.73	-1.45	-0.17	-0.11
Age 9	8.90	58.17	21.59	-0.23	0.00	-0.18	-9.87	-1.25	-0.15	-0.08
Age 10	-35.95	3.29	14.69	-0.50	-0.17	-0.64	-117.82*	-2.53*	-0.29*	-0.18
Age 11	-54.02	11.34	26.56	-0.44	-0.24*	-0.91*	-138.48*	-3.38**	-0.37**	-0.24*
Age 12	-31.11	6.40	15.29	-0.28	-0.20	-0.84*	-141.50*	-3.13*	-0.38**	-0.26*
Age 13	2.11	89.61	34.15	-0.05	-0.08	-0.51	-88.12	-2.04	-0.26	-0.16
Age 14	-60.62	-20.12	16.07	-0.33	-0.25	-0.96*	-152.58	-3.34*	-0.38*	-0.27*
Age 15	-11.92	28.18	12.67	-0.01	-0.17	-0.56	-174.23*	-3.10*	-0.33*	-0.26
Age 16	-71.20	-39.65	13.56	0.17	-0.29*	-1.04*	-225.52**	-4.23**	-0.49**	-0.35*
Age 17	-57.03	-11.33	15.77	-0.52	-0.31*	-1.11*	-221.91*	-4.01*	-0.45**	-0.30*
Age 18	-114.71	-39.13	23.36	-0.22	-0.41**	-1.66**	-219.90*	-5.32**	-0.60**	-0.43**
Student eats about the same amount as others	-2.53	-8.46	2.29	0.16	0.02	0.06	-2.16	0.25	0.03	0.03
Student eats less than others	-1.86	28.09	17.99	0.36	0.06	0.02	22.31	0.91	0.05	0.11
Student somewhat picky eater	12.91	28.17	3.66	-0.27	-0.08	-0.24	-28.90	-0.72	-0.09	-0.06
Student not picky eater	19.16	48.89*	6.56	0.02	-0.01	-0.08	-6.14	0.21	0.03	0.03
Student's height in feet	28.69	1.93	-13.04	0.03	0.12	0.23	94.75*	1.52*	0.17*	0.10
Student has food allergies or special dietary needs	20.79	-7.74	-10.73*	-0.06	0.02	0.10	12.91	0.26	0.00	0.02
Student on a diet (middle and high school students)	-25.59	-26.50	-1.36	0.04	-0.02	0.02	-12.12	-0.25	-0.03	-0.02
Student takes dietary supplements	6.96	3.06	-3.41	-0.22	0.00	-0.03	-15.52	-0.08	-0.01	-0.01
Student in good health (parent report)	49.59	82.35	13.47	-0.10	0.14	0.38	43.64	1.38*	0.19*	0.11
Student in very good health (parent report)	33.57	44.51	5.59	0.12	0.12	0.39	68.66*	1.34*	0.18*	0.11*
Student in excellent health (parent report)	30.11	55.30	10.43	-0.03	0.14	0.37	68.42	1.31*	0.17*	0.11*

TABLE E.4c (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Student about as physically active as others	-29.23	-30.03	-3.14	-0.34	-0.08	-0.28	-9.81	-0.53	-0.09	-0.05
Student more physically active than others	-8.57	-13.61	-5.12	-0.29	-0.14	-0.32	-36.46	-0.91	-0.07	-0.07
Student much more physically active than others	6.50	16.67	2.85	-0.29	-0.07	-0.15	-2.58	-0.18	-0.03	-0.01
Student watches .1-1 hours of TV a day	-49.39	-26.91	4.26	-0.49	-0.09	-0.22	-36.93	-0.65	-0.11	-0.04
Student watches 1.1-2.9 hours of TV a day	-72.39	-72.01	-2.95	-0.69	-0.22	-0.52	-92.39	-1.61	-0.20	-0.12
Student watches more than 3 hours of TV a day	-70.87	-82.47	-11.01	-0.79	-0.19	-0.49	-68.69	-1.08	-0.18	-0.10
Family income 130 to 185% of poverty	23.54	22.71	-2.90	-0.04	-0.01	0.09	-7.73	-0.04	0.03	0.00
Family income 185 to 200% of poverty	-26.65	-33.95	-5.15	-0.28	-0.08	-0.47	-29.72	-0.76	-0.11	-0.07
Family income 200 to 300% of poverty	-25.03	-5.59	4.79	0.25	0.00	-0.12	-1.33	0.03	-0.01	0.03
Family income >300% of poverty	-19.76	-16.20	0.19	-0.23	-0.07	-0.20	-41.80	-0.75	-0.08	-0.05
Family receives public assistance	-31.82	-48.31	-3.14	-0.23	-0.09	-0.37*	-32.40	-0.73	-0.10	-0.08*
Two children in household	-24.93	-18.35	-1.63	0.20	-0.03	-0.07	4.91	-0.06	0.00	-0.01
Three or more children in household	-20.67	-25.82	-3.89	-0.02	0.02	0.08	6.39	0.29	0.05	0.03
Respondent was parent or partner of parent	-49.54	-7.07	14.11	0.17	-0.28	-1.59*	-71.73	-2.19	-0.39	-0.18
Two parents, one employed full time	21.09	4.11	-5.67	0.33	0.10	0.40**	66.73*	0.90	0.10*	0.04
Two parents, neither employed full time	-11.12	-35.64	-5.02	0.07	-0.03	-0.04	1.98	0.12	0.02	-0.03
One parent, employed full time	-80.73	-180.79	-29.98	-0.45	0.01	0.76	-39.40	0.02	0.22	-0.04
One parent, not employed full time	-67.34	-195.34*	-37.77*	-0.76	-0.02	0.90	-42.88	-0.21	0.25	-0.04
Primary language spoken at home: Spanish	21.69	2.27	-1.03	-0.14	-0.07	0.23	-48.62	-0.50	0.06	-0.02
Primary language spoken at home: other	-32.91	-1.06	-1.18	-0.07	-0.12	-0.08	-47.10	-0.41	-0.04	-0.04
Highest level of parental education: some college	-17.64	-34.86	-10.09	-0.04	-0.01	-0.07	3.00	-0.02	0.00	-0.01
Highest level of parental education: college or more	-11.39	-15.94	-3.00	-0.10	0.03	0.00	26.75	0.06	0.03	0.00
Family eats dinner together 5 nights a week or more	20.67	14.03	-0.44	-0.14	0.02	0.31	1.85	0.15	0.09	0.02
School participating in SBP	17.13	57.08*	12.55**	-0.15	0.09	0.17	59.58	0.62	0.06	0.07
School has open-campus policy	15.60	46.18	14.10**	-0.05	0.07	0.22	62.60	0.72	0.07	0.06
Competitive foods offered during mealtimes	8.17	39.36	16.54*	-0.04	0.03	-0.11	29.35	0.48	-0.01	0.05
Healthy foods offered in vending machines, snack bars, or school store	-7.52	-12.38	-3.70	0.12	-0.03	-0.03	-10.54	-0.40	-0.03	-0.04
School has recess (elementary and middle schools)	15.40	22.55	-0.58	0.13	-0.06	-0.16	-35.63	-0.64	-0.04	-0.07
School serves urban fringe of city	9.78	1.19	-2.91	-0.01	0.08	0.25	44.69	0.50	0.04	0.02

TABLE E.4c (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
School serves town	-24.45	-34.95	-0.96	-0.10	-0.05	-0.28	-7.14	-0.68	-0.13*	-0.07
School serves rural area	7.63	13.47	4.04	-0.17	0.02	-0.01	53.86	0.11	-0.02	0.02
Midwest	62.54**	-2.81	-26.92*	-0.55	0.01	0.21	-6.29	0.15	0.06	-0.01
Mountain	52.03	-36.78	-37.89**	-0.52	0.00	0.14	8.66	0.18	0.11	0.01
Northeast	21.00	-23.12	-27.26*	-0.50	0.01	0.07	30.59	0.29	0.12	0.04
Southeast	-1.95	-72.61*	-34.09**	-0.48	-0.15*	-0.14	-101.91**	-0.92	-0.07	-0.09
Southwest	2.16	-63.77	-25.94*	-0.34	-0.06	0.03	-28.10	-0.37	0.03	-0.04
Western	-17.29	-81.90*	-31.61**	-0.09	-0.10	-0.18	-60.68	-1.11	-0.09	-0.12
Tuesday	-4.50	-2.61	0.62	-0.03	0.05	0.05	36.15	0.74	0.00	0.07
Wednesday	-1.84	-2.60	-4.82	0.51	0.07	0.16	18.31	0.58	0.02	0.05
Thursday	0.24	17.57	7.54	-0.10	0.02	-0.07	18.81	0.22	0.02	0.05
Friday	-15.44	-32.87	-5.17	-0.05	-0.03	0.12	-13.81	-0.28	0.02	0.01
Family income imputed	52.98	55.71	1.98	-0.15	-0.01	-0.03	-43.59	-0.32	-0.03	-0.05
Parental employment imputed	-106.70*	-124.81*	-10.23	-0.40	-0.37**	-1.17**	-172.51*	-3.08**	-0.27	-0.26*
Student's height imputed	86.91	79.16	3.54	1.64	0.26	0.79	96.37	2.58	0.26	0.18
Open campus imputed	16.33	20.41	7.91	0.02	-0.09	-0.67*	-49.85	-0.23	-0.08	0.00
Recess imputed	56.51	46.97	0.71	0.37	0.10	0.62*	27.74	0.14	0.07	-0.03
Constant	303.92	485.62*	96.40**	3.06*	0.64	2.97*	1.09	3.92	0.57	0.55
Observations	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
R-squared	0.069	0.065	0.129	0.079	0.08	0.073	0.07	0.071	0.067	0.068

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

DFE = Dietary Folate Equivalents.
 RAE = Retinol Activity Equivalents.
 RE = Retinol Equivalents.

*Significantly different from zero at the .05 level.
 **Significantly different from zero at the .01 level.

TABLE E.4D

RESULTS FROM REGRESSION MODELS OF MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
SBP Participation	38.25	-0.46	3.90	44.26*	86.43*	101.13*	0.02	0.08	-0.28	-14.64**
NSLP Participation	-17.69	-0.66	0.11	-17.30	5.05	-68.59	-0.50	-0.13	-0.32	-2.63
Female	-52.58**	-0.57	-3.47	-49.15**	-69.15*	-105.54*	-0.31	-0.16	0.80*	-15.34**
Black, non-Hispanic	-41.10	-0.61	-3.82	-30.25	4.15	-42.26	-0.22	-0.32	0.37	15.02
Hispanic	-28.54	-0.89	-4.53	-18.51	-14.34	17.78	-0.42	-0.30	0.46	2.92
Other race, non-Hispanic	9.22	-0.91	4.87	22.50	33.58	99.22	-0.28	0.42	1.65	21.16
Age 7	-69.83	-1.15	-6.52	-55.07	-6.62	-218.89	-0.74	-0.32	0.47	7.74
Age 8	-48.04	-1.45	-4.45	-21.79	22.41	-230.56	-1.13	-0.05	0.73	5.89
Age 9	39.85	-0.48	-9.48	-36.98	71.27	-190.12	-0.90	-0.45	0.96	18.80
Age 10	-43.56	-2.90**	-15.71	-68.27	23.08	-242.47	-1.78*	-0.49	0.33	-1.53
Age 11	-49.57	-3.47**	-20.42*	-105.93*	17.42	-288.85	-2.07**	-0.54	0.41	12.39
Age 12	-86.96	-3.06*	-26.09**	-149.47**	-76.29	-380.15	-2.03**	-1.15	0.05	-6.91
Age 13	-39.30	-2.29	-16.97	-112.12	47.71	-329.90	-1.76*	-0.79	0.26	4.67
Age 14	-77.37	-3.72**	-26.23*	-118.15*	-40.60	-346.23	-2.16**	-1.12	1.26	9.64
Age 15	-79.74	-2.63	-18.29	-104.50	-19.34	-358.10	-2.23*	-0.57	0.79	-3.10
Age 16	-103.86	-4.41**	-22.20	-131.75*	-52.03	-361.97	-2.31**	-0.57	2.79	7.14
Age 17	-145.55	-4.11**	-23.23	-165.35**	-54.36	-363.99	-2.97**	-0.87	0.62	8.42
Age 18	-115.81	-5.21**	-25.90*	-166.54*	-11.25	-438.69	-2.87**	-0.92	1.28	10.96
Student eats about the same amount as others	-2.16	0.06	-1.23	-3.21	-12.78	10.11	0.25	-0.11	-0.13	9.68
Student eats less than others	21.06	0.23	4.80	-9.18	54.65	39.65	0.36	0.04	0.52	0.30
Student somewhat picky eater	11.68	-0.82	-2.66	-17.71	-0.42	-59.57	-0.46	-0.11	0.50	-7.50
Student not picky eater	45.10	0.00	8.12*	46.84*	70.38*	39.35	0.08	0.29	0.65	5.45
Student's height in feet	18.91	1.57*	14.25*	78.10**	19.85	82.42	0.93*	0.43	-0.15	6.81
Student has food allergies or special dietary needs	-3.50	0.73	-0.36	-1.13	-68.17	-15.82	0.21	0.00	1.51	-13.84*
Student on a diet (middle and high school students)	-22.59	0.02	-5.74	-26.16	-31.69	-31.07	0.04	-0.06	1.09	-3.16
Student takes dietary supplements	-23.30	-0.32	-2.68	-9.00	-37.48	-24.15	-0.29	-0.16	0.03	-1.63
Student in good health (parent report)	73.67	1.64*	9.16	59.70	158.49*	68.63	0.42	1.00*	-0.01	6.60

TABLE E.4D (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Student in very good health (parent report)	55.74*	1.79**	1.06	33.57	94.77	37.77	0.71	0.54	-0.04	7.51
Student in excellent health (parent report)	60.19*	1.59**	4.46	40.02	112.75*	23.27	0.67	0.75*	0.71	7.06
Student about as physically active as others	-18.88	-0.32	-4.71	-22.56	-34.01	-22.43	-0.61	-0.14	0.47	-6.60
Student more physically active than others	15.69	-0.34	-2.62	10.05	-16.23	44.53	-0.59	0.05	0.43	-6.88
Student much more physically active than others	2.78	-0.16	0.97	14.20	20.02	71.89	-0.37	0.26	0.60	-0.62
Student watches .1-1 hours of TV a day	-18.54	-1.06	-2.40	-23.48	-13.28	5.41	-0.51	-0.28	-0.94	-5.00
Student watches 1.1-2.9 hours of TV a day	-58.06	-2.15	-6.96	-31.06	-58.18	21.32	-1.06	-0.41	-1.08	-5.31
Student watches more than 3 hours of TV a day	-82.78	-1.74	-9.36	-48.08	-99.98	40.39	-0.85	-0.57	-1.10	-9.92
Family income 130 to 185% of poverty	-0.26	0.76	3.13	27.52	-2.99	57.82	0.20	0.19	0.36	13.34
Family income 185 to 200% of poverty	-76.57*	-0.44	-7.87	-43.87	-79.03	-8.17	-0.63	-0.26	0.15	3.20
Family income 200 to 300% of poverty	-18.17	0.25	2.17	8.96	28.35	31.81	0.01	0.14	0.41	-3.41
Family income >300% of poverty	-22.65	-0.33	-1.01	-4.32	-36.21	15.58	-0.21	0.37	1.45**	0.63
Family receives public assistance	-35.00	-0.72	-2.71	-22.44	-30.39	-7.62	-0.29	-0.11	-0.32	8.64
Two children in household	-18.54	-0.10	-1.37	-15.88	12.22	3.43	0.02	0.02	0.44	0.14
Three or more children in household	-18.00	0.47	-3.12	-15.18	-14.79	2.84	0.14	-0.08	0.31	-3.32
Respondent was parent or partner of parent	-137.52	-4.99	-41.48**	-163.62	-23.91	128.48	-1.29	-2.38	-6.83	45.25
Two parents, one employed full time	16.42	0.46	1.86	24.44	-21.77	12.70	0.96**	-0.03	0.59	-1.92
Two parents, neither employed full time	-47.42	-0.53	2.32	26.51	-7.42	36.40	0.19	-0.01	-0.72	8.18
One parent, employed full time	37.63	2.80	24.62*	79.71	129.99	-319.55	0.18	1.43	6.81	-46.18
One parent, not employed full time	52.03	2.96	19.95	90.71	129.06	-335.76	-0.08	1.08	6.76	-57.20
Primary language spoken at home: Spanish	41.19	-0.09	-0.18	51.36	50.08	15.26	-0.32	0.16	-0.37	1.32
Primary language spoken at home: other	3.17	-0.43	-8.25	-11.22	50.28	37.77	-0.08	-0.69	-2.73**	0.10

TABLE E.4D (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Highest level of parental education: some college	-17.56	-0.18	-2.17	-3.99	-30.75	2.21	-0.01	-0.27	-0.78	0.83
Highest level of parental education: college or more	7.37	-0.14	0.79	-2.51	28.08	-23.25	0.06	-0.16	0.03	-1.00
Family eats dinner together 5 nights a week or more	52.29*	0.11	3.34	30.98	55.57	1.91	0.23	0.09	0.38	9.46
School participating in SBP	55.29	0.74	2.95	17.51	66.59	35.44	0.21	0.38	0.15	-4.21
School has open-campus policy	64.68**	0.82	6.13	25.22	99.17**	41.00	0.26	0.27	0.81	10.22
Competitive foods offered during mealtimes	28.15	0.63	6.18*	6.29	86.31*	55.09*	-0.27	0.54**	0.38	-9.33
Healthy foods offered in vending machines, snack bars, or school store	-10.68	-0.18	-2.09	-6.61	-21.21	-29.34	-0.02	-0.05	0.30	11.59*
School has recess (elementary and middle schools)	20.10	-0.44	3.34	4.47	26.89	-67.17	-0.15	0.30	0.91*	7.73
School serves urban fringe of city	-13.59	0.63	-3.83	-16.19	-45.27	-29.21	0.35	-0.20	-0.13	-1.43
School serves town	-56.16*	-0.50	-8.16	-52.43*	-73.07*	-28.96	-0.21	-0.31	0.15	-3.39
School serves rural area	-5.83	0.62	-4.93	-24.31	-33.85	-17.59	0.18	-0.16	0.07	-6.09
Midwest	-61.83	-0.08	-4.08	-38.35	-121.22*	-167.17**	0.21	-0.31	0.82	-23.83**
Mountain	-72.77	0.11	-6.37	-10.02	-135.73*	-38.60	0.57	-0.34	0.36	-10.45
Northeast	-18.95	0.37	3.73	10.88	-60.22	-38.98	0.82	0.20	2.38*	-10.27
Southeast	-93.77**	-1.39*	-11.89*	-26.36	-187.15**	-55.62	-0.33	-0.60	-0.14	-7.30
Southwest	-72.19*	-0.64	-9.85	-30.85	-158.36**	-119.15**	0.44	-0.69*	-0.15	-8.14
Western	-117.17**	-0.98	-8.49	-72.48**	-166.43**	-195.30**	0.23	-0.30	1.18	-16.79
Tuesday	-26.12	0.72	-0.03	-20.16	-36.79	23.24	0.21	-0.02	-0.27	-6.72
Wednesday	-35.95	0.63	-1.74	-16.60	-35.55	3.87	0.45	-0.01	0.92	-5.61
Thursday	17.27	0.11	-0.17	2.94	43.84	13.38	-0.08	0.05	0.21	-3.87
Friday	1.00	-0.19	-3.27	5.62	-12.91	-2.86	-0.08	-0.22	-0.53	8.13
Family income imputed	-52.41	-0.28	-0.40	-2.79	-39.25	32.09	-0.65	0.88	1.25	5.31
Parental employment imputed	-113.22	-2.93*	-15.22	-85.91	124.49	-90.98	-2.17**	-0.90	-0.86	7.26
Student's height imputed	70.50	1.96	13.98	73.48	108.23	123.37	1.79	-0.01	-0.97	-0.64
Open campus imputed	-62.91*	-0.42	-2.04	-15.15	-27.38	49.79	-1.05*	0.43	1.09	-12.64
Recess imputed	34.24	-0.25	-0.65	38.14	25.55	24.64	0.78	-0.36	-0.87	2.98

TABLE E.4D (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Constant	455.39*	3.27	34.47	207.12	415.92	753.62	2.4	2.18	3.61	31.26
Observations	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936	1,936
R-squared	0.086	0.067	0.063	0.074	0.091	0.068	0.068	0.054	0.077	0.065

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes children who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.5A

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polysaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
SBP Participation	127.84*	5.08	1.67	2.07	1.12	1.05	0.08	15.73*	5.04*		
NSLP Participation	65.43	1.69	0.97	0.37	0.18	0.11	0.13**	6.67	5.33*		
Female	-360.11**	-14.53**	-5.55**	-5.48**	-2.28**	-2.08**	-0.16**	-43.00**	-14.98**		
Black, non-Hispanic	-82.73	-3.60	-2.15*	-1.15	-0.50	-0.49	-0.03	-10.44	-3.65		
Hispanic	2.85	-2.11	-0.52	-0.62	-1.05	-0.95	-0.09	5.34	-0.22		
Other race, non-Hispanic	80.09	0.41	-0.45	0.81	-0.22	-0.23	-0.03	15.15	3.84		
Age 7	-64.24	0.76	-0.91	1.18	0.70	0.71	-0.10	-17.57	0.08		
Age 8	7.87	2.32	-0.11	1.59	0.81	0.78	-0.09	-2.62	-0.70		
Age 9	48.24	0.88	-0.89	1.07	0.71	0.63	-0.14	4.60	5.36		
Age 10	-74.87	-5.19	-2.98	-1.42	-0.26	-0.23	-0.24	-7.97	0.09		
Age 11	80.22	5.08	0.54	2.52	1.48	1.41	-0.10	-1.07	9.82		
Age 12	-11.68	-0.12	-1.53	0.32	0.88	0.81	-0.09	-4.91	2.47		
Age 13	85.19	3.96	0.88	2.04	0.63	0.55	-0.14	6.52	5.99		
Age 14	-20.85	2.80	0.69	2.04	-0.36	-0.43	-0.23	-18.70	6.58		
Age 15	140.74	9.54	2.67	4.66	1.38	1.01	-0.04	4.39	9.15		
Age 16	220.22	16.20	5.06	6.35	3.26	2.70	0.16	5.21	13.33		
Age 17	218.06	13.41	3.69	5.85	2.43	1.96	0.13	9.77	14.82		
Age 18	206.43	13.68	5.01	5.90	1.49	1.10	-0.01	-1.93	21.60*		
Student eats about the same amount as others	-100.32*	-4.69*	-1.23	-1.76	-1.41*	-1.29*	-0.14**	-10.01	-4.65*		
Student eats less than others	-169.28**	-7.50*	-2.59*	-3.06*	-1.34	-1.25	-0.10	-16.24	-9.20**		
Student somewhat picky eater	-106.29*	-5.63*	-1.46	-2.14*	-1.68**	-1.49**	-0.12*	-11.14	-3.08		
Student not picky eater	-21.41	-1.98	-0.42	-0.93	-0.67	-0.66	0.01	-3.21	2.12		
Student's height in feet	214.98	9.07*	3.12	3.58*	1.74	1.55	0.23**	27.43	6.48		
Student has food allergies or special dietary needs	-33.53	0.34	-0.47	0.25	0.45	0.49	-0.03	-10.80	2.38		
Student on a diet (middle and high school students)	-296.20**	-11.72**	-4.03**	-4.99**	-1.82**	-1.62**	-0.13*	-39.66**	-9.13**		
Student takes dietary supplements	9.99	-0.04	0.41	-0.22	-0.06	-0.07	-0.00	2.42	0.55		

TABLE E.5a (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Student in good health (parent report)	47.09	1.22	-0.06	1.01	0.42	0.35	0.01	8.03	1.28		
Student in very good health (parent report)	77.89	2.17	0.32	0.92	0.86	0.75	0.09	14.52	0.49		
Student in excellent health (parent report)	161.26	5.70	1.49	2.20	1.67	1.52	0.14	22.52	5.62		
Student about as physically active as others	46.99	1.48	0.23	0.48	0.72	0.49	0.11	5.32	2.35		
Student more physically active than others	104.63	4.87	1.13	2.08	1.53	1.25	0.13	10.31	4.58		
Student much more physically active than others	194.83*	7.05	2.22	2.60	1.99	1.79	0.07	27.11*	6.12		
Student watches .1-1 hours of TV a day	15.22	0.23	0.57	0.46	-1.02	-0.93	-0.12	5.90	-2.46		
Student watches 1.1-2.9 hours of TV a day	54.47	2.41	1.40	1.11	-0.43	-0.26	-0.12	7.53	0.19		
Student watches more than 3 hours of TV a day	-16.86	-1.41	-0.05	0.08	-1.43	-1.26	-0.20	2.50	-3.72		
Family income 130 to 185% of poverty	-18.31	-0.52	-0.13	-0.80	0.40	0.47	-0.04	-3.65	0.16		
Family income 185 to 200% of poverty	-122.81	-5.78*	-1.61	-1.78	-1.87*	-1.66*	-0.20**	-8.80	-8.91**		
Family income 200 to 300% of poverty	-40.69	-4.09	-0.64	-1.43	-1.67*	-1.50*	-0.19*	4.63	-5.32		
Family income >300% of poverty	-85.85	-4.75	-1.32	-1.80	-1.24	-1.08	-0.12	-4.84	-5.84		
Family receives public assistance	-15.06	-0.35	-0.46	0.15	0.05	0.05	-0.03	-1.03	-1.68		
Two children in household	-10.82	0.37	0.15	0.29	-0.19	-0.11	-0.07	-2.97	-0.49		
Three or more children in household	-18.93	-0.45	0.76	-0.31	-0.96	-0.80	-0.05	-1.39	-2.17		
Respondent was parent or partner of parent	-212.97	-1.29	-3.52	-0.48	2.49	2.08	-0.20	-56.83	1.21		
Two parents, one employed full time	-57.04	-2.20	-0.09	-1.11	-0.80	-0.68	-0.07	-8.62	-0.40		
Two parents, neither employed full time	122.35	3.46	1.39	1.04	0.54	0.57	0.08	20.05	4.14		

TABLE E.5a (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
One parent, employed full time	282.85	3.20	2.13	0.08	0.60	0.75	0.33	66.50**	3.38		
One parent, not employed full time	299.18	4.41	2.42	1.03	0.86	0.95	0.32	73.21**	-1.60		
Primary language spoken at home: Spanish	-96.86	-7.66	-1.59	-4.06*	-1.41	-1.27	0.01	-3.86	-2.92		
Primary language spoken at home: other	-250.48*	-13.06**	-2.87*	-6.11**	-3.46**	-3.18**	-0.16	-31.32	-4.70		
Highest level of parental education: some college	41.14	0.65	0.20	-0.21	0.65	0.62	0.11*	8.51	0.21		
Highest level of parental education: college or more	58.37	0.06	0.71	-0.44	0.03	-0.03	0.06	11.90	2.57		
Family eats dinner together 5 nights a week or more	21.61	1.00	0.69	0.08	0.11	0.08	0.06	-1.68	4.87**		
School participating in SBP	41.47	0.11	0.43	-0.00	-0.52	-0.43	-0.01	10.35	0.24		
School has open-campus policy	55.23	0.16	0.27	-0.07	-0.31	-0.17	-0.05	12.00	1.58		
Competitive foods offered during mealtimes	-74.25	-4.36	-2.21**	-1.56	-0.39	-0.33	-0.07	-5.02	-3.56		
Healthy foods offered in vending machines, snack bars, or school store	-48.38	-1.26	-1.21	-0.25	0.50	0.53	-0.02	-2.68	-6.00**		
School has recess (elementary and middle schools)	19.29	1.83	0.83	0.43	0.42	0.45	0.05	-0.91	2.18		
School serves urban fringe of city	-98.24*	-3.29	0.03	-1.71	-1.54**	-1.48**	-0.06	-13.15	-3.86*		
School serves town	-232.25*	-8.76	-0.98	-4.04*	-3.42**	-3.05**	-0.27**	-31.63*	-7.10		
School serves rural area	-94.57	-3.15	-0.65	-1.69	-0.85	-0.75	-0.04	-10.35	-6.02**		
Midwest	21.12	1.71	0.24	0.62	0.93	0.91	0.08	0.57	1.59		
Mountain	-64.81	-1.00	0.02	-0.38	-0.20	-0.18	0.02	-9.71	-3.72		
Northeast	-159.63	-7.32	-0.85	-3.47*	-2.25*	-2.08*	-0.09	-20.07	-3.83		
Southeast	-122.03	-1.74	-1.53	-0.13	0.47	0.39	0.05	-19.18	-7.13*		
Southwest	-48.30	2.62	1.30	1.49	-0.09	-0.16	0.09	-15.48	-2.56		
Western	-243.92**	-6.92	-3.04	-1.96	-0.95	-0.78	-0.07	-38.06**	-7.64*		
Tuesday	-29.36	-0.64	-1.13	-0.82	1.00	0.95	0.08	-6.50	0.25		

TABLE E.5a (continued)

	Food Energy (kcal)	Total Amount (g)									
		Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Wednesday	-2.61	0.27	0.40	-0.32	-0.25	-0.18	-0.02	-3.75	2.55		
Thursday	5.92	-1.29	-0.87	-0.71	0.03	-0.02	0.04	3.58	0.72		
Friday	1.83	-0.76	0.39	-0.45	-0.86	-1.00	-0.04	2.03	-0.28		
Family income imputed	39.38	-0.13	-0.30	0.10	-0.26	-0.21	-0.05	12.21	-2.33		
Parental employment imputed	168.57	8.84	-0.39	2.90	5.71	5.07	0.29	22.32	1.88		
Student's height imputed	98.06	-0.69	-0.71	-0.68	0.94	0.68	0.07	20.86	4.60		
Open campus imputed	30.77	-0.25	-1.39	0.15	0.92	1.05	-0.09	11.43	-1.03		
Recess imputed	-14.61	-0.40	0.21	0.86	-1.51	-1.20	-0.07	-1.08	-1.44		
Constant	1,185.41*	40.95	16.11*	15.88	6.26	5.44	0.30	154.25*	51.74*		
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314		
R-squared	0.148	0.132	0.121	0.127	0.114	0.113	0.119	0.121	0.157		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.5B

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Percentage of Food Energy from:							
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
SBP Participation	-0.02	-0.06	0.01	0.11	0.12	0.01	0.02	-0.02
NSLP Participation	0.02	0.23	-0.13	-0.10	-0.10	0.04**	-0.73	0.60*
Female	-0.45	-0.37	-0.15	0.15	0.11	0.02	0.87	-0.33
Black, non-Hispanic	0.12	-0.41	0.23	0.12	0.09	0.00	-0.27	-0.10
Hispanic	-1.25*	-0.41	-0.32	-0.53*	-0.47*	-0.04*	0.94	0.24
Other race, non-Hispanic	-0.60	-0.52	0.18	-0.29	-0.23	-0.05	0.30	0.28
Age 7	1.18	0.22	0.57	0.41	0.39	-0.01	-0.97	-0.06
Age 8	0.23	-0.15	0.27	0.20	0.19	-0.04	0.36	-0.60
Age 9	-0.23	-0.40	0.03	0.22	0.18	-0.06	0.03	0.19
Age 10	-1.30	-0.62	-0.45	-0.04	-0.07	-0.07	1.05	0.19
Age 11	0.58	0.02	0.12	0.35	0.32	-0.04	-1.06	0.54
Age 12	-0.24	-0.35	-0.23	0.29	0.24	-0.02	0.43	-0.06
Age 13	0.13	0.03	0.01	0.11	0.06	-0.05	-0.02	-0.08
Age 14	1.09	0.45	0.56	-0.06	-0.13	-0.07	-1.76	0.66
Age 15	1.61	0.56	0.75	0.18	0.07	-0.04	-1.73	0.13
Age 16	2.74	0.99	0.73	0.68	0.50	0.03	-3.02	0.44
Age 17	1.13	0.26	0.25	0.40	0.26	0.02	-1.95	0.87
Age 18	2.14	1.09	0.69	0.15	0.02	-0.00	-3.90	1.60
Student eats about the same amount as others	-0.56	-0.09	-0.22	-0.23	-0.22	-0.03*	0.82	-0.19
Student eats less than others	-0.39	-0.21	-0.22	0.04	0.02	0.00	0.96	-0.43
Student somewhat picky eater	-0.66	-0.07	-0.27	-0.31*	-0.26*	-0.02	0.67	0.02
Student not picky eater	-0.69	-0.12	-0.32	-0.28	-0.27	-0.00	0.16	0.56*
Student's height in feet	0.22	0.02	0.12	0.04	0.04	0.03	-0.13	-0.11
Student has food allergies or special dietary needs	0.14	-0.10	-0.01	0.19	0.21	-0.01	-0.63	0.73
Student on a diet (middle and high school students)	-0.72	-0.16	-0.49*	-0.00	0.00	0.01	0.31	0.45

TABLE E.5b (continued)

	Percentage of Food Energy from:							
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein
Student takes dietary supplements	-0.36	-0.00	-0.17	-0.08	-0.09	-0.00	0.30	0.09
Student in good health (parent report)	-0.17	-0.42	0.07	0.29	0.27	0.02	0.03	0.15
Student in very good health (parent report)	-0.12	-0.34	-0.06	0.32	0.27	0.04	0.41	-0.25
Student in excellent health (parent report)	-0.09	-0.38	-0.07	0.40	0.36	0.05	0.09	0.08
Student about as physically active as others	0.03	-0.11	-0.06	0.25	0.18	0.04*	-0.34	0.18
Student more physically active than others	0.52	-0.04	0.22	0.39*	0.34	0.03	-0.87	0.30
Student much more physically active than others	-0.17	-0.01	-0.22	0.19	0.18	-0.01	0.24	-0.11
Student watches .1-1 hours of TV a day	0.26	0.15	0.28	-0.24	-0.23	-0.04	0.57	-0.72
Student watches 1.1-2.9 hours of TV a day	0.60	0.47	0.31	-0.26	-0.21	-0.05	-0.33	-0.35
Student watches more than 3 hours of TV a day	0.14	0.14	0.31	-0.33	-0.29	-0.06*	0.40	-0.50
Family income 130 to 185% of poverty	0.16	0.26	-0.23	0.06	0.07	-0.01	-0.52	0.36
Family income 185 to 200% of poverty	-0.10	0.11	0.12	-0.32	-0.30	-0.03	0.98	-0.83**
Family income 200 to 300% of poverty	-0.88	0.05	-0.33	-0.54*	-0.49*	-0.06*	1.70	-0.72
Family income >300% of poverty	-0.66	0.09	-0.35	-0.37	-0.33	-0.02	1.12	-0.40
Family receives public assistance	-0.17	-0.23	0.03	0.04	0.02	0.00	0.49	-0.25
Two children in household	0.38	0.09	0.29	-0.05	-0.03	-0.02	-0.18	-0.14
Three or more children in household	0.37	0.39	0.18	-0.24	-0.19	-0.01	0.15	-0.45
Respondent was parent or partner of parent	2.22	0.24	0.58	1.02	0.79	-0.05	-4.78	1.81
Two parents, one employed full time	-0.19	0.26	-0.18	-0.25	-0.21	-0.02	-0.06	0.37
Two parents, neither employed full time	-0.42	0.05	-0.44	-0.09	-0.07	0.03	0.51	0.18
One parent, employed full time	-2.83	-0.82	-1.38	-0.51	-0.40	0.06	4.72	-0.99
One parent, not employed full time	-2.04	-0.57	-0.92	-0.38	-0.29	0.04	4.73	-1.77
Primary language spoken at home: Spanish	-1.52*	-0.08	-1.15**	-0.19	-0.17	0.03	1.74*	-0.10
Primary language spoken at home: other	-1.18	0.30	-0.90	-0.65*	-0.63*	-0.01	-0.41	1.11
Highest level of parental education: some college	-0.05	-0.06	-0.22	0.25	0.25	0.05**	0.16	-0.15
Highest level of parental education: college or more	-0.30	0.04	-0.25	0.07	0.05	0.03	0.17	0.14

TABLE E.5b (continued)

	Percentage of Food Energy from:									
	Total Fat	Saturated Fat	Monounsaturated Fat	Polyunsaturated Fat	Linoleic Acid	Alpha-linolenic Acid	Carbohydrate	Protein		
Family eats dinner together 5 nights a week or more	-0.12	0.10	-0.13	-0.11	-0.10	0.01	-0.54	0.69**		
School participating in SBP	-0.44	-0.04	-0.15	-0.29	-0.23	-0.00	0.83	-0.31		
School has open-campus policy	-0.45	-0.15	-0.20	-0.12	-0.05	-0.03	0.72	-0.24		
Competitive foods offered during mealtimes	-0.68	-0.68**	-0.11	0.16	0.16	-0.00	1.09	-0.34		
Healthy foods offered in vending machines, snack bars, or school store	0.59	-0.02	0.26	0.34	0.33*	0.00	0.10	-0.60**		
School has recess (elementary and middle schools)	0.16	0.17	-0.09	0.05	0.07	0.01	-0.39	0.33		
School serves urban fringe of city	0.16	0.52*	-0.17	-0.29	-0.31*	0.00	0.16	-0.22		
School serves town	0.06	0.73**	-0.21	-0.57*	-0.51*	-0.04	0.05	-0.02		
School serves rural area	0.00	0.13	-0.13	-0.08	-0.08	-0.00	0.72	-0.63*		
Midwest	-0.20	-0.13	-0.09	0.12	0.09	0.01	-0.00	0.30		
Mountain	-0.17	0.19	-0.15	-0.06	-0.07	0.01	0.44	-0.15		
Northeast	-1.30	0.21	-0.71	-0.57*	-0.56*	-0.01	1.10	0.30		
Southeast	0.58	-0.18	0.49	0.39	0.31	0.04	0.02	-0.50		
Southwest	1.50	0.63	0.74*	0.09	0.01	0.04	-1.85	0.32		
Western	0.55	0.00	0.51	0.18	0.16	0.03	-0.96	0.45		
Tuesday	0.30	-0.32	0.00	0.46*	0.41*	0.04*	-0.52	0.14		
Wednesday	0.36	0.18	0.10	-0.08	-0.05	-0.01	-0.50	0.21		
Thursday	-0.23	-0.36	-0.06	0.10	0.06	0.02	0.55	-0.32		
Friday	-0.16	0.18	-0.04	-0.35	-0.40	-0.02	0.51	-0.40		
Family income imputed	-0.62	-0.25	-0.21	-0.25	-0.21	-0.03	0.76	-0.29		
Parental employment imputed	0.95	-0.43	-0.01	1.19	0.99	0.04	-0.45	-0.30		
Student's height imputed	-2.11*	-0.76	-1.13*	0.01	-0.06	0.01	1.41	0.53		
Open campus imputed	-1.00	-0.65	-0.43	0.13	0.23	-0.05	1.78	-0.43		
Recess imputed	1.13	0.32	0.96	-0.28	-0.21	0.01	-1.45	0.30		
Constant	32.51**	11.97**	12.88**	5.69**	5.07**	0.37*	52.49**	15.57**		
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314		
R-squared	0.057	0.055	0.068	0.068	0.065	0.078	0.053	0.081		

TABLE E.5b (continued)

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.5C

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
SBP Participation	21.00	44.66	4.18	0.42	-0.04	0.47	-7.95	0.03	0.16*	0.07
NSLP Participation	82.22**	106.51**	-0.46	-0.37	-0.03	0.18	-1.25	-0.24	0.16*	0.00
Female	-96.33**	-109.20**	-11.50*	-0.85**	-0.37**	-1.26**	-95.74**	-3.77**	-0.45**	-0.29**
Black, non-Hispanic	-102.12**	-67.06	25.69**	-0.02	-0.05	-0.48	1.75	-0.55	-0.24**	-0.07
Hispanic	-76.22*	-41.47	14.19*	-0.43	0.04	-0.46	23.22	-0.42	-0.11	0.00
Other race, non-Hispanic	-40.04	-3.49	17.65	-0.22	0.10	-0.25	23.58	1.53	-0.03	0.10
Age 7	44.58	90.99	-9.46	0.68	-0.02	-0.28	-14.83	-0.73	-0.15	-0.11
Age 8	-66.17	-28.67	15.63	0.21	-0.06	-0.48	-31.29	-1.62	-0.21	-0.08
Age 9	25.53	108.05	30.72	0.82	0.20	0.19	69.84	1.09	-0.07	0.01
Age 10	-9.26	30.89	11.79	-0.02	0.01	-0.36	-5.49	-1.37	-0.16	-0.07
Age 11	14.68	77.93	16.73	1.20	0.25	0.45	37.87	0.13	-0.05	-0.02
Age 12	24.80	88.61	5.07	1.01	0.18	0.30	-24.42	-0.71	-0.20	-0.17
Age 13	45.80	129.47	42.31	1.15	0.29	0.74	23.57	0.66	-0.05	-0.06
Age 14	-34.64	-0.90	8.55	0.34	0.09	0.51	-46.07	-1.05	-0.16	-0.18
Age 15	64.36	133.44	14.88	1.19	0.37	1.06	17.00	1.85	0.05	0.00
Age 16	-15.69	37.58	11.54	1.96	0.25	0.75	-23.98	0.53	-0.11	-0.06
Age 17	38.66	144.62	28.93	1.46	0.30	0.86	-3.17	1.84	0.07	0.07
Age 18	-10.15	104.54	22.02	0.86	0.28	0.51	-10.97	2.25	-0.09	-0.07
Student eats about the same amount as others	-30.30	-56.98	-8.29	-0.68	-0.09	-0.23	-19.84	-0.75	-0.05	-0.08
Student eats less than others	-54.43	-54.93	6.42	-0.39	-0.19*	-0.67*	-51.92	-1.91*	-0.18*	-0.13
Student somewhat picky eater	33.57	62.76	-1.07	-0.59	-0.05	-0.26	-30.82	-1.43	-0.11	-0.13
Student not picky eater	39.02	99.26*	7.84	-0.32	0.05	-0.16	-0.89	0.28	0.02	0.01
Student's height in feet	33.65	18.17	-15.73	0.21	-0.04	-0.24	34.70	1.45	0.15	0.14
Student has food allergies or special dietary needs	46.73	22.84	-16.54	-0.03	0.12	0.08	0.76	0.77	0.01	-0.03
Student on a diet (middle and high school students)	-78.78**	-86.82*	-2.96	-0.91**	-0.21**	-0.48	-63.33**	-2.40**	-0.22**	-0.11
Student takes dietary supplements	68.74**	109.06**	3.95	0.02	0.03	-0.07	-17.10	-0.03	0.10	0.05
Student in good health (parent report)	-0.68	24.75	10.60	-0.50	-0.04	0.20	33.31	0.32	0.10	0.13

TABLE E.5c (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Student in very good health (parent report)	14.93	27.82	6.59	-0.07	-0.01	0.36	79.86	0.77	0.12	0.19*
Student in excellent health (parent report)	69.37	129.84	16.77	0.34	0.10	0.79*	106.70*	1.78	0.25*	0.28**
Student about as physically active as others	-10.45	-19.99	-0.13	0.29	-0.01	0.01	9.06	0.14	0.02	0.01
Student more physically active than others	0.25	-27.46	-0.00	0.37	-0.06	-0.10	-31.90	0.40	0.04	-0.03
Student much more physically active than others	59.22	46.54	3.22	1.12	0.13	0.47	42.38	1.52	0.20	0.12
Student watches .1-1 hours of TV a day	-85.33	-120.98	6.69	-0.46	-0.05	0.18	-35.25	-0.90	-0.05	0.05
Student watches 1.1-2.9 hours of TV a day	-111.14	-168.84*	0.91	-0.35	-0.22	-0.12	-84.87	-1.52	-0.10	-0.00
Student watches more than 3 hours of TV a day	-126.65*	-201.60**	-7.76	-0.81	-0.21	-0.31	-98.57	-1.55	-0.21	-0.07
Family income 130 to 185% of poverty	58.30	61.88	-13.36	0.37	-0.02	0.08	-24.68	0.05	0.06	-0.02
Family income 185 to 200% of poverty	-39.96	-46.55	-6.42	-0.80*	-0.18*	-0.92**	-50.37	-2.63**	-0.26**	-0.16*
Family income 200 to 300% of poverty	-15.04	26.91	2.76	-0.24	-0.07	-0.64	-11.29	-0.58	-0.10	0.03
Family income >300% of poverty	-27.25	-10.08	-0.32	-0.30	-0.08	-0.62	-26.44	-1.30	-0.21	-0.08
Family receives public assistance	-47.92	-60.59	0.68	-0.04	-0.04	-0.40	-29.44	-0.77	-0.14	-0.07
Two children in household	-28.12	-26.96	-10.03	0.40	-0.08	-0.26	22.17	-0.55	-0.04	-0.08
Three or more children in household	-32.64	-44.51	-8.04	-0.26	-0.08	-0.21	7.39	-0.66	-0.02	-0.04
Respondent was parent or partner of parent	51.39	111.23	-26.50	1.37	-0.27	-1.33	-102.34	0.36	-0.49	-0.33
Two parents, one employed full time	23.16	21.20	-7.45	-0.08	0.01	0.22	36.30	-0.00	0.06	0.02
Two parents, neither employed full time	-23.97	7.90	9.71	-0.03	0.04	-0.16	-15.24	0.60	-0.00	-0.02
One parent, employed full time	-214.89	-296.36*	41.38	-0.43	0.15	0.53	68.04	1.66	0.40	0.18
One parent, not employed full time	-180.13	-242.47	41.17	-0.79	0.12	0.38	59.70	1.36	0.46	0.18
Primary language spoken at home: Spanish	26.75	57.59	7.59	-0.57	0.04	0.25	-10.35	-0.86	0.07	0.05
Primary language spoken at home: other	-37.59	16.20	-7.80	-1.01*	-0.27	-0.15	-83.71	-3.28*	-0.25*	-0.15
Highest level of parental education: some college	-4.77	0.55	-2.09	-0.01	0.05	0.14	22.37	0.27	0.06	0.04
Highest level of parental education: college or more	18.59	37.33	12.91	0.08	0.13	0.41	55.57	0.26	0.17*	0.10

TABLE E.5c (continued)

	Vitamin A (mg RAE)	Vitamin A (mg RE)	Vitamin C (mg)	Vitamin E (mg)	Vitamin B ₆ (mg)	Vitamin B ₁₂ (mcg)	Folate (mcg DFE)	Niacin (mg)	Riboflavin (mg)	Thiamin (mg)
Family eats dinner together 5 nights a week or more	35.49	35.74	-4.19	-0.08	0.05	0.44	27.90	0.58	0.15	0.09
School participating in SBP	-3.80	32.58	7.51	-0.71	0.13	0.16	60.30	0.54	0.02	0.08
School has open-campus policy	-4.13	-16.72	6.61	0.01	0.10	-0.02	75.10	0.70	0.09	0.09
Competitive foods offered during mealtimes	-51.64*	-35.29	10.54	0.07	-0.01	-0.41	30.79	-0.86	-0.16*	-0.05
Healthy foods offered in vending machines, snack bars, or school store	-18.66	-39.90	-6.13	0.22	-0.10	-0.43	-32.17	-1.05	-0.12	-0.08
School has recess (elementary and middle schools)	66.58*	86.85*	-9.47	0.19	-0.03	0.11	7.09	-0.67	0.12	0.02
School serves urban fringe of city	9.41	-25.81	-7.10	-0.32	0.03	0.17	22.12	-0.89	0.02	-0.09
School serves town	-2.20	-55.51	0.63	-0.89	-0.16	0.08	-67.54	-3.98**	-0.16	-0.30**
School serves rural area	-16.65	-38.49	-2.36	-0.20	-0.04	-0.02	43.66	-2.17**	-0.09	-0.06
Midwest	120.47**	84.15	-19.70	-0.56	0.12	0.21	-29.30	0.99	0.22*	0.03
Mountain	75.25	-6.41	-31.73*	-0.90	-0.06	0.00	-40.07	-0.83	0.09	-0.08
Northeast	38.75	14.70	-13.51	-1.22	-0.02	-0.30	-9.91	-1.20	0.17	-0.04
Southeast	-34.69	-112.44	-35.11**	-0.48	-0.19	-1.06*	-167.21**	-1.26	-0.20*	-0.18
Southwest	-34.88	-109.73	-30.09*	-0.27	-0.04	-0.28	-77.34	-0.48	-0.07	-0.11
Western	5.44	-24.21	-23.28	-0.46	-0.16	-0.55	-103.43	-2.08	-0.19	-0.18
Tuesday	-22.52	15.15	4.93	0.66	0.09	0.13	44.11	0.91	-0.06	0.06
Wednesday	20.35	76.14	-1.29	0.82*	0.09	0.58	14.66	0.44	0.06	0.09
Thursday	-30.08	6.79	19.45	0.02	0.17	0.23	47.74	0.82	0.03	0.11
Friday	-54.57	-71.12	-4.12	-0.17	-0.02	0.10	-19.04	-0.87	-0.04	-0.01
Family income imputed	7.79	26.23	9.78	-0.09	-0.09	-0.47	-48.14	-1.57	-0.13	-0.02
Parental employment imputed	-119.45	-148.44	9.38	1.67	-0.19	-0.97*	-119.91	1.95	-0.17	-0.22
Student's height imputed	98.48	136.70	4.11	0.92	0.37	0.60	105.81	3.36	0.27	0.16
Open campus imputed	-68.78	-0.26	13.93	0.46	-0.08	-1.45**	-54.41	0.64	-0.09	0.02
Recess imputed	64.67	-37.88	-3.85	-0.88	0.00	1.02**	28.36	-1.67	0.13	-0.07
Constant	654.20*	891.73*	150.00**	6.06*	2.35**	8.20**	468.36	18.46**	1.94**	1.24*
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314
R-squared	0.134	0.106	0.083	0.077	0.092	0.096	0.085	0.103	0.138	0.108

TABLE E.5c (continued)

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

DFE = Dietary Folate Equivalents.
RAE = Retinol Activity Equivalents.
RE = Retinol Equivalents.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

TABLE E.5D

RESULTS FROM REGRESSION MODELS OF MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
SBP Participation	108.13*	0.52	16.76*	124.59**	231.14**	273.04*	0.74	0.81	-0.07	-9.33
NSLP Participation	157.34**	-0.08	12.35*	124.87**	241.25**	186.51*	0.26	0.70	0.12	-0.16
Female	-201.72**	-2.61**	-39.64**	-251.55**	-421.44**	-548.47**	-2.56**	-1.90**	0.24	-58.02**
Black, non-Hispanic	-169.02**	-0.87	-27.08**	-181.43**	-134.04	-266.55*	-0.75	-1.32*	-0.21	19.52
Hispanic	-63.39	-0.68	-4.38	-46.14	42.19	-52.38	-0.30	-0.09	0.14	3.70
Other race, non-Hispanic	-43.98	0.10	13.27	-5.92	77.61	185.61	0.07	1.29	0.50*	22.58
Age 7	-79.40	-1.44	-2.54	-18.02	-68.38	-133.75	-1.03	-0.30	-0.04	22.19
Age 8	-109.73	-1.56	-6.73	-55.54	-84.65	-67.73	-1.52	-0.03	-0.06	34.85
Age 9	-10.55	0.78	6.86	18.70	78.45	76.10	-0.36	0.52	0.03	65.59*
Age 10	-81.56	-2.64	-14.62	-37.79	-22.35	-198.35	-2.03	-0.98	-0.18	41.81
Age 11	-84.62	-1.07	0.04	2.48	44.71	230.88	-1.09	-0.24	-0.30	137.41
Age 12	-127.97	-1.97	-10.51	-87.35	-57.58	-329.66	-1.46	-0.54	-0.06	60.93
Age 13	-103.91	-1.13	-4.97	-48.74	41.46	-85.11	-0.62	-1.06	-0.61	99.05
Age 14	-114.60	-2.93	-16.93	-30.62	-58.99	-243.35	-0.83	-1.69	-0.53	102.68
Age 15	-105.58	-0.55	-5.56	23.39	21.95	-28.41	-0.82	-0.70	-0.46	111.95
Age 16	-83.04	-1.87	0.00	48.97	99.40	153.13	-0.05	-0.03	-0.19	140.17
Age 17	-95.58	-1.03	14.48	58.30	270.49	127.24	-0.11	0.04	-0.53	130.62
Age 18	-52.40	-1.53	4.90	88.41	212.05	480.03	0.28	-0.51	-0.67	179.19
Student eats about the same amount as others	-35.17	-0.67	-14.06*	-61.71	-183.70**	-174.03	-0.21	-1.24**	-0.17	-8.48
Student eats less than others	-58.40	-1.62*	-14.95	-128.92**	-187.34*	-320.98*	-0.88	-1.76**	-0.29	-39.58**
Student somewhat picky eater	-9.57	-1.17	-8.50	-46.95	-26.87	-215.69	-0.70	-0.05	0.45**	-3.25
Student not picky eater	24.22	-0.23	4.12	35.86	126.71	54.97	-0.04	0.67	0.63**	14.56
Student's height in feet	153.41*	1.74	25.08*	172.36*	166.16	465.47*	1.45	1.48*	-0.03	-32.91
Student has food allergies or special dietary needs	9.15	0.59	14.97	28.85	21.37	-2.04	0.53	0.78	0.75	-14.67
Student on a diet (middle and high school students)	-120.22**	-1.52*	-35.48**	-163.29**	-330.76**	-387.60**	-1.67**	-1.97**	0.18	-28.55**
Student takes dietary supplements	58.39	-0.44	7.10	46.05	110.81	1.34	-0.20	0.59	0.26	0.15
Student in good health (parent report)	-23.43	1.54	1.67	13.58	63.69	4.77	-0.02	0.57	-0.03	1.90

TABLE E.5d (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Student in very good health (parent report)	-25.95	2.22**	-3.28	0.73	40.53	57.57	0.59	0.62	-0.08	2.43
Student in excellent health (parent report)	52.20	2.92**	15.78	88.86	191.37	216.10	1.33	1.53	0.16	18.17
Student about as physically active as others	30.86	-0.00	1.38	36.16	29.82	46.73	-0.20	0.11	0.08	3.15
Student more physically active than others	53.99	-0.05	6.44	74.79	115.66	190.43	-0.13	0.38	0.12	-1.58
Student much more physically active than others	92.12	0.98	19.45	143.91*	173.17	265.48	0.76	0.96	-0.08	23.66
Student watches .1-1 hours of TV a day	11.82	-1.31	-3.05	-5.20	-11.17	80.62	-0.04	-0.58	-0.34	-22.41
Student watches 1.1-2.9 hours of TV a day	-7.22	-1.85	-3.01	9.86	-38.29	153.86	-0.20	-0.62	-0.59	-23.61
Student watches more than 3 hours of TV a day	-95.26	-2.14	-12.59	-66.57	-159.44	116.51	-0.59	-0.84	-0.36	-34.29
Family income 130 to 185% of poverty	4.41	0.63	1.67	29.70	-10.81	75.69	-0.14	-0.05	0.02	2.91
Family income 185 to 200% of poverty	-139.15*	-1.18	-21.29*	-131.67**	-210.07*	-161.99	-1.51**	-0.56	0.17	-26.24
Family income 200 to 300% of poverty	-65.62	-0.09	-7.08	-59.33	-27.16	20.30	-1.14	-0.26	-0.01	-39.89
Family income >300% of poverty	-104.91	-0.67	-14.42	-109.20	-128.31	10.59	-1.13*	-0.15	0.32	-14.02
Family receives public assistance	-67.04	-0.55	-4.32	-48.58	-6.88	48.72	-0.20	-0.01	0.00	-2.59
Two children in household	-53.13	0.07	-5.27	-38.69	-96.92	20.83	-0.00	-0.18	0.07	19.51
Three or more children in household	-48.08	0.46	-7.75	-63.00	-149.87*	27.69	-0.34	-0.12	0.12	4.12
Respondent was parent or partner of parent	-158.35	-7.76*	-31.65	-152.12	-226.86	-724.57	-1.14	-5.33	-1.68	-2.20
Two parents, one employed full time	21.72	0.02	1.03	17.21	-5.80	-107.59	0.75	-0.01	0.26	-14.98
Two parents, neither employed full time	-57.20	0.18	18.37	35.86	215.20	221.22	0.98	1.44	0.56	-1.80
One parent, employed full time	60.80	7.21*	35.78	131.83	345.36	292.79	1.42	4.96	1.17	-16.01
One parent, not employed full time	96.98	6.77	38.30	122.80	341.15	273.03	0.13	5.02	1.02	-51.68
Primary language spoken at home: Spanish	85.23	0.27	5.90	30.51	141.30	-280.07	-0.94	1.55	1.07**	-21.76
Primary language spoken at home: other	-78.63	-1.99*	-34.70**	-112.95*	-80.60	-159.78	-1.17	-1.73*	-0.01	-6.29

TABLE E.5d (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Highest level of parental education: some college	13.40	0.14	-0.17	0.56	14.68	41.60	0.25	-0.14	-0.17	-5.30
Highest level of parental education: college or more	75.90	0.48	8.45	51.93	162.08*	29.56	0.31	0.42	0.08	23.40
Family eats dinner together 5 nights a week or more	80.91*	0.49	12.47	79.01*	144.61*	111.06	0.89	0.76	0.29	7.86
School participating in SBP	30.84	0.86	-4.84	-11.98	41.06	1.38	0.40	0.32	0.07	16.50
School has open-campus policy	38.97	0.96	12.03	18.04	133.38	92.16	0.12	0.61	0.30	21.22
Competitive foods offered during mealtimes	-54.71	-0.08	-10.83	-78.15*	-113.12	-62.22	-1.00**	-0.38	0.14	5.62
Healthy foods offered in vending machines, snack bars, or school store	-69.37	-0.57	-3.00	-58.22	-70.62	-143.26	-0.63	-0.01	-0.02	-25.00
School has recess (elementary and middle schools)	118.74**	-0.02	8.66	73.92	54.86	34.12	0.10	0.77	0.43	5.21
School serves urban fringe of city	-24.90	0.08	-11.89*	-50.61	-101.13	-137.52	0.17	-0.57	-0.05	8.46
School serves town	-20.14	-1.97*	-27.52*	-74.57	-161.04	-301.68	-0.32	-1.59	-0.03	10.08
School serves rural area	-42.04	0.17	-16.07*	-92.43*	-114.93	-186.53*	0.08	-0.33	0.24	3.04
Midwest	54.23	-0.10	15.03	59.34	192.93	-95.01	0.69	1.08	0.45	-44.28
Mountain	-40.82	-0.51	-5.38	-12.02	40.52	-41.46	0.70	0.52	0.41	-51.19
Northeast	10.86	-0.71	3.17	-25.35	78.65	-294.91	0.34	0.60	1.12**	-52.37
Southeast	-158.23*	-2.82*	-16.99	-82.90	-148.18	-221.46	-1.35*	-0.16	0.36	-58.87*
Southwest	-88.97	-0.83	-8.21	-32.46	-62.82	-101.41	0.84	0.36	0.38	-37.49
Western	-125.77	-1.54	-10.23	-123.80	-173.79	-481.99**	-0.35	0.76	1.11**	-72.75**
Tuesday	-50.54	0.69	0.08	-30.10	-37.22	-6.29	0.36	0.14	0.17	3.24
Wednesday	41.73	0.96	10.30	36.55	81.86	75.52	1.29*	0.71	0.40	5.52
Thursday	-19.21	0.74	0.09	-23.41	83.92	-84.89	0.16	0.24	0.14	21.40
Friday	12.38	-0.47	-8.22	12.28	-28.94	-71.16	0.32	-0.58	-0.22	7.32
Family income imputed	-100.08	-0.47	-4.60	-34.19	-28.35	160.65	-0.76	1.13	0.35	10.68
Parental employment imputed	-121.57	-2.11	12.22	-28.54	113.51	-275.24	-1.75	-0.03	-0.61	-10.82
Student's height imputed	70.41	1.98	15.20	94.27	260.19*	57.63	1.96	-0.14	-0.41	-1.45
Open campus imputed	-92.26	-0.23	20.93	-27.14	-63.51	82.02	-0.94	2.43**	1.17**	-19.08
Recess imputed	117.65	-0.02	-7.59	48.33	-72.18	-51.83	1.31	-0.77	-0.40	-1.74

TABLE E.5d (continued)

	Calcium (mg)	Iron (mg)	Magnesium (mg)	Phosphorus (mg)	Potassium (mg)	Sodium (mg)	Zinc (mg)	Fiber (g)	Fiber (g/1,000 kcal)	Cholesterol (mg)
Constant	598.50	10.92	164.56**	755.40*	1,670.40**	1,933.39	7.25*	7.01	6.00**	399.48
Observations	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314	2,314
R-squared	0.151	0.095	0.135	0.16	0.15	0.13	0.121	0.106	0.1	0.102

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

*Significantly different from zero at the .05 level.

**Significantly different from zero at the .01 level.

APPENDIX F

**UNADJUSTED MEAN INTAKES OF SCHOOL MEAL PROGRAM
PARTICIPANTS AND NONPARTICIPANTS**

TABLE F.1a

MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

	Mean Intakes									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Food Energy (kcal)	589	665	619	572	737	654*	626	641		
Macronutrients: Total Amount (g)										
Total fat	21	26	24	23	30	26	24	26		
Saturated fat	7.3	7.9	8.3	7.0*	9.5	8.4	8.0	7.9		
Monounsaturated fat	8.3	10.5*	9.6	9.5	11.6	10.9	9.3	10.5*		
Polysaturated fat	4.3	5.6*	4.6	5.2	6.4	5.3	4.8	5.4		
Linoleic acid	3.8	5.1*	4.1	4.6	5.5	4.6	4.2	4.8		
Alpha-linolenic acid	0.40	0.33*	0.44	0.37	0.62	0.40**	0.45	0.37**		
Carbohydrate	76	88*	77	74	91	85	79	84		
Protein	25	23	24	19**	29	22**	25	22**		
Macronutrients: Percentage of Food Energy from (%)										
Total fat	31.9	32.1	34.5	32.2	35.2	34.3	33.1	33.1		
Saturated fat	11.1	10.2	11.9	10.1**	11.6	11.0	11.3	10.5*		
Monounsaturated fat	12.4	12.9	13.7	13.2	13.7	14.1	12.9	13.5		
Polysaturated fat	6.4	6.8	6.6	6.9	7.5	7.0	6.7	6.9		
Linoleic acid	5.7	6.0	5.7	6.1	6.5	6.2	5.9	6.1		
Alpha-linolenic acid	0.60	0.44**	0.63	0.52*	0.74	0.52**	0.63	0.49**		
Carbohydrate	52.4	55.9*	50.4	56.6**	49.5	54.3**	51.4	55.4**		
Protein	17.0	13.7**	16.1	12.6**	16.0	12.7**	16.6	13.1**		
Vitamins										
Vitamin A (mcg RAE)	201	101**	183	89**	185	92**	194	95**		
Vitamin C (mg)	20	26	18	21	25	19*	21	22		
Vitamin E (mg)	1.7	2.2*	1.9	2.2	2.2	2.2	1.8	2.2**		
Vitamin B ₆ (mg)	0.42	0.39	0.41	0.35*	0.51	0.43**	0.44	0.40*		
Vitamin B ₁₂ (mcg)	1.4	0.9**	1.5	0.8**	1.5	1.0**	1.5	0.9**		
Folate (mcg DFE)	115	123	120	106	137	128	121	122		
Niacin (mg)	5.7	6.3	5.5	5.5	7.0	6.5	5.9	6.2		
Riboflavin (mg)	0.71	0.57**	0.68	0.45**	0.75	0.48**	0.71	0.51**		
Thiamin (mg)	0.40	0.42	0.42	0.39	0.50	0.42*	0.43	0.42		

TABLE F.1a (continued)

	Mean Intakes									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
	Minerals									
Calcium (mg)	409	265**	393	221**	410	241**	406	246**		
Iron (mg)	3.6	3.7	3.7	3.1**	4.3	3.7**	3.8	3.6		
Magnesium (mg)	80	82	77	66*	85	69**	80	73*		
Phosphorus (mg)	458	380*	456	323**	506	360**	468	360**		
Potassium (mg)	849	706**	815	565**	947	636**	863	647**		
Sodium (mg)	1,061	1,026	1,058	946	1,350	1,085**	1,121	1,035		
Zinc (mg)	3.1	2.8	3.3	2.4**	3.6	2.9*	3.3	2.8**		
	Other Dietary Components									
Fiber (g)	4.7	4.6	4.3	3.7**	4.8	4.2*	4.7	4.2*		
Fiber (g/1,000 kcal)	8.3	7.9	7.2	7.1	6.7	6.8	7.7	7.3		
Cholesterol (mg)	56	80~	54	39**	70	54*	59	60		
Number of Students	531	189	497	259	358	394	1,386	842		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

* Difference between participants and nonparticipants is significantly different from zero at the .05 level.

** Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.1b

MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	671	621*
Macronutrients: Total Amount (g)		
Total fat	27	25
Saturated fat	8.7	8.0
Monounsaturated fat	10.5	10.5
Polyunsaturated fat	5.5	5.2
Linoleic acid	4.7	4.5
Linolenic acid	0.53	0.39**
Carbohydrate	84	79
Protein	26	21**
Macronutrients: Percentage of Food Energy from (%)		
Total fat	35.0	33.5
Saturated fat	11.7	10.7**
Monounsaturated fat	13.8	13.8
Polyunsaturated fat	7.1	6.8
Linoleic acid	6.2	5.9
Linolenic acid	0.68	0.52**
Carbohydrate	49.7	55.3**
Protein	16.2	12.6**
Vitamins		
Vitamin A (mcg RAE)	179	95**
Vitamin C (mg)	22	19
Vitamin E (mg)	2.1	2.2
Vitamin B ₆ (mg)	0.46	0.40**
Vitamin B ₁₂ (mcg)	1.5	1.0**
Folate (mcg DFE)	128	114*
Niacin (mg)	6.3	5.9
Riboflavin (mg)	0.72	0.47**
Thiamin (mg)	0.46	0.41**
Minerals		
Calcium (mg)	393	238**
Iron (mg)	4.0	3.4**
Magnesium (mg)	81	68**
Phosphorus (mg)	474	350**
Potassium (mg)	863	620**
Sodium (mg)	1,187	1,009**
Zinc (mg)	3.4	2.8**
Other Dietary Components		
Fiber (g)	4.5	3.9**
Fiber (g/1,000 kcal)	6.9	6.8
Cholesterol (mg)	59	51
Number of Students	855	653

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.2a

MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Mean Percentage of Daily Intakes											
	Elementary School Students		Middle School Students		High School Students		All Students					
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Food Energy (kcal)	30	31	32	30	33	30*	31	31	31	31	31	31
Macronutrients												
Total fat	32	34	35	33	36	32*	33	33	33	33	33	33
Saturated fat	32	31	34	30**	35	30**	33	33	33	33	31*	31*
Monounsaturated fat	33	35	37	35	37	34	34	34	34	34	35	35
Polysaturated fat	33	36	35	34	38	35	35	35	35	35	35	35
Linoleic acid	33	36	35	35	37	35	35	35	35	35	35	35
Alpha-linolenic acid	34	30	37	31*	41	31**	36	36	36	36	31**	31**
Carbohydrate	29	30	30	29	31	30	29	29	29	29	30	30
Protein	35	30*	35	29**	36	29**	35	35	35	35	29**	29**
Vitamins												
Vitamin A	35	16**	33	20**	37	20**	35	35	35	35	19**	19**
Vitamin C	28	29	27	26	34	25**	29	29	29	27	27	27
Vitamin E	32	34	34	33	35	33	33	33	33	33	33	33
Vitamin B ₆	28	23**	29	25**	32	25**	29	29	29	29	24**	24**
Vitamin B ₁₂	33	18**	33	20**	35	22**	33	33	33	33	20**	20**
Folate	25	22	27	25	29	25*	26	26	26	26	24*	24*
Niacin	30	28	30	29	32	30	31	31	31	29	29	29
Riboflavin	33	25**	33	25**	35	24**	33	33	33	33	25**	25**
Thiamin	28	25	30	27*	31	27**	29	29	29	29	26**	26**
Minerals												
Calcium	38	26**	38	26**	41	25**	39	39	39	39	25**	25**
Iron	28	24*	29	26*	30	26**	28	28	28	28	25**	25**
Magnesium	34	31	33	29**	35	28**	34	34	34	34	29**	29**
Phosphorus	35	28**	36	28**	36	27**	35	35	35	35	28**	28**
Potassium	35	30**	35	28**	38	26**	36	36	36	36	28**	28**
Sodium	33	32	34	32	37	31**	34	34	34	34	31**	31**
Zinc	31	25*	32	25**	33	26**	31	31	31	31	26**	26**

TABLE F.2a (continued)

	Mean Percentage of Daily Intakes							
	Elementary School Students		Middle School Students		High School Students		All Students	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Fiber	35	33	35	32*	37	30**	36	31**
Cholesterol	31	23**	32	23**	34	26**	32	24**
Number of Students	531	189	497	259	358	394	1,386	842

Other Dietary Components

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.2b

MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH,
SECONDARY SCHOOL STUDENTS

	Mean Percentage of Daily Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	32	30*
Macronutrients		
Total fat	36	33**
Saturated fat	35	30**
Monounsaturated fat	37	34*
Polyunsaturated fat	37	34
Linoleic acid	36	35
Linolenic acid	39	31**
Carbohydrate	30	30
Protein	36	29**
Vitamins		
Vitamin A	36	20**
Vitamin C	31	26**
Vitamin E	35	33
Vitamin B ₆	30	25**
Vitamin B ₁₂	34	21**
Folate	28	25*
Niacin	31	29
Riboflavin	34	24**
Thiamin	31	27**
Minerals		
Calcium	39	25**
Iron	30	26**
Magnesium	34	28**
Phosphorus	36	28**
Potassium	37	27**
Sodium	36	31**
Zinc	32	26**
Other Dietary Components		
Fiber	36	31**
Cholesterol	33	25**
Number of Students	855	653

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of NSLP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.3a

MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

	Mean Intakes									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Food Energy (kcal)	2,048	2,075	2,102	1,905**	2,389	2,160*	2,130	2,076		
Macronutrients: Total Amount (g)										
Total fat	73	73	76	69*	89	81*	77	75		
Saturated fat	25.5	25.1	26.7	22.9**	29.8	27.9	26.6	25.8		
Monounsaturated fat	27.7	28.1	29.3	26.6*	34.6	31.3	29.5	29.2		
Polysaturated fat	14.1	14.5	14.7	14.1	18.0	15.4*	15.1	14.8		
Linoleic acid	12.5	12.9	12.9	12.5	15.8	13.5*	13.3	13.1		
Alpha-linolenic acid	1.2	1.1**	1.3	1.1*	1.6	1.3**	1.3	1.2**		
Carbohydrate	280	288	283	262*	315	288*	288	283		
Protein	74	74	77	65**	87	77**	78	73*		
Macronutrients: Percentage of Food Energy from (%)										
Total fat	31.4	31.3	32.3	31.6	33.2	32.5	31.9	31.9		
Saturated fat	11.1	10.8	11.4	10.5**	11.0	11.2	11.1	10.9		
Monounsaturated fat	12.0	12.1	12.4	12.3	12.8	12.5	12.3	12.3		
Polysaturated fat	6.1	6.2	6.1	6.4	6.7	6.4	6.2	6.3		
Linoleic acid	5.4	5.5	5.4	5.7	5.9	5.6	5.5	5.6		
Alpha-linolenic acid	0.53	0.47**	0.53	0.51	0.59	0.53	0.55	0.51*		
Carbohydrate	55.0	55.5	54.1	55.5*	53.0	54.5	54.4	55.1		
Protein	14.7	14.3	14.7	14.0*	14.8	14.3	14.7	14.3		
Vitamins										
Vitamin A (mcg RAE)	655	660	637	514**	623	555	645	584*		
Vitamin C (mg)	93	93	86	88	91	94	91	92		
Vitamin E (mg)	5.7	6.6	6.0	6.1	6.9	6.8	6.0	6.6		
Vitamin B ₆ (mg)	1.7	1.9	1.8	1.6*	1.9	1.9	1.7	1.8		
Vitamin B ₁₂ (mcg)	5.1	5.5	5.6	4.5**	5.5	5.2	5.3	5.2		
Folate (mcg DFE)	554	680*	578	502	617	606	572	611		
Niacin (mg)	20.4	23.2*	21.4	19.1*	24.4	23.6	21.4	22.5		
Riboflavin (mg)	2.4	2.4	2.3	1.9**	2.4	2.2	2.4	2.2		
Thiamin (mg)	1.6	1.8	1.6	1.5	1.8	1.7	1.6	1.7		

TABLE F.3a (continued)

	Mean Intakes							
	Elementary School Students		Middle School Students		High School Students		All Students	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
	Minerals							
Calcium (mg)	1,170	1,061*	1,139	873**	1,118	992*	1,153	992**
Iron (mg)	14.8	16.6	15.1	13.4*	16.5	16.3	15.2	15.8
Magnesium (mg)	252	257	249	219**	271	253	255	247
Phosphorus (mg)	1,386	1,326	1,393	1,155**	1,503	1,335**	1,412	1,294**
Potassium (mg)	2,562	2,401*	2,502	2,102**	2,733	2,450**	2,586	2,359**
Sodium (mg)	3,345	3,253	3,371	3,012**	3,876	3,495*	3,461	3,307
Zinc (mg)	11.0	11.7	12.0	10.0**	12.9	12.1	11.6	11.5
	Other Dietary Components							
Fiber (g)	14.4	14.2	13.7	12.0**	14.6	14.0	14.3	13.6*
Fiber (g/1,000 kcal)	7.1	6.9	6.7	6.4	6.2	6.8*	6.8	6.8
Cholesterol (mg)	201	227	206	180*	246	224	211	216
Number of Students	531	201	497	290	358	437	1,386	928

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.3b

MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	2,250	2,076**
Macronutrients: Total Amount (g)		
Total fat	83	77*
Saturated fat	28.3	26.3
Monounsaturated fat	32.0	29.7
Polyunsaturated fat	16.4	15.0
Linoleic acid	14.4	13.1*
Linolenic acid	1.4	1.2**
Carbohydrate	300	280*
Protein	82	73**
Macronutrients: Percentage of Food Energy from (%)		
Total fat	32.7	32.2
Saturated fat	11.2	11.0
Monounsaturated fat	12.6	12.5
Polyunsaturated fat	6.4	6.4
Linoleic acid	5.7	5.6
Linolenic acid	0.56	0.53
Carbohydrate	53.5	54.8
Protein	14.8	14.2
Vitamins		
Vitamin A (mcg RAE)	630	542**
Vitamin C (mg)	89	92
Vitamin E (mg)	6.5	6.6
Vitamin B ₆ (mg)	1.8	1.8
Vitamin B ₁₂ (mcg)	5.5	5.0*
Folate (mcg DFE)	598	572
Niacin (mg)	23.0	22.1
Riboflavin (mg)	2.4	2.1**
Thiamin (mg)	1.7	1.6
Minerals		
Calcium (mg)	1,128	953**
Iron (mg)	15.8	15.4
Magnesium (mg)	261	242*
Phosphorus (mg)	1,450	1,276**
Potassium (mg)	2,621	2,336**
Sodium (mg)	3,632	3,337*
Zinc (mg)	12.4	11.4*
Other Dietary Components		
Fiber (g)	14.1	13.3
Fiber (g/1,000 kcal)	6.4	6.7
Cholesterol (mg)	226	210
Number of Students	855	727

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.4a

MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

	Mean Intakes									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Food Energy (kcal)	468	412	396	411	522	422*	464	415*		
Macronutrients: Total Amount (g)										
Total fat	13	11	13	11	16	12*	14	11*		
Saturated fat	4.8	4.3	4.3	4.5	5.4	4.4	4.8	4.3		
Monounsaturated fat	5.0	4.0*	5.0	4.1	6.4	4.2**	5.2	4.1**		
Polyunsaturated fat	2.7	2.1	2.5	2.0	3.1	2.1**	2.7	2.1**		
Linoleic acid	2.5	1.9	2.2	1.8	2.8	1.9**	2.5	1.9**		
Alpha-linolenic acid	0.22	0.18	0.20	0.17	0.23	0.16**	0.22	0.17**		
Carbohydrate	74	67	60	66	79	69	72	68		
Protein	14	12**	12	12	16	13	14	12**		
Macronutrients: Percentage of Food Energy from (%)										
Total fat	24.2	23.6	26.2	23.4*	26.7	21.6**	25.0	22.9*		
Saturated fat	8.9	9.2	9.1	9.4	8.9	8.3	9.0	9.0		
Monounsaturated fat	8.9	8.4	10.3	8.2**	10.4	7.5**	9.4	8.1**		
Polyunsaturated fat	4.7	4.4	5.1	4.1**	5.2	3.8**	4.9	4.2*		
Linoleic acid	4.3	4.0	4.6	3.6**	4.7	3.5**	4.4	3.8*		
Alpha-linolenic acid	0.39	0.38	0.43	0.35*	0.39	0.31**	0.39	0.35*		
Carbohydrate	64.2	65.8	63.1	66.4*	62.5	70.2**	63.7	67.3**		
Protein	12.6	11.6*	12.1	11.7	11.9	11.1	12.4	11.5**		
Vitamins										
Vitamin A (mcg RAE)	205	236	177	247**	210	227	201	235*		
Vitamin C (mg)	30	29	28	27	36	26	31	28		
Vitamin E (mg)	1.0	1.1	0.8	1.0	1.2	1.2	1.0	1.1		
Vitamin B ₆ (mg)	0.44	0.61**	0.38	0.64**	0.50	0.62	0.44	0.62**		
Vitamin B ₁₂ (mcg)	1.6	1.8	1.5	2.1**	1.4	1.8*	1.5	1.9**		
Folate (mcg DFE)	171	237**	141	275**	213	252	173	249**		
Niacin (mg)	4.7	5.6*	4.1	6.1**	5.6	5.9	4.7	5.8**		
Riboflavin (mg)	0.74	0.77	0.65	0.84**	0.74	0.79	0.72	0.79		
Thiamin (mg)	0.45	0.53	0.43	0.56**	0.56	0.55	0.47	0.54*		

TABLE F.4a (continued)

	Mean Intakes							
	Elementary School Students		Middle School Students		High School Students		All Students	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
	Minerals							
Calcium (mg)	349	319	311	322	326	284	338	309
Iron (mg)	4.4	5.3	3.7	5.8**	5.1	5.8	4.4	5.5**
Magnesium (mg)	59	54	46	53*	61	60	57	56
Phosphorus (mg)	362	310	317	318	373	320	356	315*
Potassium (mg)	637	528*	538	525	633	540*	619	531*
Sodium (mg)	616	539	573	524	826	544**	644	537*
Zinc (mg)	2.8	3.1	2.4	3.3**	3.0	3.1	2.8	3.1
	Other Dietary Components							
Fiber (g)	2.7	2.7	1.9	2.3*	2.8	2.9	2.6	2.7
Fiber (g/1,000 kcal)	5.6	6.4*	5.0	5.8	5.1	7.8**	5.4	6.7**
Cholesterol (mg)	33	44*	30	48**	50	43	36	45*
Number of Students	160	510	127	495	94	550	381	1,555

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.4b

MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	458	418
Macronutrients: Total Amount (g)		
Total fat	14	12*
Saturated fat	4.9	4.4
Monounsaturated fat	5.7	4.1**
Polyunsaturated fat	2.8	2.0**
Linoleic acid	2.5	1.8**
Linolenic acid	0.22	0.16**
Carbohydrate	69	68
Protein	14	12
Macronutrients: Percentage of Food Energy from (%)		
Total fat	26.4	22.3**
Saturated fat	9.0	8.7
Monounsaturated fat	10.3	7.7**
Polyunsaturated fat	5.1	3.9**
Linoleic acid	4.7	3.5**
Linolenic acid	0.41	0.32**
Carbohydrate	62.8	68.8**
Protein	12.0	11.3
Vitamins		
Vitamin A (mcg RAE)	193	235*
Vitamin C (mg)	32	27
Vitamin E (mg)	1.0	1.1
Vitamin B ₆ (mg)	0.44	0.63**
Vitamin B ₁₂ (mcg)	1.4	1.9**
Folate (mcg DFE)	176	261**
Niacin (mg)	4.8	6.0**
Riboflavin (mg)	0.70	0.81*
Thiamin (mg)	0.49	0.55
Minerals		
Calcium (mg)	318	299
Iron (mg)	4.4	5.8**
Magnesium (mg)	53	57
Phosphorus (mg)	345	319
Potassium (mg)	585	534
Sodium (mg)	697	536*
Zinc (mg)	2.7	3.2
Other Dietary Components		
Fiber (g)	2.4	2.7
Fiber (g/1,000 kcal)	5.1	7.0**
Cholesterol (mg)	40	45
Number of Students	221	1,045

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.5a

MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY BREAKFAST: SBP PARTICIPANTS AND NONPARTICIPANTS

	Mean Percentage of Daily Intakes									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Food Energy (kcal)	22	20*	20	20	22	19	22	19**	22	19**
Macronutrients										
Total fat	18	16	18	16	20	14**	18	15**	18	15**
Saturated fat	19	17	18	18	20	15*	19	17*	19	17*
Monounsaturated fat	18	15*	17	15	20	13**	18	14**	18	14**
Polysaturated fat	19	15*	18	15*	20	13**	19	15**	19	15**
Linoleic acid	19	16*	19	15	21	14**	19	15**	19	15**
Alpha-linolenic acid	18	16	18	15	18	13*	18	15*	18	15*
Carbohydrate	26	23*	23	23	25	23	25	23*	25	23*
Protein	19	16*	18	17	20	16*	19	16**	19	16**
Vitamins										
Vitamin A	33	33	34	37	33	33	33	34	33	34
Vitamin C	30	25	31	25	32	24*	31	24*	31	24*
Vitamin E	18	15	16	17	19	16*	18	16	18	16
Vitamin B ₆	27	30	24	31**	25	28	26	29*	26	29*
Vitamin B ₁₂	30	31	30	34	29	28	30	30	30	30
Folate	29	32	30	35*	33	31	30	33	30	33
Niacin	24	24	23	26	24	22	23	24	23	24
Riboflavin	30	29	31	33	31	30	30	30	30	30
Thiamin	28	29	30	31	31	28	29	29	29	29
Minerals										
Calcium	28	26	30	29	29	25	29	26	29	26
Iron	28	30	27	30	29	28	28	29	28	29
Magnesium	23	20	20	21	22	21	22	21	22	21
Phosphorus	25	22*	24	23	26	21	25	22**	25	22**
Potassium	24	20*	23	21	24	21*	24	21**	24	21**
Sodium	19	16	18	17	20	15*	19	16**	19	16**
Zinc	24	24	22	24	22	22	24	23	24	23

TABLE F.5a (continued)

	Mean Percentage of Daily Intakes							
	Elementary School Students		Middle School Students		High School Students		All Students	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Fiber	18	18	17	17	19	19	18	18
Cholesterol	18	18	16	19	22	14*	18	17
Number of Students	160	510	127	495	94	550	381	1,555

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.5b

MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH,
SECONDARY SCHOOL STUDENTS

	Mean Percentages of Daily Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	21	19
Macronutrients		
Total fat	19	15**
Saturated fat	19	16*
Monounsaturated fat	18	13**
Polyunsaturated fat	19	14**
Linoleic acid	20	14**
Linolenic acid	18	14**
Carbohydrate	24	23
Protein	19	16*
Vitamins		
Vitamin A	33	35
Vitamin C	31	24*
Vitamin E	17	16
Vitamin B ₆	25	29*
Vitamin B ₁₂	29	30
Folate	32	33
Niacin	23	24
Riboflavin	31	31
Thiamin	30	29
Minerals		
Calcium	30	26*
Iron	28	29
Magnesium	21	21
Phosphorus	25	22
Potassium	23	21*
Sodium	19	16*
Zinc	22	23
Other Dietary Components		
Fiber	18	18
Cholesterol	19	16
Number of Students	221	1,045

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of SBP participants include all foods consumed, including those that may have been brought from home or obtained in school from sources other than the reimbursable meal.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.6a

MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

	Mean Intakes									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Food Energy (kcal)	2,156	2,026	2,186	1,994	2,567	2,226*	2,230	2,083**		
Macronutrients: Total Amount (g)										
Total fat	78	71	81	72	93	83	81	75*		
Saturated fat	27.1	24.9	27.5	24.8	30.7	28.5	27.8	26.0		
Monounsaturated fat	29.6	27.3	31.7	27.6*	37.1	32.2	31.2	28.9*		
Polysaturated fat	15.3	13.9	16.3	14.1	18.7	16.3	16.0	14.7		
Linoleic acid	13.6	12.3	14.4	12.5	16.5	14.3	14.2	13.0*		
Alpha-linolenic acid	1.3	1.1**	1.3	1.2	1.6	1.4	1.4	1.2**		
Carbohydrate	290	280	294	271	346	295*	300	283*		
Protein	80	73*	76	71	91	80	81	75**		
Macronutrients: Percentage of Food Energy from (%)										
Total fat	31.8	31.3	33.3	31.8*	31.8	32.9	32.0	31.9		
Saturated fat	11.1	11.0	11.2	11.0	10.4	11.2**	11.0	11.1		
Monounsaturated fat	12.2	12.0	13.0	12.2*	12.5	12.7	12.4	12.3		
Polysaturated fat	6.2	6.1	6.7	6.2	6.6	6.5	6.4	6.2		
Linoleic acid	5.5	5.4	5.9	5.5	5.8	5.7	5.6	5.5		
Alpha-linolenic acid	0.54	0.51	0.56	0.52	0.57	0.56	0.55	0.53		
Carbohydrate	54.5	55.3	53.9	54.8	54.4	53.8	54.4	54.7		
Protein	14.8	14.6	14.0	14.5	14.6	14.5	14.6	14.5		
Vitamins										
Vitamin A (mcg RAE)	633	664	578	590	640	578	625	621		
Vitamin C (mg)	99	91	84	87	117	90	99	90		
Vitamin E (mg)	6.1	5.9	6.5	5.9	7.0	6.8	6.3	6.2		
Vitamin B ₆ (mg)	1.7	1.8	1.6	1.7	2.0	1.9	1.7	1.8		
Vitamin B ₁₂ (mcg)	5.7	5.1	5.2	5.1	5.5	5.3	5.6	5.2		
Folate (mcg DFE)	547	601	489	558	689	602	561	593		
Niacin (mg)	20.9	21.2	20.6	20.5	25.1	23.8	21.5	21.9		
Riboflavin (mg)	2.4	2.3	2.2	2.2	2.5	2.3	2.4	2.3*		
Thiamin (mg)	1.7	1.6	1.5	1.6	2.0	1.7	1.7	1.7		

TABLE F.6a (continued)

	Mean Intakes							
	Elementary School Students		Middle School Students		High School Students		All Students	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
	Minerals							
Calcium (mg)	1,237	1,111*	1,059	1,028	1,170	1,033	1,195	1,069**
Iron (mg)	15.4	15.3	14.0	14.5	18.2	16.2	15.6	15.4
Magnesium (mg)	263	250	251	235	283	259	264	250
Phosphorus (mg)	1,472	1,339*	1,387	1,282	1,556	1,392	1,472	1,344**
Potassium (mg)	2,731	2,454**	2,535	2,308	2,910	2,536*	2,727	2,450**
Sodium (mg)	3,482	3,271	3,424	3,193	4,382	3,582**	3,623	3,355*
Zinc (mg)	11.9	11.0	11.0	11.2	14.0	12.2	12.1	11.4
	Other Dietary Components							
Fiber (g)	14.9	14.2	13.9	12.8	15.9	14.0	14.9	13.9*
Fiber (g/1,000 kcal)	6.9	7.1	6.5	6.6	6.3	6.6	6.7	6.8
Cholesterol (mg)	201	210	205	194	253	232	211	214
Number of Students	160	572	127	660	94	701	381	1,933

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE F.6b

MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	2,374	2,135*
Macronutrients: Total Amount (g)		
Total fat	87	79
Saturated fat	29.1	27.1
Monounsaturated fat	34.4	30.4*
Polyunsaturated fat	17.5	15.5
Linoleic acid	15.5	13.6*
Linolenic acid	1.5	1.3
Carbohydrate	320	286*
Protein	83	77
Macronutrients: Percentage of Food Energy from (%)		
Total fat	32.6	32.4
Saturated fat	10.8	11.1
Monounsaturated fat	12.8	12.5
Polyunsaturated fat	6.6	6.4
Linoleic acid	5.9	5.6
Linolenic acid	0.56	0.54
Carbohydrate	54.1	54.2
Protein	14.3	14.5
Vitamins		
Vitamin A (mcg RAE)	609	583
Vitamin C (mg)	100	89
Vitamin E (mg)	6.8	6.5
Vitamin B ₆ (mg)	1.8	1.8
Vitamin B ₁₂ (mcg)	5.4	5.2
Folate (mcg DFE)	587	585
Niacin (mg)	22.8	22.5
Riboflavin (mg)	2.4	2.2
Thiamin (mg)	1.8	1.7
Minerals		
Calcium (mg)	1,114	1,031
Iron (mg)	16.1	15.5
Magnesium (mg)	267	249
Phosphorus (mg)	1,470	1,349
Potassium (mg)	2,719	2,447*
Sodium (mg)	3,895	3,429*
Zinc (mg)	12.5	11.8
Other Dietary Components		
Fiber (g)	14.9	13.6
Fiber (g/1,000 kcal)	6.4	6.6
Cholesterol (mg)	228	217
Number of Students	221	1,361

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

APPENDIX G

REGRESSION-ADJUSTED MEAN INTAKES OF SECONDARY SCHOOL STUDENTS

TABLE G.1

REGRESSION-ADJUSTED MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Regression-Adjusted Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	671	621*
Macronutrients: Total Amount (g)		
Total fat	27	25
Saturated fat	8.7	8.0
Monounsaturated fat	10.5	10.5
Polyunsaturated fat	5.5	5.2
Linoleic acid	4.7	4.5
Linolenic acid	0.52	0.38**
Carbohydrate	84	79
Protein	26	21**
Macronutrients: Percentage of Food Energy from (%)		
Total fat	35.0	33.5
Saturated fat	11.7	10.7**
Monounsaturated fat	13.8	13.8
Polyunsaturated fat	7.1	6.8
Linoleic acid	6.2	5.9
Linolenic acid	0.69	0.50**
Carbohydrate	49.7	55.3**
Protein	16.2	12.6**
Vitamins		
Vitamin A (mcg RAE)	179	95**
Vitamin C (mg)	22	19
Vitamin E (mg)	2.1	2.2
Vitamin B ₆ (mg)	0.46	0.40**
Vitamin B ₁₂ (mcg)	1.5	1.0**
Folate (mcg DFE)	128	114*
Niacin (mg)	6.3	5.9
Riboflavin (mg)	0.70	0.47**
Thiamin (mg)	0.46	0.40**
Minerals		
Calcium (mg)	393	238**
Iron (mg)	4.0	3.4**
Magnesium (mg)	81	68**
Phosphorus (mg)	474	350**
Potassium (mg)	863	620**
Sodium (mg)	1,187	1,009**
Zinc (mg)	3.4	2.8**
Other Dietary Components		
Fiber (g)	4.5	3.9**
Fiber (g/1,000 kcal)	6.9	6.8
Cholesterol (mg)	59	51
Number of Students	855	653

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: All mean estimates have been regression-adjusted for differences in personal, family, and school characteristics between NSLP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics described in Appendix E.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE G.2

REGRESSION-ADJUSTED MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH,
SECONDARY SCHOOL STUDENTS

	Regression-Adjusted Mean Percentage of Daily Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	32	30**
Macronutrients		
Total fat	36	32**
Saturated fat	35	30**
Monounsaturated fat	37	34*
Polyunsaturated fat	37	34*
Linoleic acid	37	34*
Linolenic acid	40	30**
Carbohydrate	30	29
Protein	36	29**
Vitamins		
Vitamin A	35	20**
Vitamin C	30	26*
Vitamin E	35	33
Vitamin B ₆	30	25**
Vitamin B ₁₂	34	22**
Folate	28	25**
Niacin	31	29*
Riboflavin	34	24**
Thiamin	31	26**
Minerals		
Calcium	39	26**
Iron	30	26**
Magnesium	34	29**
Phosphorus	36	28**
Potassium	36	28**
Sodium	36	31**
Zinc	32	26**
Other Dietary Components		
Fiber	36	31**
Cholesterol	33	25**
Number of Students	855	653

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: All mean estimates have been regression-adjusted for differences in personal, family, and school characteristics between NSLP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics described in Appendix E.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE G.3

REGRESSION-ADJUSTED MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Regression-Adjusted Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	2,227	2,066**
Macronutrients: Total Amount (g)		
Total fat	82	77
Saturated fat	27.9	26.3
Monounsaturated fat	31.7	29.8
Polyunsaturated fat	16.2	14.9*
Linoleic acid	14.2	13.1*
Linolenic acid	1.4	1.2**
Carbohydrate	297	277*
Protein	81	73**
Macronutrients: Percentage of Food Energy from (%)		
Total fat	32.6	32.3
Saturated fat	11.2	11.0
Monounsaturated fat	12.6	12.5
Polyunsaturated fat	6.4	6.3
Linoleic acid	5.7	5.6
Linolenic acid	0.56	0.52*
Carbohydrate	53.6	54.7
Protein	14.8	14.2*
Vitamins		
Vitamin A (mcg RAE)	622	532**
Vitamin C (mg)	90	90
Vitamin E (mg)	6.5	6.4
Vitamin B ₆ (mg)	1.8	1.8
Vitamin B ₁₂ (mcg)	5.5	5.0
Folate (mcg DFE)	601	549
Niacin (mg)	23.0	21.6*
Riboflavin (mg)	2.3	2.1**
Thiamin (mg)	1.7	1.6*
Minerals		
Calcium (mg)	1,113	944**
Iron (mg)	15.8	15.0
Magnesium (mg)	260	236**
Phosphorus (mg)	1,430	1,266**
Potassium (mg)	2,588	2,303**
Sodium (mg)	3,581	3,309*
Zinc (mg)	12.3	11.5
Other Dietary Components		
Fiber (g)	14.0	13.0*
Fiber (g/1,000 kcal)	6.4	6.5
Cholesterol (mg)	223	212
Number of Students	899	683

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: All mean estimates have been regression-adjusted for differences in personal, family, and school characteristics between NSLP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics described in Appendix E.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE G.4

REGRESSION-ADJUSTED MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Regression-Adjusted Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	454	416
Macronutrients: Total Amount (g)		
Total fat	14	12*
Saturated fat	4.8	4.5
Monounsaturated fat	5.6	4.1**
Polyunsaturated fat	2.8	2.0**
Linoleic acid	2.5	1.8**
Linolenic acid	0.21	0.16**
Carbohydrate	69	67
Protein	14	12
Macronutrients: Percentage of Food Energy from (%)		
Total fat	26.3	22.5**
Saturated fat	9.1	8.9
Monounsaturated fat	10.2	7.8**
Polyunsaturated fat	5.2	3.9**
Linoleic acid	4.7	3.5**
Linolenic acid	0.41	0.33**
Carbohydrate	62.3	68.6**
Protein	12.5	11.3**
Vitamins		
Vitamin A (mcg RAE)	202	235
Vitamin C (mg)	32	27
Vitamin E (mg)	1.1	1.1
Vitamin B ₆ (mg)	0.45	0.63**
Vitamin B ₁₂ (mcg)	1.5	2.0*
Folate (mcg DFE)	177	260**
Niacin (mg)	5.0	6.0*
Riboflavin (mg)	0.72	0.81
Thiamin (mg)	0.51	0.55
Minerals		
Calcium (mg)	333	299
Iron (mg)	4.7	5.6
Magnesium (mg)	55	55
Phosphorus (mg)	349	316
Potassium (mg)	589	529
Sodium (mg)	696	530*
Zinc (mg)	2.9	3.2
Other Dietary Components		
Fiber (g)	2.5	2.5
Fiber (g/1,000 kcal)	5.6	6.6
Cholesterol (mg)	39	47
Number of Students	221	1,045

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: All mean estimates have been regression-adjusted for differences in personal, family, and school characteristics between SBP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics described in Appendix E.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE G.5

REGRESSION-ADJUSTED MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH,
SECONDARY SCHOOL STUDENTS

	Regression-Adjusted Mean Percentage of Daily Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	22	19**
Macronutrients		
Total fat	19	14**
Saturated fat	19	16*
Monounsaturated fat	19	13**
Polyunsaturated fat	20	14**
Linoleic acid	20	14**
Linolenic acid	19	14**
Carbohydrate	24	23
Protein	20	16**
Vitamins		
Vitamin A	36	35
Vitamin C	33	24**
Vitamin E	18	16
Vitamin B ₆	26	29
Vitamin B ₁₂	31	30
Folate	33	33
Niacin	24	24
Riboflavin	33	31
Thiamin	32	29
Minerals		
Calcium	32	26**
Iron	30	29
Magnesium	23	20*
Phosphorus	26	22**
Potassium	25	20**
Sodium	20	16**
Zinc	24	22
Other Dietary Components		
Fiber	19	17
Cholesterol	20	16*
Number of Students	221	1,045

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: All mean estimates have been regression-adjusted for differences in personal, family, and school characteristics between SBP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics described in Appendix E.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE G.6

REGRESSION-ADJUSTED MEAN DAILY INTAKES OF SBP PARTICIPANTS AND NONPARTICIPANTS,
SECONDARY SCHOOL STUDENTS

	Regression-Adjusted Mean Intakes	
	Participants	Nonparticipants
Food Energy (kcal)	2,318	2,129
Macronutrients: Total Amount (g)		
Total fat	85	79
Saturated fat	28.4	27.0
Monounsaturated fat	33.4	30.4
Polyunsaturated fat	16.8	15.4
Linoleic acid	14.8	13.5
Linolenic acid	1.4	1.3
Carbohydrate	314	284*
Protein	81	77
Macronutrients: Percentage of Food Energy from (%)		
Total fat	32.3	32.5
Saturated fat	10.8	11.1
Monounsaturated fat	12.6	12.6
Polyunsaturated fat	6.5	6.4
Linoleic acid	5.8	5.6
Linolenic acid	0.54	0.54
Carbohydrate	54.5	54.0
Protein	14.3	14.6
Vitamins		
Vitamin A (mcg RAE)	608	576
Vitamin C (mg)	98	88
Vitamin E (mg)	6.8	6.4
Vitamin B ₆ (mg)	1.8	1.8
Vitamin B ₁₂ (mcg)	5.3	5.3
Folate (mcg DFE)	588	576
Niacin (mg)	22.5	22.3
Riboflavin (mg)	2.4	2.2
Thiamin (mg)	1.7	1.6
Minerals		
Calcium (mg)	1,095	1,026
Iron (mg)	16.1	15.3
Magnesium (mg)	263	247
Phosphorus (mg)	1,441	1,341
Potassium (mg)	2,646	2,429
Sodium (mg)	3,846	3,394*
Zinc (mg)	12.3	11.9
Other Dietary Components		
Fiber (g)	14.6	13.4
Fiber (g/1,000 kcal)	6.5	6.5
Cholesterol (mg)	221	217
Number of Students	221	1,361

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations prepared by Mathematica Policy Research, Inc.

Note: All mean estimates have been regression-adjusted for differences in personal, family, and school characteristics between SBP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics described in Appendix E.

*Difference between participants and nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and nonparticipants is significantly different from zero at the .01 level.

APPENDIX H

PC-SIDE SOFTWARE AND ESTIMATION PROCEDURES

As discussed in Chapter V of this report, the personal computer version of a specialized software package, the Software for Intake Distribution Estimation (PC-SIDE), was used to estimate usual intake distributions and the prevalence of inadequate and excessive intakes. Since the Dietary Reference Intakes (DRIs) used to assess nutrient inadequacy are based on student's *usual* intakes, but only *daily (24-hour)* intakes are observed, PC-SIDE applies a procedure recommended by the Institute of Medicine to estimate the distribution of usual intakes from daily intakes (Institute of Medicine, 2000) and the prevalence of inadequacy or excess. This section describes the PC-SIDE software and estimation procedures used for the analysis.

OVERVIEW OF THE PC-SIDE SOFTWARE AND PROGRAMMING ENVIRONMENT

PC-SIDE version 1.02 was used for all analyses of usual intake distributions and nutrient inadequacy or excess. This software follows the procedures described by Nusser et al. (1996) to estimate usual intake distributions by estimating the intra-individual variation in nutrient intake, based on a subsample of individuals with two days of intake data, and removing this source of variation in order to estimate the distribution of usual nutrient intakes across a population.

In order to implement these procedures, PC-SIDE first performs preliminary adjustments to the dietary intake data, including incorporation of sample weights and adjustments for day 1 (first 24-hour recall, collected from all sample members) and day 2 (second 24-hour recall, collected from 29 percent of sample members) intakes. The software then uses a power transformation and a nonparametric transformation based on a grafted polynomial model to transform the data into a normal distribution. It then uses a measurement error model to estimate the within-individual variation in intakes as well as the distribution of usual intakes. Finally, it “back-transforms” the data from the normal distribution to the original scale. Once the usual intake distribution in the original scale has been estimated, PC-SIDE can estimate percentiles of

the usual intake distribution as well as the proportion of the population with intakes above or below a particular value.

ESTIMATES BY NSLP AND SBP PARTICIPATION STATUS

In order to estimate usual intake distributions for groups defined by NSLP or SBP participation status, the sample was defined based on students' participation status on the *first day* of intake data, regardless of their participation status on the second day, since day-2 intakes were used only to estimate the with-person variation in intakes. In practice, the inclusion of students who changed participation status between day 1 and day 2 made virtually no difference in the estimated means, standard errors, or distributions of usual intakes. However, in some cases PC-SIDE failed to produce estimates when day-2 intakes were limited only to students who did not change status, due to the smaller number of second-day intakes. For this reason, estimates based on groups defined by day-1 participation status only were preferred and were used for the main analysis.

ESTIMATION OF NUTRIENT INADEQUACY OR EXCESS

Estimates of usual intake distributions and nutrient inadequacy or excess for the SNDA-III analyses were generated for all students, as well as for 112 subgroups defined by age or grade level, gender, and NSLP or SBP participation status. In some cases, these estimates were made for population groups that had more than one reference standard. For example, two Estimated Average Requirements (EARs) are generally defined for children 14 to 18 years: one for males and one for females. A simple adjustment to the EAR cut-point method was used to estimate the prevalence of nutrient inadequacy for these combined groups. Each individual's observed intake was divided by the appropriate EAR, and the resulting ratios were adjusted using PC-SIDE to

obtain the “usual” intake-to-EAR ratios. Calculating the percentage of the group with ratios less than one yielded an estimate of the prevalence of nutrient inadequacy for the combined group.

Accounting for Sample Weights and the Complex Sample Design. Sample weights were used to account for unequal selection probabilities and for survey nonresponse, so estimates would be nationally representative. In addition, to account for the complex sampling design in the estimation of standard errors, PC-SIDE’s jackknife replicate weighting procedure was used. This approach draws repeated subsets of the sample defined by a set of “replicate weights” provided by the researcher, calculates the usual intake distribution for each subset, and then estimates the variance based on how much the estimates vary over repeated subsamples (Carrington et al. 2000).¹

Estimation Procedures. Several parameters must be defined for the PC-SIDE analysis, including those affecting the transformation of the data to a normal distribution. These parameters include: (1) the Type I error rate used to test significance with an Anderson-Darling test for normality of the transformed data, (2) the minimum number of join points used to fit the grafted polynomial function to a normal probability plot, and (3) the maximum number of join points allowed. SNDA-III generally used the default values of these parameters—a Type I error rate of 0.15, a minimum of three join points, and a maximum of 12. In only one case (intakes of vitamin A for all students combined) was the test of the normality hypothesis rejected under these default settings. For this case the maximum number of join points was increased to 14, and the hypothesis of normality was not rejected under these settings.

¹ Developing the jackknife replicate weights required dividing the sample into “pseudo-strata” with two to three primary sampling units (PSUs) per pseudo-stratum. The initial SNDA-III sample was selected using Chromy’s (1978) selection procedure, which created “implicit strata,” or zones, based on geography, poverty level, and other characteristics of the school food programs. The resulting zones were used to sort the sample into pseudo-strata for the purposes of developing the replicate weights, by pairing PSUs in adjacent zones.

The statistical formula used by PC-SIDE to estimate the usual intake variance subtracts the within-individual variability from the total variability in the sample. In some cases, the estimated within-individual variance exceeded the total variance in the sample, and PC-SIDE was unable to produce nonnegative estimates of the usual intake variance for certain population subgroups. This typically occurred for subgroups with a small number of second 24-hour recalls relative to the total sample size. In these cases, the usual intake variance was estimated by supplying an external estimates of the within-individual variance, following a procedure used in an Agricultural Research Service (ARS) analysis of the National Health and Nutrition Examination Survey (NHANES) (Moshfegh et al. 2005).

Specifically, for the SNDA-III analyses, if PC-SIDE was unable to produce a nonnegative estimate of the usual intake variance for a particular nutrient intake for a particular population subgroup (for instance, folate intakes of high school male National School Lunch Program (NSLP) participants), an external estimate of the within-individual variance component was supplied from a model estimated on a more aggregated sample (for instance, a pooled model of folate intakes of high school male NSLP participants and nonparticipants). This pooled estimate of the within-individual variance, computed as the “variance of measurement error” in the PC-SIDE output divided by the sum of the variance of measurement error and the “variance of usual intakes,” was then used as the estimate of the within-individual variance for the problematic subgroup (in this example, high school male NSLP participants). In the majority of cases, this resulted in a positive estimate of the usual intake variance. If the estimate was still not positive, the within-individual variance was estimated from a further aggregated sample (for instance,

high school male and female NSLP participants and nonparticipants), and this pooled estimate was used as the within-individual variance estimate for the problematic subgroup.²

To supply the external variance estimate to PC-SIDE, the procedure described by (Moshfegh et al. 2005) was used. Specifically, the PC-SIDE parameter for the within-individual variance (PEVCR) was set to the within-individual variance estimate from the pooled sample, and the parameter NPEVCR was set to “999999” to force PC-SIDE to use the external estimate.

The Probability Approach for Estimating Iron Inadequacy. As discussed in Chapter V, the EAR-cutpoint method cannot be used to estimate the prevalence of iron inadequacy, since the assumptions underlying the method are violated due to the skewed distribution of iron requirements. Instead, the probability approach must be used to estimate the prevalence of iron inadequacy, based on a published distribution of iron requirements (IOM 2001). These distributions vary across the population and are defined separately for different age-gender groups (in the case of the SNDA-III sample, the relevant subgroups were 4 to 8 year old children, 9 to 13 year old males, 9 to 13 year old females, 14 to 18 year old males, and 14 to 18 year old females). To implement the probability approach, the following steps were followed:

1. PC-SIDE was used to compute the usual intake distribution of iron for each of the five age-gender subgroups and to produce a dataset containing the estimated intake values at 499 evenly spaced percentiles.
2. This dataset was merged to a dataset with intake values ranging from 1 to 14.39—the maximum of the iron requirement distribution for the five subgroups examined—increasing in 0.01 increments. Percentiles for the intake values between the 499 estimated percentiles were linearly interpolated. This resulted in a dataset with every possible intake values between zero and the maximum of the iron requirement

² Since the external variance estimation procedure was used only for the problematic subgroups rather than the full sample, it is possible that estimates of nutrient inadequacy (or excess) for the full sample could in some cases exceed the estimates for each of the component subgroups. This is because variance estimates for the full sample will reflect the actual data for each subgroup, including that of the problematic subgroup(s), while estimates for the problematic subgroup(s) will reflect the (smaller) external variance estimates rather than the true sample variability.

distribution and an associated estimate of the percentage of the population with intakes below this value, for each of the five age-gender subgroups.

3. This dataset was then compared with the distribution of iron requirements for each of the five age-gender subgroups. The distribution of iron requirements provided estimates of the probability of inadequacy for individuals with dietary intakes within given ranges for each of the five subgroups. Subtracting the estimated percentage of the subgroup with intakes at the bottom of each range from the estimated percentage at the top of the range provided an estimate of the fraction of the subgroup with intakes in each range of the distribution of iron requirements.
4. For each range of the published distribution of iron requirements, the probability of inadequacy for individuals with intakes in that range was multiplied by the estimated fraction of the subgroup with intakes in that range, and summed over the full distribution of that age-gender subgroup to produce a weighted estimate of the probability of inadequacy for the entire subgroup.
5. To estimate the prevalence of iron inadequacy for subgroups comprising multiple age-gender subgroups (for instance, 9- to 13-year-old girls and boys combined), the prevalence of inadequacy was estimated separately for each iron requirement subgroup, and a weighted average was computed based on the fraction of the overall population subgroup in each of the five iron requirement subgroups.

Standard errors were not produced for estimates of iron inadequacy, due to the difficulty of producing reliable standard error estimates when using the probability approach.

APPENDIX I

TECHNICAL APPENDIX ON THE PROPENSITY SCORE MATCHING ANALYSIS OF NUTRIENT INADEQUACY AND EXCESS

This appendix describes the propensity score matching methodology used to adjust for observable differences between school meal program participants and nonparticipants in the analysis of nutrient inadequacy and excess. As noted in the report, students who participated in the school meal program likely differed from nonparticipants in many ways, both observable and unobservable. Because of these differences between the two groups of students, it is possible that their dietary intakes would have differed even if the school meal programs were not available and participants obtained their meals from other sources. Statistically adjusting for these underlying differences allows a comparison of the intakes of school meal program participants and nonparticipants who are otherwise similar according to many observable characteristics.

A standard approach in the literature to account for differences in observable characteristics between groups is regression adjustment, and this approach was used in the analysis of mean dietary intakes, as described in Appendix E, as well as in other analyses of mean dietary intakes (Devaney et al. 1993; Gleason and Sutor, 2001; Gleason and Sutor, 2003). However, regression-adjustment cannot be used for analysis of nutrient inadequacy and excess, since it requires information on nutrient inadequacy (or excess) for each person in the sample. As discussed in Appendix H, nutrient inadequacy and nutrient excess can typically only be estimated at the *group* level, using the procedure recommended by the Institute of Medicine (IOM 2000). Therefore, in order to adjust for differences in observable characteristics between participants and nonparticipants in the analysis of nutrient inadequacy and excess, a propensity score matching approach was used instead. This approach used observable characteristics to construct a comparison group of nonparticipants who were similar to participants according to observable characteristics, and then applied the IOM procedure to estimate nutrient inadequacy and excess for school meal program participants and for the matched comparison group.

As with the regression-adjustment of mean intakes, the propensity score matching procedure can only adjust for differences in *observable* characteristics, and participants may also differ from nonparticipants in unobservable ways that may influence their dietary intakes. For this reason, neither the regression-adjusted nor propensity score matched differences in intakes between participants and nonparticipants can be definitively interpreted as causal effects of the school meal program on students' dietary intakes. The goal of such adjustment was rather more modest: to adjust to the extent possible for observable factors likely to be correlated with dietary intakes so as to compare similar groups of participants and nonparticipants, while still acknowledging that unobservable factors may influence differences in dietary intakes.

A. PROPENSITY SCORE MATCHING ESTIMATION—OVERVIEW

Propensity score matching is a well-established technique (Rosenbaum and Rubin 1983; Dehejia and Wahba 2002; Smith and Todd 2001) for adjusting for observable differences between two groups—a “program group” (in this case, NSLP or SBP participants) and a comparison group that did not participate in the program (NSLP or SBP nonparticipants). In general, to implement this technique, the researcher estimates a probit or logit model of program participation as a function of covariates that are thought to influence the participation decision and be correlated with the outcome(s) of interest (in this case, dietary intakes). The results of this model are then used to predict a “propensity score” reflecting the estimated probability that each individual, in both the program and comparison groups, participated in the program based on their observed characteristics.

Each individual in the program group is then matched to an individual (or individuals) in the comparison group with a similar estimated propensity score. The original approach developed in the propensity score matching literature is “nearest neighbor matching,” which matches each program group member with the comparison group member (or members) with the closest value

of the propensity score (Rosenbaum and Rubin 1983). Alternative, more recently developed approaches include caliper matching, kernel matching, and local linear matching, each of which constructs a matched comparison group as a weighted average of nonparticipants, with weights reflecting the “quality” of the match to each program group member based on the estimated propensity score. Each of these approaches is described in greater detail by Heckman, Ichimura, and Todd (1997). Nearest neighbor matching remains one of the most commonly used methods, in part because of the clear intuition underlying the approach of constructing a matched comparison group comprised of nonparticipants who are similar to participants according to observed characteristics. In general, research has shown that nearest neighbor matching tends to perform as well as alternative matching methods with cross-sectional data, although all estimates may fail to fully account for selection bias due to differences in unobservable characteristics (Heckman, Ichimura, and Todd 1997).

Although each matched comparison group member will not necessarily have identical characteristics to the treatment group member to whom he or she is matched, the matched pair will have a set of observable characteristics that suggests they are equally likely to participate in the program. Furthermore, on average, the participants and matched comparison groups should have similar observable characteristics if the two groups are well matched. The researcher may perform various “balancing” tests to determine whether the program group is on average similar to the matched comparison group according to observable characteristics. If the two groups are not balanced, the researcher may re-estimate the propensity score model, adding interaction terms and/or higher order terms of the covariates.

Once the researcher is satisfied that the two groups are similar according to observable characteristics, a simple comparison of the average value of the outcome variable(s) (in this case, dietary intakes) between the program and matched comparison groups yields an estimate of the

difference in the outcome between the program group and a similar group of individuals who did not participate in the program. If the researcher is confident that all factors that affect both participation and the outcome(s) in the absence of participation are both observed and controlled for in the model of program participation, a comparison of the average value of the outcome variable for the program and matched comparison groups provides an estimate of the *causal* effect of the program on the outcome of interest. However, if the researcher believes there are unobservable characteristics that may be correlated with both program participation and the outcome of interest, propensity score matching can still be a useful approach for adjusting for differences in observable characteristics between the program group and the comparison group.

B. PROPENSITY SCORE MATCHING FOR THE SNDA-III ANALYSES

To implement the propensity score matching approach for the SNDA-III analysis, a logit model of school meal program (NSLP or SBP) participation was estimated, separately for elementary, middle, and high school students, using Stata statistical software. The covariates included in this model were characteristics that regression analysis had shown to be correlated with students' intakes of several nutrients (see Tables E.2A-E.5D) and were thought to influence participation. The results of this model were used to predict a propensity score for each student.¹ Table I.1 displays the results of the final logit models of NSLP and SBP participation.

Each student in the program group (NSLP or SBP participants) was then matched to the student in the comparison group (nonparticipants in the relevant program) using the nearest neighbor matching method, with a single nearest neighbor. Matching was done “with

¹ Specifically, the propensity score was calculated as the predicted probability of participation, or $\Lambda(X_i\hat{\beta})$, where X_i is a vector of observed values of covariates for individual i , $\hat{\beta}$ is a vector of estimated coefficients from the logit model, and $\Lambda(X_i\hat{\beta})$ is the logistic cumulative distribution function of $X_i\hat{\beta}$.

replacement,” meaning a given student in the comparison group could be matched to multiple students in the program group. Analysis weights for matched participants were simply their initial sampling weight (which accounted for selection probabilities and nonresponse). The analysis weight for each matched nonparticipant was the sampling weight of the participant to whom he or she was matched, if he or she was matched to only one participant. If a nonparticipant was matched to more than one participant, his or her analysis weight was the sum of the sampling weights of the participants to whom he or she was matched.

To test whether the participants and matched comparison groups were similar according to observable characteristics, two sets of tests were performed for each model: Hotelling’s t-squared test of the joint equality of the means all covariates in the model across the two groups and separate two-tailed t-tests of the equality of means of each covariate in the model. The participant and matched comparison groups were considered balanced if (1) the null hypothesis of the Hotelling test was not rejected with a 5 percent critical value and if (2) fewer than 5 percent of the individual t-tests were rejected with a 5 percent critical value for each model. Table I.2 displays p-values from the Hotelling and individual t-tests for the final NSLP and SBP participation models. As shown in the table, across all groups, the p-values of the Hotelling tests are well over the 5 percent critical value. Furthermore, across all groups and characteristics, differences in means are generally small, and statistically significant for 5 percent or fewer characteristics in each group. These statistics suggest that the participant and matched comparison groups are well-balanced in terms of observable characteristics.

Once the participant and matched comparison group samples had been constructed, the IOM approach for estimating nutrient inadequacy and excess for the two groups was applied (Appendix H), using the analysis weights described above. These results are displayed in Tables VI.5-6 and VII.5-6 of the main report. Jackknife standard errors were estimated to account for

clustering and stratification, but did not take into account variation due to the fact that the propensity score was estimated and the matching process itself (Heckman, Ichimura, and Todd 1997). This is because no analytic formula for determining the correct standard errors is currently available even for simple comparisons of means in propensity score matching analyses, much less in the context of the IOM procedure for estimating usual nutrient intake distributions.²

Although the primary goal of the propensity score matching was to construct groups of similar participants and nonparticipants in order to apply the IOM method for estimating usual intake distributions and nutrient inadequacy and excess at the group level, the weighted propensity score matched samples can also be used to estimate differences in *mean dietary intakes* between school meal program participants and nonparticipants.³ These estimates are similar in spirit to the regression-adjusted estimates presented in the main report (Tables VI.2-VI.4 and VII.2-VII.4), since both adjust for observable characteristics likely to be correlated with dietary intakes, albeit using different approaches. However, one important conceptual difference between the two sets of estimates is that, in the propensity score matching estimates, mean intakes for both participants and matched nonparticipants are estimates of the mean intakes of a student with the characteristics of the average *participant*. In contrast, the regression-adjusted mean intake estimates are estimates of the mean intakes of a student whose characteristics are similar to those of the *average student*.

Tables I.3-I.5 display the mean intakes of the matched NSLP participants and nonparticipants, along with tests of the significance of the difference between the two groups,

² Although in some cases researchers apply a bootstrap procedure to estimate standard errors for propensity score matching analyses, research has shown that the bootstrap may yield biased standard error estimates in the case of nearest neighbor matching (Abadie and Imbens 2006), so this approach was not used.

³ Standard errors for the mean intakes of the propensity score matched sample accounted for clustering and stratification, but did not account for variation due to the fact that the propensity score was estimated or the matching process itself.

and Tables I.6-I.8 displays comparable results for matched SBP participants and nonparticipants. Table I.9-I.12 compare the sign and significance levels of estimated mean differences from the regression-adjusted (Tables VI.2-VI.4 and VII.2-VII.4) and propensity score matching estimates (Tables I.3-I.8). In general, results for mean lunch intakes of NSLP participants and nonparticipants are very similar in sign and significance between the regression-adjusted and propensity score matching estimates (Table I.9), and are also similar in magnitude. For the full sample, all statistically significant results from the regression models are also statistically significant and of the same sign in the propensity score matching estimates, and this is the case for the majority of grade-level estimates as well. The regression-adjusted and propensity score matching estimates for mean daily intakes of NSLP participants and nonparticipants, mean breakfast intakes of SBP participants and nonparticipants (Table I.11), and mean daily intakes of SBP participants and nonparticipants (Table I.12) are less similar than those for lunch intakes, but are still generally similar in magnitude and rarely contradictory in sign. The existing differences in these estimates likely arise from the fact that the regression adjustment and propensity score matching estimates using different approaches for controlling for differences in participants' and nonparticipants' characteristics.

TABLE I.1

LOGIT MODELS OF NSLP AND SBP PARTICIPATION FOR ESTIMATING PROPENSITY SCORES

	NSLP			SBP		
	Elementary	Middle	High	Elementary	Middle	High
Female	-0.074 (0.185)	-0.520** (0.167)	-0.497* (0.209)	-0.392 (0.202)	-0.543* (0.224)	-0.533 (0.307)
Black, non-Hispanic	0.615* (0.299)	-0.589* (0.244)	0.334 (0.253)	0.787** (0.292)	0.177 (0.304)	0.719* (0.356)
Hispanic	0.749* (0.329)	-0.044 (0.286)	-0.211 (0.274)	-0.171 (0.367)	-0.534 (0.421)	0.204 (0.429)
Other race, non-Hispanic	0.278 (0.432)	-0.371 (0.331)	0.041 (0.324)	0.671 (0.492)	-0.489 (0.492)	0.555 (0.476)
Age 7	-0.439 (0.414)			-0.528 (0.437)		
Age 8	-0.424 (0.432)			0.193 (0.432)		
Age 9	-0.678 (0.472)			-0.232 (0.487)		
Age 10	-0.494 (0.536)	0.115 (1.403)		-0.056 (0.553)	-0.348 (1.497)	
Age 11	-0.516 (0.598)	-0.984 (1.254)		-0.145 (0.605)	0.379 (1.281)	
Age 12	-0.677 (0.829)	-0.865 (1.219)		0.013 (0.797)	-0.137 (1.245)	
Age 13	-0.891 (0.909)	-1.099 (1.211)	0.998 (1.778)	0.442 (0.924)	-0.137 (1.235)	0.174 (1.715)
Age 14	-2.446* (1.235)	-1.057 (1.213)	2.020 (1.625)	-0.333 (1.388)	-0.629 (1.245)	-1.296 (1.562)
Age 15		-0.597 (1.264)	1.680 (1.621)		0.199 (1.282)	-1.284 (1.557)
Age 16			1.928 (1.622)			-1.242 (1.558)
Age 17			1.517 (1.623)			-0.940 (1.560)
Age 18			1.239 (1.631)			-1.218 (1.578)
Student eats about the same amount as others	0.393 (0.228)	-0.109 (0.204)	-0.147 (0.201)	-0.160 (0.242)	-0.269 (0.249)	0.213 (0.310)
Student eats less than others	0.269	-0.431	-0.019	-0.487	-0.884*	0.547

TABLE I.1 (continued)

	NSLP			SBP		
	Elementary	Middle	High	Elementary	Middle	High
Student somewhat picky eater	(0.302) 0.272 (0.242)	(0.276) 0.178 (0.223)	(0.281) -0.099 (0.210)	(0.339) -0.022 (0.259)	(0.403) 0.394 (0.312)	(0.402) -0.503 (0.305)
Student not picky eater	(0.269) 0.460 (0.238)	(0.238) 0.230 (0.238)	(0.222) 0.021 (0.222)	(0.280) 0.041 (0.280)	(0.337) 0.174 (0.337)	(0.310) -0.073 (0.310)
Student on a diet (middle and high school students)		(0.183) 0.002 (0.183)	(0.183) -0.151 (0.183)		(0.244) -0.175 (0.244)	(0.265) 0.286 (0.265)
Student's height in feet	(0.445) 0.192 (0.445)	(0.327) 0.343 (0.327)	(0.350) -0.408 (0.350)	(0.470) -0.342 (0.470)	(0.435) -0.559 (0.435)	(0.503) -0.713 (0.503)
Student in good health (parent report)	(0.580) 0.325 (0.580)	(0.431) -0.408 (0.431)	(0.371) -0.335 (0.371)	(0.496) -0.557 (0.496)	(0.508) 0.273 (0.508)	(0.510) 0.444 (0.510)
Student in very good health (parent report)	(0.548) -0.024 (0.548)	(0.405) -0.408 (0.405)	(0.354) -0.212 (0.354)	(0.468) -0.415 (0.468)	(0.478) 0.106 (0.478)	(0.503) 0.114 (0.503)
Student in excellent health (parent report)	(0.541) -0.131 (0.541)	(0.399) -0.660 (0.399)	(0.348) -0.097 (0.348)	(0.465) -0.550 (0.465)	(0.479) 0.238 (0.479)	(0.492) 0.187 (0.492)
Family income 130 to 185% of poverty	(0.351) 0.033 (0.351)	(0.267) -0.187 (0.267)	(0.264) 0.065 (0.264)	(0.300) 0.443 (0.300)	(0.331) -0.735* (0.331)	(0.359) 0.005 (0.359)
Family income 185 to 200% of poverty	(0.284) -0.716* (0.284)	(0.251) -0.627* (0.251)	(0.253) -0.349 (0.253)	(0.367) -0.686 (0.367)	(0.357) -0.554 (0.357)	(0.471) -0.783 (0.471)
Family income 200 to 300% of poverty	(0.316) -0.965** (0.316)	(0.289) -0.709* (0.289)	(0.277) -0.870** (0.277)	(0.408) -0.353 (0.408)	(0.491) -1.510** (0.491)	(0.519) -0.644 (0.519)
Family income >300% of poverty	(0.272) -1.060** (0.272)	(0.256) -0.865** (0.256)	(0.255) -0.975** (0.255)	(0.367) -0.848* (0.367)	(0.463) -1.890** (0.463)	(0.442) -0.354 (0.442)
Primary language spoken at home: Spanish	(0.443) 0.203 (0.443)	(0.386) 0.790* (0.386)	(0.335) 0.930** (0.335)	(0.401) 0.664 (0.401)	(0.485) 0.293 (0.485)	(0.452) 0.313 (0.452)
Primary language spoken at home: other	(0.601) -0.207 (0.601)	(0.424) -0.029 (0.424)	(0.448) 0.017 (0.448)	(1.078) -1.854 (1.078)	(0.809) -1.004 (0.809)	(0.698) -0.477 (0.698)
School serves urban fringe of city	(0.236) 0.165 (0.236)	(0.206) 0.158 (0.206)	(0.209) -0.058 (0.209)	(0.280) -0.621* (0.280)	(0.300) 0.149 (0.300)	(0.316) 0.176 (0.316)
School serves town	(0.398) 0.438 (0.398)	(0.354) 0.228 (0.354)	(0.293) 0.497 (0.293)	(0.429) -0.510 (0.429)	(0.455) 0.477 (0.455)	(0.439) 0.248 (0.439)
School serves rural area	(0.301) 0.527 (0.301)	(0.233) 0.585* (0.233)	(0.236) 1.225** (0.236)	(0.311) 0.594 (0.311)	(0.315) 0.609 (0.315)	(0.353) 0.232 (0.353)
Midwest region	(0.366) 0.719* (0.366)	(0.371) 0.104 (0.371)	(0.299) 0.125 (0.299)	(0.442) -0.199 (0.442)	(0.473) -0.143 (0.473)	(0.435) 0.151 (0.435)
Mountain region	(0.386) 0.457 (0.386)	(0.402) 0.143 (0.402)	(0.421) -0.547 (0.421)	(0.509) -0.375 (0.509)	(0.805) -1.757* (0.805)	(0.826) -0.590 (0.826)

TABLE I.1 (continued)

	NSLP			SBP		
	Elementary	Middle	High	Elementary	Middle	High
Northeast region	0.207 (0.358)	-0.528 (0.389)	-0.351 (0.401)	-0.279 (0.458)	-0.865 (0.603)	0.897 (0.528)
Southeast region	1.458** (0.352)	0.208 (0.322)	0.503 (0.297)	0.349 (0.365)	0.012 (0.371)	-0.117 (0.431)
Southwest region	1.403** (0.401)	-0.407 (0.335)	-0.156 (0.301)	0.530 (0.412)	-0.088 (0.407)	0.189 (0.435)
Western region	0.432 (0.353)	-1.051** (0.369)	-0.343 (0.318)	0.220 (0.395)	-0.064 (0.483)	-0.197 (0.474)
Constant	-0.500 (1.904)	1.016 (2.231)	0.956 (2.449)	0.988 (1.958)	2.056 (2.731)	2.592 (3.108)
Number of Students	732	786	795	732	786	795

Source: School Nutrition Dietary Assessment-III, Student and Parent Interviews, school year 2004-2005 and 2002-2003 U.S. Department of Education Common Core of Data. Weighted estimates prepared by Mathematica Policy Research, Inc.

Note: Estimates shown are marginal effects from logistic regression models. P-values in parentheses.

*Estimate is statistically significant at the .05 level.

**Estimate is statistically significant at the .01 level.

TABLE I.2

P-VALUES OF BALANCING TESTS OF PARTICIPANTS AND MATCHED NONPARTICIPANTS

	NSLP			SBP		
	Elementary	Middle	High	Elementary	Middle	High
Hotelling's t-squared test	0.296	0.744	0.857	0.999	0.996	0.998
Individual t-tests						
Female	0.626	0.917	0.557	0.530	0.721	1.000
Black, non-Hispanic	0.615	0.283	0.389	0.234	0.327	0.637
Hispanic	0.223	0.192	0.198	0.221	0.770	0.875
Other race, non-Hispanic	0.651	0.511	0.487	0.510	0.628	0.631
Age 7	0.240			0.767		
Age 8	0.348			0.903		
Age 9	0.900			0.688		
Age 10	0.003**	0.849		0.885	0.438	
Age 11	0.507	0.164		0.763	0.579	
Age 12	0.793	0.270	0.383	0.232	0.694	0.331
Age 13	0.166	0.222	1.000	1.000	0.444	0.709
Age 14	1.000	0.000**	0.559	0.352	0.547	0.815
Age 15		0.539	0.642		0.831	0.472
Age 16		0.410	0.353		0.347	1.000
Age 17			0.350			0.619
Age 18			0.836			0.691
Student eats about the same amount as others	0.317	0.791	0.318	0.755	0.238	0.885
Student eats less than others	0.198	0.879	0.425	0.771	1.000	0.383
Student somewhat picky eater	0.553	0.714	0.789	1.000	0.555	0.536
Student not picky eater	0.442	0.743	0.545	0.912	0.610	1.000
Student's height in feet	0.913	0.556	0.739	0.631	0.099	0.604
Student on a diet (middle and high school students)		0.823	0.769		0.612	0.648
Student in good health (parent report)	0.361	0.456	0.072	1.000	0.310	0.730
Student in very good health (parent report)	0.798	0.701	0.346	0.441	0.617	0.746
Student in excellent health (parent report)	0.558	0.372	0.148	0.753	0.905	0.395
Family income 130 to 185% of poverty	0.525	0.568	0.460	0.896	0.861	0.462
Family income 185 to 200% of poverty	0.216	0.894	0.660	0.438	0.432	1.000
Family income 200 to 300% of poverty	0.613	0.531	0.922	1.000	0.579	0.781
Family income >300% of poverty	0.804	0.840	0.929	1.000	0.502	0.845
Primary language spoken at home: Spanish	0.246	0.351	0.045*	0.372	0.730	0.845
Primary language spoken at home: other	0.073	0.331	0.853	0.590	0.280	1.000
School serves urban fringe of city	0.797	0.955	0.875	0.183	0.587	0.870

TABLE I.2 (continued)

	NSLP			SBP		
	Elementary	Middle	High	Elementary	Middle	High
School serves town	0.792	0.608	0.044*	0.368	0.211	1.000
School serves rural area	0.032*	0.475	0.449	0.434	1.000	0.862
Midwest region	0.150	0.417	0.532	0.861	0.715	0.577
Mountain region	0.127	0.135	0.257	0.652	0.586	1.000
Northeast region	0.207	0.841	0.766	0.682	0.302	0.310
Southeast region	0.084	0.571	0.605	0.711	0.806	0.088
Southwest region	0.274	0.947	0.389	0.616	0.565	0.330
Western region	0.662	0.112	0.321	0.528	1.000	0.034*
Number of Students	732	786	795	732	786	795

Source: School Nutrition Dietary Assessment-III, Student and Parent Interviews, school year 2004-2005 and 2002-2003 U.S. Department of Education Common Core of Data. Weighted estimates prepared by Mathematica Policy Research, Inc.

Note: Estimated p-values are from tests of the difference in the mean values of the specified characteristic between school meal program participants and the matched comparison group. Matched comparison group constructed as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

*Difference in mean value of characteristic for participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference in mean value of characteristic for participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.3

MEAN LUNCH INTAKES OF NSLP PARTICIPANTS AND MATCHED NONPARTICIPANTS, BY SCHOOL TYPE

	Mean Intake at Lunch											
	Elementary School Students			Middle School Students			High School Students			All Students		
	Participants	Nonparticipants	Matched	Participants	Nonparticipants	Matched	Participants	Nonparticipants	Matched	Participants	Nonparticipants	Matched
Food Energy (kcal)	589	545	566	619	566	737	677	626	574			
Macronutrients: Total Amount (g)												
Total fat	21	20	22	24	22	30	26	24	22			
Saturated fat	7.3	6.2	6.6*	8.3	6.6*	9.5	9.1	8.0	6.8*			
Monounsaturated fat	8.3	8.4	9.2	9.6	9.2	11.6	10.3	9.3	8.9			
Polyunsaturated fat	4.3	4.3	4.9	4.6	4.9	6.4	4.9*	4.8	4.5			
Linoleic acid	3.8	3.8	4.3	4.1	4.3	5.5	4.4	4.2	4.0			
Linolenic acid	0.44	0.28**	0.36	0.44	0.36	0.62	0.38**	0.45	0.31**			
Carbohydrate	76	76	75	77	75	91	90	79	79			
Protein	25	17**	18**	24	18**	29	22**	25	18**			
Macronutrients: Percentage of Food Energy from (%)												
Total fat	31.9	30.4	31.0*	34.5	31.0*	35.2	33.8	33.1	31.1			
Saturated fat	11.1	9.4*	9.5**	11.9	9.5**	11.6	11.7	11.3	9.8**			
Monounsaturated fat	12.4	12.7	12.9	13.6	12.9	13.7	13.3	12.9	12.8			
Polyunsaturated fat	6.4	6.4	6.6	6.6	6.6	7.5	6.4*	6.7	6.4			
Linoleic acid	5.7	5.7	5.8	5.7	5.8	6.5	5.7	5.9	5.7			
Linolenic acid	0.59	0.43**	0.51	0.63	0.51	0.74	0.46**	0.63	0.45**			
Carbohydrate	52.4	58.2*	58.3**	50.4	58.3**	49.5	55.5**	51.4	57.7**			
Protein	17.0	13.1**	12.1**	16.1	12.1**	16.0	12.2**	16.6	12.7**			
Vitamins												
Vitamin A (mcg RAE)	201	93**	77**	183	77**	185	109**	194	93**			
Vitamin C (mg)	20	24	19	18	19	25	22	21	22			
Vitamin E (mg)	1.7	1.7	1.9	1.9	1.9	2.2	2.5	1.8	1.9			
Vitamin B ₆ (mg)	0.42	0.32**	0.33**	0.41	0.33**	0.51	0.41**	0.44	0.34**			
Vitamin B ₁₂ (mcg)	1.4	0.7**	0.8**	1.5	0.8**	1.5	0.9**	1.5	0.7**			
Folate (mcg DFE)	115	114	95**	120	95**	137	119	121	111			
Niacin (mg)	5.7	5.3	5.2	5.5	5.2	7.0	6.0	5.9	5.4			
Riboflavin (mg)	0.71	0.45**	0.44**	0.68	0.44**	0.75	0.50**	0.71	0.46**			
Thiamin (mg)	0.40	0.38	0.35*	0.42	0.35*	0.50	0.41*	0.43	0.38			

TABLE I.3 (continued)

	Mean Intake at Lunch									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Minerals										
Calcium (mg)	409	237**	393	223**	410	266**	406	240**		
Iron (mg)	3.6	3.2	3.7	2.8**	4.3	3.6*	3.8	3.2*		
Magnesium (mg)	80	66*	77	61**	85	66**	80	65**		
Phosphorus (mg)	458	308**	456	315**	506	373**	468	321**		
Potassium (mg)	849	573**	814	545**	947	649**	863	582**		
Sodium (mg)	1,061	895*	1,057	874*	1,350	1,048**	1,121	920**		
Zinc (mg)	3.1	2.1**	3.3	2.2**	3.6	2.8	3.3	2.3**		
Other Dietary Components										
Fiber (g)	4.7	4.1*	4.3	3.2**	4.8	3.8**	4.7	3.9**		
Fiber (g/1,000 kcal)	8.3	9.5	7.2	6.0*	6.7	6.3	7.7	8.3		
Cholesterol (mg)	56	42	54	36**	70	57	59	44		
Number of Students	531	134	496	158	358	164	1,385	456		

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Lunch intakes of both NSLP participants and matched nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were obtained in school from non-reimbursable sources and/or foods that were brought from or consumed at home.

Note: Matched participant sample constructed using propensity score matching to adjust for differences in personal, family, and school characteristics between NSLP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics, as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

*Difference between participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.4

MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH: NSLP PARTICIPANTS AND MATCHED NONPARTICIPANTS

	Mean Percentage of 24-Hour Intake											
	Elementary School Students			Middle School Students			High School Students			All Students		
	Participants	Matched Nonparticipants		Participants	Matched Nonparticipants		Participants	Matched Nonparticipants		Participants	Matched Nonparticipants	
Food Energy (kcal)	30	28	28*	32	28*	33	33	33	33	31	29	29
Macronutrients: Total Amount (g)												
Total fat	32	30	31	35	31	36	34	34	33	31	31	31
Saturated fat	32	28	28**	34	28**	35	34	34	33	29	29	29
Monounsaturated fat	33	32	32	37	32	37	35	35	34	32	32	32
Polyunsaturated fat	33	31	33	35	33	38	34	34	35	32	32	32
Linoleic acid	33	31	33	35	33	37	34	34	35	32	32	32
Linolenic acid	34	26**	31*	37	31*	41	30**	30**	36	28**	28**	28**
Carbohydrate	29	28	28	30	28	31	33	33	29	29	29	29
Protein	35	25**	27**	35	27**	36	30	30	35	26**	26**	26**
Vitamins												
Vitamin A (mcg RAE)	35	17**	18**	33	18**	37	26**	26**	35	19**	19**	19**
Vitamin C (mg)	28	23	25	27	25	34	33	33	29	25	25	25
Vitamin E (mg)	32	30	34	34	34	35	37	37	33	32	32	32
Vitamin B ₆ (mg)	28	20**	22**	29	22**	32	27	27	29	21**	21**	21**
Vitamin B ₁₂ (mcg)	33	15**	18**	33	18**	35	23**	23**	33	17**	17**	17**
Folate (mcg DFE)	25	23	21**	27	21**	29	29	29	26	24	24	24
Niacin (mg)	30	25	25*	30	25*	32	31	31	31	26**	26**	26**
Riboflavin (mg)	33	22**	23**	33	23**	35	28*	28*	33	23**	23**	23**
Thiamin (mg)	28	24	23**	30	23**	31	28	28	29	25	25	25
Minerals												
Calcium (mg)	38	24**	26**	38	26**	41	30**	30**	39	26**	26**	26**
Iron (mg)	28	24	22**	29	22**	30	28	28	28	25*	25*	25*
Magnesium (mg)	34	27**	27**	33	27**	35	30	30	34	28**	28**	28**
Phosphorus (mg)	35	25**	26**	36	26**	36	30*	30*	35	26**	26**	26**
Potassium (mg)	35	25**	26**	35	26**	38	30**	30**	36	26**	26**	26**
Sodium (mg)	33	30	28*	34	28*	37	32	32	34	30*	30*	30*
Zinc (mg)	31	22**	24**	32	24**	33	27	27	31	23**	23**	23**

TABLE I.4 (continued)

	Mean Percentage of 24-Hour Intake									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Fiber (g/1,000 kcal)	35	33	35	28**	37	32	36	32*		
Cholesterol (mg)	31	20**	32	22*	34	27*	32	22**		
Number of Students	531	134	496	158	358	164	1,385	456		

Other Dietary Components

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Lunch intakes of both NSLP participants and matched nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were obtained in school from non-reimbursable sources and/or foods that were brought from or consumed at home.

Note: Matched participant sample constructed using propensity score matching to adjust for differences in personal, family, and school characteristics between NSLP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics, as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

*Difference between participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.5

MEAN DAILY INTAKES OF NSLP PARTICIPANTS AND MATCHED NONPARTICIPANTS, BY SCHOOL TYPE

	Mean 24-Hour Intake									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Food Energy (kcal)	2,048	1,952	2,102	2,034	2,389	2,116*	2,130	2,002*		
Macronutrients: Total Amount (g)										
Total fat	73	68	76	71	89	78	77	71*		
Saturated fat	25.5	22.7	26.7	23.2*	29.8	26.9	26.6	23.7*		
Monounsaturated fat	27.7	26.5	29.3	28.1	34.6	29.1*	29.5	27.4		
Polyunsaturated fat	14.1	14.1	14.7	14.3	18.0	16.0	15.1	14.5		
Linoleic acid	12.5	12.4	12.9	12.7	15.8	14.2	13.3	12.8		
Linolenic acid	1.2	1.1	1.3	1.1*	1.6	1.4	1.3	1.2*		
Carbohydrate	280	272	283	286	315	288	288	278		
Protein	74	69	76	69	87	71**	78	69**		
Macronutrients: Percentage of Food Energy from (%)										
Total fat	31.4	30.9	32.3	30.8	33.2	32.5	31.9	31.2		
Saturated fat	11.1	10.3	11.4	9.9**	11.0	10.9	11.1	10.4*		
Monounsaturated fat	12.0	12.1	12.4	12.3	12.8	12.2	12.3	12.1		
Polyunsaturated fat	6.1	6.3	6.1	6.4	6.7	6.8	6.2	6.4		
Linoleic acid	5.4	5.6	5.4	5.6	5.9	6.0	5.5	5.7		
Linolenic acid	0.53	0.50	0.53	0.49	0.59	0.58	0.55	0.51		
Carbohydrate	55.0	55.9	54.1	56.7*	53.0	54.8	54.4	55.9*		
Protein	14.7	14.3	14.7	13.5**	14.8	13.9	14.7	14.1		
Vitamins										
Vitamin A (mcg RAE)	655	628	637	535	623	519	645	587		
Vitamin C (mg)	93	110	86	93	91	79	91	100		
Vitamin E (mg)	5.7	5.8	6.0	5.7	6.9	7.2	6.0	6.0		
Vitamin B ₆ (mg)	1.7	1.8	1.8	1.7	1.9	1.8	1.7	1.8		
Vitamin B ₁₂ (mcg)	5.1	4.9	5.6	4.6*	5.5	5.1	5.3	4.9		
Folate (mcg DFE)	554	576	578	496	617	579	572	561		
Niacin (mg)	20.4	22.6*	21.4	20.1	24.4	21.6	21.4	21.9		
Riboflavin (mg)	2.4	2.3	2.3	2.0**	2.4	2.0	2.4	2.2		
Thiamin (mg)	1.6	1.7	1.6	1.6	1.8	1.6	1.6	1.7		

TABLE I.5 (continued)

	Mean 24-Hour Intake									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Minerals										
Calcium (mg)	1,170	1,041	1,139	830**	1,118	917*	1,153	974*	1,153	974*
Iron (mg)	14.8	14.7	15.1	13.5	16.5	15.7	15.2	14.7	15.2	14.7
Magnesium (mg)	252	241	249	226	271	233*	255	236	255	236
Phosphorus (mg)	1,386	1,281	1,393	1,201**	1,503	1,256*	1,412	1,260*	1,412	1,260*
Potassium (mg)	2,562	2,438	2,502	2,214	2,733	2,228**	2,586	2,350	2,586	2,350
Sodium (mg)	3,345	3,058	3,371	3,262	3,876	3,292**	3,461	3,147*	3,461	3,147*
Zinc (mg)	11.0	10.9	12.0	10.6	12.9	11.7	11.6	11.0	11.6	11.0
Other Dietary Components										
Fiber (g)	14.4	13.1	13.7	11.9*	14.6	12.6*	14.3	12.8**	14.3	12.8**
Fiber (g/1,000 kcal)	7.1	6.8	6.7	6.0*	6.2	5.9	6.8	6.5	6.8	6.5
Cholesterol (mg)	201	184	205	195	246	208	211	191	211	191
Number of Students	531	142	496	176	358	188	1,385	506	1,385	506

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a lunch.

Note: Matched participant sample constructed using propensity score matching to adjust for differences in personal, family, and school characteristics between NSLP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics, as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

*Difference between participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.6

MEAN BREAKFAST INTAKES OF SBP PARTICIPANTS AND MATCHED NONPARTICIPANTS, BY SCHOOL TYPE

	Mean Intake at Breakfast											
	Elementary School Students			Middle School Students			High School Students			All Students		
	Participants	Matched Nonparticipants		Participants	Matched Nonparticipants		Participants	Matched Nonparticipants		Participants	Matched Nonparticipants	
Food Energy (kcal)	468	397	396	377	522	500	464	410	Macronutrients: Total Amount (g)			
Total fat	13	11	13	10	16	19	14	12				
Saturated fat	4.8	4.0	4.3	3.9	5.4	7.0	4.8	4.5				
Monounsaturated fat	5.0	4.0	5.0	3.8	6.4	7.3	5.2	4.5				
Polyunsaturated fat	2.7	1.8*	2.5	1.7*	3.1	2.8	2.7	1.9**				
Linoleic acid	2.5	1.6*	2.2	1.5*	2.8	2.5	2.5	1.7**				
Linolenic acid	0.22	0.16*	0.20	0.15*	0.23	0.21	0.22	0.16*				
Carbohydrate	74	65	60	61	79	69	72	65				
Protein	14	12*	12	11	16	16	14	12	Macronutrients: Percentage of Food Energy from (%)			
Total fat	24.2	24.2	26.2	23.6	26.7	27.5	25.0	24.6				
Saturated fat	8.9	9.4	9.1	9.3	8.9	10.5	9.0	9.6				
Monounsaturated fat	8.9	8.7	10.3	8.9	10.4	10.7	9.4	9.1				
Polyunsaturated fat	4.7	3.8*	5.1	3.7**	5.2	4.2	4.9	3.8**				
Linoleic acid	4.3	3.4*	4.6	3.2**	4.7	3.8	4.4	3.4**				
Linolenic acid	0.39	0.33	0.43	0.30**	0.39	0.33	0.39	0.33*				
Carbohydrate	64.2	63.6	63.1	66.4	62.5	63.4	63.7	64.0				
Protein	12.6	13.4	12.1	11.6	11.9	10.9	12.4	12.7	Vitamins			
Vitamin A (mcg RAE)	205	240	177	253*	210	242	201	242				
Vitamin C (mg)	30	19*	28	26	36	28~	31	21				
Vitamin E (mg)	1.0	0.7*	0.8	0.6	1.2	1.2	1.0	0.7*				
Vitamin B ₆ (mg)	0.44	0.55	0.38	0.59*	0.50	0.55	0.44	0.56*				
Vitamin B ₁₂ (mcg)	1.6	1.8	1.5	2.0	1.4	1.7	1.5	1.8				
Folate (mcg DFE)	171	208	141	212	213	252	173	215				
Niacin (mg)	4.7	5.3	4.1	5.7	5.6	5.6	4.7	5.4				
Riboflavin (mg)	0.74	0.75	0.65	0.80	0.74	0.77	0.72	0.76				
Thiamin (mg)	0.45	0.50	0.43	0.50	0.56	0.53	0.47	0.50				

TABLE I.6 (continued)

	Mean Intake at Breakfast									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
	Minerals									
Calcium (mg)	349	304	311	287	326	335	338	306	338	306
Iron (mg)	4.4	5.0	3.7	4.9	5.1	4.7	4.4	5.0	4.4	5.0
Magnesium (mg)	59	48	46	43	61	60	57	49	57	49
Phosphorus (mg)	362	306	317	292	373	368	356	314	356	314
Potassium (mg)	637	465**	538	458	633	615	619	488**	619	488**
Sodium (mg)	616	535	573	515	826	704	644	559	644	559
Zinc (mg)	2.8	3.0	2.4	2.7	3.0	3.1	2.8	2.9	2.8	2.9
	Other Dietary Components									
Fiber (g)	2.7	2.3	1.9	1.9	2.8	2.3	2.6	2.3	2.6	2.3
Fiber (g/1,000 kcal)	5.6	5.5	5.0	5.5	5.1	4.9	5.4	5.4	5.4	5.4
Cholesterol (mg)	33	43	30	42	50	96~	36	51	36	51
Number of Students	160	103	127	71	94	69	381	243	381	243

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Breakfast intakes of both SBP participants and matched nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were obtained in school from non-reimbursable sources and/or foods that were brought from or consumed at home.

Note: Matched participant sample constructed using propensity score matching to adjust for differences in personal, family, and school characteristics between SBP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics, as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

*Difference between participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.7

MEAN PROPORTION OF TOTAL DAILY INTAKES CONTRIBUTED BY LUNCH: SBP PARTICIPANTS AND MATCHED NONPARTICIPANTS

	Mean Percentage of 24-Hour Intake									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Food Energy (kcal)	22	19	20	17~	22	19~	22	19~	22	19*
Macronutrients: Total Amount (g)										
Total fat	18	16	18	13**~	20	16~	20	16~	18	15
Saturated fat	19	17	18	15~	20	18~	20	18~	19	17
Monounsaturated fat	18	15~	17	12**~	20	16~	20	16~	18	15*
Polyunsaturated fat	19	13**~	18	12**~	20	14*~	20	14*~	19	13**
Linoleic acid	19	13**~	19	12**~	21	14*~	21	14*~	19	13**
Linolenic acid	18	14~	18	12**~	18	13~	18	13~	18	14*
Carbohydrate	26	22**	23	20~	25	22~	25	22~	25	21**
Protein	19	16	18	14~	20	15~	20	15~	19	16*
Vitamins										
Vitamin A (mcg RAE)	33	35	34	33	33	34	33	34	33	35
Vitamin C (mg)	30	20*	31	18*~	32	21~	32	21~	31	20**
Vitamin E (mg)	18	12**~	16	11*~	19	16~	19	16~	18	13**
Vitamin B ₆ (mg)	27	29	24	27	25	26	25	26	26	28
Vitamin B ₁₂ (mcg)	30	31	30	29	29	25	29	25	30	30
Folate (mcg DFE)	29	29	30	30	33	29	33	29	30	29
Niacin (mg)	24	23	23	23	24	21~	24	21~	23	22
Riboflavin (mg)	30	30	31	30	31	28	31	28	30	30
Thiamin (mg)	28	27	30	28	31	27	31	27	29	27
Minerals										
Calcium (mg)	28	26	30	25	29	26	29	26	29	26
Iron (mg)	28	28	27	27	29	24	29	24	28	27
Magnesium (mg)	23	19*	20	18~	22	20~	22	20~	22	19*
Phosphorus (mg)	25	22	24	21~	26	21~	26	21~	25	22*
Potassium (mg)	24	19**	23	20~	24	21~	24	21~	24	19**
Sodium (mg)	19	17	18	15~	20	15~	20	15~	19	17
Zinc (mg)	24	23	22	19~	22	19~	22	19~	24	22

TABLE I.7 (continued)

	Mean Percentage of 24-Hour Intake									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Fiber (g/1,000 kcal)	18	16	17	14~	19	16~	18	16	18	16
Cholesterol (mg)	18	18	16	14~	22	19~	18	18	18	18
Number of Students	160	103	127	71	94	69	381	243	381	243
Other Dietary Components										

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Breakfast intakes of both SBP participants and matched nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were obtained in school from non-reimbursable sources and/or foods that were brought from or consumed at home.

Note: Matched participant sample constructed using propensity score matching to adjust for differences in personal, family, and school characteristics between SBP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics, as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

*Difference between participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.8

MEAN DAILY INTAKES OF SBP PARTICIPANTS AND MATCHED NONPARTICIPANTS, BY SCHOOL TYPE

	Mean 24-Hour Intake									
	Elementary School Students		Middle School Students		High School Students		All Students			
	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants	Participants	Matched Nonparticipants
Food Energy (kcal)	2,156	2,096	2,186	2,030	2,567	2,503	2,230	2,153		
Macronutrients: Total Amount (g)										
Total fat	78	72	81	76	93	97	81	77		
Saturated fat	27.1	24.4	27.5	25.6	30.7	33.0	27.8	26.0		
Monounsaturated fat	29.6	28.0	31.7	30.1	37.1	37.0	31.2	29.9		
Polyunsaturated fat	15.3	14.7	16.3	14.7	18.7	19.4	16.0	15.5		
Linoleic acid	13.6	13.2	14.4	12.9	16.5	17.1	14.2	13.8		
Linolenic acid	1.3	1.2	1.3	1.2	1.6	1.7	1.4	1.3		
Carbohydrate	290	292	294	266	346	320	300	292		
Protein	80	75	76	75	91	93	81	78		
Macronutrients: Percentage of Food Energy from (%)										
Total fat	31.8	30.7	33.3	33.8	31.8	32.8	32.0	31.6		
Saturated fat	11.1	10.4*	11.2	11.4	10.4	11.0	11.0	10.7		
Monounsaturated fat	12.2	11.9	13.0	13.5	12.5	12.5	12.4	12.3		
Polyunsaturated fat	6.2	6.1	6.7	6.4	6.6	6.7	6.4	6.3		
Linoleic acid	5.5	5.4	5.9	5.6	5.8	5.9	5.6	5.5		
Linolenic acid	0.54	0.50	0.56	0.52	0.57	0.60	0.55	0.52		
Carbohydrate	54.5	55.6	53.9	52.0	54.4	52.5	54.4	54.4		
Protein	14.8	14.8	14.0	15.1	14.6	15.6	14.6	15.0		
Vitamins										
Vitamin A (mcg RAE)	633	622	578	540	640	630	625	609		
Vitamin C (mg)	99	101	84	87	117	103	99	99		
Vitamin E (mg)	6.1	5.8	6.5	6.1	7.0	6.9	6.3	6.0		
Vitamin B ₆ (mg)	1.7	1.8	1.6	1.7	2.0	2.0	1.7	1.8		
Vitamin B ₁₂ (mcg)	5.7	5.1	5.2	4.9	5.5	5.7	5.6	5.2		
Folate (mcg DFE)	547	621*	489	483	689	702	561	611		
Niacin (mg)	20.9	23.0	20.6	21.7	25.1	26.4	21.5	23.3*		
Riboflavin (mg)	2.4	2.3	2.2	2.0	2.5	2.4	2.4	2.3		
Thiamin (mg)	1.7	1.7	1.5	1.5	2.0	1.8	1.7	1.7		

TABLE I.8 (continued)

	Mean 24-Hour Intake													
	Elementary School Students				Middle School Students				High School Students				All Students	
	Participants	Nonparticipants	Matched Nonparticipants	Participants	Nonparticipants	Matched Nonparticipants	Participants	Nonparticipants	Matched Nonparticipants	Participants	Nonparticipants	Matched Nonparticipants	Participants	Nonparticipants
Minerals														
Calcium (mg)	1,237	1,086	908	1,059	1,170	1,151	1,195	1,195	1,170	1,151	1,066*	1,195	1,195	1,066*
Iron (mg)	15.4	16.1	13.9	14.0	18.2	17.4	15.6	15.6	18.2	17.4	15.9	15.6	15.6	15.9
Magnesium (mg)	263	248	222	251	283	280	264	264	283	280	249	264	264	249
Phosphorus (mg)	1,472	1,318	1,234	1,387	1,556	1,548	1,472	1,472	1,556	1,548	1,342*	1,472	1,472	1,342*
Potassium (mg)	2,731	2,446*	2,205	2,535	2,910	2,703	2,727	2,727	2,910	2,703	2,447**	2,727	2,727	2,447**
Sodium (mg)	3,482	3,208	3,241	3,424	4,382	4,145	3,623	3,623	4,382	4,145	3,371	3,623	3,623	3,371
Zinc (mg)	11.9	11.6	11.2	11.0	14.0	14.5	12.1	12.1	14.0	14.5	12.0	12.1	12.1	12.0
Other Dietary Components														
Fiber (g)	14.9	14.5	12.8	13.9	15.9	14.5	14.9	14.9	15.9	14.5	14.2	14.9	14.9	14.2
Fiber (g/1,000 kcal)	6.9	7.2	6.2	6.5	6.3	6.3	6.7	6.7	6.3	6.3	6.8	6.7	6.7	6.8
Cholesterol (mg)	201	209	223	205	253	316	211	211	253	316	229	211	211	229
Number of Students	160	118	99	127	94	85	381	381	94	85	302	381	381	302

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first 24-hour recall prepared by Mathematica Policy Research, Inc. Sample includes all students, including those who did not consume a breakfast.

Note: Matched participant sample constructed using propensity score matching to adjust for differences in personal, family, and school characteristics between SBP participants and nonparticipants, including age, sex, race and ethnicity, height, household income relative to poverty, region, and several other characteristics, as described in text. Estimates weighted to account for sample design and the fact that students in the comparison group may be matched to multiple participants.

*Difference between participants and matched nonparticipants is significantly different from zero at the .05 level.

**Difference between participants and matched nonparticipants is significantly different from zero at the .01 level.

TABLE I.9

SIGN AND SIGNIFICANCE OF REGRESSION-ADJUSTED AND PROPENSITY SCORE MATCHING
ESTIMATES OF DIFFERENCES IN MEAN LUNCH INTAKES BETWEEN
NSLP PARTICIPANTS AND NONPARTICIPANTS

	Elementary School Students		Middle School Students		High School Students		All Students	
	OLS	PSM	OLS	PSM	OLS	PSM	OLS	PSM
Food Energy (kcal)					+			
Total fat								
Saturated fat			+	+				+
Monounsaturated fat	-							
Polyunsaturated fat						+		
Linoleic acid								
Alpha-linolenic acid		++	-		++	++	++	++
Carbohydrate								
Protein		++	++	++	++	++	++	++
Total fat			++	+				
Saturated fat		+	++	++			++	++
Monounsaturated fat			+					
Polyunsaturated fat						+		
Linoleic acid								
Alpha-linolenic acid	++	++	++		++	++	++	++
Carbohydrate	-	-	--	--	--	--	--	--
Protein	++	++	++	++	++	++	++	++
Vitamin A (mg RAE)	++	++	++	++	++	++	++	++
Vitamin C (mg)	-				+			
Vitamin E (mg)	-							
Vitamin B ₆ (mg)		++		++	++	++	++	++
Vitamin B ₁₂ (mcg)	++	++	++	++	++	++	++	++
Folate (mcg DFE)			+	++				
Niacin (mg)					++			
Riboflavin (mg)	++	++	++	++	++	++	++	++
Thiamin (mg)				+	++	+		
Calcium (mg)	++	++	++	++	++	++	++	++
Iron (mg)			++	++	++	+	+	+
Magnesium (mg)		+		++	++	++	+	++
Phosphorus (mg)	++	++	++	++	++	++	++	++
Potassium (mg)	++	++	++	++	++	++	++	++
Sodium (mg)		+		+	++	++	++	++
Zinc (mg)		++	++	++	+		++	++
Fiber (g)		+	+	++		++	+	++
Fiber (g/1,000 kcal)				+				
Cholesterol (mg)			++	++				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005.

- +Difference between participants and matched nonparticipants is positive and significant at the .05 level.
- ++Difference between participants and matched nonparticipants is positive and significant at the .01 level.
- Difference between participants and matched nonparticipants is negative and significant at the .05 level.
- Difference between participants and matched nonparticipants is negative and significant at the .01 level.

TABLE I.10

SIGN AND SIGNIFICANCE OF REGRESSION-ADJUSTED AND PROPENSITY SCORE MATCHING
ESTIMATES OF DIFFERENCES IN MEAN DAILY INTAKES BETWEEN
NSLP PARTICIPANTS AND NONPARTICIPANTS

	Elementary School Students		Middle School Students		High School Students		All Students	
	OLS	PSM	OLS	PSM	OLS	PSM	OLS	PSM
Food Energy (kcal)			+			+		+
Total fat			+					+
Saturated fat			++	+				+
Monounsaturated fat			+			+		
Polyunsaturated fat								
Linoleic acid								
Alpha-linolenic acid			-	+			++	+
Carbohydrate								
Protein			++		+	++	+	++
Total fat								
Saturated fat			-	++				+
Monounsaturated fat								
Polyunsaturated fat								
Linoleic acid								
Alpha-linolenic acid	+						++	
Carbohydrate				-				-
Protein				++	+		+	
Vitamin A (mg RAE)	+		++				++	
Vitamin C (mg)								
Vitamin E (mg)								
Vitamin B ₆ (mg)			+					
Vitamin B ₁₂ (mcg)			++	+				
Folate (mcg DFE)			+					
Niacin (mg)	-	-	++					
Riboflavin (mg)			++	++			+	
Thiamin (mg)								
Calcium (mg)	+		++	++		+	++	+
Iron (mg)			+					
Magnesium (mg)			+			+	+	
Phosphorus (mg)			++	++		+	++	+
Potassium (mg)			++		+	++	++	
Sodium (mg)			+			++	+	+
Zinc (mg)			++					
Fiber (g)			+	+		+		++
Fiber (g/1,000 kcal)				+				
Cholesterol (mg)			+					

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005.

+Difference between participants and matched nonparticipants is positive and significant at the .05 level.

++Difference between participants and matched nonparticipants is positive and significant at the .01 level.

-Difference between participants and matched nonparticipants is negative and significant at the .05 level.

--Difference between participants and matched nonparticipants is negative and significant at the .01 level.

TABLE I.11

SIGN AND SIGNIFICANCE OF REGRESSION-ADJUSTED AND PROPENSITY SCORE MATCHING
ESTIMATES OF DIFFERENCES IN MEAN BREAKFAST INTAKES BETWEEN
SBP PARTICIPANTS AND NONPARTICIPANTS

	Elementary School Students		Middle School Students		High School Students		All Students	
	OLS	PSM	OLS	PSM	OLS	PSM	OLS	PSM
Food Energy (kcal)								
Total fat					+			
Saturated fat								
Monounsaturated fat					++		+	
Polyunsaturated fat		+	+	+	+		+	++
Linoleic acid		+	+	+	+		+	++
Alpha-linolenic acid		+		+	-			-
Carbohydrate								
Protein		+					+	
Total fat					++			
Saturated fat								
Monounsaturated fat			+		++		++	
Polyunsaturated fat		+	++	++	++		++	++
Linoleic acid		+	++	++	++		++	++
Alpha-linolenic acid				++	+			+
Carbohydrate					--		-	
Protein					+		+	
Vitamin A (mg RAE)			-	-				
Vitamin C (mg)		+			+			
Vitamin E (mg)		+						+
Vitamin B ₆ (mg)			--	-			--	-
Vitamin B ₁₂ (mcg)			--					
Folate (mcg DFE)			--				-	
Niacin (mg)			--					
Riboflavin (mg)			--					
Thiamin (mg)			--					
Calcium (mg)								
Iron (mg)			--					
Magnesium (mg)								
Phosphorus (mg)							+	
Potassium (mg)	+	++					+	++
Sodium (mg)					++		+	
Zinc (mg)			-					
Fiber (g)								
Fiber (g/1,000 kcal)					-			
Cholesterol (mg)	--		-				--	

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005.

- +Difference between participants and matched nonparticipants is positive and significant at the .05 level.
- ++Difference between participants and matched nonparticipants is positive and significant at the .01 level.
- Difference between participants and matched nonparticipants is negative and significant at the .05 level.
- Difference between participants and matched nonparticipants is negative and significant at the .01 level.

TABLE I.12

SIGN AND SIGNIFICANCE OF REGRESSION-ADJUSTED AND PROPENSITY SCORE MATCHING
ESTIMATES OF DIFFERENCES IN MEAN DAILY INTAKES BETWEEN
SBP PARTICIPANTS AND NONPARTICIPANTS

	Elementary School Students		Middle School Students		High School Students		All Students	
	OLS	PSM	OLS	PSM	OLS	PSM	OLS	PSM
Food Energy (kcal)							+	
Total fat								
Saturated fat								
Monounsaturated fat								
Polyunsaturated fat								
Linoleic acid								
Alpha-linolenic acid								
Carbohydrate					+		+	
Protein	+						+	
Total fat								
Saturated fat		+			-			
Monounsaturated fat								
Polyunsaturated fat								
Linoleic acid								
Alpha-linolenic acid								
Carbohydrate								
Protein								
Vitamin A (mg RAE)								
Vitamin C (mg)								
Vitamin E (mg)								
Vitamin B ₆ (mg)								
Vitamin B ₁₂ (mcg)	+							
Folate (mcg DFE)		-						
Niacin (mg)								-
Riboflavin (mg)							+	
Thiamin (mg)								
Calcium (mg)	+						+	+
Iron (mg)								
Magnesium (mg)							+	
Phosphorus (mg)	+						++	+
Potassium (mg)	++	+					++	++
Sodium (mg)					++		+	
Zinc (mg)								
Fiber (g)								
Fiber (g/1,000 kcal)								
Cholesterol (mg)								

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005.

+Difference between participants and matched nonparticipants is positive and significant at the .05 level.

++Difference between participants and matched nonparticipants is positive and significant at the .01 level.

-Difference between participants and matched nonparticipants is negative and significant at the .05 level.

--Difference between participants and matched nonparticipants is negative and significant at the .01 level.

APPENDIX J

**MEANS AND DISTRIBUTIONS OF USUAL DAILY INTAKES:
NATIONAL SCHOOL LUNCH PROGRAM PARTICIPANTS
AND NONPARTICIPANTS**

TABLE J.1a

ESTIMATED ENERGY REQUIREMENTS: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Estimated Energy Requirements (kcal)									
	N	Mean	SE	Percentiles						95
				5	10	25	50	75	90	
By Age/Gender Group										
6 to 8 Years ¹	331	1,574	12.0	1,312	1,346	1,417	1,527	1,683	1,867	1,997
NSLP Participants	243	1,578	14.1	1,320 ~	1,352	1,420	1,528	1,686	1,872	2,005 ~
NSLP Nonparticipants	88	1,564	23.2	1,295 ~	1,333 ~	1,408	1,520	1,677	1,858 ~	1,984 ~
9 to 13 Years	921	1,993	15.6	1,456	1,532	1,666	1,873	2,208	2,628	2,926
NSLP Participants	614	2,006	20.2	1,443	1,511	1,656	1,886	2,228	2,656	2,977
NSLP Nonparticipants	307	1,966	23.4	1,431 ~	1,519	1,698	1,880	2,144	2,556	2,820 ~
9 to 13 Years, Male	456	2,223	24.4	1,589	1,677	1,855	2,117	2,478	2,907	3,217
NSLP Participants	319	2,251	30.5	1,597 ~	1,665	1,836	2,136	2,548	2,997	3,298 ~
NSLP Nonparticipants	137	2,158	37.6	1,595 ~	1,695 ~	1,843	2,051	2,418	2,807 ~	3,015 ~
9 to 13 Years, Female	465	1,752	11.8	1,386	1,452	1,571	1,724	1,903	2,088	2,211
NSLP Participants	295	1,739	14.3	1,380 ~	1,446	1,565	1,715	1,888	2,064	2,179 ~
NSLP Nonparticipants	170	1,778	20.6	1,396 ~	1,464	1,587	1,746	1,936	2,135	2,267 ~
14 to 18 Years	976	2,411	20.1	1,697	1,759	1,916	2,261	2,768	3,285	3,622
NSLP Participants	486	2,484	30.1	1,682	1,765	1,976	2,346	2,853	3,398	3,757
NSLP Nonparticipants	490	2,348	26.7	1,681	1,748	1,899	2,181	2,665	3,223	3,552
14 to 18 Years, Male	494	2,874	25.7	2,128	2,260	2,493	2,782	3,148	3,598	3,939
NSLP Participants	277	2,892	36.3	2,115 ~	2,263	2,510	2,791	3,152	3,635	4,021 ~
NSLP Nonparticipants	217	2,855	36.2	2,147 ~	2,259	2,474	2,769	3,145	3,565	3,855 ~
14 to 18 Years, Female	482	1,960	10.7	1,645	1,695	1,792	1,923	2,091	2,274	2,398
NSLP Participants	209	1,954	15.6	1,647 ~	1,697	1,792	1,920	2,082	2,256	2,373 ~
NSLP Nonparticipants	273	1,964	14.6	1,643 ~	1,694	1,791	1,925	2,098	2,288	2,417 ~
All Students	2,228	2,041	12.4	1,387	1,461	1,626	1,886	2,303	2,863	3,233
NSLP Participants	1,343	2,013	16.2	1,386	1,449	1,587	1,840	2,278	2,836	3,221
NSLP Nonparticipants	885	2,090	19.2	1,395	1,506	1,698	1,940	2,363	2,894	3,251
All Students, Male	1,112	2,326	19.8	1,489	1,573	1,794	2,211	2,749	3,221	3,519
NSLP Participants	718	2,280	24.8	1,499	1,561	1,738	2,141	2,695	3,181	3,494
NSLP Nonparticipants	394	2,414	32.4	1,522	1,645	1,915	2,329	2,837	3,311	3,588
All Students, Female	1,116	1,757	8.7	1,331	1,394	1,538	1,734	1,942	2,140	2,271
NSLP Participants	625	1,712	11.1	1,326	1,378	1,495	1,675	1,892	2,098	2,221
NSLP Nonparticipants	491	1,821	13.3	1,370	1,447	1,610	1,813	2,002	2,186	2,322
By School Type										
Elementary School Students	706	1,748	14.3	1,339	1,382	1,481	1,650	1,911	2,242	2,491
NSLP Participants	518	1,758	17.5	1,344	1,393	1,496	1,655	1,901	2,245	2,525
NSLP Nonparticipants	188	1,713	23.4	1,320 ~	1,375	1,485	1,648	1,874	2,140	2,329 ~

TABLE J.1a

ESTIMATED ENERGY REQUIREMENTS: NSLP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Estimated Energy Requirements (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	360	1,917	22.3	1,446	1,501	1,619	1,813	2,105	2,470	2,741
NSLP Participants	266	1,935	27.4	1,459 ~	1,509	1,622	1,817	2,123	2,515	2,811 ~
NSLP Nonparticipants	94	1,865	35.5	1,410 ~	1,482 ~	1,619	1,808	2,052	2,324 ~	2,511 ~
Elementary School Students, Female	346	1,566	11.0	1,298	1,339	1,419	1,531	1,677	1,840	1,951
NSLP Participants	252	1,565	12.6	1,301 ~	1,342	1,421	1,531	1,675	1,834	1,943 ~
NSLP Nonparticipants	94	1,569	22.3	1,290 ~	1,332 ~	1,414	1,530	1,685	1,860 ~	1,980 ~
Middle School Students	761	2,216	19.7	1,626	1,690	1,818	2,056	2,480	2,997	3,328
NSLP Participants	479	2,270	26.3	1,634	1,702	1,841	2,102	2,565	3,116	3,449
NSLP Nonparticipants	282	2,136	29.0	1,601 ~	1,661	1,794	2,013	2,349	2,772	3,089 ~
Middle School Students, Male	377	2,562	29.6	1,757	1,894	2,152	2,489	2,892	3,323	3,615
NSLP Participants	263	2,592	37.5	1,719 ~	1,872	2,158	2,525	2,953	3,398	3,693 ~
NSLP Nonparticipants	114	2,506	47.6	1,846 ~	1,948 ~	2,145	2,419	2,777	3,182 ~	3,465 ~
Middle School Students, Female	384	1,898	11.7	1,591	1,640	1,733	1,862	2,026	2,206	2,328
NSLP Participants	216	1,913	14.8	1,608 ~	1,661	1,758	1,885	2,040	2,204	2,313 ~
NSLP Nonparticipants	168	1,881	18.7	1,575 ~	1,619	1,706	1,834	2,008	2,207	2,344 ~
High School Students	761	2,428	22.7	1,706	1,772	1,936	2,282	2,785	3,299	3,635
NSLP Participants	346	2,501	35.7	1,700	1,784	1,994	2,362	2,867	3,413	3,776
NSLP Nonparticipants	415	2,370	28.9	1,691	1,763	1,920	2,208	2,700	3,253	3,565
High School Students, Male	375	2,900	28.7	2,230	2,321	2,504	2,782	3,172	3,635	3,969
NSLP Participants	189	2,926	43.1	2,251 ~	2,333	2,506	2,784	3,199	3,709	4,082 ~
NSLP Nonparticipants	186	2,874	38.0	2,204 ~	2,306	2,505	2,783	3,150	3,565	3,854 ~
High School Students, Female	386	1,972	12.1	1,649	1,702	1,801	1,937	2,106	2,291	2,416
NSLP Participants	157	1,963	18.4	1,644 ~	1,698 ~	1,798	1,931	2,096	2,273 ~	2,391 ~
NSLP Nonparticipants	229	1,978	16.1	1,650 ~	1,703	1,803	1,940	2,115	2,305	2,434 ~
Secondary School Students	1,522	2,341	15.5	1,675	1,731	1,871	2,189	2,670	3,184	3,523
NSLP Participants	825	2,389	22.0	1,673	1,736	1,894	2,239	2,744	3,260	3,602
NSLP Nonparticipants	697	2,292	21.4	1,658	1,725	1,868	2,131	2,585	3,120	3,448
Secondary School Students, Male	752	2,763	21.3	1,942	2,099	2,371	2,692	3,071	3,507	3,828
NSLP Participants	452	2,769	29.1	1,897	2,070	2,364	2,697	3,085	3,545	3,890
NSLP Nonparticipants	300	2,756	31.2	2,013 ~	2,137	2,371	2,680	3,061	3,473	3,754 ~
Secondary School Students, Female	770	1,941	8.5	1,620	1,672	1,771	1,906	2,075	2,258	2,382
NSLP Participants	373	1,938	11.7	1,624	1,677	1,777	1,908	2,069	2,239	2,353
NSLP Nonparticipants	397	1,944	12.4	1,616	1,668	1,767	1,905	2,080	2,274	2,406

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Sample excludes students with unreliable height or weight data.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.1b

USUAL DAILY ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Energy Intakes (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	1,968	19.7	1,416	1,523	1,713	1,944	2,195	2,439	2,598
NSLP Participants	250	1,955	25.2	1,354 ~	1,468	1,674	1,931	2,206	2,461	2,629 ~
NSLP Nonparticipants	93	2,005	14.8	1,776 ~	1,824 ~	1,907	2,002	2,100	2,191 ~	2,246 ~
9 to 13 Years	953	2,103	16.3	1,361	1,501	1,752	2,060	2,405	2,755	2,990
NSLP Participants	633	2,123	19.2	1,393	1,531	1,780	2,087	2,426	2,762	2,976
NSLP Nonparticipants	320	2,059	29.1	1,316	1,448	1,691	2,002	2,363	2,736	2,990
9 to 13 Years, Male	469	2,239	19.7	1,607	1,727	1,941	2,203	2,496	2,795	2,994
NSLP Participants	326	2,231	23.7	1,582	1,706	1,929	2,201	2,501	2,795	2,984
NSLP Nonparticipants	143	2,258	28.9	1,746 ~	1,842 ~	2,016	2,228	2,468	2,711 ~	2,872 ~
9 to 13 Years, Female	484	1,960	23.3	1,185	1,331	1,596	1,923	2,284	2,639	2,865
NSLP Participants	307	2,006	28.0	1,264 ~	1,404	1,658	1,971	2,316	2,655	2,871 ~
NSLP Nonparticipants	177	1,870	42.4	1,041 ~	1,190	1,467	1,818	2,217	2,618	2,879 ~
14 to 18 Years	1,018	2,214	22.6	1,198	1,380	1,711	2,129	2,620	3,151	3,520
NSLP Participants	503	2,338	29.1	1,427	1,590	1,884	2,257	2,702	3,188	3,527
NSLP Nonparticipants	515	2,109	33.6	1,041	1,223	1,567	2,014	2,544	3,112	3,501
14 to 18 Years, Male	506	2,625	25.4	1,789	1,946	2,226	2,570	2,963	3,370	3,645
NSLP Participants	282	2,644	22.5	2,075 ~	2,184	2,379	2,616	2,877	3,139	3,309 ~
NSLP Nonparticipants	224	2,606	50.3	1,530 ~	1,728	2,083	2,523	3,034	3,584	3,965 ~
14 to 18 Years, Female	512	1,830	25.7	987	1,141	1,422	1,772	2,173	2,592	2,874
NSLP Participants	221	1,950	41.0	1,113 ~	1,268	1,532	1,862	2,281	2,754	3,082 ~
NSLP Nonparticipants	291	1,752	32.9	923 ~	1,072	1,349	1,701	2,099	2,498	2,756 ~
All Students	2,314	2,110	11.9	1,296	1,447	1,714	2,050	2,437	2,841	3,125
NSLP Participants	1,386	2,131	14.2	1,378	1,518	1,767	2,075	2,429	2,806	3,070
NSLP Nonparticipants	928	2,078	20.7	1,178	1,341	1,639	2,010	2,434	2,887	3,207
All Students, Male	1,143	2,326	15.4	1,575	1,715	1,965	2,274	2,627	3,000	3,256
NSLP Participants	733	2,288	17.8	1,588	1,720	1,954	2,241	2,567	2,911	3,148
NSLP Nonparticipants	410	2,399	30.0	1,537	1,691	1,973	2,329	2,746	3,192	3,500
All Students, Female	1,171	1,898	14.8	1,140	1,292	1,551	1,858	2,202	2,552	2,784
NSLP Participants	653	1,956	19.0	1,238	1,379	1,623	1,914	2,241	2,583	2,818
NSLP Nonparticipants	518	1,818	23.2	1,026	1,177	1,448	1,778	2,144	2,510	2,748
By School Type										
Elementary School Students	732	2,059	15.3	1,442	1,562	1,772	2,028	2,310	2,592	2,780
NSLP Participants	531	2,051	19.0	1,385	1,520	1,753	2,023	2,313	2,609	2,811
NSLP Nonparticipants	201	2,081	11.3	1,828 ~	1,880	1,970	2,075	2,185	2,289	2,354 ~

TABLE J.1b

USUAL DAILY ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Energy Intakes (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	2,167	22.5	1,524	1,648	1,869	2,132	2,423	2,724	2,930
NSLP Participants	271	2,128	29.7	1,402 ~	1,546	1,798	2,091	2,410	2,745	2,983 ~
NSLP Nonparticipants	101	2,246	49.0	1,545 ~	1,667 ~	1,896	2,191	2,536	2,897 ~	3,138 ~
Elementary School Students, Female	360	1,950	18.2	1,405	1,517	1,712	1,938	2,175	2,395	2,533
NSLP Participants	260	1,966	22.4	1,393 ~	1,511	1,717	1,955	2,204	2,436	2,579 ~
NSLP Nonparticipants	100	1,906	38.6	1,295 ~	1,421 ~	1,638	1,893	2,159	2,410 ~	2,564 ~
Middle School Students	787	2,024	21.4	1,154	1,307	1,594	1,962	2,387	2,822	3,107
NSLP Participants	497	2,102	27.5	1,209	1,367	1,663	2,041	2,475	2,916	3,205
NSLP Nonparticipants	290	1,907	33.0	1,095 ~	1,237	1,505	1,848	2,246	2,653	2,921 ~
Middle School Students, Male	386	2,222	26.1	1,468	1,605	1,858	2,176	2,536	2,899	3,136
NSLP Participants	270	2,294	31.0	1,535 ~	1,676	1,933	2,253	2,610	2,966	3,195 ~
NSLP Nonparticipants	116	2,075	41.3	1,415 ~	1,537 ~	1,760	2,037	2,349	2,663 ~	2,866 ~
Middle School Students, Female	401	1,846	30.4	984	1,139	1,421	1,775	2,190	2,639	2,950
NSLP Participants	227	1,892	42.4	1,007 ~	1,164	1,450	1,809	2,240	2,720	3,061 ~
NSLP Nonparticipants	174	1,794	43.4	960 ~	1,107	1,383	1,737	2,143	2,556	2,825 ~
High School Students	795	2,259	26.2	1,229	1,409	1,741	2,167	2,672	3,222	3,606
NSLP Participants	358	2,386	33.1	1,509	1,658	1,939	2,308	2,747	3,212	3,528
NSLP Nonparticipants	437	2,159	37.8	1,055	1,236	1,589	2,059	2,620	3,211	3,608
High School Students, Male	385	2,704	28.8	1,875	2,032	2,311	2,651	3,037	3,439	3,710
NSLP Participants	192	2,710	2.8	2,646 ~	2,660	2,683	2,709	2,736	2,760	2,774 ~
NSLP Nonparticipants	193	2,698	56.1	1,573 ~	1,786	2,161	2,617	3,142	3,706	4,098 ~
High School Students, Female	410	1,850	28.6	1,015	1,160	1,434	1,788	2,198	2,620	2,898
NSLP Participants	166	1,988	46.2	1,181 ~	1,311	1,564	1,903	2,319	2,773	3,087 ~
NSLP Nonparticipants	244	1,765	36.2	939 ~	1,085	1,360	1,710	2,111	2,516	2,780 ~
Secondary School Students	1,582	2,163	17.2	1,200	1,370	1,683	2,081	2,551	3,057	3,408
NSLP Participants	855	2,249	21.9	1,355	1,513	1,801	2,169	2,609	3,084	3,413
NSLP Nonparticipants	727	2,076	26.5	1,071	1,239	1,562	1,988	2,495	3,025	3,380
Secondary School Students, Male	771	2,504	21.3	1,646	1,805	2,090	2,444	2,851	3,277	3,565
NSLP Participants	462	2,512	23.1	1,784	1,919	2,163	2,465	2,809	3,164	3,400
NSLP Nonparticipants	309	2,492	40.0	1,485 ~	1,668	1,999	2,416	2,899	3,411	3,761 ~
Secondary School Students, Female	811	1,848	20.8	1,003	1,155	1,432	1,782	2,189	2,624	2,921
NSLP Participants	393	1,940	31.1	1,102	1,250	1,509	1,847	2,277	2,759	3,090
NSLP Nonparticipants	418	1,773	27.7	946	1,093	1,368	1,718	2,119	2,525	2,788

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.2

USUAL DAILY FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	71	1.1	43	48	57	69	83	96	105
NSLP Participants	250	70	1.2	42 ~	47	56	68	82	95	104 ~
NSLP Nonparticipants	93	73	2.0	45 ~	50 ~	59	71	85	99 ~	109 ~
9 to 13 Years	953	74	0.6	47	52	61	73	85	98	107
NSLP Participants	633	75	0.8	45	51	61	73	87	102	113
NSLP Nonparticipants	320	72	0.6	56	59	64	71	78	85	89
9 to 13 Years, Male	469	79	0.6	59	63	70	78	87	96	102
NSLP Participants	326	79	1.0	53	58	66	77	89	102	110
NSLP Nonparticipants	143	78	1.2	57 ~	61 ~	68	77	88	98 ~	104 ~
9 to 13 Years, Female	484	69	0.9	40	45	55	67	81	96	106
NSLP Participants	307	72	1.3	40 ~	46	56	69	84	100	112 ~
NSLP Nonparticipants	177	65	1.3	39 ~	44	53	64	76	88	96 ~
14 to 18 Years	1,018	83	0.9	42	49	62	79	99	121	136
NSLP Participants	503	87	1.1	52	58	69	84	102	120	133
NSLP Nonparticipants	515	79	1.4	34	41	55	75	98	122	138
14 to 18 Years, Male	506	99	0.9	68	74	85	97	112	126	136
NSLP Participants	282	99	0.3	92 ~	94	96	99	102	104	106 ~
NSLP Nonparticipants	224	99	2.1	54 ~	62	77	95	117	141	158 ~
14 to 18 Years, Female	512	67	1.1	32	38	49	64	82	101	114
NSLP Participants	221	72	1.7	39 ~	44	54	68	86	107	120 ~
NSLP Nonparticipants	291	64	1.5	28 ~	34	46	61	79	97	109 ~
All Students	2,314	76	0.5	44	49	60	74	90	107	118
NSLP Participants	1,386	77	0.6	46	51	61	74	89	106	117
NSLP Nonparticipants	928	75	0.8	41	47	58	72	90	108	120
All Students, Male	1,143	85	0.6	57	62	72	83	96	110	119
NSLP Participants	733	83	0.7	56	61	70	81	94	107	116
NSLP Nonparticipants	410	90	1.0	60	65	75	88	102	116	125
All Students, Female	1,171	68	0.6	37	42	53	66	80	96	106
NSLP Participants	653	70	0.9	39	45	55	68	83	99	110
NSLP Nonparticipants	518	64	0.9	33	39	49	62	77	92	102
By School Type										
Elementary School Students	732	73	0.7	46	50	59	71	85	98	107
NSLP Participants	531	73	0.9	43	49	59	71	84	99	109
NSLP Nonparticipants	201	72	0.5	61 ~	64	67	72	77	82	85 ~

TABLE J.2

USUAL DAILY FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	78	0.9	51	56	65	76	89	102	110
NSLP Participants	271	76	1.3	45 ~	51	61	73	88	103	114 ~
NSLP Nonparticipants	101	82	2.0	53 ~	58 ~	67	80	94	109 ~	118 ~
Elementary School Students, Female	360	68	0.8	44	48	57	67	78	88	95
NSLP Participants	260	69	1.1	42 ~	47	57	68	81	93	101 ~
NSLP Nonparticipants	100	64	1.3	44 ~	48 ~	55	63	72	81 ~	86 ~
Middle School Students	787	73	0.7	43	48	58	71	86	101	110
NSLP Participants	497	76	1.0	44	50	60	74	90	105	116
NSLP Nonparticipants	290	69	1.1	42 ~	47	55	67	80	93	102 ~
Middle School Students, Male	386	80	0.6	61	65	72	80	88	96	101
NSLP Participants	270	83	0.8	61 ~	66	73	82	92	101	107 ~
NSLP Nonparticipants	116	75	1.1	56 ~	60 ~	66	74	83	91 ~	96 ~
Middle School Students, Female	401	67	1.2	33	39	49	63	80	99	113
NSLP Participants	227	69	1.7	34 ~	40	50	65	83	104	118 ~
NSLP Nonparticipants	174	64	1.8	32 ~	37	47	61	78	96	109 ~
High School Students	795	84	1.1	41	49	62	80	102	125	141
NSLP Participants	358	89	1.4	53	59	71	86	104	123	137
NSLP Nonparticipants	437	81	1.6	34	42	56	76	100	125	142
High School Students, Male	385	102	1.1	70	76	87	100	115	131	141
NSLP Participants	192	101	1.5	71 ~	77	87	99	113	128	137 ~
NSLP Nonparticipants	193	102	2.3	56 ~	65	80	99	121	144	160 ~
High School Students, Female	410	68	1.3	31	38	50	65	83	102	116
NSLP Participants	166	74	2.1	39 ~	44	55	69	88	109	125 ~
NSLP Nonparticipants	244	65	1.6	29 ~	35	47	62	79	97	109 ~
Secondary School Students	1,582	80	0.7	42	49	61	77	95	115	129
NSLP Participants	855	83	0.8	48	54	65	80	97	115	128
NSLP Nonparticipants	727	77	1.0	37	44	56	73	93	114	128
Secondary School Students, Male	771	93	0.7	65	70	80	92	105	118	126
NSLP Participants	462	93	0.6	72	76	83	92	101	110	116
NSLP Nonparticipants	309	94	1.4	59 ~	65	77	92	108	125	136 ~
Secondary School Students, Female	811	68	0.9	33	38	50	64	82	101	114
NSLP Participants	393	71	1.3	37	42	53	67	86	107	121
NSLP Nonparticipants	418	64	1.2	30	36	47	62	79	97	109

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.4

USUAL DAILY SATURATED FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Saturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	24.9	0.43	14.0	15.9	19.4	23.8	29.2	35.2	39.5
NSLP Participants	250	25.0	0.53	13.5 ~	15.5	19.3	24.1	29.3	35.2	39.8 ~
NSLP Nonparticipants	93	25.0	0.72	15.2 ~	16.9 ~	20.0	24.1	29.3	34.6 ~	37.9 ~
9 to 13 Years	953	25.6	0.19	16.8	18.5	21.6	25.3	29.2	33.1	35.6
NSLP Participants	633	26.1	0.25	16.8	18.6	21.7	25.5	29.9	34.3	37.2
NSLP Nonparticipants	320	24.4	0.20	18.8	19.9	21.9	24.2	26.7	29.1	30.6
9 to 13 Years, Male	469	27.4	0.13	22.8	23.7	25.4	27.3	29.3	31.2	32.4
NSLP Participants	326	27.4	0.24	20.7	22.1	24.4	27.2	30.2	33.1	34.8
NSLP Nonparticipants	143	27.5	0.29	22.1 ~	23.1 ~	25.0	27.3	29.7	32.1 ~	33.6 ~
9 to 13 Years, Female	484	23.7	0.31	13.7	15.6	19.0	23.2	27.8	32.5	35.7
NSLP Participants	307	24.6	0.42	14.2 ~	16.1	19.5	23.8	28.8	34.2	37.9 ~
NSLP Nonparticipants	177	21.7	0.46	12.7 ~	14.2	17.1	21.1	25.6	29.9	32.5 ~
14 to 18 Years	1,018	28.2	0.34	13.3	15.8	20.5	26.7	34.3	42.6	48.4
NSLP Participants	503	29.5	0.41	17.0	19.1	23.0	28.2	34.6	41.6	46.4
NSLP Nonparticipants	515	27.1	0.53	10.8	13.3	18.4	25.4	34.0	43.3	49.6
14 to 18 Years, Male	506	34.0	0.42	20.5	22.9	27.3	33.0	39.5	46.4	51.0
NSLP Participants	282	33.5	0.19	28.5 ~	29.5	31.3	33.4	35.6	37.7	39.1 ~
NSLP Nonparticipants	224	34.4	0.90	15.9 ~	18.9	24.7	32.6	42.1	52.2	59.1 ~
14 to 18 Years, Female	512	22.9	0.38	10.9	12.9	16.8	21.7	27.7	34.1	38.6
NSLP Participants	221	24.3	0.58	12.9 ~	14.8	18.2	22.8	28.9	35.8	40.6 ~
NSLP Nonparticipants	291	21.9	0.50	9.9 ~	11.9	15.7	20.9	27.0	33.3	37.6 ~
All Students	2,314	26.4	0.17	14.8	16.9	20.6	25.4	31.0	37.1	41.3
NSLP Participants	1,386	26.6	0.20	16.0	17.9	21.3	25.7	30.9	36.5	40.4
NSLP Nonparticipants	928	25.9	0.29	13.4	15.5	19.5	24.8	31.0	37.6	42.2
All Students, Male	1,143	29.6	0.21	19.2	21.0	24.5	28.9	33.8	39.0	42.4
NSLP Participants	733	28.9	0.23	19.8	21.5	24.5	28.3	32.6	37.1	40.1
NSLP Nonparticipants	410	30.7	0.42	18.4	20.6	24.6	29.8	35.9	42.0	46.1
All Students, Female	1,171	23.2	0.21	12.7	14.6	18.1	22.4	27.4	32.7	36.3
NSLP Participants	653	24.1	0.29	13.6	15.4	18.8	23.3	28.5	33.8	37.3
NSLP Nonparticipants	518	21.9	0.32	11.4	13.3	16.8	21.2	26.2	31.5	35.1
By School Type										
Elementary School Students	732	25.6	0.26	15.5	17.4	20.7	24.9	29.6	34.5	37.9
NSLP Participants	531	25.6	0.33	14.8	16.7	20.3	24.8	29.7	35.1	39.1
NSLP Nonparticipants	201	24.6	0.28	18.8 ~	19.8	21.7	24.1	27.0	29.9	31.9 ~

TABLE J.4

USUAL DAILY SATURATED FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

	N	Mean	SE	Saturated Fat Intakes (g)						
				Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	27.1	0.40	16.2	18.1	21.6	26.1	31.5	37.3	41.3
NSLP Participants	271	26.8	0.51	15.3 ~	17.4	21.1	25.8	31.2	37.2	41.8 ~
NSLP Nonparticipants	101	27.7	0.51	20.1 ~	21.4 ~	23.9	27.2	31.0	34.6 ~	37.0 ~
Elementary School Students, Female	360	23.6	0.29	15.2	16.8	19.7	23.3	27.1	30.9	33.3
NSLP Participants	260	24.2	0.41	14.4 ~	16.2	19.5	23.6	28.2	32.8	35.8 ~
NSLP Nonparticipants	100	22.4	0.31	17.4 ~	18.4 ~	20.2	22.3	24.4	26.4 ~	27.7 ~
Middle School Students	787	25.2	0.25	15.2	17.0	20.3	24.5	29.3	34.3	37.6
NSLP Participants	497	26.7	0.32	16.3	18.2	21.7	26.0	30.9	36.0	39.3
NSLP Nonparticipants	290	22.9	0.36	14.0 ~	15.6	18.5	22.3	26.6	31.1	34.0 ~
Middle School Students, Male	386	28.4	0.15	23.7	24.7	26.3	28.3	30.3	32.2	33.4
NSLP Participants	270	29.6	0.22	24.0 ~	25.1	27.1	29.4	31.9	34.2	35.7 ~
NSLP Nonparticipants	116	25.9	0.28	21.1 ~	22.1 ~	23.7	25.7	27.8	29.8 ~	31.1 ~
Middle School Students, Female	401	22.3	0.39	11.4	13.2	16.7	21.3	26.8	32.6	36.5
NSLP Participants	227	23.5	0.54	12.2 ~	14.1	17.7	22.5	28.2	34.3	38.5 ~
NSLP Nonparticipants	174	20.9	0.57	10.6 ~	12.3	15.5	19.9	25.2	30.8	34.7 ~
High School Students	795	28.7	0.40	13.3	15.8	20.6	27.1	35.0	43.7	49.8
NSLP Participants	358	29.8	0.47	17.7	19.7	23.5	28.6	34.7	41.4	46.0
NSLP Nonparticipants	437	27.9	0.61	10.7	13.3	18.6	26.0	35.1	45.0	51.8
High School Students, Male	385	34.9	0.48	21.2	23.6	28.2	33.9	40.6	47.4	51.8
NSLP Participants	192	33.9	0.15	30.6 ~	31.3	32.4	33.8	35.2	36.5	37.3 ~
NSLP Nonparticipants	193	35.8	0.97	16.7 ~	20.0	26.3	34.2	43.4	53.5	60.4 ~
High School Students, Female	410	23.0	0.45	10.6	12.7	16.6	21.8	28.1	34.9	39.7
NSLP Participants	166	24.6	0.65	13.6 ~	15.4	18.6	23.1	29.0	35.6	40.3 ~
NSLP Nonparticipants	244	22.1	0.60	9.2 ~	11.2	15.3	20.9	27.5	34.6	39.3 ~
Secondary School Students	1,582	27.3	0.24	14.3	16.5	20.7	26.1	32.6	39.6	44.4
NSLP Participants	855	28.3	0.27	17.2	19.2	22.7	27.3	32.8	38.6	42.5
NSLP Nonparticipants	727	26.3	0.39	11.9	14.2	18.7	24.8	32.2	40.2	45.6
Secondary School Students, Male	771	32.2	0.24	22.3	24.2	27.6	31.7	36.3	41.0	44.0
NSLP Participants	462	31.8	0.12	27.8	28.6	30.0	31.7	33.5	35.1	36.1
NSLP Nonparticipants	309	32.8	0.52	19.3 ~	21.7	26.3	32.0	38.4	44.9	49.1 ~
Secondary School Students, Female	811	22.7	0.29	11.1	13.1	16.8	21.6	27.4	33.7	38.1
NSLP Participants	393	24.0	0.41	13.0	14.8	18.2	22.8	28.5	34.8	39.2
NSLP Nonparticipants	418	21.7	0.41	9.9	11.8	15.6	20.6	26.6	32.9	37.2

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.5

USUAL DAILY SATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	N	Mean	SE	Percent of Energy from Saturated Fat (% kcal)						DGA (<10%)		
				Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By Age/Gender Group												
6 to 8 Years ¹	343	11.2	0.08	8.8	9.3	10.2	11.2	12.2	13.3	13.9	78.7	9.94
NSLP Participants	250	11.3	0.10	8.9 ~	9.4	10.2	11.2	12.2	13.3	14.0 ~	79.4	11.10
NSLP Nonparticipants	93	11.2	0.12	9.3 ~	9.7 ~	10.4	11.2	12.0	12.7 ~	13.1 ~	85.0 ~	42.60
9 to 13 Years	953	10.8	0.02	9.9	10.1	10.4	10.8	11.2	11.6	11.8	92.5 ~	36.00
NSLP Participants	633	11.0	0.04	9.4	9.7	10.3	11.0	11.6	12.2	12.6	84.3	16.20
NSLP Nonparticipants	320	10.5	0.04	9.5	9.7	10.0	10.5	10.9	11.3	11.6	77.2 ~	82.60
9 to 13 Years, Male	469	10.9	0.03	9.7	10.0	10.4	10.9	11.3	11.8	12.1	89.5 ~	42.10
NSLP Participants	326	11.0	0.07	9.1	9.5	10.2	11.0	11.8	12.5	13.0	80.4	16.00
NSLP Nonparticipants	143	10.6	0.06	9.4 ~	9.6 ~	10.1	10.6	11.1	11.6 ~	11.9 ~	77.3 ~	115.00
9 to 13 Years, Female	484	10.8	0.01	10.3	10.4	10.6	10.8	11.0	11.2	11.3	>97 ~	
NSLP Participants	307	10.9	0.04	9.9 ~	10.1	10.5	10.9	11.4	11.8	12.1 ~	92.3 ~	44.30
NSLP Nonparticipants	177	10.4	0.02	9.9 ~	10.0	10.2	10.4	10.6	10.8	10.9 ~	89.1 ~	403.00
14 to 18 Years	1,018	11.2	0.05	8.5	9.1	10.1	11.1	12.2	13.3	13.9	76.2	5.73
NSLP Participants	503	11.2	0.07	8.7	9.2	10.1	11.2	12.3	13.3	13.9	77.5	6.67
NSLP Nonparticipants	515	11.1	0.08	8.3	8.9	9.9	11.1	12.3	13.4	14.1	73.4	8.04
14 to 18 Years, Male	506	11.4	0.08	8.4	9.0	10.1	11.3	12.7	13.9	14.7	76.7	5.76
NSLP Participants	282	11.3	0.08	9.1 ~	9.5	10.3	11.3	12.2	13.1	13.6 ~	82.5	13.70
NSLP Nonparticipants	224	11.6	0.16	7.9 ~	8.6	9.9	11.4	13.1	14.7	15.7 ~	73.5	6.15
14 to 18 Years, Female	512	10.9	0.06	8.7	9.2	10.0	10.9	11.9	12.7	13.2	74.6	11.20
NSLP Participants	221	11.1	0.11	8.4 ~	9.0	10.0	11.1	12.2	13.3	13.9 ~	74.2	7.68
NSLP Nonparticipants	291	10.8	0.07	8.8 ~	9.2	9.9	10.8	11.6	12.4	12.9 ~	73.7	21.90
All Students	2,314	11.0	0.03	9.0	9.5	10.2	11.0	11.9	12.7	13.1	79.8	6.37
NSLP Participants	1,386	11.1	0.04	9.0	9.5	10.2	11.1	12.0	12.8	13.3	80.5	6.16
NSLP Nonparticipants	928	10.9	0.04	9.1	9.5	10.1	10.9	11.7	12.4	12.8	78.8	15.30
All Students, Male	1,143	11.2	0.04	9.1	9.6	10.3	11.2	12.1	12.9	13.4	82.6	8.51
NSLP Participants	733	11.2	0.05	9.1	9.6	10.3	11.2	12.0	12.9	13.4	82.1	8.86
NSLP Nonparticipants	410	11.3	0.06	9.3	9.7	10.4	11.2	12.1	12.9	13.4	84.6	21.10
All Students, Female	1,171	10.9	0.03	9.0	9.4	10.1	10.8	11.6	12.4	12.8	77.1	9.64
NSLP Participants	653	11.0	0.05	8.9	9.4	10.1	11.0	11.9	12.7	13.3	77.8	8.24
NSLP Nonparticipants	518	10.6	0.05	8.9	9.2	9.9	10.6	11.4	12.1	12.5	71.5	17.20
By School Type												
Elementary School Students	732	11.0	0.04	9.3	9.7	10.3	10.9	11.6	12.3	12.7	82.7	15.70
NSLP Participants	531	11.1	0.06	8.9	9.3	10.1	11.0	11.9	12.9	13.4	77.5	8.76
NSLP Nonparticipants	201	10.8	0.08	9.0 ~	9.4	10.0	10.8	11.6	12.3	12.8 ~	75.9 ~	38.80

TABLE J.5

USUAL DAILY SATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Percent of Energy from Saturated Fat (% kcal)										DGA (<10%)	
	N	Mean	SE	Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By School Type												
Elementary School Students, Male	372	11.1	0.08	8.8	9.3	10.1	11.0	12.0	13.0	13.6	77.1	10.90
NSLP Participants	271	11.1	0.10	8.4 ~	9.0	10.0	11.0	12.2	13.3	14.1 ~	74.2	7.97
NSLP Nonparticipants	101	11.0	0.16	8.6 ~	9.0 ~	9.9	11.0	12.1	13.1 ~	13.7 ~	72.9 ~	27.70
Elementary School Students, Female	360	10.9	0.03	10.0	10.2	10.5	10.9	11.3	11.6	11.8	94.7 ~	56.20
NSLP Participants	260	11.0	0.07	9.2 ~	9.5	10.2	10.9	11.7	12.5	13.0 ~	80.0	18.00
NSLP Nonparticipants	100	10.6	0.06	9.7 ~	9.9 ~	10.2	10.6	11.0	11.4 ~	11.6 ~	86.0 ~	190.00
Middle School Students	787	11.0	0.04	9.4	9.8	10.4	11.0	11.7	12.3	12.7	85.0	17.10
NSLP Participants	497	11.4	0.05	9.4	9.9	10.6	11.4	12.2	12.9	13.4	87.8	12.60
NSLP Nonparticipants	290	10.5	0.03	9.8 ~	9.9	10.2	10.5	10.8	11.1	11.3 ~	86.5 ~	157.00
Middle School Students, Male	386	11.4	0.05	9.9	10.2	10.7	11.3	12.0	12.6	12.9	93.0	24.70
NSLP Participants	270	11.6	0.07	9.7 ~	10.1	10.8	11.6	12.4	13.1	13.6 ~	91.6	16.70
NSLP Nonparticipants	116	10.8	0.10	9.2 ~	9.5 ~	10.1	10.8	11.5	12.1 ~	12.5 ~	78.4 ~	66.50
Middle School Students, Female	401	10.7	0.06	8.9	9.3	10.0	10.7	11.5	12.2	12.6	74.8	17.00
NSLP Participants	227	11.2	0.08	9.3 ~	9.7	10.4	11.1	11.9	12.6	13.1 ~	84.3	21.10
NSLP Nonparticipants	174	10.3	0.08	8.5 ~	8.8	9.5	10.2	11.0	11.7	12.1 ~	58.8	13.90
High School Students	795	11.1	0.06	8.4	9.0	10.0	11.1	12.2	13.3	14.0	74.3	5.78
NSLP Participants	358	11.0	0.08	8.6	9.1	10.0	11.0	12.0	13.0	13.6	74.9	8.09
NSLP Nonparticipants	437	11.2	0.09	8.1	8.7	9.9	11.1	12.5	13.7	14.4	72.6	7.14
High School Students, Male	385	11.3	0.09	8.6	9.2	10.1	11.3	12.5	13.6	14.4	77.4	7.82
NSLP Participants	192	11.0	0.07	9.6 ~	9.9	10.4	11.0	11.7	12.2	12.6 ~	87.6 ~	36.30
NSLP Nonparticipants	193	11.6	0.17	8.0 ~	8.7	10.0	11.5	13.1	14.7	15.7 ~	75.2	6.98
High School Students, Female	410	10.9	0.08	8.2	8.8	9.8	10.9	12.0	13.0	13.7	70.8	8.14
NSLP Participants	166	11.0	0.15	7.8 ~	8.5	9.6	11.0	12.3	13.6	14.4 ~	68.8	5.71
NSLP Nonparticipants	244	10.8	0.10	8.2 ~	8.8	9.7	10.8	11.9	12.9	13.6 ~	69.5	12.70
Secondary School Students	1,582	11.1	0.03	8.9	9.4	10.2	11.1	12.0	12.9	13.4	78.6	6.55
NSLP Participants	855	11.2	0.04	9.1	9.6	10.3	11.2	12.1	12.9	13.4	82.8	8.31
NSLP Nonparticipants	727	11.0	0.06	8.5	9.0	9.9	10.9	12.0	12.9	13.5	73.2	8.63
Secondary School Students, Male	771	11.4	0.05	9.3	9.8	10.5	11.3	12.2	13.0	13.5	86.0	11.80
NSLP Participants	462	11.3	0.05	9.6	9.9	10.6	11.3	12.0	12.7	13.1	89.0	16.20
NSLP Nonparticipants	309	11.4	0.08	9.2 ~	9.7	10.5	11.4	12.3	13.2	13.7 ~	84.7	19.80
Secondary School Students, Female	811	10.8	0.05	8.6	9.1	9.9	10.8	11.8	12.6	13.2	72.8	8.05
NSLP Participants	393	11.1	0.07	8.7	9.2	10.1	11.1	12.0	13.0	13.6	76.9	8.12
NSLP Nonparticipants	418	10.6	0.07	8.3	8.8	9.6	10.6	11.6	12.6	13.1	66.5	9.59

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

DGA = Recommendation from the Dietary Guidelines for Americans.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.6

USUAL DAILY MONOUNSATURATED FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Monounsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	27.0	0.37	16.9	18.7	22.1	26.3	31.2	36.1	39.3
NSLP Participants	250	26.6	0.43	16.6 ~	18.4	21.7	25.9	30.7	35.6	38.7 ~
NSLP Nonparticipants	93	28.2	0.69	18.5 ~	20.3 ~	23.5	27.6	32.3	37.0 ~	40.1 ~
9 to 13 Years	953	28.4	0.23	18.2	20.1	23.5	27.8	32.6	37.6	40.9
NSLP Participants	633	28.8	0.33	16.8	18.9	22.9	27.8	33.6	39.7	43.9
NSLP Nonparticipants	320	27.8	0.11	24.8	25.4	26.5	27.8	29.1	30.3	31.0
9 to 13 Years, Male	469	30.0	0.25	21.9	23.4	26.2	29.6	33.4	37.1	39.5
NSLP Participants	326	29.8	0.43	18.6	20.6	24.4	29.0	34.4	39.9	43.7
NSLP Nonparticipants	143	30.1	0.50	21.2 ~	22.9 ~	25.9	29.7	33.8	37.9 ~	40.6 ~
9 to 13 Years, Female	484	26.8	0.35	15.5	17.5	21.3	26.1	31.5	37.0	40.6
NSLP Participants	307	27.6	0.49	15.2 ~	17.4	21.4	26.7	32.8	39.0	43.1 ~
NSLP Nonparticipants	177	25.2	0.54	14.8 ~	16.6	20.1	24.5	29.6	34.8	38.1 ~
14 to 18 Years	1,018	32.0	0.37	15.8	18.6	23.7	30.4	38.5	47.4	53.6
NSLP Participants	503	33.8	0.45	19.9	22.2	26.6	32.5	39.6	47.0	52.0
NSLP Nonparticipants	515	30.5	0.57	12.9	15.8	21.3	28.6	37.7	47.7	54.7
14 to 18 Years, Male	506	38.6	0.31	28.2	30.2	33.7	38.0	42.8	47.7	50.8
NSLP Participants	282	38.2	0.37	28.8 ~	30.6	33.8	37.8	42.1	46.4	49.2 ~
NSLP Nonparticipants	224	38.8	0.84	21.4 ~	24.4	29.9	37.1	45.7	55.2	61.8 ~
14 to 18 Years, Female	512	26.0	0.46	11.4	13.9	18.6	24.7	32.0	39.7	44.8
NSLP Participants	221	28.0	0.75	13.6 ~	15.9	20.2	26.1	34.0	43.1	49.2 ~
NSLP Nonparticipants	291	24.6	0.56	11.0 ~	13.3	17.7	23.6	30.3	37.2	41.8 ~
All Students	2,314	29.4	0.19	16.7	18.9	23.0	28.3	34.5	41.2	45.7
NSLP Participants	1,386	29.5	0.24	17.2	19.3	23.3	28.4	34.4	40.9	45.5
NSLP Nonparticipants	928	29.3	0.31	16.0	18.2	22.5	28.1	34.8	41.8	46.6
All Students, Male	1,143	32.7	0.21	22.4	24.3	27.8	32.0	36.9	41.8	45.1
NSLP Participants	733	31.5	0.27	21.1	23.0	26.5	30.8	35.8	40.9	44.4
NSLP Nonparticipants	410	35.0	0.34	24.7	26.6	30.1	34.4	39.3	44.2	47.4
All Students, Female	1,171	26.1	0.25	13.9	16.1	20.1	25.2	31.1	37.3	41.5
NSLP Participants	653	27.2	0.35	14.6	16.9	20.9	26.0	32.1	38.8	43.5
NSLP Nonparticipants	518	24.7	0.36	12.8	14.9	18.9	23.9	29.6	35.4	39.2
By School Type										
Elementary School Students	732	27.9	0.25	18.1	19.9	23.3	27.3	31.9	36.7	39.9
NSLP Participants	531	27.7	0.34	16.6	18.6	22.3	26.9	32.2	37.9	41.8
NSLP Nonparticipants	201	28.1	0.53	17.2 ~	19.2	22.8	27.4	32.7	38.0	41.5 ~

TABLE J.6

USUAL DAILY MONOUNSATURATED FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

	Monounsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	29.5	0.30	20.8	22.5	25.4	29.0	33.1	37.1	39.6
NSLP Participants	271	28.5	0.48	17.1 ~	19.1	22.9	27.7	33.3	39.1	42.9 ~
NSLP Nonparticipants	101	32.0	0.66	22.2 ~	24.0 ~	27.3	31.4	36.1	40.8 ~	43.9 ~
Elementary School Students, Female	360	26.2	0.34	16.5	18.3	21.6	25.7	30.2	34.6	37.4
NSLP Participants	260	26.9	0.44	16.2 ~	18.2	21.8	26.3	31.3	36.3	39.5 ~
NSLP Nonparticipants	100	24.4	0.48	17.0 ~	18.5 ~	21.1	24.1	27.5	30.7 ~	32.7 ~
Middle School Students	787	28.2	0.28	16.6	18.7	22.5	27.4	33.1	38.8	42.5
NSLP Participants	497	29.3	0.40	16.3	18.6	22.9	28.3	34.7	41.2	45.4
NSLP Nonparticipants	290	26.7	0.37	17.5 ~	19.1	22.2	26.1	30.5	34.9	37.8 ~
Middle School Students, Male	386	30.8	0.25	23.1	24.6	27.3	30.6	34.0	37.4	39.5
NSLP Participants	270	31.6	0.38	22.1 ~	23.9	27.2	31.2	35.6	39.9	42.6 ~
NSLP Nonparticipants	116	29.3	0.46	21.7 ~	23.2 ~	25.8	29.0	32.5	35.9 ~	38.0 ~
Middle School Students, Female	401	25.8	0.48	12.6	14.8	19.0	24.5	31.2	38.6	43.7
NSLP Participants	227	26.7	0.71	12.5 ~	14.8	19.0	24.9	32.6	41.2	46.9 ~
NSLP Nonparticipants	174	24.9	0.66	12.7 ~	14.7	18.6	23.7	30.0	36.5	41.0 ~
High School Students	795	32.7	0.45	15.5	18.4	23.8	31.0	39.6	49.1	55.8
NSLP Participants	358	34.5	0.56	20.2	22.5	27.0	33.1	40.5	48.3	53.7
NSLP Nonparticipants	437	31.3	0.66	12.8	15.8	21.5	29.2	38.7	49.3	56.7
High School Students, Male	385	39.7	0.42	27.5	29.8	33.9	39.0	44.7	50.6	54.5
NSLP Participants	192	39.2	0.54	28.2 ~	30.2	33.9	38.6	43.8	49.0	52.5 ~
NSLP Nonparticipants	193	39.9	0.95	21.5 ~	24.8	30.7	38.3	47.3	57.1	64.0 ~
High School Students, Female	410	26.2	0.51	11.6	14.0	18.7	24.9	32.3	40.1	45.2
NSLP Participants	166	28.4	0.87	14.0 ~	16.3	20.5	26.3	34.3	43.6	50.0 ~
NSLP Nonparticipants	244	24.8	0.62	10.8 ~	13.2	17.8	23.8	30.7	37.8	42.4 ~
Secondary School Students	1,582	30.9	0.27	16.1	18.6	23.3	29.5	36.9	44.8	50.2
NSLP Participants	855	32.0	0.34	18.1	20.4	24.8	30.7	37.7	45.1	50.2
NSLP Nonparticipants	727	29.8	0.41	14.4	17.0	21.8	28.3	36.0	44.4	50.2
Secondary School Students, Male	771	36.1	0.26	25.2	27.3	31.0	35.5	40.5	45.7	49.1
NSLP Participants	462	35.7	0.26	27.2	28.9	31.8	35.3	39.2	43.0	45.4
NSLP Nonparticipants	309	36.4	0.51	23.3 ~	25.7	30.1	35.5	41.8	48.3	52.6 ~
Secondary School Students, Female	811	26.1	0.35	12.2	14.5	18.9	24.7	31.8	39.4	44.6
NSLP Participants	393	27.5	0.55	13.3	15.6	19.8	25.6	33.4	42.3	48.3
NSLP Nonparticipants	418	24.8	0.45	11.6	13.8	18.1	23.8	30.4	37.1	41.6

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.7

USUAL DAILY MONOUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
NSLP PARTICIPANTS AND NONPARTICIPANTS

	Percent of Energy from Monounsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	12.2	0.09	9.7	10.2	11.1	12.2	13.3	14.4	15.0
NSLP Participants	250	12.2	0.10	9.7 ~	10.3	11.1	12.1	13.1	14.1	14.7 ~
NSLP Nonparticipants	93	12.5	0.23	9.1 ~	9.8 ~	10.9	12.3	13.9	15.4 ~	16.3 ~
9 to 13 Years	953	12.0	0.04	10.1	10.5	11.2	12.0	12.8	13.5	13.9
NSLP Participants	633	12.0	0.07	9.2	9.8	10.8	12.0	13.2	14.3	14.9
NSLP Nonparticipants	320	11.9	0.07	9.8	10.3	11.0	11.9	12.8	13.6	14.2
9 to 13 Years, Male	469	11.8	0.04	10.4	10.7	11.2	11.8	12.4	12.9	13.2
NSLP Participants	326	11.8	0.10	8.9	9.5	10.6	11.8	13.0	14.1	14.8
NSLP Nonparticipants	143	11.8	0.07	10.3 ~	10.6 ~	11.2	11.8	12.4	12.9 ~	13.2 ~
9 to 13 Years, Female	484	12.2	0.06	10.0	10.5	11.3	12.2	13.1	13.9	14.4
NSLP Participants	307	12.2	0.09	9.6 ~	10.2	11.1	12.2	13.3	14.4	15.1 ~
NSLP Nonparticipants	177	12.1	0.05	10.9 ~	11.1	11.6	12.1	12.6	13.0	13.3 ~
14 to 18 Years	1,018	12.7	0.06	9.7	10.4	11.5	12.7	13.9	15.1	15.8
NSLP Participants	503	12.8	0.07	10.2	10.7	11.7	12.8	13.9	14.9	15.6
NSLP Nonparticipants	515	12.6	0.09	9.3	10.0	11.2	12.6	13.9	15.2	15.9
14 to 18 Years, Male	506	12.9	0.03	11.9	12.1	12.5	12.9	13.4	13.8	14.0
NSLP Participants	282	12.9	0.03	11.9 ~	12.1	12.5	12.8	13.2	13.6	13.8 ~
NSLP Nonparticipants	224	13.0	0.06	11.6 ~	11.9	12.5	13.0	13.6	14.1	14.5 ~
14 to 18 Years, Female	512	12.5	0.11	8.5	9.4	10.8	12.4	14.0	15.6	16.7
NSLP Participants	221	12.8	0.17	8.9 ~	9.6	11.0	12.6	14.4	16.1	17.1 ~
NSLP Nonparticipants	291	12.3	0.14	8.3 ~	9.2	10.6	12.2	13.8	15.4	16.4 ~
All Students	2,314	12.3	0.03	9.8	10.3	11.2	12.2	13.3	14.3	14.9
NSLP Participants	1,386	12.3	0.05	9.5	10.1	11.1	12.2	13.4	14.5	15.2
NSLP Nonparticipants	928	12.3	0.04	10.4	10.8	11.5	12.3	13.2	13.9	14.4
All Students, Male	1,143	12.4	0.02	11.1	11.4	11.9	12.4	12.9	13.4	13.7
NSLP Participants	733	12.2	0.05	9.9	10.4	11.2	12.2	13.1	14.0	14.5
NSLP Nonparticipants	410	12.8	0.04	11.4	11.7	12.2	12.8	13.3	13.9	14.2
All Students, Female	1,171	12.2	0.06	9.1	9.7	10.9	12.1	13.5	14.7	15.6
NSLP Participants	653	12.3	0.08	9.1	9.8	11.0	12.3	13.6	15.0	15.8
NSLP Nonparticipants	518	12.0	0.09	8.8	9.5	10.7	12.0	13.3	14.6	15.4
By School Type										
Elementary School Students	732	12.0	0.06	9.6	10.2	11.0	12.0	13.0	14.0	14.6
NSLP Participants	531	12.0	0.08	9.3	9.9	10.8	12.0	13.1	14.2	14.9
NSLP Nonparticipants	201	12.1	0.13	9.3 ~	9.9	10.9	12.1	13.3	14.5	15.2 ~

TABLE J.7
USUAL DAILY MONOUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Percent of Energy from Monounsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	12.1	0.05	10.4	10.8	11.4	12.1	12.7	13.4	13.8
NSLP Participants	271	11.9	0.10	9.3 ~	9.9	10.8	11.8	12.9	13.9	14.5 ~
NSLP Nonparticipants	101	12.7	0.11	10.9 ~	11.3 ~	12.0	12.7	13.5	14.2 ~	14.7 ~
Elementary School Students, Female	360	12.0	0.09	9.3	9.9	10.9	11.9	13.1	14.2	14.9
NSLP Participants	260	12.2	0.12	9.2 ~	9.9	10.9	12.1	13.4	14.6	15.4 ~
NSLP Nonparticipants	100	11.5	0.20	8.3 ~	9.0 ~	10.1	11.4	12.9	14.2 ~	15.0 ~
Middle School Students	787	12.4	0.03	10.8	11.2	11.7	12.4	13.0	13.6	13.9
NSLP Participants	497	12.4	0.07	9.8	10.4	11.3	12.4	13.5	14.4	15.0
NSLP Nonparticipants	290	12.3	0.06	10.7 ~	11.0	11.6	12.3	13.0	13.6	14.0 ~
Middle School Students, Male	386	12.4	0.05	10.9	11.2	11.8	12.4	13.0	13.5	13.9
NSLP Participants	270	12.3	0.08	10.2 ~	10.6	11.4	12.3	13.2	14.0	14.4 ~
NSLP Nonparticipants	116	12.5	0.09	10.9 ~	11.3 ~	11.8	12.5	13.1	13.7 ~	14.1 ~
Middle School Students, Female	401	12.4	0.07	10.0	10.5	11.4	12.3	13.3	14.2	14.7
NSLP Participants	227	12.5	0.13	9.3 ~	10.0	11.2	12.5	13.8	15.0	15.7 ~
NSLP Nonparticipants	174	12.2	0.06	10.9 ~	11.2	11.6	12.2	12.7	13.2	13.5 ~
High School Students	795	12.7	0.07	9.3	10.1	11.3	12.6	14.0	15.3	16.1
NSLP Participants	358	12.8	0.10	9.9	10.5	11.6	12.7	14.0	15.2	16.0
NSLP Nonparticipants	437	12.5	0.11	8.9	9.7	11.0	12.5	14.0	15.4	16.3
High School Students, Male	385	12.9	0.06	11.0	11.4	12.1	12.9	13.7	14.4	14.9
NSLP Participants	192	12.9	0.07	11.2 ~	11.6	12.2	12.9	13.6	14.2	14.6 ~
NSLP Nonparticipants	193	12.9	0.08	11.1 ~	11.5	12.2	12.9	13.6	14.3	14.7 ~
High School Students, Female	410	12.4	0.13	8.3	9.2	10.7	12.4	14.1	15.8	16.9
NSLP Participants	166	12.7	0.20	8.8 ~	9.6	11.0	12.5	14.3	16.1	17.2 ~
NSLP Nonparticipants	244	12.3	0.17	7.9 ~	8.9	10.4	12.2	14.0	15.7	16.8 ~
Secondary School Students	1,582	12.5	0.04	10.0	10.5	11.5	12.5	13.6	14.6	15.2
NSLP Participants	855	12.6	0.06	9.8	10.4	11.4	12.6	13.7	14.8	15.5
NSLP Nonparticipants	727	12.5	0.05	10.2	10.7	11.5	12.4	13.4	14.3	14.8
Secondary School Students, Male	771	12.7	0.02	11.7	11.9	12.3	12.7	13.1	13.5	13.7
NSLP Participants	462	12.6	0.06	10.6	11.0	11.8	12.6	13.4	14.2	14.7
NSLP Nonparticipants	309	12.8	0.04	11.7 ~	12.0	12.3	12.8	13.2	13.6	13.8 ~
Secondary School Students, Female	811	12.4	0.08	8.9	9.7	11.0	12.4	13.8	15.2	16.0
NSLP Participants	393	12.6	0.11	9.0	9.8	11.1	12.5	14.1	15.5	16.4
NSLP Nonparticipants	418	12.2	0.11	8.8	9.5	10.8	12.2	13.6	15.0	15.9

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.8

USUAL DAILY POLYUNSATURATED FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Polyunsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	13.6	0.21	8.0	9.0	10.8	13.2	15.9	18.9	20.8
NSLP Participants	250	13.2	0.24	7.8 ~	8.7	10.5	12.7	15.4	18.2	20.1 ~
NSLP Nonparticipants	93	14.9	0.45	8.8 ~	9.8 ~	11.8	14.3	17.4	20.6 ~	22.9 ~
9 to 13 Years	953	14.7	0.16	8.1	9.2	11.3	14.0	17.4	21.1	23.7
NSLP Participants	633	14.9	0.21	7.8	8.9	11.1	14.1	17.8	21.9	24.7
NSLP Nonparticipants	320	14.4	0.23	8.6	9.6	11.5	13.9	16.8	19.8	21.8
9 to 13 Years, Male	469	15.4	0.22	8.7	9.8	12.0	14.9	18.1	21.7	24.2
NSLP Participants	326	15.6	0.30	8.2	9.4	11.7	14.8	18.5	22.7	25.7
NSLP Nonparticipants	143	15.3	0.07	13.9 ~	14.2 ~	14.7	15.3	15.9	16.4 ~	16.8 ~
9 to 13 Years, Female	484	14.0	0.22	7.5	8.5	10.6	13.3	16.6	20.3	22.9
NSLP Participants	307	14.1	0.29	7.4 ~	8.5	10.6	13.4	16.8	20.7	23.5 ~
NSLP Nonparticipants	177	13.7	0.37	7.0 ~	8.1	10.2	12.9	16.3	20.1	22.8 ~
14 to 18 Years	1,018	16.2	0.18	7.9	9.3	11.9	15.4	19.6	24.0	26.9
NSLP Participants	503	17.3	0.21	10.4	11.6	13.9	16.9	20.2	23.6	25.8
NSLP Nonparticipants	515	15.1	0.28	6.4	7.8	10.6	14.3	18.8	23.6	26.8
14 to 18 Years, Male	506	18.8	0.21	11.9	13.2	15.5	18.4	21.7	25.1	27.3
NSLP Participants	282	19.4	0.22	13.9 ~	14.9	16.8	19.1	21.7	24.3	25.9 ~
NSLP Nonparticipants	224	18.2	0.37	10.3 ~	11.7	14.3	17.6	21.5	25.4	28.0 ~
14 to 18 Years, Female	512	13.6	0.25	6.0	7.2	9.6	12.9	16.9	21.1	24.0
NSLP Participants	221	14.7	0.34	7.8 ~	8.9	11.1	14.0	17.6	21.4	23.9 ~
NSLP Nonparticipants	291	12.9	0.34	5.1 ~	6.3	8.7	12.1	16.2	20.7	23.7 ~
All Students	2,314	15.0	0.11	7.9	9.1	11.3	14.2	17.8	21.8	24.5
NSLP Participants	1,386	15.0	0.14	8.2	9.3	11.4	14.3	17.8	21.7	24.5
NSLP Nonparticipants	928	14.8	0.17	7.6	8.8	11.1	14.2	17.8	21.7	24.4
All Students, Male	1,143	16.4	0.14	9.6	10.8	13.0	15.8	19.2	22.7	25.1
NSLP Participants	733	16.1	0.18	9.3	10.5	12.6	15.5	18.9	22.5	25.0
NSLP Nonparticipants	410	17.0	0.21	10.8	11.9	14.0	16.6	19.5	22.5	24.5
All Students, Female	1,171	13.6	0.14	6.9	8.0	10.1	12.9	16.3	20.0	22.7
NSLP Participants	653	13.9	0.19	7.3	8.4	10.4	13.2	16.6	20.3	22.8
NSLP Nonparticipants	518	13.1	0.23	6.1	7.2	9.4	12.4	16.0	20.0	22.7
By School Type										
Elementary School Students	732	14.3	0.16	8.4	9.4	11.2	13.7	16.6	19.9	22.1
NSLP Participants	531	14.1	0.19	8.0	9.0	11.0	13.5	16.6	20.0	22.3
NSLP Nonparticipants	201	14.6	0.17	10.9 ~	11.6	12.9	14.4	16.1	17.8	18.9 ~

TABLE J.8

USUAL DAILY POLYUNSATURATED FAT INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Polyunsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	15.2	0.21	9.4	10.4	12.3	14.8	17.6	20.6	22.7
NSLP Participants	271	14.7	0.30	8.0 ~	9.1	11.2	14.0	17.5	21.2	23.7 ~
NSLP Nonparticipants	101	16.6	0.47	10.0 ~	11.1 ~	13.3	16.0	19.2	22.6 ~	25.1 ~
Elementary School Students, Female	360	13.3	0.20	7.9	8.9	10.6	12.9	15.4	18.2	20.1
NSLP Participants	260	13.5	0.24	8.1 ~	9.0	10.8	13.0	15.7	18.5	20.4 ~
NSLP Nonparticipants	100	12.7	0.43	6.6 ~	7.7 ~	9.7	12.2	15.1	18.3 ~	20.6 ~
Middle School Students	787	14.4	0.18	7.4	8.5	10.7	13.7	17.3	21.2	23.9
NSLP Participants	497	14.6	0.21	8.0	9.1	11.2	14.0	17.4	21.0	23.4
NSLP Nonparticipants	290	14.1	0.32	6.7 ~	7.9	10.1	13.2	17.1	21.4	24.4 ~
Middle School Students, Male	386	15.1	0.22	9.0	10.1	12.1	14.7	17.7	20.7	22.8
NSLP Participants	270	15.6	0.23	10.0 ~	11.0	12.9	15.2	17.9	20.6	22.4 ~
NSLP Nonparticipants	116	14.2	0.45	7.4 ~	8.5 ~	10.7	13.6	17.0	20.7 ~	23.1 ~
Middle School Students, Female	401	13.8	0.29	6.4	7.5	9.7	12.8	16.8	21.3	24.6
NSLP Participants	227	13.6	0.38	6.2 ~	7.4	9.6	12.7	16.7	21.1	24.2 ~
NSLP Nonparticipants	174	14.1	0.47	6.3 ~	7.5	9.7	12.9	17.1	22.0	25.6 ~
High School Students	795	16.6	0.22	7.8	9.3	12.0	15.7	20.2	24.9	28.1
NSLP Participants	358	18.0	0.30	9.7	11.1	13.8	17.4	21.3	25.4	28.1
NSLP Nonparticipants	437	15.4	0.29	7.0	8.4	11.1	14.7	18.9	23.4	26.4
High School Students, Male	385	19.4	0.24	12.4	13.6	16.0	19.0	22.4	25.8	28.0
NSLP Participants	192	20.3	0.37	13.0 ~	14.3	16.6	19.7	23.3	27.0	29.5 ~
NSLP Nonparticipants	193	18.6	0.32	11.9 ~	13.2	15.5	18.3	21.4	24.5	26.4 ~
High School Students, Female	410	13.9	0.29	6.0	7.2	9.6	13.0	17.3	21.8	24.8
NSLP Participants	166	15.3	0.48	7.3 ~	8.4	10.8	14.2	18.7	23.6	26.9 ~
NSLP Nonparticipants	244	13.0	0.36	5.3 ~	6.5	9.0	12.3	16.2	20.5	23.3 ~
Secondary School Students	1,582	15.7	0.15	7.6	8.9	11.4	14.9	19.1	23.6	26.6
NSLP Participants	855	16.4	0.20	8.4	9.7	12.2	15.7	19.8	24.1	26.9
NSLP Nonparticipants	727	15.0	0.22	6.8	8.1	10.7	14.2	18.4	22.9	25.9
Secondary School Students, Male	771	17.7	0.19	10.2	11.5	14.0	17.1	20.8	24.6	27.1
NSLP Participants	462	18.0	0.24	10.8	12.0	14.4	17.5	21.1	24.8	27.3
NSLP Nonparticipants	309	17.2	0.30	9.5 ~	10.9	13.4	16.7	20.4	24.2	26.8 ~
Secondary School Students, Female	811	13.9	0.20	6.1	7.3	9.7	13.0	17.1	21.5	24.6
NSLP Participants	393	14.5	0.30	6.7	7.8	10.2	13.4	17.6	22.4	25.8
NSLP Nonparticipants	418	13.3	0.28	5.7	6.9	9.2	12.5	16.5	20.9	23.9

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.9

USUAL DAILY POLYUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
NSLP PARTICIPANTS AND NONPARTICIPANTS

	Percent of Energy from Polyunsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	6.1	0.07	4.2	4.6	5.2	6.0	6.9	7.8	8.4
NSLP Participants	250	6.0	0.08	4.1 ~	4.5	5.1	5.9	6.8	7.6	8.2 ~
NSLP Nonparticipants	93	6.4	0.15	4.3 ~	4.7 ~	5.4	6.3	7.3	8.3 ~	8.9 ~
9 to 13 Years	953	6.2	0.03	4.6	4.9	5.4	6.1	6.8	7.5	8.0
NSLP Participants	633	6.2	0.04	4.6	4.9	5.4	6.1	6.8	7.6	8.0
NSLP Nonparticipants	320	6.2	0.07	4.4	4.7	5.3	6.1	6.9	7.8	8.3
9 to 13 Years, Male	469	6.0	0.05	4.5	4.8	5.3	6.0	6.7	7.4	7.9
NSLP Participants	326	6.1	0.06	4.5	4.8	5.3	6.0	6.8	7.5	8.0
NSLP Nonparticipants	143	5.9	0.07	4.7 ~	5.0 ~	5.4	5.9	6.5	7.0 ~	7.3 ~
9 to 13 Years, Female	484	6.3	0.05	4.7	5.0	5.6	6.2	7.0	7.7	8.1
NSLP Participants	307	6.2	0.07	4.5 ~	4.8	5.4	6.1	6.9	7.7	8.3 ~
NSLP Nonparticipants	177	6.4	0.08	4.7 ~	5.0	5.6	6.3	7.1	7.9	8.4 ~
14 to 18 Years	1,018	6.5	0.05	4.4	4.8	5.5	6.3	7.4	8.4	9.2
NSLP Participants	503	6.6	0.05	5.1	5.3	5.9	6.5	7.2	8.0	8.4
NSLP Nonparticipants	515	6.4	0.08	3.9	4.3	5.2	6.2	7.4	8.7	9.6
14 to 18 Years, Male	506	6.4	0.05	4.8	5.1	5.7	6.3	7.0	7.7	8.2
NSLP Participants	282	6.5	0.06	5.1 ~	5.4	5.8	6.4	7.1	7.7	8.1 ~
NSLP Nonparticipants	224	6.3	0.08	4.5 ~	4.9	5.5	6.2	7.0	7.8	8.3 ~
14 to 18 Years, Female	512	6.6	0.08	4.1	4.5	5.4	6.4	7.6	8.9	9.8
NSLP Participants	221	6.7	0.07	5.2 ~	5.5	6.0	6.7	7.4	8.1	8.5 ~
NSLP Nonparticipants	291	6.5	0.12	3.6 ~	4.1	5.0	6.2	7.7	9.3	10.3 ~
All Students	2,314	6.3	0.03	4.5	4.8	5.4	6.2	7.0	7.9	8.5
NSLP Participants	1,386	6.2	0.03	4.7	5.0	5.5	6.1	6.9	7.6	8.1
NSLP Nonparticipants	928	6.3	0.05	4.1	4.5	5.2	6.2	7.2	8.3	9.1
All Students, Male	1,143	6.2	0.03	4.7	5.0	5.5	6.1	6.8	7.5	7.9
NSLP Participants	733	6.2	0.03	4.8	5.0	5.5	6.1	6.8	7.4	7.8
NSLP Nonparticipants	410	6.3	0.05	4.8	5.1	5.6	6.2	6.9	7.6	8.0
All Students, Female	1,171	6.3	0.04	4.3	4.7	5.3	6.2	7.2	8.2	8.9
NSLP Participants	653	6.3	0.05	4.6	4.9	5.5	6.2	7.0	7.9	8.4
NSLP Nonparticipants	518	6.4	0.08	3.9	4.3	5.1	6.2	7.4	8.7	9.5
By School Type										
Elementary School Students	732	6.1	0.04	4.4	4.7	5.3	6.0	6.8	7.6	8.1
NSLP Participants	531	6.1	0.05	4.5	4.8	5.3	6.0	6.7	7.5	8.0
NSLP Nonparticipants	201	6.2	0.09	4.3 ~	4.7	5.3	6.1	7.0	7.8	8.4 ~

TABLE J.9
USUAL DAILY POLYUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Percent of Energy from Polyunsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	6.2	0.04	4.8	5.1	5.6	6.1	6.7	7.3	7.6
NSLP Participants	271	6.1	0.05	4.7 ~	5.0	5.4	6.0	6.6	7.2	7.6 ~
NSLP Nonparticipants	101	6.5	0.10	5.0 ~	5.3 ~	5.8	6.4	7.1	7.8 ~	8.2 ~
Elementary School Students, Female	360	6.1	0.07	4.2	4.5	5.2	6.0	6.9	7.8	8.4
NSLP Participants	260	6.1	0.08	4.3 ~	4.6	5.2	6.0	6.9	7.7	8.3 ~
NSLP Nonparticipants	100	5.9	0.15	3.8 ~	4.2 ~	4.9	5.8	6.9	7.9 ~	8.6 ~
Middle School Students	787	6.3	0.03	4.8	5.1	5.6	6.2	6.8	7.5	7.9
NSLP Participants	497	6.1	0.03	5.0	5.3	5.6	6.1	6.6	7.1	7.4
NSLP Nonparticipants	290	6.4	0.07	4.6 ~	4.9	5.5	6.3	7.2	8.1	8.7 ~
Middle School Students, Male	386	6.0	0.04	4.7	5.0	5.4	5.9	6.5	7.0	7.4
NSLP Participants	270	6.0	0.03	5.1 ~	5.3	5.6	5.9	6.3	6.6	6.9 ~
NSLP Nonparticipants	116	6.0	0.11	4.2 ~	4.5 ~	5.2	5.9	6.8	7.7 ~	8.2 ~
Middle School Students, Female	401	6.5	0.04	5.1	5.4	5.9	6.5	7.1	7.7	8.1
NSLP Participants	227	6.3	0.05	5.2 ~	5.4	5.8	6.3	6.8	7.3	7.6 ~
NSLP Nonparticipants	174	6.7	0.08	5.0 ~	5.3	5.9	6.6	7.4	8.2	8.7 ~
High School Students	795	6.5	0.06	4.3	4.7	5.4	6.4	7.5	8.6	9.5
NSLP Participants	358	6.7	0.08	4.7	5.0	5.7	6.6	7.6	8.7	9.4
NSLP Nonparticipants	437	6.4	0.08	4.0	4.4	5.2	6.2	7.4	8.6	9.5
High School Students, Male	385	6.4	0.05	4.8	5.1	5.7	6.3	7.1	7.8	8.3
NSLP Participants	192	6.6	0.10	4.7 ~	5.0	5.7	6.5	7.5	8.5	9.1 ~
NSLP Nonparticipants	193	6.2	0.05	5.1 ~	5.3	5.7	6.2	6.7	7.1	7.4 ~
High School Students, Female	410	6.7	0.10	3.9	4.4	5.3	6.4	7.8	9.2	10.2
NSLP Participants	166	6.8	0.13	4.5 ~	4.9	5.6	6.6	7.8	9.1	9.9 ~
NSLP Nonparticipants	244	6.5	0.14	3.5 ~	4.0	5.0	6.2	7.8	9.4	10.5 ~
Secondary School Students	1,582	6.4	0.03	4.5	4.8	5.5	6.3	7.2	8.2	8.9
NSLP Participants	855	6.4	0.04	4.8	5.1	5.6	6.3	7.1	8.0	8.5
NSLP Nonparticipants	727	6.4	0.06	4.1	4.5	5.3	6.2	7.3	8.5	9.3
Secondary School Students, Male	771	6.2	0.04	4.7	5.0	5.5	6.2	6.9	7.6	8.0
NSLP Participants	462	6.3	0.05	4.8	5.1	5.6	6.2	7.0	7.7	8.1
NSLP Nonparticipants	309	6.1	0.06	4.6 ~	4.9	5.4	6.1	6.8	7.5	7.9 ~
Secondary School Students, Female	811	6.6	0.06	4.3	4.7	5.5	6.4	7.5	8.7	9.4
NSLP Participants	393	6.6	0.06	4.8	5.1	5.7	6.5	7.3	8.2	8.8
NSLP Nonparticipants	418	6.6	0.09	4.0	4.4	5.3	6.4	7.7	9.0	9.9

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.10

USUAL DAILY LINOLEIC ACID INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Linoleic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	12.1	0.20	7.0	7.8	9.5	11.6	14.2	16.9	18.7	10
NSLP Participants	250	11.7	0.21	6.9 ~	7.7	9.3	11.3	13.7	16.1	17.8 ~	10
NSLP Nonparticipants	93	13.2	0.44	7.4 ~	8.4 ~	10.3	12.7	15.5	18.7 ~	21.0 ~	10
9 to 13 Years	953	13.0	0.15	7.0	8.0	9.9	12.4	15.4	18.9	21.3	--
NSLP Participants	633	13.1	0.19	6.8	7.8	9.7	12.4	15.7	19.4	22.1	--
NSLP Nonparticipants	320	12.8	0.20	7.7	8.6	10.2	12.4	15.0	17.7	19.4	--
9 to 13 Years, Male	469	13.8	0.21	7.7	8.7	10.7	13.3	16.3	19.6	21.9	12
NSLP Participants	326	13.9	0.29	7.1	8.2	10.3	13.1	16.6	20.5	23.4	12
NSLP Nonparticipants	143	13.6	0.37	7.4 ~	8.5 ~	10.5	13.2	16.1	19.3 ~	21.6 ~	12
9 to 13 Years, Female	484	12.2	0.19	6.6	7.5	9.3	11.6	14.5	17.7	20.0	10
NSLP Participants	307	12.3	0.25	6.4 ~	7.3	9.2	11.7	14.8	18.2	20.6 ~	10
NSLP Nonparticipants	177	12.0	0.31	6.4 ~	7.3	9.0	11.3	14.2	17.5	19.7 ~	10
14 to 18 Years	1,018	14.1	0.16	6.9	8.1	10.4	13.5	17.2	21.1	23.7	--
NSLP Participants	503	15.2	0.20	8.7	9.8	12.0	14.8	17.9	21.1	23.2	--
NSLP Nonparticipants	515	13.2	0.24	5.7	6.9	9.3	12.5	16.4	20.4	23.1	--
14 to 18 Years, Male	506	16.5	0.19	10.3	11.4	13.5	16.1	19.1	22.1	24.1	16
NSLP Participants	282	17.1	0.22	11.7 ~	12.7	14.5	16.7	19.3	21.8	23.5 ~	16
NSLP Nonparticipants	224	15.8	0.32	8.9 ~	10.1	12.4	15.4	18.8	22.2	24.5 ~	16
14 to 18 Years, Female	512	12.0	0.22	5.2	6.3	8.4	11.3	14.8	18.5	21.0	11
NSLP Participants	221	12.9	0.30	6.7 ~	7.7	9.6	12.3	15.5	19.0	21.3 ~	11
NSLP Nonparticipants	291	11.3	0.29	4.5 ~	5.6	7.7	10.6	14.2	18.0	20.6 ~	11
All Students	2,314	13.2	0.10	6.9	7.9	9.9	12.5	15.8	19.3	21.8	--
NSLP Participants	1,386	13.3	0.12	7.1	8.1	10.0	12.6	15.8	19.3	21.7	--
NSLP Nonparticipants	928	13.1	0.15	6.7	7.8	9.8	12.5	15.7	19.1	21.4	--
All Students, Male	1,143	14.5	0.13	8.4	9.5	11.4	14.0	17.0	20.2	22.4	--
NSLP Participants	733	14.3	0.16	8.2	9.2	11.1	13.7	16.8	20.1	22.3	--
NSLP Nonparticipants	410	15.0	0.18	9.7	10.7	12.5	14.7	17.2	19.7	21.4	--
All Students, Female	1,171	11.9	0.13	6.0	7.0	8.8	11.3	14.3	17.7	20.0	--
NSLP Participants	653	12.2	0.17	6.4	7.3	9.1	11.5	14.6	17.9	20.3	--
NSLP Nonparticipants	518	11.5	0.20	5.3	6.3	8.3	10.9	14.1	17.6	20.0	--
By School Type											
Elementary School Students	732	12.6	0.14	7.3	8.2	9.9	12.1	14.8	17.7	19.8	--
NSLP Participants	531	12.5	0.17	7.2	8.1	9.7	12.0	14.7	17.6	19.6	--
NSLP Nonparticipants	201	13.0	0.16	9.6 ~	10.3	11.4	12.9	14.4	15.9	16.9 ~	--

TABLE J.10

USUAL DAILY LINOLEIC ACID INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Linoleic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	13.6	0.19	8.4	9.3	11.0	13.2	15.8	18.5	20.4	--
NSLP Participants	271	13.1	0.26	7.2 ~	8.2	10.0	12.5	15.6	18.8	21.1 ~	--
NSLP Nonparticipants	101	14.9	0.39	9.3 ~	10.3 ~	12.1	14.4	17.1	20.0 ~	22.0 ~	--
Elementary School Students, Female	360	11.7	0.18	6.8	7.7	9.3	11.3	13.6	16.1	17.8	--
NSLP Participants	260	11.9	0.21	7.1 ~	7.9	9.4	11.4	13.8	16.4	18.1 ~	--
NSLP Nonparticipants	100	11.1	0.40	5.4 ~	6.4 ~	8.3	10.7	13.6	16.5 ~	18.4 ~	--
Middle School Students	787	12.7	0.16	6.5	7.5	9.4	12.1	15.3	18.8	21.3	--
NSLP Participants	497	12.9	0.20	6.8	7.8	9.7	12.3	15.4	18.8	21.0	--
NSLP Nonparticipants	290	12.5	0.28	6.1 ~	7.1	9.0	11.7	15.1	18.8	21.3 ~	--
Middle School Students, Male	386	13.4	0.20	7.8	8.8	10.6	12.9	15.7	18.5	20.4	--
NSLP Participants	270	13.8	0.21	8.6 ~	9.5	11.2	13.4	15.9	18.4	20.1 ~	--
NSLP Nonparticipants	116	12.6	0.38	6.8 ~	7.8 ~	9.6	12.1	15.0	18.1 ~	20.1 ~	--
Middle School Students, Female	401	12.2	0.26	5.5	6.5	8.5	11.3	14.9	18.9	21.8	--
NSLP Participants	227	12.0	0.34	5.4 ~	6.4	8.3	11.1	14.7	18.7	21.5 ~	--
NSLP Nonparticipants	174	12.5	0.41	5.7 ~	6.7	8.7	11.5	15.1	19.5	22.6 ~	--
High School Students	795	14.5	0.20	6.8	8.1	10.5	13.8	17.7	21.9	24.7	--
NSLP Participants	358	15.8	0.29	8.3	9.4	11.8	15.0	19.0	23.2	25.9	--
NSLP Nonparticipants	437	13.5	0.25	6.2	7.4	9.7	12.8	16.5	20.3	22.9	--
High School Students, Male	385	17.0	0.23	10.5	11.7	13.8	16.6	19.7	22.8	24.9	--
NSLP Participants	192	17.8	0.32	11.5 ~	12.6	14.6	17.3	20.4	23.7	25.9 ~	--
NSLP Nonparticipants	193	16.2	0.29	10.1 ~	11.2	13.3	15.9	18.7	21.6	23.4 ~	--
High School Students, Female	410	12.2	0.26	5.2	6.3	8.4	11.4	15.1	19.1	21.8	--
NSLP Participants	166	13.4	0.42	6.3 ~	7.3	9.4	12.5	16.5	20.7	23.6 ~	--
NSLP Nonparticipants	244	11.4	0.31	4.7 ~	5.8	7.9	10.7	14.2	17.9	20.4 ~	--
Secondary School Students	1,582	13.8	0.13	6.6	7.8	10.0	13.1	16.8	20.7	23.4	--
NSLP Participants	855	14.4	0.18	7.2	8.3	10.6	13.6	17.4	21.5	24.2	--
NSLP Nonparticipants	727	13.1	0.19	6.1	7.2	9.4	12.4	16.1	20.0	22.6	--
Secondary School Students, Male	771	15.5	0.17	8.9	10.0	12.2	15.0	18.3	21.7	24.0	--
NSLP Participants	462	15.9	0.22	9.3	10.4	12.5	15.3	18.6	22.1	24.4	--
NSLP Nonparticipants	309	15.0	0.26	8.5 ~	9.7	11.8	14.6	17.8	21.0	23.1 ~	--
Secondary School Students, Female	811	12.2	0.18	5.4	6.4	8.5	11.4	15.0	19.0	21.7	--
NSLP Participants	393	12.7	0.27	5.8	6.8	8.8	11.8	15.5	19.9	22.9	--
NSLP Nonparticipants	418	11.7	0.24	5.1	6.1	8.1	11.0	14.5	18.3	20.9	--

¹ Linoleic acid is an essential n-6 polyunsaturated fatty acid.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

AI = Adequate Intake.

TABLE J.11

USUAL DAILY LINOLEIC ACID INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Linoleic Acid (% kcal) ¹									AMDR (5-10%) ²					
		N	Mean	SE	Percentiles						%	%	SE	%	SE	
					5	10	25	50	75	90	95	Within	Below		Above	
By Age/Gender Group																
J.25	6 to 8 Years ³	343	5.4	0.06	3.7	4.0	4.6	5.3	6.1	6.9	7.5	61.2	38.6	5.55	<3	~
	NSLP Participants	250	5.3	0.07	3.7	4.0	4.5	5.2	6.0	6.8	7.3	58.5	41.5	5.61	<3	~
	NSLP Nonparticipants	93	5.7	0.13	3.8	4.1	4.8	5.6	6.4	7.3	7.9	68.0	31.8	15.30	<3	~
	9 to 13 Years	953	5.5	0.03	4.0	4.3	4.8	5.4	6.0	6.7	7.1	66.7	33.3	6.43	<3	~
	NSLP Participants	633	5.4	0.04	4.0	4.2	4.7	5.3	6.0	6.7	7.2	64.3	35.7	5.69	<3	~
	NSLP Nonparticipants	320	5.5	0.06	4.0	4.3	4.8	5.4	6.1	6.8	7.3	66.3	33.7	12.70	<3	~
	9 to 13 Years, Male	469	5.4	0.04	4.0	4.3	4.8	5.3	6.0	6.6	7.0	64.8	35.2	8.99	<3	~
	NSLP Participants	326	5.4	0.06	3.9	4.2	4.7	5.3	6.1	6.8	7.3	62.5	37.4	7.36	<3	~
	NSLP Nonparticipants	143	5.3	0.05	4.3	4.5	4.9	5.3	5.8	6.2	6.5	67.8	32.2	45.40	<3	~
	9 to 13 Years, Female	484	5.5	0.04	4.1	4.4	4.9	5.4	6.1	6.7	7.2	69.4	30.6	10.10	<3	~
	NSLP Participants	307	5.5	0.06	4.0	4.2	4.7	5.4	6.1	6.8	7.2	65.3	34.7	7.85	<3	~
	NSLP Nonparticipants	177	5.6	0.07	4.3	4.5	5.0	5.6	6.2	6.8	7.2	75.5	24.5	29.60	<3	~
	14 to 18 Years	1,018	5.7	0.04	3.8	4.1	4.8	5.6	6.5	7.4	8.1	67.4	32.0	4.49	<3	~
	NSLP Participants	503	5.8	0.04	4.4	4.6	5.1	5.7	6.4	7.1	7.5	79.1	20.9	14.90	<3	~
	NSLP Nonparticipants	515	5.6	0.07	3.4	3.8	4.5	5.4	6.5	7.6	8.4	60.9	38.2	3.91	<3	~
	14 to 18 Years, Male	506	5.6	0.04	4.2	4.4	4.9	5.5	6.2	6.8	7.3	71.9	28.1	10.90	<3	~
	NSLP Participants	282	5.7	0.05	4.4	4.6	5.1	5.6	6.2	6.9	7.2	77.5	22.5	21.40	<3	~
	NSLP Nonparticipants	224	5.5	0.07	4.0	4.2	4.8	5.4	6.1	6.8	7.2	66.5	33.5	11.00	<3	~
	14 to 18 Years, Female	512	5.8	0.07	3.6	3.9	4.7	5.6	6.7	7.9	8.6	65.2	33.5	5.00	<3	~
	NSLP Participants	221	5.9	0.06	4.7	4.9	5.3	5.9	6.5	7.0	7.4	87.0	13.0	35.30	<3	~
	NSLP Nonparticipants	291	5.7	0.11	3.1	3.5	4.4	5.4	6.8	8.1	9.1	57.9	39.7	4.38	<3	~
	All Students	2,314	5.5	0.02	3.9	4.2	4.7	5.4	6.2	7.0	7.5	65.9	33.9	3.19	<3	~
	NSLP Participants	1,386	5.5	0.03	4.1	4.3	4.8	5.4	6.1	6.8	7.2	67.6	32.4	5.08	<3	~
	NSLP Nonparticipants	928	5.6	0.04	3.7	4.0	4.6	5.5	6.4	7.3	7.9	64.1	35.6	4.08	<3	~
All Students, Male	1,143	5.5	0.03	4.2	4.5	4.9	5.4	6.0	6.6	7.0	70.5	29.5	8.63	<3	~	
NSLP Participants	733	5.5	0.03	4.2	4.4	4.8	5.4	6.0	6.6	7.0	68.3	31.7	9.16	<3	~	
NSLP Nonparticipants	410	5.5	0.04	4.2	4.5	4.9	5.5	6.1	6.7	7.0	72.4	27.6	16.60	<3	~	
All Students, Female	1,171	5.6	0.04	3.7	4.0	4.7	5.4	6.3	7.3	7.9	63.9	35.7	3.35	<3	~	
NSLP Participants	653	5.5	0.04	4.0	4.2	4.8	5.4	6.2	7.0	7.5	66.7	33.3	5.74	<3	~	
NSLP Nonparticipants	518	5.6	0.07	3.4	3.8	4.5	5.4	6.5	7.6	8.4	60.3	38.6	3.89	<3	~	
By School Type																
Elementary School Students	732	5.4	0.04	3.9	4.1	4.7	5.3	6.1	6.8	7.2	63.0	37.0	4.94	<3	~	
NSLP Participants	531	5.4	0.04	4.0	4.2	4.7	5.3	6.0	6.6	7.0	63.4	36.6	6.40	<3	~	
NSLP Nonparticipants	201	5.5	0.08	3.9	4.2	4.7	5.4	6.2	6.9	7.4	65.9	34.1	13.30	<3	~	

TABLE J.12

USUAL DAILY LINOLENIC ACID INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Linolenic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	1.1	0.02	0.7	0.8	0.9	1.1	1.3	1.6	1.8	0.9
NSLP Participants	250	1.2	0.02	0.7 ~	0.8	0.9	1.1	1.4	1.6	1.8 ~	0.9
NSLP Nonparticipants	93	1.1	0.04	0.6 ~	0.7 ~	0.8	1.0	1.3	1.6 ~	1.9 ~	0.9
9 to 13 Years	953	1.2	0.01	0.7	0.8	1.0	1.2	1.4	1.7	1.8	--
NSLP Participants	633	1.3	0.01	0.8	0.8	1.0	1.2	1.5	1.8	1.9	--
NSLP Nonparticipants	320	1.1	0.02	0.6	0.7	0.8	1.0	1.3	1.5	1.7	--
9 to 13 Years, Male	469	1.2	0.01	0.8	0.9	1.0	1.2	1.4	1.7	1.8	1.2
NSLP Participants	326	1.3	0.02	0.9	0.9	1.1	1.3	1.5	1.7	1.8	1.2
NSLP Nonparticipants	143	1.1	0.03	0.6 ~	0.7 ~	0.8	1.1	1.3	1.6 ~	1.8 ~	1.2
9 to 13 Years, Female	484	1.2	0.02	0.7	0.8	0.9	1.1	1.4	1.7	1.9	1.0
NSLP Participants	307	1.3	0.03	0.7 ~	0.8	1.0	1.2	1.5	1.8	2.1 ~	1.0
NSLP Nonparticipants	177	1.1	0.03	0.5 ~	0.6	0.8	1.0	1.3	1.6	1.8 ~	1.0
14 to 18 Years	1,018	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--
NSLP Participants	503	1.5	0.02	0.8	0.9	1.1	1.4	1.8	2.2	2.5	--
NSLP Nonparticipants	515	1.3	0.02	0.6	0.7	0.9	1.2	1.6	2.0	2.2	--
14 to 18 Years, Male	506	1.6	0.02	0.9	1.0	1.2	1.6	1.9	2.4	2.7	1.6
NSLP Participants	282	1.7	0.03	1.0 ~	1.1	1.4	1.6	2.0	2.4	2.6 ~	1.6
NSLP Nonparticipants	224	1.6	0.04	0.8 ~	0.9	1.1	1.5	1.9	2.3	2.6 ~	1.6
14 to 18 Years, Female	512	1.2	0.02	0.6	0.6	0.8	1.1	1.4	1.7	2.0	1.1
NSLP Participants	221	1.3	0.03	0.7 ~	0.8	1.0	1.2	1.5	1.9	2.1 ~	1.1
NSLP Nonparticipants	291	1.1	0.03	0.5 ~	0.6	0.7	1.0	1.3	1.6	1.9 ~	1.1
All Students	2,314	1.3	0.01	0.7	0.8	1.0	1.2	1.5	1.8	2.0	--
NSLP Participants	1,386	1.3	0.01	0.7	0.8	1.0	1.2	1.5	1.9	2.1	--
NSLP Nonparticipants	928	1.2	0.01	0.6	0.7	0.9	1.1	1.4	1.8	2.0	--
All Students, Male	1,143	1.4	0.01	0.8	0.9	1.1	1.3	1.6	1.9	2.2	--
NSLP Participants	733	1.4	0.01	0.8	0.9	1.1	1.3	1.6	1.9	2.1	--
NSLP Nonparticipants	410	1.3	0.03	0.7	0.8	1.0	1.2	1.6	2.0	2.3	--
All Students, Female	1,171	1.2	0.01	0.6	0.7	0.9	1.1	1.4	1.7	1.9	--
NSLP Participants	653	1.2	0.02	0.7	0.8	0.9	1.2	1.4	1.8	2.0	--
NSLP Nonparticipants	518	1.1	0.02	0.5	0.6	0.8	1.0	1.3	1.5	1.7	--
By School Type											
Elementary School Students	732	1.2	0.01	0.7	0.8	0.9	1.1	1.4	1.6	1.8	--
NSLP Participants	531	1.2	0.02	0.7	0.8	1.0	1.2	1.4	1.7	1.9	--
NSLP Nonparticipants	201	1.1	0.02	0.7 ~	0.7	0.9	1.0	1.2	1.5	1.6 ~	--

TABLE J.12

USUAL DAILY LINOLENIC ACID INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Linolenic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	1.2	0.02	0.7	0.8	0.9	1.2	1.4	1.7	2.0	--
NSLP Participants	271	1.3	0.02	0.7 ~	0.8	1.0	1.2	1.5	1.8	2.0 ~	--
NSLP Nonparticipants	101	1.1	0.04	0.6 ~	0.6 ~	0.8	1.0	1.3	1.7 ~	1.9 ~	--
Elementary School Students, Female	360	1.1	0.01	0.8	0.8	1.0	1.1	1.3	1.5	1.6	--
NSLP Participants	260	1.2	0.02	0.8 ~	0.8	1.0	1.2	1.4	1.6	1.8 ~	--
NSLP Nonparticipants	100	1.0	0.03	0.6 ~	0.7 ~	0.8	1.0	1.2	1.4 ~	1.5 ~	--
Middle School Students	787	1.2	0.01	0.7	0.8	0.9	1.2	1.4	1.7	1.9	--
NSLP Participants	497	1.3	0.01	0.8	0.9	1.0	1.2	1.5	1.7	1.9	--
NSLP Nonparticipants	290	1.1	0.03	0.5 ~	0.6	0.8	1.0	1.4	1.7	2.0 ~	--
Middle School Students, Male	386	1.3	0.01	0.9	1.0	1.1	1.3	1.4	1.6	1.7	--
NSLP Participants	270	1.3	0.01	1.1 ~	1.2	1.2	1.3	1.4	1.5	1.5 ~	--
NSLP Nonparticipants	116	1.2	0.04	0.6 ~	0.7 ~	0.9	1.1	1.5	1.8 ~	2.1 ~	--
Middle School Students, Female	401	1.1	0.02	0.5	0.6	0.8	1.1	1.4	1.7	2.0	--
NSLP Participants	227	1.2	0.03	0.6 ~	0.7	0.9	1.1	1.4	1.8	2.0 ~	--
NSLP Nonparticipants	174	1.1	0.04	0.5 ~	0.6	0.7	1.0	1.3	1.7	2.0 ~	--
High School Students	795	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.2	2.5	--
NSLP Participants	358	1.6	0.04	0.7	0.9	1.1	1.5	1.9	2.5	2.8	--
NSLP Nonparticipants	437	1.3	0.02	0.6	0.7	0.9	1.2	1.6	2.0	2.2	--
High School Students, Male	385	1.7	0.03	0.9	1.0	1.3	1.6	2.0	2.4	2.7	--
NSLP Participants	192	1.8	0.04	1.0 ~	1.1	1.4	1.7	2.1	2.6	2.9 ~	--
NSLP Nonparticipants	193	1.6	0.04	0.8 ~	1.0	1.2	1.5	1.9	2.3	2.6 ~	--
High School Students, Female	410	1.2	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.1	--
NSLP Participants	166	1.3	0.05	0.6 ~	0.7	0.9	1.2	1.6	2.1	2.5 ~	--
NSLP Nonparticipants	244	1.1	0.03	0.5 ~	0.6	0.8	1.0	1.3	1.6	1.9 ~	--
Secondary School Students	1,582	1.3	0.01	0.7	0.8	1.0	1.3	1.6	2.0	2.3	--
NSLP Participants	855	1.4	0.02	0.7	0.9	1.1	1.4	1.7	2.1	2.4	--
NSLP Nonparticipants	727	1.2	0.02	0.6	0.7	0.9	1.2	1.5	1.9	2.2	--
Secondary School Students, Male	771	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.1	2.4	--
NSLP Participants	462	1.6	0.02	1.0	1.1	1.3	1.5	1.8	2.1	2.3	--
NSLP Nonparticipants	309	1.5	0.03	0.7 ~	0.9	1.1	1.4	1.8	2.2	2.5 ~	--
Secondary School Students, Female	811	1.2	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.0	--
NSLP Participants	393	1.3	0.03	0.6	0.7	0.9	1.2	1.5	2.0	2.3	--
NSLP Nonparticipants	418	1.1	0.02	0.5	0.6	0.7	1.0	1.3	1.7	1.9	--

¹ Linolenic acid is an n-3 fatty acid. Dietary Reference Intakes are defined for a specific form of linolenic acid (alpha-linolenic acid). Intakes reported in this table are for the undifferentiated fatty acid.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

AI = Adequate Intake.

TABLE J.14
USUAL DAILY CARBOHYDRATE INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Carbohydrate Intakes (g)										EAR ¹	
	N	Mean	SE	Percentiles						EAR	% Below	SE
				5	10	25	50	75	90			
By Age/Gender Group												
6 to 8 Years ²	343	269	2.6	194	210	235	266	299	333	354	100	<3 ~
NSLP Participants	250	267	3.6	181 ~	199	228	263	301	340	366 ~	100	<3 ~
NSLP Nonparticipants	93	275	5.3	198 ~	213 ~	239	271	306	342 ~	365 ~	100	<3 ~
9 to 13 Years	953	289	2.4	177	199	237	282	334	387	423	100	<3 ~
NSLP Participants	633	290	2.8	184	204	240	284	333	383	416	100	<3 ~
NSLP Nonparticipants	320	288	4.6	167	189	230	280	338	396	433	100	<3 ~
9 to 13 Years, Male	469	309	3.4	201	222	258	302	352	404	439	100	<3 ~
NSLP Participants	326	306	4.0	199	219	255	300	351	402	434	100	<3 ~
NSLP Nonparticipants	143	314	6.0	208 ~	227 ~	263	307	358	409 ~	442 ~	100	<3 ~
9 to 13 Years, Female	484	269	3.4	157	178	216	263	315	367	400	100	<3 ~
NSLP Participants	307	272	3.8	170 ~	189	224	267	314	360	389 ~	100	<3 ~
NSLP Nonparticipants	177	263	6.4	139 ~	161	202	255	315	375	415 ~	100	<3 ~
14 to 18 Years	1,018	294	3.0	158	182	227	282	347	419	469	100	<3 ~
NSLP Participants	503	308	4.2	178	201	243	295	357	429	481	100	<3 ~
NSLP Nonparticipants	515	282	4.3	143	168	213	271	338	409	456	100	<3 ~
14 to 18 Years, Male	506	343	3.7	222	244	284	334	392	453	495	100	<3 ~
NSLP Participants	282	346	4.4	241 ~	260	294	337	388	442	480 ~	100	<3 ~
NSLP Nonparticipants	224	340	6.2	204 ~	229	274	331	397	464	508 ~	100	<3 ~
14 to 18 Years, Female	512	248	3.6	128	150	190	240	296	355	395	100	<3 ~
NSLP Participants	221	260	5.8	138 ~	161	201	250	306	371	417 ~	100	<3 ~
NSLP Nonparticipants	291	240	4.7	122 ~	143	183	233	289	345	381 ~	100	<3 ~
All Students	2,314	286	1.7	171	193	231	278	332	389	429	100	<3 ~
NSLP Participants	1,386	288	2.0	180	200	236	280	330	385	424	100	<3 ~
NSLP Nonparticipants	928	283	2.8	159	182	223	274	333	394	436	100	<3 ~
All Students, Male	1,143	313	2.3	202	222	259	304	357	413	452	100	<3 ~
NSLP Participants	733	309	2.9	199	220	256	300	352	408	448	100	<3 ~
NSLP Nonparticipants	410	320	3.9	205	226	264	312	367	425	464	100	<3 ~
All Students, Female	1,171	260	2.1	151	173	210	254	304	354	388	100	<3 ~
NSLP Participants	653	265	2.7	163	183	218	259	305	354	387	100	<3 ~
NSLP Nonparticipants	518	253	3.5	135	157	197	247	303	358	393	100	<3 ~
By School Type												
Elementary School Students	732	282	2.1	197	214	243	279	317	355	380	100	<3 ~
NSLP Participants	531	280	2.7	186	204	237	276	319	361	388	100	<3 ~
NSLP Nonparticipants	201	288	4.6	190 ~	209	243	283	327	372	402 ~	100	<3 ~

TABLE J.14

USUAL DAILY CARBOHYDRATE INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Carbohydrate Intakes (g)										EAR ¹	
	N	Mean	SE	Percentiles						EAR	% Below	SE
				5	10	25	50	75	90			
By School Type												
Elementary School Students, Male	372	295	2.7	215	231	259	292	328	364	387	100	<3 ~
NSLP Participants	271	292	4.1	189 ~	209	244	287	334	380	410 ~	100	<3 ~
NSLP Nonparticipants	101	304	5.9	216 ~	232 ~	262	299	341	382 ~	409 ~	100	<3 ~
Elementary School Students, Female	360	269	2.8	185	203	232	266	303	339	361	100	<3 ~
NSLP Participants	260	268	3.2	186 ~	203	232	266	302	335	356 ~	100	<3 ~
NSLP Nonparticipants	100	272	6.6	170 ~	190 ~	226	268	315	359 ~	387 ~	100	<3 ~
Middle School Students	787	275	3.3	146	169	211	264	327	395	441	100	<3 ~
NSLP Participants	497	283	4.2	154	177	219	272	335	404	453	100	<3 ~
NSLP Nonparticipants	290	263	5.3	134 ~	156	199	253	315	379	424 ~	100	<3 ~
Middle School Students, Male	386	299	4.6	170	192	234	289	353	420	464	100	<3 ~
NSLP Participants	270	307	5.5	180 ~	201	243	297	360	427	472 ~	100	<3 ~
NSLP Nonparticipants	116	284	8.5	153 ~	175 ~	218	273	338	406 ~	450 ~	100	<3 ~
Middle School Students, Female	401	253	4.3	131	153	193	243	302	365	409	100	<3 ~
NSLP Participants	227	257	5.9	133 ~	156	196	246	306	372	419 ~	100	<3 ~
NSLP Nonparticipants	174	249	6.3	128 ~	149	190	241	297	355	396 ~	100	<3 ~
High School Students	795	300	3.5	164	188	233	288	354	426	477	100	<3 ~
NSLP Participants	358	315	4.7	194	215	254	303	362	429	478	100	<3 ~
NSLP Nonparticipants	437	288	4.7	146	170	217	277	348	420	468	100	<3 ~
High School Students, Male	385	353	4.2	234	255	295	345	403	462	501	100	<3 ~
NSLP Participants	192	356	3.8	278 ~	293	319	351	387	425	449 ~	100	<3 ~
NSLP Nonparticipants	193	352	7.0	211 ~	236	283	343	411	481	526 ~	100	<3 ~
High School Students, Female	410	250	4.0	131	152	192	243	300	358	396	100	<3 ~
NSLP Participants	166	265	6.5	148 ~	167	205	255	313	375	417 ~	100	<3 ~
NSLP Nonparticipants	244	242	5.1	123 ~	145	185	235	291	347	383 ~	100	<3 ~
Secondary School Students	1,582	290	2.4	155	179	223	278	343	414	464	100	<3 ~
NSLP Participants	855	300	3.2	171	194	235	287	350	420	471	100	<3 ~
NSLP Nonparticipants	727	280	3.6	142	166	211	269	336	408	457	100	<3 ~
Secondary School Students, Male	771	331	3.3	200	224	266	320	384	453	500	100	<3 ~
NSLP Participants	462	333	4.1	212	233	272	321	381	446	492	100	<3 ~
NSLP Nonparticipants	309	330	5.7	186 ~	211	258	319	390	463	511 ~	100	<3 ~
Secondary School Students, Female	811	252	2.9	132	154	193	243	300	360	402	100	<3 ~
NSLP Participants	393	261	4.3	141	163	202	250	308	372	418	100	<3 ~
NSLP Nonparticipants	418	244	3.9	125	147	187	237	292	348	385	100	<3 ~

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

TABLE J.15

USUAL DAILY CARBOHYDRATE INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Carbohydrate (% kcal)									AMDR (45-65%) ¹					
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
					5	10	25	50	75	90						95
By Age/Gender Group																
J.33	6 to 8 Years ²	343	55.0	0.21	48.6	50.1	52.5	55.0	57.6	59.8	61.1	>97	<3 ~		<3 ~	
	NSLP Participants	250	55.0	0.28	47.6 ~	49.3	52.1	55.1	58.1	60.6	62.1 ~	96.7	<3 ~		<3 ~	
	NSLP Nonparticipants	93	54.8	0.44	47.8 ~	49.3 ~	51.9	54.8	57.7	60.2 ~	61.6 ~	>97	<3 ~		<3 ~	
	9 to 13 Years	953	55.3	0.10	50.2	51.3	53.2	55.3	57.3	59.2	60.3	>97	<3 ~		<3 ~	
	NSLP Participants	633	54.8	0.18	47.3	49.0	51.8	54.9	57.9	60.7	62.3	96.0	<3 ~		<3 ~	
	NSLP Nonparticipants	320	56.1	0.19	50.6	51.8	53.9	56.1	58.4	60.4	61.6	>97	<3 ~		<3 ~	
	9 to 13 Years, Male	469	55.6	0.10	52.2	52.9	54.2	55.6	57.0	58.3	59.0	>97	<3 ~		<3 ~	
	NSLP Participants	326	55.2	0.23	48.3	49.9	52.4	55.3	58.0	60.5	62.0	>97	<3 ~		<3 ~	
	NSLP Nonparticipants	143	56.4	0.17	53.2 ~	53.8 ~	55.0	56.3	57.7	59.0 ~	59.8 ~	>97	<3 ~		<3 ~	
	9 to 13 Years, Female	484	54.9	0.17	48.8	50.2	52.5	54.9	57.4	59.6	60.9	>97	<3 ~		<3 ~	
	NSLP Participants	307	54.4	0.28	46.6 ~	48.3	51.1	54.4	57.7	60.7	62.5 ~	94.5	3.9 ~	3.32	<3 ~	
	NSLP Nonparticipants	177	55.8	0.33	48.4 ~	50.1	52.9	55.9	58.7	61.3	62.9 ~	96.6	<3 ~		<3 ~	
	14 to 18 Years	1,018	53.7	0.16	45.2	47.1	50.3	53.7	57.1	60.3	62.2	91.6	6.8 ~	4.29	<3 ~	
	NSLP Participants	503	52.9	0.17	46.7	48.1	50.4	52.9	55.4	57.6	58.9	96.7	3.3 ~	6.46	<3 ~	
	NSLP Nonparticipants	515	54.4	0.27	44.1	46.6	50.4	54.5	58.5	62.2	64.6	87.1	8.6 ~	5.47	4.3 ~	3.99
	14 to 18 Years, Male	506	52.7	0.12	48.3	49.3	50.9	52.7	54.4	56.0	57.0	>97	<3 ~		<3 ~	
	NSLP Participants	282	52.4	0.16	47.8 ~	48.8	50.5	52.4	54.2	55.9	56.9 ~	>97	<3 ~		<3 ~	
	NSLP Nonparticipants	224	53.0	0.20	48.0 ~	49.1	50.9	53.0	55.0	56.8	57.9 ~	>97	<3 ~		<3 ~	
	14 to 18 Years, Female	512	54.7	0.28	44.3	46.8	50.6	54.7	58.8	62.6	65.0	86.8	8.2 ~	4.71	5.0 ~	3.76
	NSLP Participants	221	53.5	0.33	45.4 ~	47.2	50.3	53.6	56.8	59.7	61.4 ~	92.9	6.4 ~	7.83	<3 ~	
	NSLP Nonparticipants	291	55.5	0.42	43.4 ~	46.4	50.9	55.6	60.2	64.4	67.1 ~	82.1	9.2 ~	5.87	8.7 ~	5.74
	All Students	2,314	54.7	0.09	47.8	49.4	51.9	54.7	57.4	59.9	61.4	>97	<3 ~		<3 ~	
	NSLP Participants	1,386	54.4	0.12	47.2	48.9	51.5	54.4	57.3	59.9	61.4	96.6	<3 ~		<3 ~	
NSLP Nonparticipants	928	55.1	0.13	48.8	50.2	52.5	55.1	57.6	59.9	61.3	>97	<3 ~		<3 ~		
All Students, Male	1,143	54.3	0.06	50.7	51.5	52.8	54.3	55.7	57.0	57.8	>97	<3 ~		<3 ~		
NSLP Participants	733	54.4	0.12	49.0	50.2	52.2	54.4	56.6	58.5	59.7	>97	<3 ~		<3 ~		
NSLP Nonparticipants	410	54.0	0.11	50.2	51.1	52.5	54.0	55.6	57.0	57.8	>97	<3 ~		<3 ~		
All Students, Female	1,171	55.0	0.15	46.6	48.6	51.7	55.1	58.4	61.4	63.2	93.8	3.9 ~	2.58	<3 ~		
NSLP Participants	653	54.4	0.20	45.7	47.7	50.9	54.5	58.0	61.0	62.8	92.5	5.6 ~	2.66	<3 ~		
NSLP Nonparticipants	518	55.9	0.23	47.4	49.4	52.6	56.0	59.4	62.4	64.2	93.4	<3 ~		3.6 ~	4.96	
By School Type																
Elementary School Students	732	55.1	0.14	48.6	50.1	52.5	55.2	57.8	60.1	61.5	>97	<3 ~		<3 ~		
NSLP Participants	531	55.0	0.22	46.4	48.4	51.5	55.0	58.5	61.5	63.3	93.5	4.2 ~	2.56	<3 ~		
NSLP Nonparticipants	201	55.5	0.30	48.4 ~	50.0	52.7	55.5	58.4	60.9	62.4 ~	>97	<3 ~		<3 ~		

TABLE J.15

USUAL DAILY CARBOHYDRATE INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Percent of Energy from Carbohydrate (% kcal)										AMDR (45-65%) ¹				
	N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
				5	10	25	50	75	90						95
By School Type															
Elementary School Students, Male	372	55.1	0.19	49.2	50.5	52.7	55.1	57.5	59.7	61.0	>97	<3 ~	<3 ~		
NSLP Participants	271	55.3	0.29	47.3 ~	49.1	52.1	55.3	58.5	61.4	63.2 ~	95.2	<3 ~	<3 ~		
NSLP Nonparticipants	101	54.6	0.36	48.7 ~	50.0 ~	52.1	54.6	57.0	59.3 ~	60.6 ~	>97	<3 ~	<3 ~		
Elementary School Students, Female	360	55.1	0.22	48.1	49.7	52.4	55.2	58.0	60.4	61.8	>97	<3 ~	<3 ~		
NSLP Participants	260	54.6	0.34	45.4 ~	47.6	51.1	54.8	58.4	61.4	63.2 ~	91.7	6.1 ~	<3 ~	3.22	
NSLP Nonparticipants	100	56.3	0.49	48.2 ~	50.1 ~	53.2	56.5	59.7	62.4 ~	64.0 ~	94.8	<3 ~	3.1 ~	12.10	
Middle School Students	787	54.7	0.11	49.7	50.8	52.7	54.7	56.7	58.5	59.7	>97	<3 ~	<3 ~		
NSLP Participants	497	54.1	0.17	47.9	49.3	51.6	54.1	56.6	58.9	60.4	>97	<3 ~	<3 ~		
NSLP Nonparticipants	290	55.6	0.10	52.9 ~	53.5	54.5	55.6	56.7	57.7	58.3 ~	>97	<3 ~	<3 ~		
Middle School Students, Male	386	54.1	0.15	49.2	50.3	52.1	54.1	56.1	57.9	59.0	>97	<3 ~	<3 ~		
NSLP Participants	270	53.6	0.13	50.1 ~	50.9	52.2	53.6	55.1	56.4	57.2 ~	>97	<3 ~	<3 ~		
NSLP Nonparticipants	116	55.1	0.31	49.7 ~	50.9 ~	52.9	55.1	57.4	59.4 ~	60.6 ~	>97	<3 ~	<3 ~		
Middle School Students, Female	401	55.2	0.23	47.7	49.4	52.1	55.2	58.3	61.0	62.8	96.1	<3 ~	<3 ~		
NSLP Participants	227	54.7	0.32	46.6 ~	48.4	51.4	54.7	57.9	60.8	62.7 ~	94.4	3.7 ~	<3 ~	5.24	
NSLP Nonparticipants	174	55.9	0.32	49.0 ~	50.5	53.1	55.9	58.8	61.3	62.8 ~	>97	<3 ~	<3 ~		
High School Students	795	53.8	0.19	44.8	46.9	50.3	53.9	57.4	60.7	62.8	90.4	7.5 ~	<3 ~	4.68	
NSLP Participants	358	53.0	0.21	46.3	47.8	50.3	53.1	55.7	58.0	59.4	95.6	4.3 ~	<3 ~	7.70	
NSLP Nonparticipants	437	54.5	0.30	43.9	46.4	50.4	54.5	58.7	62.5	64.9	86.3	8.9 ~	<3 ~	5.91	
High School Students, Male	385	52.8	0.18	47.1	48.4	50.5	52.8	55.2	57.2	58.5	>97	<3 ~	<3 ~		
NSLP Participants	192	52.6	0.23	47.3 ~	48.5	50.5	52.6	54.7	56.6	57.7 ~	>97	<3 ~	<3 ~		
NSLP Nonparticipants	193	53.1	0.22	48.1 ~	49.2	51.0	53.1	55.1	56.9	58.0 ~	>97	<3 ~	<3 ~		
High School Students, Female	410	54.8	0.32	44.0	46.6	50.6	54.8	59.0	62.9	65.3	85.8	8.6 ~	<3 ~	5.38	
NSLP Participants	166	53.5	0.38	45.3 ~	47.2	50.3	53.6	56.8	59.6	61.3 ~	92.7	6.6 ~	<3 ~	9.33	
NSLP Nonparticipants	244	55.6	0.48	43.0 ~	46.1	50.9	55.7	60.4	64.8	67.5 ~	80.7	9.8 ~	<3 ~	6.53	
Secondary School Students	1,582	54.2	0.11	46.9	48.5	51.2	54.2	57.1	59.8	61.5	95.8	3.4 ~	<3 ~	3.23	
NSLP Participants	855	53.5	0.13	47.2	48.6	51.0	53.5	56.1	58.4	59.8	>97	<3 ~	<3 ~		
NSLP Nonparticipants	727	54.8	0.19	46.5	48.4	51.5	54.9	58.2	61.2	63.0	93.8	4.0 ~	<3 ~	5.04	
Secondary School Students, Male	771	53.3	0.05	51.0	51.5	52.4	53.3	54.3	55.1	55.6	>97	<3 ~	<3 ~		
NSLP Participants	462	53.1	0.12	48.9	49.8	51.4	53.1	54.8	56.3	57.2	>97	<3 ~	<3 ~		
NSLP Nonparticipants	309	53.7	0.08	51.2 ~	51.8	52.7	53.7	54.7	55.6	56.1 ~	>97	<3 ~	<3 ~		
Secondary School Students, Female	811	55.0	0.20	45.5	47.7	51.2	55.0	58.7	62.1	64.3	90.2	6.0 ~	<3 ~	3.77	
NSLP Participants	393	54.1	0.26	45.6	47.5	50.6	54.1	57.5	60.6	62.4	92.6	5.9 ~	<3 ~	4.83	
NSLP Nonparticipants	418	55.7	0.31	45.1	47.6	51.6	55.8	59.9	63.6	66.0	86.8	6.5 ~	<3 ~	5.41	

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE J.16

USUAL DAILY PROTEIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Protein Intakes (g/kg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ³	331	2.6	0.04	1.6	1.8	2.1	2.5	3.0	3.5	3.8	0.76	<3 ~	
NSLP Participants	243	2.6	0.04	1.7 ~	1.8	2.2	2.5	3.0	3.4	3.7 ~	0.76	<3 ~	
NSLP Nonparticipants	88	2.6	0.09	1.4 ~	1.6 ~	2.0	2.5	3.1	3.8 ~	4.2 ~	0.76	<3 ~	
9 to 13 Years	921	1.9	0.02	1.0	1.1	1.4	1.8	2.3	2.8	3.1	0.76	<3 ~	
NSLP Participants	614	1.9	0.03	1.0	1.2	1.5	1.9	2.3	2.8	3.1	0.76	<3 ~	
NSLP Nonparticipants	307	1.8	0.04	0.9 ~	1.0	1.3	1.7	2.1	2.7	3.1 ~	0.76	<3 ~	
9 to 13 Years, Male	456	2.0	0.03	1.2	1.3	1.6	1.9	2.3	2.8	3.1	0.76	<3 ~	
NSLP Participants	319	2.0	0.03	1.2 ~	1.3	1.6	1.9	2.3	2.7	3.0 ~	0.76	<3 ~	
NSLP Nonparticipants	137	2.0	0.05	1.3 ~	1.4 ~	1.6	1.9	2.3	2.7 ~	3.0 ~	0.76	<3 ~	
9 to 13 Years, Female	465	1.8	0.03	0.8	1.0	1.3	1.7	2.2	2.7	3.1	0.76	3.3 ~	1.75
NSLP Participants	295	1.9	0.04	0.9 ~	1.0	1.4	1.8	2.3	2.9	3.3 ~	0.76	<3 ~	
NSLP Nonparticipants	170	1.6	0.04	0.7 ~	0.9	1.2	1.5	1.9	2.4	2.7 ~	0.76	5.8 ~	4.41
14 to 18 Years	976	1.3	0.02	0.6	0.8	1.0	1.2	1.6	1.9	2.2	--	8.1	2.37
NSLP Participants	486	1.4	0.02	0.8	0.9	1.1	1.3	1.7	2.0	2.3	--	3.5 ~	2.44
NSLP Nonparticipants	490	1.2	0.02	0.5	0.6	0.9	1.2	1.5	1.9	2.1	--	13.9	3.52
14 to 18 Years, Male	494	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.0	2.2	0.73	<3 ~	
NSLP Participants	277	1.5	0.02	1.0 ~	1.1	1.3	1.5	1.8	2.1	2.2 ~	0.73	<3 ~	
NSLP Nonparticipants	217	1.5	0.03	0.8 ~	0.9	1.1	1.4	1.7	2.1	2.2 ~	0.73	<3 ~	
14 to 18 Years, Female	482	1.1	0.02	0.5	0.6	0.8	1.1	1.3	1.7	1.9	0.71	16.2	3.48
NSLP Participants	209	1.2	0.03	0.6 ~	0.7	0.9	1.2	1.5	1.9	2.1 ~	0.71	11.2 ~	4.65
NSLP Nonparticipants	273	1.0	0.02	0.5 ~	0.6	0.8	1.0	1.3	1.6	1.8 ~	0.71	20.7	4.67
All Students	2,228	1.9	0.02	0.8	1.0	1.3	1.7	2.3	2.9	3.3	--	3.5	0.81
NSLP Participants	1,343	2.0	0.02	0.9	1.1	1.4	1.9	2.4	3.0	3.3	--	<3 ~	
NSLP Nonparticipants	885	1.6	0.03	0.7	0.8	1.1	1.5	2.0	2.6	3.1	--	6.8	1.96
All Students, Male	1,112	2.0	0.02	1.0	1.2	1.5	1.9	2.4	2.9	3.3	--	<3 ~	
NSLP Participants	718	2.0	0.02	1.1	1.3	1.6	2.0	2.4	2.9	3.2	--	<3 ~	
NSLP Nonparticipants	394	1.9	0.04	0.9	1.0	1.4	1.8	2.3	2.9	3.3	--	<3 ~	
All Students, Female	1,116	1.7	0.02	0.7	0.8	1.1	1.6	2.2	2.8	3.2	--	6.7	1.45
NSLP Participants	625	1.9	0.03	0.8	1.0	1.3	1.8	2.4	3.0	3.3	--	3.9 ~	1.37
NSLP Nonparticipants	491	1.5	0.03	0.5	0.7	1.0	1.3	1.8	2.4	2.8	--	11.3	2.91
By School Type													
Elementary School Students	706	2.3	0.03	1.3	1.5	1.9	2.3	2.8	3.3	3.6	--	<3 ~	
NSLP Participants	518	2.3	0.03	1.4	1.6	1.9	2.3	2.7	3.2	3.5	--	<3 ~	
NSLP Nonparticipants	188	2.4	0.05	1.4 ~	1.5	1.9	2.3	2.8	3.3	3.7 ~	--	<3 ~	

TABLE J.16

USUAL DAILY PROTEIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Protein Intakes (g/kg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	360	2.4	0.04	1.4	1.6	1.9	2.3	2.8	3.3	3.7	--	<3 ~	
NSLP Participants	266	2.4	0.04	1.4 ~	1.6	1.9	2.3	2.7	3.2	3.5 ~	--	<3 ~	
NSLP Nonparticipants	94	2.5	0.12	1.2 ~	1.4 ~	1.8	2.3	3.1	4.0 ~	4.6 ~	--	<3 ~	
Elementary School Students, Female	346	2.3	0.03	1.3	1.5	1.8	2.2	2.7	3.1	3.4	--	<3 ~	
NSLP Participants	252	2.3	0.04	1.3 ~	1.5	1.9	2.3	2.7	3.2	3.5 ~	--	<3 ~	
NSLP Nonparticipants	94	2.2	0.05	1.4 ~	1.5 ~	1.8	2.1	2.5	2.9 ~	3.1 ~	--	<3 ~	
Middle School Students	761	1.4	0.02	0.8	0.9	1.1	1.3	1.7	2.1	2.3	--	4.8 ~	2.37
NSLP Participants	479	1.5	0.02	0.8	0.9	1.1	1.4	1.8	2.2	2.4	--	3.2 ~	2.42
NSLP Nonparticipants	282	1.3	0.03	0.7 ~	0.8	1.0	1.2	1.5	1.9	2.1 ~	--	8.0 ~	4.90
Middle School Students, Male	377	1.6	0.02	1.0	1.1	1.3	1.5	1.8	2.1	2.3	--	<3 ~	
NSLP Participants	263	1.7	0.03	1.1 ~	1.2	1.4	1.6	1.9	2.2	2.4 ~	--	<3 ~	
NSLP Nonparticipants	114	1.4	0.03	1.0 ~	1.0 ~	1.2	1.4	1.6	1.8 ~	2.0 ~	--	<3 ~	
Middle School Students, Female	384	1.3	0.03	0.6	0.7	0.9	1.2	1.5	1.9	2.2	--	11.8 ~	3.67
NSLP Participants	216	1.3	0.03	0.6 ~	0.7	1.0	1.2	1.6	2.0	2.3 ~	--	10.8 ~	4.61
NSLP Nonparticipants	168	1.2	0.04	0.6 ~	0.7	0.9	1.1	1.5	1.8	2.1 ~	--	13.8 ~	5.74
High School Students	761	1.3	0.02	0.6	0.7	1.0	1.2	1.6	2.0	2.2	--	9.1	2.62
NSLP Participants	346	1.4	0.02	0.8	0.9	1.1	1.3	1.6	2.0	2.2	--	<3 ~	
NSLP Nonparticipants	415	1.2	0.03	0.5	0.6	0.9	1.2	1.5	1.9	2.2	--	14.4	3.60
High School Students, Male	375	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.1	2.3	--	<3 ~	
NSLP Participants	189	1.5	0.03	1.0 ~	1.1	1.3	1.5	1.7	2.0	2.2 ~	--	<3 ~	
NSLP Nonparticipants	186	1.5	0.04	0.7 ~	0.9	1.1	1.5	1.8	2.2	2.4 ~	--	4.7 ~	4.41
High School Students, Female	386	1.1	0.02	0.5	0.6	0.8	1.1	1.4	1.7	1.9	--	16.9	3.73
NSLP Participants	157	1.2	0.04	0.6 ~	0.7 ~	0.9	1.2	1.5	1.9 ~	2.2 ~	--	10.4 ~	4.99
NSLP Nonparticipants	229	1.0	0.03	0.5 ~	0.6	0.7	1.0	1.3	1.6	1.8 ~	--	22.6	4.97
Secondary School Students	1,522	1.4	0.01	0.7	0.8	1.0	1.3	1.6	2.0	2.2	--	6.6	1.81
NSLP Participants	825	1.4	0.02	0.8	0.9	1.1	1.4	1.7	2.1	2.3	--	<3 ~	
NSLP Nonparticipants	697	1.3	0.02	0.6	0.7	0.9	1.2	1.5	1.9	2.1	--	11.1	3.05
Secondary School Students, Male	752	1.5	0.01	1.0	1.1	1.3	1.5	1.8	2.1	2.3	--	<3 ~	
NSLP Participants	452	1.6	0.02	1.1	1.2	1.3	1.5	1.8	2.1	2.3	--	<3 ~	
NSLP Nonparticipants	300	1.5	0.02	0.9 ~	1.0	1.2	1.4	1.7	2.0	2.2 ~	--	<3 ~	
Secondary School Students, Female	770	1.2	0.02	0.5	0.7	0.9	1.1	1.4	1.8	2.0	--	14.5	2.67
NSLP Participants	373	1.3	0.03	0.6	0.7	0.9	1.2	1.6	1.9	2.2	--	10.9 ~	3.42
NSLP Nonparticipants	397	1.1	0.02	0.5	0.6	0.8	1.0	1.3	1.7	1.9	--	18.5	3.88

¹ For students with a Body Mass Index (BMI) within the healthy range (BMI ≥ 5th percentile and < 85th percentile), actual body weight was used. For other students a weight was used that would place the individual at the nearest end of the healthy weight range, based on his or her height.

² Standard error not displayed when percentage is less than 3 or greater than 97.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

Sample excludes students with unreliable height or weight data.

TABLE J.17

USUAL DAILY PROTEIN INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Protein (% kcal)									AMDR (10-30%) ¹				
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE
					5	10	25	50	75	90					
By Age/Gender Group															
J.37	6 to 8 Years ²	343	14.4	0.11	11.2	11.9	13.0	14.3	15.7	17.0	17.8	>97	<3 ~		<3 ~
	NSLP Participants	250	14.5	0.12	11.5 ~	12.1	13.2	14.4	15.7	16.9	17.6 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	93	14.2	0.24	10.6 ~	11.3 ~	12.5	14.0	15.6	17.3 ~	18.3 ~	>97	<3 ~		<3 ~
	9 to 13 Years	953	14.6	0.06	11.5	12.2	13.3	14.5	15.9	17.2	18.0	>97	<3 ~		<3 ~
	NSLP Participants	633	14.8	0.07	11.9	12.5	13.5	14.7	16.0	17.2	17.9	>97	<3 ~		<3 ~
	NSLP Nonparticipants	320	14.2	0.11	11.0	11.7	12.8	14.1	15.5	16.9	17.8	>97	<3 ~		<3 ~
	9 to 13 Years, Male	469	14.5	0.08	11.8	12.3	13.3	14.4	15.7	16.8	17.5	>97	<3 ~		<3 ~
	NSLP Participants	326	14.7	0.10	12.0	12.5	13.5	14.6	15.8	17.0	17.7	>97	<3 ~		<3 ~
	NSLP Nonparticipants	143	14.1	0.13	11.7 ~	12.2 ~	13.1	14.1	15.1	16.1 ~	16.7 ~	>97	<3 ~		<3 ~
	9 to 13 Years, Female	484	14.7	0.09	11.7	12.3	13.4	14.6	15.9	17.2	18.0	>97	<3 ~		<3 ~
	NSLP Participants	307	14.9	0.10	12.1 ~	12.7	13.7	14.8	16.1	17.2	17.9 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	177	14.3	0.17	10.9 ~	11.5	12.7	14.1	15.7	17.3	18.3 ~	>97	<3 ~		<3 ~
	14 to 18 Years	1,018	14.6	0.08	10.6	11.4	12.8	14.4	16.2	18.0	19.2	>97	<3 ~		<3 ~
	NSLP Participants	503	14.9	0.12	10.8	11.7	13.1	14.7	16.6	18.5	19.7	>97	<3 ~		<3 ~
	NSLP Nonparticipants	515	14.3	0.11	10.5	11.3	12.6	14.2	15.9	17.6	18.7	>97	<3 ~		<3 ~
	14 to 18 Years, Male	506	15.0	0.12	10.9	11.7	13.0	14.8	16.7	18.6	19.9	>97	<3 ~		<3 ~
	NSLP Participants	282	15.3	0.17	11.0 ~	11.8	13.2	15.0	17.0	19.0	20.3 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	224	14.7	0.17	11.0 ~	11.6	12.9	14.4	16.2	18.0	19.2 ~	>97	<3 ~		<3 ~
	14 to 18 Years, Female	512	14.3	0.10	10.7	11.4	12.7	14.1	15.7	17.3	18.3	>97	<3 ~		<3 ~
	NSLP Participants	221	14.5	0.15	11.1 ~	11.8	13.0	14.4	15.9	17.4	18.5 ~	>97	<3 ~		<3 ~
NSLP Nonparticipants	291	14.1	0.14	10.3 ~	11.1	12.4	14.0	15.6	17.3	18.4 ~	96.2	3.8 ~	6.55	<3 ~	
All Students	2,314	14.6	0.05	11.2	11.9	13.1	14.4	15.9	17.4	18.3	>97	<3 ~		<3 ~	
NSLP Participants	1,386	14.7	0.06	11.5	12.1	13.3	14.6	16.1	17.5	18.3	>97	<3 ~		<3 ~	
NSLP Nonparticipants	928	14.3	0.08	10.7	11.4	12.7	14.1	15.7	17.3	18.3	>97	<3 ~		<3 ~	
All Students, Male	1,143	14.7	0.06	11.5	12.1	13.2	14.5	16.0	17.3	18.2	>97	<3 ~		<3 ~	
NSLP Participants	733	14.8	0.07	11.8	12.4	13.4	14.7	16.1	17.4	18.2	>97	<3 ~		<3 ~	
NSLP Nonparticipants	410	14.4	0.10	11.2	11.8	12.9	14.3	15.7	17.1	18.1	>97	<3 ~		<3 ~	
All Students, Female	1,171	14.4	0.06	11.1	11.8	13.0	14.3	15.8	17.2	18.2	>97	<3 ~		<3 ~	
NSLP Participants	653	14.7	0.08	11.5	12.2	13.3	14.6	15.9	17.3	18.1	>97	<3 ~		<3 ~	
NSLP Nonparticipants	518	14.2	0.11	10.4	11.2	12.5	14.0	15.7	17.3	18.4	96.8	3.2 ~	3.89	<3 ~	
By School Type															
Elementary School Students	732	14.6	0.07	11.5	12.1	13.2	14.5	15.9	17.2	18.1	>97	<3 ~		<3 ~	
NSLP Participants	531	14.7	0.08	11.7	12.3	13.4	14.7	16.0	17.2	18.0	>97	<3 ~		<3 ~	
NSLP Nonparticipants	201	14.3	0.14	11.2 ~	11.8	12.9	14.2	15.6	17.0	17.8 ~	>97	<3 ~		<3 ~	

TABLE J.17

USUAL DAILY PROTEIN INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Percent of Energy from Protein (% kcal)										AMDR (10-30%) ¹				
	N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
				5	10	25	50	75	90						95
By School Type															
J.38	Elementary School Students, Male	372	14.5	0.10	11.5	12.1	13.2	14.4	15.7	16.9	17.6	>97	<3 ~		<3 ~
	NSLP Participants	271	14.6	0.11	11.8 ~	12.3	13.3	14.5	15.8	17.0	17.7 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	101	13.2	0.25	8.9 ~	9.9 ~	11.6	13.3	14.9	16.3 ~	17.2 ~	89.3	10.7 ~	35.40	<3 ~
	Elementary School Students, Female	360	14.8	0.11	11.4	12.1	13.3	14.7	16.1	17.5	18.4	>97	<3 ~		<3 ~
	NSLP Participants	260	14.8	0.13	11.6 ~	12.3	13.4	14.8	16.2	17.5	18.3 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	100	14.6	0.24	11.0 ~	11.7 ~	12.9	14.4	16.1	17.7 ~	18.7 ~	>97	<3 ~		<3 ~
	Middle School Students	787	14.4	0.08	11.2	11.8	13.0	14.3	15.7	17.2	18.1	>97	<3 ~		<3 ~
	NSLP Participants	497	14.7	0.09	11.7	12.3	13.4	14.6	15.9	17.2	18.1	>97	<3 ~		<3 ~
	NSLP Nonparticipants	290	14.0	0.14	10.4 ~	11.1	12.3	13.8	15.4	17.1	18.2 ~	97.0	3.0 ~	4.76	<3 ~
	Middle School Students, Male	386	14.8	0.10	11.9	12.5	13.5	14.7	16.0	17.4	18.2	>97	<3 ~		<3 ~
	NSLP Participants	270	15.1	0.12	12.2 ~	12.8	13.8	15.0	16.4	17.7	18.5 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	116	14.2	0.16	11.5 ~	12.1 ~	13.0	14.1	15.3	16.5 ~	17.3 ~	>97	<3 ~		<3 ~
	Middle School Students, Female	401	14.0	0.10	10.8	11.5	12.6	13.9	15.4	16.8	17.7	>97	<3 ~		<3 ~
	NSLP Participants	227	14.2	0.11	11.5 ~	12.1	13.0	14.1	15.3	16.5	17.2 ~	>97	<3 ~		<3 ~
	NSLP Nonparticipants	174	13.8	0.20	10.0 ~	10.7	12.0	13.6	15.4	17.2	18.4 ~	95.0	5.0 ~	6.46	<3 ~
	High School Students	795	14.6	0.09	10.6	11.4	12.8	14.4	16.1	17.9	19.1	>97	<3 ~		<3 ~
	NSLP Participants	358	14.9	0.15	10.5	11.4	12.9	14.6	16.5	18.6	20.0	96.7	3.3 ~	2.19	<3 ~
	NSLP Nonparticipants	437	14.3	0.12	10.6	11.4	12.7	14.2	15.8	17.5	18.6	>97	<3 ~		<3 ~
	High School Students, Male	385	14.9	0.14	10.9	11.6	13.0	14.7	16.6	18.5	19.8	>97	<3 ~		<3 ~
	NSLP Participants	192	15.1	0.21	10.7 ~	11.5	13.0	14.8	16.8	18.9	20.2 ~	>97	<3 ~		<3 ~
NSLP Nonparticipants	193	14.8	0.17	11.2 ~	11.9	13.1	14.6	16.2	17.9	19.0 ~	>97	<3 ~		<3 ~	
High School Students, Female	410	14.2	0.12	10.6	11.3	12.6	14.1	15.7	17.2	18.3	>97	<3 ~		<3 ~	
NSLP Participants	166	14.6	0.21	10.6 ~	11.5	12.9	14.4	16.1	17.9	19.2 ~	>97	<3 ~		<3 ~	
NSLP Nonparticipants	244	14.0	0.16	10.2 ~	11.0	12.3	13.9	15.6	17.3	18.3 ~	95.8	4.2 ~	7.85	<3 ~	
Secondary School Students	1,582	14.5	0.06	10.9	11.6	12.9	14.3	16.0	17.6	18.6	>97	<3 ~		<3 ~	
NSLP Participants	855	14.8	0.08	11.3	12.0	13.2	14.6	16.2	17.8	18.8	>97	<3 ~		<3 ~	
NSLP Nonparticipants	727	14.2	0.09	10.6	11.3	12.6	14.1	15.7	17.3	18.3	>97	<3 ~		<3 ~	
Secondary School Students, Male	771	14.9	0.08	11.3	12.0	13.2	14.7	16.4	18.0	19.0	>97	<3 ~		<3 ~	
NSLP Participants	462	15.1	0.11	11.6	12.2	13.5	14.9	16.6	18.2	19.2	>97	<3 ~		<3 ~	
NSLP Nonparticipants	309	14.6	0.13	11.2 ~	11.8	13.0	14.4	16.0	17.6	18.6 ~	>97	<3 ~		<3 ~	
Secondary School Students, Female	811	14.1	0.08	10.7	11.4	12.6	14.0	15.5	17.0	18.0	>97	<3 ~		<3 ~	
NSLP Participants	393	14.4	0.10	11.2	11.9	13.0	14.3	15.7	17.1	18.0	>97	<3 ~		<3 ~	
NSLP Nonparticipants	418	14.0	0.12	10.1	10.9	12.2	13.8	15.5	17.2	18.3	95.6	4.4 ~	5.38	<3 ~	

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE J.18

USUAL DAILY VITAMIN A INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin A Intakes (RAE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	630	10.4	355	403	493	608	743	884	980	900	<3 ~	
NSLP Participants	250	618	13.7	321 ~	372	466	589	737	901	1,016 ~	900	<3 ~	
NSLP Nonparticipants	93	665	13.5	467 ~	505 ~	574	657	748	837 ~	893 ~	900	<3 ~	
9 to 13 Years	953	656	7.9	321	378	486	625	791	972	1,099	1,700	16.4	3.76
NSLP Participants	633	668	9.8	335	391	495	633	801	989	1,123	1,700	15.0	3.95
NSLP Nonparticipants	320	630	12.8	309	368	472	600	755	930	1,056	1,700	18.7 ~	9.06
9 to 13 Years, Male	469	700	10.6	375	432	537	673	833	1,002	1,115	1,700	11.5 ~	5.53
NSLP Participants	326	702	10.8	426	475	564	678	813	958	1,057	1,700	6.7 ~	6.52
NSLP Nonparticipants	143	692	20.5	340 ~	400 ~	513	664	846	1,029 ~	1,142 ~	1,700	15.2 ~	13.30
9 to 13 Years, Female	484	613	11.2	279	334	439	578	745	930	1,063	1,700	21.8	4.87
NSLP Participants	307	633	15.4	281 ~	336	443	589	773	983	1,136 ~	1,700	21.3	4.91
NSLP Nonparticipants	177	567	14.9	287 ~	335	427	544	680	825	925 ~	1,700	23.7 ~	12.60
14 to 18 Years	1,018	575	8.9	206	259	369	527	729	953	1,109	2,800	54.1	2.06
NSLP Participants	503	632	13.5	243	301	417	580	789	1,027	1,198	2,800	47.4	2.68
NSLP Nonparticipants	515	526	11.8	183	231	332	479	669	882	1,031	2,800	60.6	3.65
14 to 18 Years, Male	506	680	13.3	280	341	463	634	847	1,079	1,238	2,800	49.4	2.91
NSLP Participants	282	700	16.5	330 ~	389	501	656	854	1,072	1,220 ~	2,800	45.9	4.07
NSLP Nonparticipants	224	652	22.1	229 ~	288	413	594	828	1,092	1,276 ~	2,800	54.6	4.39
14 to 18 Years, Female	512	478	10.2	175	219	309	439	604	787	914	2,800	58.1	3.10
NSLP Participants	221	546	19.7	191 ~	241	342	487	682	920	1,100 ~	2,800	49.6	3.75
NSLP Nonparticipants	291	434	11.5	171 ~	211	292	404	544	695	798 ~	2,800	65.8	5.82
All Students	2,314	622	5.3	276	332	440	586	763	957	1,092	--	25.1	1.81
NSLP Participants	1,386	646	6.9	303	360	466	607	781	977	1,118	--	20.0	2.17
NSLP Nonparticipants	928	584	8.0	249	302	407	550	724	910	1,036	--	33.4	3.02
All Students, Male	1,143	681	7.0	345	405	514	653	817	994	1,116	--	21.1	2.89
NSLP Participants	733	689	8.1	383	436	535	662	813	976	1,089	--	16.0	3.44
NSLP Nonparticipants	410	669	13.6	284	346	468	634	833	1,039	1,175	--	29.7	4.87
All Students, Female	1,171	563	7.1	239	290	391	526	694	881	1,014	--	29.1	2.32
NSLP Participants	653	599	10.8	248	303	409	552	734	950	1,112	--	23.8	2.77
NSLP Nonparticipants	518	515	9.3	224	270	362	486	636	797	905	--	37.4	3.62
By School Type													
Elementary School Students	732	657	7.6	368	419	513	633	774	925	1,029	--	6.7 ~	3.59
NSLP Participants	531	662	10.1	352	405	502	627	782	960	1,091	--	7.4 ~	3.25
NSLP Nonparticipants	201	662	9.0	469 ~	506	572	653	742	829	885 ~	--	<3 ~	

TABLE J.18

USUAL DAILY VITAMIN A INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin A Intakes (RAE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	682	11.1	373	429	531	660	808	962	1,066	--	6.0 ~	4.88
NSLP Participants	271	678	13.2	375 ~	427	525	650	800	962	1,074 ~	--	5.5 ~	4.32
NSLP Nonparticipants	101	697	18.3	418 ~	470 ~	566	683	813	940 ~	1,021 ~	--	4.9 ~	16.90
Elementary School Students, Female	360	640	11.9	342	392	484	605	756	929	1,056	--	8.8 ~	5.02
NSLP Participants	260	647	15.8	324 ~	377	475	605	768	963	1,113 ~	--	9.1 ~	5.12
NSLP Nonparticipants	100	630	13.9	424 ~	462 ~	531	618	715	813 ~	876 ~	--	<3 ~	
Middle School Students	787	590	9.0	248	303	409	553	729	923	1,058	--	33.7	3.15
NSLP Participants	497	639	12.7	264	323	438	595	790	1,010	1,167	--	28.8	3.78
NSLP Nonparticipants	290	514	11.2	244 ~	289	376	491	628	770	864 ~	--	42.5	5.00
Middle School Students, Male	386	676	13.2	325	383	492	638	818	1,016	1,154	--	24.7	6.02
NSLP Participants	270	732	16.5	367 ~	428	542	692	877	1,084	1,230 ~	--	16.6 ~	8.25
NSLP Nonparticipants	116	557	22.9	230 ~	283 ~	379	512	696	900 ~	1,032 ~	--	42.9	5.86
Middle School Students, Female	401	512	11.2	203	251	348	481	642	812	926	--	41.6	3.38
NSLP Participants	227	539	18.4	167 ~	221	332	493	702	923	1,063 ~	--	40.5	3.46
NSLP Nonparticipants	174	478	11.8	255 ~	293	366	461	572	685	759 ~	--	43.8	7.22
High School Students	795	585	10.1	214	268	378	537	739	963	1,119	--	52.4	2.28
NSLP Participants	358	623	15.5	250	305	415	570	771	1,004	1,174	--	48.8	3.18
NSLP Nonparticipants	437	555	13.5	190	242	349	505	707	932	1,089	--	55.9	3.33
High School Students, Male	385	691	15.4	289	350	472	644	858	1,092	1,254	--	47.8	3.38
NSLP Participants	192	683	20.2	313 ~	370	481	636	836	1,058	1,210 ~	--	49.0	4.62
NSLP Nonparticipants	193	696	23.2	262 ~	325	456	646	883	1,134	1,300 ~	--	47.5	4.78
High School Students, Female	410	487	11.9	180	224	314	445	613	802	936	--	56.8	3.36
NSLP Participants	166	549	22.3	201 ~	250	350	494	681	908	1,084 ~	--	48.5	4.44
NSLP Nonparticipants	244	450	13.6	166 ~	209	295	416	568	735	848 ~	--	62.4	5.34
Secondary School Students	1,582	586	6.9	226	280	390	542	734	948	1,098	--	44.9	1.66
NSLP Participants	855	630	9.9	255	312	425	582	780	1,007	1,170	--	38.8	2.36
NSLP Nonparticipants	727	541	9.4	205	255	357	501	682	880	1,015	--	51.9	2.52
Secondary School Students, Male	771	682	10.1	305	364	480	639	839	1,056	1,204	--	38.4	2.98
NSLP Participants	462	702	11.8	353	411	523	669	842	1,034	1,168	--	33.1	4.35
NSLP Nonparticipants	309	651	17.4	245 ~	305	427	601	823	1,065	1,227 ~	--	46.5	3.78
Secondary School Students, Female	811	497	8.3	182	229	325	460	629	814	939	--	50.5	2.12
NSLP Participants	393	544	14.5	179	229	335	492	696	927	1,090	--	45.0	2.66
NSLP Nonparticipants	418	458	9.6	191	233	316	431	570	720	821	--	57.3	3.81

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement. RAE = Retinol Activity Equivalents.

TABLE J.19

USUAL DAILY VITAMIN A INTAKES (IN RE): NSLP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin A Intakes (RE)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	872	13.9	502	566	687	843	1,026	1,215	1,340
NSLP Participants	250	864	20.6	425 ~	494	630	816	1,046	1,296	1,468 ~
NSLP Nonparticipants	93	902	30.5	482 ~	554 ~	691	869	1,077	1,292 ~	1,435 ~
9 to 13 Years	953	906	10.2	470	544	683	865	1,083	1,320	1,484
NSLP Participants	633	925	13.9	466	539	680	870	1,108	1,378	1,573
NSLP Nonparticipants	320	865	14.1	496	562	685	840	1,018	1,199	1,318
9 to 13 Years, Male	469	949	13.7	536	607	739	911	1,119	1,342	1,492
NSLP Participants	326	951	15.1	574	638	759	916	1,104	1,308	1,450
NSLP Nonparticipants	143	958	22.8	555 ~	628 ~	763	933	1,128	1,323 ~	1,447 ~
9 to 13 Years, Female	484	859	15.0	412	486	625	811	1,038	1,290	1,468
NSLP Participants	307	896	23.3	381 ~	457	610	823	1,099	1,424	1,663 ~
NSLP Nonparticipants	177	775	16.2	456 ~	514	621	756	908	1,060	1,158 ~
14 to 18 Years	1,018	805	12.1	305	379	528	739	1,008	1,313	1,529
NSLP Participants	503	860	17.7	343	423	581	793	1,062	1,379	1,610
NSLP Nonparticipants	515	756	16.2	279	348	490	694	955	1,245	1,448
14 to 18 Years, Male	506	930	15.3	459	535	682	881	1,126	1,391	1,569
NSLP Participants	282	937	22.1	459 ~	539	681	867	1,121	1,435	1,655 ~
NSLP Nonparticipants	224	928	25.6	412 ~	492	651	871	1,143	1,438	1,640 ~
14 to 18 Years, Female	512	686	15.6	232	296	429	624	875	1,156	1,353
NSLP Participants	221	765	27.8	253 ~	321	467	685	976	1,312	1,551 ~
NSLP Nonparticipants	291	636	18.6	221 ~	281	404	582	808	1,060	1,233 ~
All Students	2,314	863	7.1	401	476	621	814	1,051	1,310	1,491
NSLP Participants	1,386	890	9.5	424	498	639	832	1,078	1,357	1,554
NSLP Nonparticipants	928	817	10.3	380	451	590	777	1,000	1,236	1,394
All Students, Male	1,143	927	9.0	503	575	711	889	1,103	1,330	1,483
NSLP Participants	733	926	10.8	523	592	720	888	1,090	1,311	1,464
NSLP Nonparticipants	410	934	16.3	466	545	696	895	1,130	1,374	1,535
All Students, Female	1,171	798	10.2	337	409	550	743	984	1,255	1,449
NSLP Participants	653	851	15.8	341	418	569	778	1,049	1,370	1,609
NSLP Nonparticipants	518	726	12.8	323	388	515	686	894	1,114	1,263
By School Type										
Elementary School Students	732	913	10.2	527	594	719	880	1,071	1,275	1,414
NSLP Participants	531	916	14.4	477	548	683	864	1,089	1,347	1,532
NSLP Nonparticipants	201	909	21.4	476 ~	550	691	875	1,090	1,312	1,458 ~

TABLE J.19

USUAL DAILY VITAMIN A INTAKES (IN RE): NSLP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Vitamin A Intakes (RE)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	932	16.1	497	571	710	892	1,112	1,346	1,503
NSLP Participants	271	926	20.7	477 ~	548	683	870	1,109	1,379	1,567 ~
NSLP Nonparticipants	101	958	14.4	732 ~	777 ~	857	951	1,052	1,147 ~	1,206 ~
Elementary School Students, Female	360	905	15.2	518	582	703	863	1,060	1,279	1,435
NSLP Participants	260	921	23.2	461 ~	532	667	851	1,093	1,390	1,617 ~
NSLP Nonparticipants	100	865	3.4	811 ~	823 ~	842	865	888	909 ~	922 ~
Middle School Students	787	795	10.8	382	449	578	751	964	1,197	1,358
NSLP Participants	497	848	15.1	396	469	608	797	1,032	1,292	1,472
NSLP Nonparticipants	290	718	14.9	364 ~	424	537	686	862	1,052	1,181 ~
Middle School Students, Male	386	878	14.4	488	554	677	840	1,039	1,254	1,401
NSLP Participants	270	934	16.9	547 ~	614	739	900	1,091	1,298	1,440 ~
NSLP Nonparticipants	116	766	32.2	328 ~	395 ~	514	690	955	1,263 ~	1,456 ~
Middle School Students, Female	401	719	15.4	301	368	499	675	890	1,126	1,290
NSLP Participants	227	756	25.7	250 ~	323	468	683	979	1,303	1,505 ~
NSLP Nonparticipants	174	675	14.7	397 ~	446	538	654	788	929	1,023 ~
High School Students	795	823	13.6	317	392	545	761	1,033	1,333	1,539
NSLP Participants	358	864	21.8	333	412	573	791	1,071	1,406	1,650
NSLP Nonparticipants	437	792	18.0	296	369	519	732	999	1,293	1,495
High School Students, Male	385	958	17.3	486	563	713	914	1,154	1,409	1,581
NSLP Participants	192	932	27.5	432 ~	509	661	870	1,136	1,436	1,646 ~
NSLP Nonparticipants	193	987	26.1	484 ~	566	725	939	1,197	1,470	1,653 ~
High School Students, Female	410	702	17.9	235	301	438	638	896	1,184	1,384
NSLP Participants	166	781	33.4	255 ~	324	472	695	995	1,346	1,599 ~
NSLP Nonparticipants	244	653	21.0	223 ~	285	414	598	833	1,092	1,270 ~
Secondary School Students	1,582	811	8.9	342	414	557	755	1,004	1,280	1,471
NSLP Participants	855	857	12.8	366	441	591	797	1,056	1,347	1,553
NSLP Nonparticipants	727	765	12.5	315	384	521	712	952	1,216	1,398
Secondary School Students, Male	771	924	11.4	486	558	696	880	1,105	1,347	1,510
NSLP Participants	462	933	14.5	504	576	712	891	1,108	1,343	1,507
NSLP Nonparticipants	309	916	21.1	409 ~	488	645	862	1,130	1,417	1,608 ~
Secondary School Students, Female	811	707	12.1	254	320	457	651	897	1,166	1,352
NSLP Participants	393	770	21.2	244	314	465	689	987	1,328	1,570
NSLP Nonparticipants	418	657	14.0	270	329	449	614	818	1,038	1,187

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

RE = Retinol Equivalents.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.20

USUAL DAILY VITAMIN C INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin C Intakes (mg)										EAR ^{1,2}		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ³	343	88	1.7	45	52	66	84	106	129	144	22	<3 ~	
NSLP Participants	250	87	2.2	39 ~	47	61	82	107	134	153 ~	22	<3 ~	
NSLP Nonparticipants	93	92	2.0	63 ~	68 ~	78	90	103	117 ~	126 ~	22	<3 ~	
9 to 13 Years	953	95	1.6	34	43	60	86	120	159	188	39	7.6 ~	4.00
NSLP Participants	633	96	1.9	37	45	62	87	121	160	188	39	5.9 ~	5.09
NSLP Nonparticipants	320	93	2.8	31	39	56	82	118	161	191	39	9.8 ~	6.58
9 to 13 Years, Male	469	98	2.0	42	50	67	90	121	155	179	39	3.5 ~	5.33
NSLP Participants	326	93	2.1	42	50	65	87	114	144	164	39	3.5 ~	6.54
NSLP Nonparticipants	143	104	3.7	44 ~	53 ~	71	96	128	163 ~	188 ~	39	3.1 ~	12.00
9 to 13 Years, Female	484	92	2.5	27	35	52	80	119	165	199	39	13.2 ~	4.88
NSLP Participants	307	97	3.3	29 ~	37	56	84	124	171	206 ~	39	11.1 ~	6.28
NSLP Nonparticipants	177	83	3.9	21 ~	29	45	72	108	151	182 ~	39	18.8 ~	7.08
14 to 18 Years	1,018	90	1.8	24	32	49	77	117	164	199	--	34.0	2.76
NSLP Participants	503	88	2.4	26	33	50	76	112	157	189	--	34.8	4.09
NSLP Nonparticipants	515	92	2.6	24	32	49	79	121	172	208	--	33.6	3.71
14 to 18 Years, Male	506	101	2.5	32	41	60	90	129	175	207	63	27.3	5.69
NSLP Participants	282	91	2.3	41 ~	48	64	85	112	142	162 ~	63	24.1 ~	13.10
NSLP Nonparticipants	224	113	5.0	27 ~	36	59	96	148	211	258 ~	63	27.8	6.65
14 to 18 Years, Female	512	80	2.4	19	25	41	67	105	151	186	56	39.9	2.93
NSLP Participants	221	84	4.4	17 ~	23	39	66	109	165	210 ~	56	41.3	4.12
NSLP Nonparticipants	291	78	2.7	22 ~	29	44	68	101	140	168 ~	56	37.5	4.60
All Students	2,314	92	1.0	31	39	56	82	116	157	186	--	14.6	2.13
NSLP Participants	1,386	91	1.3	33	41	57	82	115	152	180	--	12.2	2.70
NSLP Nonparticipants	928	92	1.7	28	36	54	81	119	163	195	--	19.2	3.28
All Students, Male	1,143	96	1.4	36	44	62	88	121	160	187	--	11.7	3.21
NSLP Participants	733	90	1.4	40	47	63	84	111	142	163	--	10.2 ~	3.97
NSLP Nonparticipants	410	108	3.1	32	42	63	95	139	192	230	--	14.7 ~	5.38
All Students, Female	1,171	87	1.5	27	34	50	76	111	153	183	--	17.1	2.84
NSLP Participants	653	91	2.1	28	36	53	80	117	160	192	--	13.8	3.69
NSLP Nonparticipants	518	80	2.0	24	31	47	71	103	141	168	--	22.7	4.16
By School Type													
Elementary School Students	732	93	1.4	43	50	66	87	113	143	163	--	<3 ~	
NSLP Participants	531	92	2.1	34	41	58	83	116	155	183	--	5.7 ~	3.35
NSLP Nonparticipants	201	93	2.7	43 ~	50	66	87	114	145	166 ~	--	<3 ~	

TABLE J.20

USUAL DAILY VITAMIN C INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin C Intakes (mg)										EAR ^{1,2}		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	93	2.2	39	47	63	86	115	148	171	--	5.1 ~	4.13
NSLP Participants	271	90	2.9	30 ~	38	55	80	114	153	181 ~	--	8.2 ~	4.32
NSLP Nonparticipants	101	103	4.9	40 ~	49 ~	68	94	129	169 ~	197 ~	--	<3 ~	
Elementary School Students, Female	360	92	1.9	44	52	66	87	112	140	160	--	<3 ~	
NSLP Participants	260	96	3.1	36 ~	44	61	86	120	160	190 ~	--	3.7 ~	4.84
NSLP Nonparticipants	100	85	3.3	41 ~	48 ~	61	80	103	128 ~	146 ~	--	<3 ~	
Middle School Students	787	87	1.8	27	34	51	77	112	152	180	--	19.7	3.88
NSLP Participants	497	85	1.8	33	40	55	78	108	140	162	--	14.2 ~	7.22
NSLP Nonparticipants	290	88	3.5	19 ~	27	45	75	117	167	203 ~	--	22.8	4.74
Middle School Students, Male	386	92	2.6	31	38	54	81	118	161	191	--	13.4 ~	7.42
NSLP Participants	270	88	2.2	41 ~	48	62	82	109	136	155 ~	--	6.0 ~	12.40
NSLP Nonparticipants	116	102	8.3	16 ~	23 ~	42	77	134	212 ~	275 ~	--	28.0	6.11
Middle School Students, Female	401	82	2.2	24	31	48	74	107	141	164	--	20.4	4.82
NSLP Participants	227	83	3.1	24 ~	32	49	75	109	146	171 ~	--	19.9 ~	7.06
NSLP Nonparticipants	174	79	3.0	24 ~	32	49	74	104	134	152 ~	--	17.9 ~	7.56
High School Students	795	92	2.0	26	34	52	80	120	167	201	--	31.6	3.57
NSLP Participants	358	92	2.9	28	36	53	79	117	164	199	--	31.8	5.56
NSLP Nonparticipants	437	94	2.9	24	32	51	80	122	173	210	--	31.7	4.59
High School Students, Male	385	105	2.7	38	47	67	95	133	176	207	--	22.3 ~	8.26
NSLP Participants	192	95	2.4	51 ~	58	72	90	114	138	156 ~	--	16.4 ~	23.70
NSLP Nonparticipants	193	117	4.9	34 ~	45	68	103	151	207	248 ~	--	21.7 ~	9.76
High School Students, Female	410	81	2.8	18	25	40	67	106	155	192	--	40.2	3.25
NSLP Participants	166	87	5.3	14 ~	21	37	67	118	185	231 ~	--	42.2	4.28
NSLP Nonparticipants	244	77	3.1	20 ~	27	42	66	100	140	170 ~	--	39.4	4.83
Secondary School Students	1,582	90	1.3	27	34	51	79	116	161	193	--	26.2	2.71
NSLP Participants	855	89	1.6	31	39	55	80	112	150	176	--	21.6	4.81
NSLP Nonparticipants	727	92	2.3	22	30	48	78	121	172	210	--	29.9	3.13
Secondary School Students, Male	771	99	1.9	35	44	62	90	126	168	198	--	18.0 ~	5.71
NSLP Participants	462	91	1.5	47	54	68	87	110	134	151	--	9.9 ~	12.60
NSLP Nonparticipants	309	111	4.3	24 ~	33	56	94	148	213	259 ~	--	26.0	5.00
Secondary School Students, Female	811	81	1.8	20	28	44	70	107	150	180	--	31.4	2.88
NSLP Participants	393	86	2.8	21	28	45	73	113	160	194	--	29.2	4.26
NSLP Nonparticipants	418	78	2.3	22	29	44	68	101	139	166	--	32.0	4.18

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The EAR for vitamin C for smokers is 35mg greater than for nonsmokers. This table uses EARs for nonsmokers.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

EAR = Estimated Average Requirement.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by

Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

TABLE J.21

USUAL DAILY VITAMIN E INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin E Intakes (mg AT)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	5.7	0.08	3.6	4.0	4.6	5.5	6.5	7.6	8.4	6	64.4	12.30
NSLP Participants	250	5.3	0.06	3.9 ~	4.1	4.6	5.2	5.8	6.5	6.9 ~	6	79.9 ~	32.50
NSLP Nonparticipants	93	7.7	0.26	4.5 ~	5.0 ~	5.9	7.3	8.9	10.9 ~	12.2 ~	6	26.1 ~	47.40
9 to 13 Years	953	6.2	0.08	3.2	3.7	4.5	5.7	7.3	9.3	10.9	9	88.4	4.08
NSLP Participants	633	6.0	0.09	3.1	3.6	4.4	5.6	7.1	9.0	10.4	9	90.1	3.81
NSLP Nonparticipants	320	6.6	0.16	3.3	3.8	4.7	6.0	7.8	10.1	11.9	9	84.5	10.20
9 to 13 Years, Male	469	6.7	0.10	3.8	4.3	5.1	6.3	7.8	9.5	10.8	9	86.6	9.00
NSLP Participants	326	6.5	0.15	3.2	3.7	4.7	6.0	7.8	9.9	11.6	9	85.2	6.07
NSLP Nonparticipants	143	7.0	0.21	3.8 ~	4.3 ~	5.2	6.5	8.2	10.3 ~	11.8 ~	9	82.3	22.10
9 to 13 Years, Female	484	5.7	0.11	2.9	3.3	4.1	5.2	6.7	8.7	10.3	9	91.3	4.19
NSLP Participants	307	5.5	0.10	3.0 ~	3.5	4.2	5.3	6.5	7.9	8.9 ~	9	95.4 ~	3.87
NSLP Nonparticipants	177	6.2	0.31	2.5 ~	2.9	3.8	5.1	7.3	10.6	13.5 ~	9	84.7	6.74
14 to 18 Years	1,018	6.6	0.09	3.1	3.7	4.7	6.1	8.0	10.2	11.8	12	95.4	2.46
NSLP Participants	503	6.7	0.09	3.9	4.4	5.3	6.5	7.9	9.4	10.4	12	>97 ~	
NSLP Nonparticipants	515	6.6	0.14	2.6	3.2	4.3	5.9	8.1	10.7	12.7	12	93.6	3.01
14 to 18 Years, Male	506	7.5	0.11	4.2	4.7	5.8	7.2	9.0	10.8	12.0	12	95.0	5.73
NSLP Participants	282	7.4	0.09	5.2 ~	5.6	6.3	7.2	8.3	9.3	10.1 ~	12	>97 ~	
NSLP Nonparticipants	224	7.8	0.21	3.7 ~	4.3	5.6	7.3	9.4	11.9	13.7 ~	12	90.4	7.39
14 to 18 Years, Female	512	5.8	0.11	2.6	3.1	4.0	5.3	7.1	9.1	10.6	12	>97 ~	
NSLP Participants	221	6.1	0.16	3.0 ~	3.5	4.4	5.6	7.3	9.2	10.5 ~	12	>97 ~	
NSLP Nonparticipants	291	5.6	0.17	2.3 ~	2.8	3.7	5.1	6.9	9.2	11.0 ~	12	96.6 ~	2.86
All Students	2,314	6.2	0.05	3.2	3.7	4.5	5.8	7.4	9.3	10.8	--	86.1	2.40
NSLP Participants	1,386	6.0	0.06	3.2	3.7	4.5	5.7	7.1	8.7	9.8	--	87.7	2.97
NSLP Nonparticipants	928	6.6	0.10	3.0	3.5	4.5	6.0	7.9	10.4	12.4	--	83.9	3.71
All Students, Male	1,143	6.8	0.06	4.0	4.5	5.3	6.5	7.8	9.4	10.5	--	85.8	6.11
NSLP Participants	733	6.4	0.07	3.8	4.2	5.1	6.2	7.5	8.9	9.9	--	86.3	5.81
NSLP Nonparticipants	410	7.3	0.11	4.4	4.9	5.8	7.0	8.5	10.2	11.3	--	84.6	14.30
All Students, Female	1,171	5.7	0.07	2.8	3.2	4.1	5.2	6.8	8.8	10.3	--	88.1	2.51
NSLP Participants	653	5.5	0.08	2.9	3.3	4.1	5.2	6.6	8.1	9.2	--	90.5	3.39
NSLP Nonparticipants	518	6.0	0.15	2.5	3.0	3.9	5.2	7.2	9.9	12.2	--	85.7	3.53
By School Type													
Elementary School Students	732	6.0	0.06	4.0	4.3	4.9	5.7	6.7	7.9	8.7	--	82.9	11.40
NSLP Participants	531	5.7	0.07	3.4	3.8	4.5	5.5	6.6	7.8	8.7	--	84.6	6.87
NSLP Nonparticipants	201	6.8	0.17	3.8 ~	4.3	5.1	6.3	7.9	9.8	11.3 ~	--	68.0	20.20

TABLE J.21

USUAL DAILY VITAMIN E INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin E Intakes (mg AT)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	6.4	0.04	5.2	5.4	5.8	6.3	6.9	7.4	7.8	--	90.5 ~	68.20
NSLP Participants	271	6.1	0.12	3.5 ~	3.9	4.7	5.7	7.1	8.6	9.8 ~	--	80.2	11.50
NSLP Nonparticipants	101	7.4	0.12	5.7 ~	6.0 ~	6.6	7.3	8.1	9.0 ~	9.5 ~	--	65.0 ~	149.00
Elementary School Students, Female	360	5.5	0.08	3.6	3.9	4.5	5.3	6.3	7.4	8.2	--	83.8	9.24
NSLP Participants	260	5.3	0.08	3.5 ~	3.8	4.4	5.2	6.0	7.0	7.6 ~	--	88.9	7.38
NSLP Nonparticipants	100	6.2	0.31	3.1 ~	3.4 ~	4.2	5.4	7.2	9.7 ~	11.8 ~	--	71.3	12.00
Middle School Students	787	6.0	0.08	3.0	3.5	4.4	5.6	7.2	9.1	10.4	--	91.7	3.81
NSLP Participants	497	6.0	0.09	3.2	3.7	4.5	5.7	7.2	8.7	9.8	--	94.1	4.39
NSLP Nonparticipants	290	6.0	0.18	2.6 ~	3.1	4.0	5.4	7.3	9.7	11.6 ~	--	88.8	6.14
Middle School Students, Male	386	6.2	0.09	3.6	4.1	4.9	6.0	7.3	8.6	9.6	--	95.0	6.49
NSLP Participants	270	6.5	0.11	3.9 ~	4.3	5.2	6.2	7.5	8.9	9.8 ~	--	93.9	8.02
NSLP Nonparticipants	116	5.7	0.15	3.4 ~	3.8 ~	4.6	5.5	6.7	7.9 ~	8.7 ~	--	>97 ~	
Middle School Students, Female	401	5.8	0.14	2.5	3.0	3.9	5.2	7.1	9.4	11.3	--	89.9	4.22
NSLP Participants	227	5.5	0.15	2.6 ~	3.1	3.9	5.2	6.7	8.4	9.6 ~	--	94.3 ~	4.84
NSLP Nonparticipants	174	6.3	0.33	2.2 ~	2.7	3.7	5.2	7.6	11.0	14.0 ~	--	85.1	5.62
High School Students	795	6.8	0.11	3.0	3.5	4.7	6.3	8.4	10.8	12.7	--	93.5	2.79
NSLP Participants	358	6.9	0.14	3.5	4.0	5.0	6.4	8.3	10.4	11.9	--	95.0	4.57
NSLP Nonparticipants	437	6.8	0.16	2.7	3.3	4.5	6.1	8.4	11.1	13.2	--	92.5	3.52
High School Students, Male	385	7.8	0.14	4.1	4.7	5.8	7.4	9.3	11.4	12.7	--	92.7	6.77
NSLP Participants	192	7.5	0.14	4.8 ~	5.3	6.1	7.2	8.6	10.0	10.9 ~	--	>97 ~	
NSLP Nonparticipants	193	8.2	0.23	3.9 ~	4.6	5.9	7.7	9.8	12.3	14.1 ~	--	89.1	8.76
High School Students, Female	410	6.0	0.15	2.5	3.0	3.9	5.4	7.3	9.7	11.5	--	95.6	2.73
NSLP Participants	166	6.3	0.25	2.6 ~	3.1	4.1	5.6	7.7	10.4	12.4 ~	--	93.8 ~	4.55
NSLP Nonparticipants	244	5.8	0.19	2.4 ~	2.9	3.8	5.2	7.1	9.4	11.2 ~	--	96.2 ~	3.43
Secondary School Students	1,582	6.5	0.07	3.0	3.5	4.6	6.0	7.8	10.1	11.8	--	92.9	2.25
NSLP Participants	855	6.5	0.08	3.3	3.8	4.8	6.1	7.7	9.6	10.9	--	94.6	3.08
NSLP Nonparticipants	727	6.6	0.12	2.7	3.2	4.3	5.9	8.0	10.7	12.7	--	91.4	3.16
Secondary School Students, Male	771	7.2	0.09	3.9	4.4	5.5	6.8	8.5	10.3	11.6	--	94.1	4.92
NSLP Participants	462	7.0	0.09	4.2	4.7	5.6	6.7	8.1	9.6	10.6	--	96.0	6.35
NSLP Nonparticipants	309	7.4	0.16	3.6 ~	4.2	5.3	6.9	8.9	11.1	12.7 ~	--	92.1	7.74
Secondary School Students, Female	811	5.9	0.10	2.5	3.0	3.9	5.3	7.2	9.6	11.4	--	93.3	2.43
NSLP Participants	393	5.9	0.13	2.6	3.0	4.0	5.4	7.2	9.4	11.0	--	94.0	3.21
NSLP Nonparticipants	418	6.0	0.17	2.3	2.8	3.8	5.2	7.2	9.9	12.2	--	92.4	3.39

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement; AT = Alpha-tocopherol

TABLE J.22

USUAL DAILY VITAMIN B₆ INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin B ₆ Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	1.6	0.02	1.1	1.2	1.4	1.6	1.9	2.2	2.4	0.5	<3 ~	
NSLP Participants	250	1.6	0.02	1.0 ~	1.1	1.3	1.5	1.8	2.1	2.3 ~	0.5	<3 ~	
NSLP Nonparticipants	93	1.8	0.03	1.3 ~	1.4 ~	1.6	1.8	2.0	2.3 ~	2.4 ~	0.5	<3 ~	
9 to 13 Years	953	1.8	0.02	1.0	1.1	1.4	1.7	2.1	2.6	2.9	0.8	<3 ~	
NSLP Participants	633	1.8	0.02	1.0	1.2	1.4	1.7	2.1	2.5	2.8	0.8	<3 ~	
NSLP Nonparticipants	320	1.9	0.04	1.0	1.1	1.4	1.7	2.2	2.8	3.2	0.8	<3 ~	
9 to 13 Years, Male	469	1.9	0.03	1.2	1.3	1.5	1.8	2.2	2.7	3.0	0.8	<3 ~	
NSLP Participants	326	1.9	0.03	1.3	1.4	1.5	1.8	2.1	2.4	2.7	0.8	<3 ~	
NSLP Nonparticipants	143	2.1	0.07	1.2 ~	1.3 ~	1.6	2.0	2.5	3.1 ~	3.6 ~	0.8	<3 ~	
9 to 13 Years, Female	484	1.7	0.03	0.9	1.0	1.3	1.6	2.0	2.4	2.7	0.8	<3 ~	
NSLP Participants	307	1.7	0.03	0.9 ~	1.0	1.3	1.6	2.1	2.5	2.8 ~	0.8	3.4 ~	2.53
NSLP Nonparticipants	177	1.6	0.05	0.8 ~	1.0	1.2	1.5	1.9	2.4	2.7 ~	0.8	4.1 ~	4.72
14 to 18 Years	1,018	1.9	0.02	0.9	1.1	1.3	1.7	2.2	2.8	3.2	--	8.4 ~	3.42
NSLP Participants	503	1.9	0.03	1.0	1.2	1.4	1.8	2.2	2.6	3.0	--	4.2 ~	4.41
NSLP Nonparticipants	515	1.8	0.04	0.8	0.9	1.2	1.7	2.3	2.9	3.4	--	13.2 ~	4.42
14 to 18 Years, Male	506	2.2	0.02	1.5	1.6	1.9	2.2	2.5	2.9	3.2	1.1	<3 ~	
NSLP Participants	282	2.1	0.02	1.7 ~	1.7	1.9	2.1	2.3	2.5	2.6 ~	1.1	<3 ~	
NSLP Nonparticipants	224	2.4	0.06	1.2 ~	1.4	1.7	2.3	2.9	3.6	4.1 ~	1.1	3.5 ~	4.91
14 to 18 Years, Female	512	1.5	0.03	0.7	0.8	1.1	1.4	1.8	2.3	2.6	1.0	19.5	4.63
NSLP Participants	221	1.6	0.05	0.7 ~	0.8	1.1	1.5	1.9	2.5	2.8 ~	1.0	18.8 ~	6.01
NSLP Nonparticipants	291	1.4	0.03	0.7 ~	0.8	1.1	1.4	1.7	2.1	2.4 ~	1.0	20.8 ~	6.63
All Students	2,314	1.8	0.01	1.0	1.1	1.4	1.7	2.1	2.6	2.9	--	3.4 ~	1.06
NSLP Participants	1,386	1.7	0.01	1.0	1.1	1.4	1.7	2.0	2.4	2.7	--	<3 ~	
NSLP Nonparticipants	928	1.8	0.03	0.9	1.0	1.3	1.7	2.2	2.8	3.3	--	6.3 ~	2.27
All Students, Male	1,143	2.0	0.02	1.3	1.4	1.6	1.9	2.3	2.7	2.9	--	<3 ~	
NSLP Participants	733	1.9	0.01	1.3	1.4	1.6	1.8	2.1	2.3	2.5	--	<3 ~	
NSLP Nonparticipants	410	2.2	0.04	1.2	1.4	1.7	2.1	2.6	3.2	3.7	--	<3 ~	
All Students, Female	1,171	1.6	0.02	0.8	0.9	1.2	1.5	1.9	2.3	2.7	--	7.9	1.84
NSLP Participants	653	1.6	0.02	0.8	1.0	1.2	1.5	1.9	2.4	2.7	--	5.5 ~	1.97
NSLP Nonparticipants	518	1.6	0.03	0.8	0.9	1.1	1.5	1.9	2.3	2.7	--	11.5	3.44
By School Type													
Elementary School Students	732	1.8	0.02	1.1	1.2	1.4	1.7	2.0	2.4	2.6	--	<3 ~	
NSLP Participants	531	1.7	0.02	1.1	1.2	1.4	1.6	1.9	2.3	2.5	--	<3 ~	
NSLP Nonparticipants	201	2.0	0.03	1.4 ~	1.5	1.7	1.9	2.2	2.5	2.7 ~	--	<3 ~	

TABLE J.22

USUAL DAILY VITAMIN B₆ INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin B ₆ Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	1.8	0.02	1.3	1.4	1.5	1.8	2.0	2.3	2.5	--	<3 ~	
NSLP Participants	271	1.7	0.02	1.1 ~	1.2	1.4	1.6	1.9	2.2	2.4 ~	--	<3 ~	
NSLP Nonparticipants	101	2.1	0.05	1.4 ~	1.5 ~	1.8	2.0	2.4	2.8 ~	3.0 ~	--	<3 ~	
Elementary School Students, Female	360	1.7	0.03	1.0	1.2	1.4	1.6	2.0	2.3	2.6	--	<3 ~	
NSLP Participants	260	1.7	0.03	1.0 ~	1.1	1.4	1.6	1.9	2.3	2.5 ~	--	<3 ~	
NSLP Nonparticipants	100	1.8	0.07	1.0 ~	1.1 ~	1.3	1.6	2.1	2.6 ~	3.1 ~	--	<3 ~	
Middle School Students	787	1.7	0.03	0.8	1.0	1.2	1.6	2.0	2.5	3.0	--	6.4 ~	2.51
NSLP Participants	497	1.8	0.04	0.8	1.0	1.3	1.6	2.1	2.7	3.2	--	6.1 ~	2.76
NSLP Nonparticipants	290	1.6	0.03	0.8 ~	0.9	1.2	1.5	1.9	2.3	2.5 ~	--	7.4 ~	5.10
Middle School Students, Male	386	2.0	0.04	1.1	1.2	1.5	1.8	2.3	2.9	3.4	--	<3 ~	
NSLP Participants	270	2.1	0.05	1.1 ~	1.3	1.5	1.9	2.4	3.1	3.6 ~	--	<3 ~	
NSLP Nonparticipants	116	1.8	0.06	0.9 ~	1.1 ~	1.3	1.7	2.1	2.7 ~	3.0 ~	--	3.4 ~	5.14
Middle School Students, Female	401	1.4	0.03	0.7	0.8	1.1	1.4	1.7	2.1	2.4	--	12.3 ~	4.15
NSLP Participants	227	1.5	0.04	0.6 ~	0.8	1.0	1.4	1.8	2.3	2.6 ~	--	15.5	4.25
NSLP Nonparticipants	174	1.4	0.03	0.8 ~	0.9	1.1	1.4	1.7	2.0	2.2 ~	--	9.5 ~	8.72
High School Students	795	1.9	0.02	1.0	1.1	1.4	1.8	2.3	2.8	3.2	--	6.5 ~	3.89
NSLP Participants	358	1.9	0.02	1.3	1.4	1.6	1.9	2.2	2.5	2.7	--	<3 ~	
NSLP Nonparticipants	437	1.9	0.04	0.8	0.9	1.3	1.8	2.4	3.1	3.6	--	13.3 ~	4.32
High School Students, Male	385	2.3	0.01	2.0	2.0	2.1	2.3	2.4	2.6	2.6	--	<3 ~	
NSLP Participants	192	2.1	0.01	1.9 ~	1.9	2.0	2.1	2.2	2.3	2.3 ~	--	<3 ~	
NSLP Nonparticipants	193	2.5	0.06	1.3 ~	1.5	1.9	2.4	3.0	3.6	4.1 ~	--	<3 ~	
High School Students, Female	410	1.6	0.03	0.7	0.8	1.1	1.4	1.9	2.4	2.8	--	19.6	4.50
NSLP Participants	166	1.7	0.06	0.8 ~	0.9	1.2	1.5	2.0	2.6	3.0 ~	--	15.3 ~	7.34
NSLP Nonparticipants	244	1.5	0.04	0.7 ~	0.8	1.0	1.4	1.8	2.3	2.6 ~	--	22.5	5.62
Secondary School Students	1,582	1.8	0.02	0.9	1.0	1.3	1.7	2.2	2.7	3.2	--	7.3	2.19
NSLP Participants	855	1.8	0.02	1.0	1.1	1.4	1.7	2.2	2.7	3.1	--	4.1 ~	2.51
NSLP Nonparticipants	727	1.8	0.03	0.8	0.9	1.2	1.7	2.2	2.8	3.3	--	10.8 ~	3.41
Secondary School Students, Male	771	2.2	0.02	1.3	1.5	1.7	2.1	2.5	3.0	3.4	--	<3 ~	
NSLP Participants	462	2.1	0.02	1.5	1.6	1.8	2.0	2.3	2.7	2.9	--	<3 ~	
NSLP Nonparticipants	309	2.3	0.05	1.1 ~	1.2	1.6	2.1	2.8	3.5	4.0 ~	--	3.2 ~	3.63
Secondary School Students, Female	811	1.5	0.02	0.7	0.8	1.1	1.4	1.8	2.3	2.6	--	17.0	3.07
NSLP Participants	393	1.6	0.03	0.7	0.8	1.1	1.4	1.9	2.5	2.8	--	16.1	3.70
NSLP Nonparticipants	418	1.5	0.03	0.7	0.8	1.1	1.4	1.8	2.2	2.4	--	17.8	4.86

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

TABLE J.23

USUAL DAILY VITAMIN B₁₂ INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin B ₁₂ Intakes (mcg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	5.0	0.10	2.5	2.9	3.7	4.7	6.1	7.6	8.6	1.0	<3 ~	
NSLP Participants	250	4.9	0.11	2.5 ~	2.9	3.6	4.6	5.8	7.2	8.2 ~	1.0	<3 ~	
NSLP Nonparticipants	93	5.5	0.24	2.5 ~	3.0 ~	3.9	5.1	6.7	8.6 ~	9.9 ~	1.0	<3 ~	
9 to 13 Years	953	5.4	0.06	2.7	3.2	4.0	5.1	6.4	7.9	9.0	1.5	<3 ~	
NSLP Participants	633	5.4	0.07	3.1	3.5	4.3	5.2	6.4	7.6	8.4	1.5	<3 ~	
NSLP Nonparticipants	320	5.3	0.15	2.1	2.5	3.5	4.8	6.5	8.5	10.1	1.5	<3 ~	
9 to 13 Years, Male	469	5.8	0.07	3.7	4.1	4.8	5.7	6.7	7.8	8.5	1.5	<3 ~	
NSLP Participants	326	5.7	0.04	4.6	4.8	5.2	5.6	6.1	6.5	6.8	1.5	<3 ~	
NSLP Nonparticipants	143	6.3	0.25	2.6 ~	3.2 ~	4.3	5.7	7.7	10.1 ~	11.9 ~	1.5	<3 ~	
9 to 13 Years, Female	484	4.9	0.09	2.2	2.6	3.4	4.5	6.0	7.6	8.8	1.5	<3 ~	
NSLP Participants	307	5.2	0.13	2.4 ~	2.8	3.7	4.8	6.3	8.0	9.4 ~	1.5	<3 ~	
NSLP Nonparticipants	177	4.3	0.16	1.8 ~	2.1	2.9	3.9	5.3	6.9	8.2 ~	1.5	<3 ~	
14 to 18 Years	1,018	5.3	0.08	1.8	2.3	3.3	4.8	6.7	8.9	10.3	2.0	6.7 ~	2.36
NSLP Participants	503	5.6	0.10	2.4	2.9	3.9	5.2	6.8	8.6	9.9	2.0	<3 ~	
NSLP Nonparticipants	515	5.0	0.13	1.4	1.9	2.9	4.5	6.5	8.9	10.6	2.0	11.7 ~	3.50
14 to 18 Years, Male	506	6.4	0.11	3.0	3.6	4.7	6.1	7.8	9.7	10.9	2.0	<3 ~	
NSLP Participants	282	6.1	0.09	3.9 ~	4.3	5.0	6.0	7.0	8.1	8.9 ~	2.0	<3 ~	
NSLP Nonparticipants	224	6.8	0.24	2.1 ~	2.8	4.2	6.2	8.8	11.6	13.5 ~	2.0	4.3 ~	3.60
14 to 18 Years, Female	512	4.2	0.10	1.4	1.8	2.6	3.8	5.3	7.1	8.3	2.0	12.8 ~	4.23
NSLP Participants	221	4.9	0.18	1.6 ~	2.1	3.0	4.3	6.1	8.3	9.8 ~	2.0	9.3 ~	5.12
NSLP Nonparticipants	291	3.7	0.10	1.4 ~	1.7	2.4	3.5	4.7	6.1	7.1 ~	2.0	15.2 ~	6.87
All Students	2,314	5.3	0.05	2.3	2.8	3.7	4.9	6.4	8.2	9.4	--	<3 ~	
NSLP Participants	1,386	5.3	0.05	2.8	3.2	4.0	5.1	6.3	7.7	8.7	--	<3 ~	
NSLP Nonparticipants	928	5.2	0.09	1.7	2.2	3.2	4.7	6.6	8.8	10.4	--	5.9 ~	1.98
All Students, Male	1,143	5.9	0.06	3.2	3.7	4.5	5.7	7.0	8.5	9.5	--	<3 ~	
NSLP Participants	733	5.7	0.04	4.1	4.4	5.0	5.6	6.3	7.0	7.5	--	<3 ~	
NSLP Nonparticipants	410	6.4	0.17	2.2	2.8	4.0	5.7	8.1	10.8	12.7	--	<3 ~	
All Students, Female	1,171	4.6	0.06	1.9	2.3	3.1	4.3	5.7	7.3	8.5	--	4.4 ~	1.48
NSLP Participants	653	4.9	0.08	2.1	2.6	3.4	4.5	6.0	7.7	8.9	--	<3 ~	
NSLP Nonparticipants	518	4.2	0.09	1.6	1.9	2.7	3.9	5.3	6.9	8.0	--	8.7 ~	3.40
By School Type													
Elementary School Students	732	5.3	0.08	2.5	2.9	3.8	4.9	6.3	8.0	9.2	--	<3 ~	
NSLP Participants	531	5.2	0.08	2.7	3.1	3.9	4.9	6.1	7.5	8.5	--	<3 ~	
NSLP Nonparticipants	201	5.5	0.20	2.2 ~	2.7	3.6	5.0	6.9	9.2	10.8 ~	--	<3 ~	

TABLE J.23

USUAL DAILY VITAMIN B₁₂ INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin B ₁₂ Intakes (mcg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	5.6	0.11	2.7	3.2	4.0	5.2	6.7	8.4	9.7	--	<3 ~	
NSLP Participants	271	5.4	0.10	3.1 ~	3.5	4.3	5.2	6.3	7.4	8.2 ~	--	<3 ~	
NSLP Nonparticipants	101	6.2	0.39	1.9 ~	2.3 ~	3.4	5.2	7.8	11.1 ~	13.7 ~	--	<3 ~	
Elementary School Students, Female	360	4.9	0.10	2.4	2.8	3.6	4.6	5.9	7.4	8.6	--	<3 ~	
NSLP Participants	260	4.8	0.10	2.6 ~	3.0	3.7	4.5	5.6	6.8	7.7 ~	--	<3 ~	
NSLP Nonparticipants	100	5.0	0.21	2.3 ~	2.7 ~	3.5	4.6	6.1	7.8 ~	9.0 ~	--	<3 ~	
Middle School Students	787	5.2	0.07	2.3	2.8	3.7	4.9	6.3	7.9	9.0	--	<3 ~	
NSLP Participants	497	5.6	0.09	2.7	3.2	4.1	5.3	6.8	8.4	9.5	--	<3 ~	
NSLP Nonparticipants	290	4.5	0.11	1.9 ~	2.3	3.2	4.3	5.6	7.1	8.1 ~	--	3.9 ~	3.77
Middle School Students, Male	386	6.0	0.10	3.3	3.8	4.6	5.7	7.1	8.5	9.4	--	<3 ~	
NSLP Participants	270	6.4	0.07	4.6 ~	5.0	5.6	6.3	7.1	7.9	8.5 ~	--	<3 ~	
NSLP Nonparticipants	116	5.2	0.23	2.1 ~	2.6 ~	3.5	4.8	6.5	8.4 ~	9.9 ~	--	<3 ~	
Middle School Students, Female	401	4.4	0.09	1.9	2.3	3.1	4.2	5.5	6.9	7.8	--	3.8 ~	3.15
NSLP Participants	227	4.8	0.15	1.8 ~	2.3	3.2	4.4	6.0	7.7	8.9 ~	--	4.2 ~	3.48
NSLP Nonparticipants	174	4.0	0.10	2.1 ~	2.4	3.0	3.8	4.8	5.8	6.5 ~	--	<3 ~	
High School Students	795	5.3	0.09	1.9	2.4	3.4	4.9	6.8	8.9	10.3	--	6.1 ~	2.78
NSLP Participants	358	5.5	0.10	2.9	3.3	4.2	5.3	6.6	8.0	8.9	--	<3 ~	
NSLP Nonparticipants	437	5.2	0.15	1.4	1.9	2.9	4.6	6.8	9.3	11.1	--	11.4 ~	3.73
High School Students, Male	385	6.5	0.11	3.4	4.0	5.0	6.3	7.8	9.4	10.4	--	<3 ~	
NSLP Participants	192	5.9	0.05	4.9 ~	5.1	5.5	5.9	6.3	6.7	7.0 ~	--	<3 ~	
NSLP Nonparticipants	193	7.1	0.24	2.5 ~	3.2	4.7	6.6	9.1	11.7	13.5 ~	--	<3 ~	
High School Students, Female	410	4.2	0.11	1.4	1.8	2.6	3.9	5.4	7.2	8.4	--	13.2 ~	4.79
NSLP Participants	166	5.0	0.19	2.0 ~	2.4	3.3	4.6	6.3	8.2	9.6 ~	--	5.6 ~	6.27
NSLP Nonparticipants	244	3.7	0.12	1.3 ~	1.6	2.4	3.4	4.8	6.3	7.3 ~	--	16.8 ~	7.09
Secondary School Students	1,582	5.3	0.06	2.1	2.6	3.5	4.9	6.6	8.5	9.7	--	3.7 ~	1.56
NSLP Participants	855	5.5	0.07	2.8	3.2	4.1	5.3	6.7	8.2	9.2	--	<3 ~	
NSLP Nonparticipants	727	5.0	0.10	1.6	2.0	3.0	4.5	6.4	8.5	10.1	--	8.5 ~	2.87
Secondary School Students, Male	771	6.3	0.08	3.3	3.8	4.8	6.0	7.5	9.1	10.1	--	<3 ~	
NSLP Participants	462	6.1	0.04	4.7	5.0	5.5	6.1	6.7	7.3	7.7	--	<3 ~	
NSLP Nonparticipants	309	6.5	0.18	2.3 ~	2.9	4.2	6.0	8.3	10.9	12.6 ~	--	<3 ~	
Secondary School Students, Female	811	4.3	0.07	1.6	2.0	2.8	4.0	5.5	7.1	8.2	--	9.3 ~	2.99
NSLP Participants	393	4.9	0.12	1.8	2.3	3.2	4.5	6.1	8.0	9.3	--	5.5 ~	3.24
NSLP Nonparticipants	418	3.8	0.09	1.4	1.8	2.5	3.6	4.8	6.2	7.2	--	12.5 ~	5.03

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

TABLE J.24

USUAL DAILY FOLATE INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Folate Intakes (mcg DFE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	552	11.6	288	330	408	512	649	820	953	160	<3 ~	
NSLP Participants	250	509	9.6	301 ~	337	404	489	591	705	785 ~	160	<3 ~	
NSLP Nonparticipants	93	656	35.3	258 ~	309 ~	417	582	812	1094 ~	1304 ~	160	<3 ~	
9 to 13 Years	953	619	8.2	325	366	448	566	728	928	1086	250	<3 ~	
NSLP Participants	633	589	9.0	320	359	436	546	691	866	1002	250	<3 ~	
NSLP Nonparticipants	320	665	14.5	346	393	485	616	789	996	1150	250	<3 ~	
9 to 13 Years, Male	469	674	11.0	383	426	511	629	785	973	1116	250	<3 ~	
NSLP Participants	326	616	12.1	352	390	465	575	718	887	1016	250	<3 ~	
NSLP Nonparticipants	143	766	3.1	707 ~	719 ~	740	765	790	813 ~	828 ~	250	<3 ~	
9 to 13 Years, Female	484	564	11.1	279	320	401	513	666	862	1017	250	<3 ~	
NSLP Participants	307	561	13.0	287 ~	328	407	517	663	844	985 ~	250	<3 ~	
NSLP Nonparticipants	177	562	20.2	260 ~	302	384	502	669	886	1062 ~	250	4.1 ~	5.00
14 to 18 Years	1,018	593	8.7	261	306	400	538	720	943	1114	330	13.3	3.63
NSLP Participants	503	608	12.4	284	329	419	550	728	952	1128	330	10.1 ~	4.66
NSLP Nonparticipants	515	582	13.3	242	286	377	514	710	957	1150	330	16.6 ~	5.14
14 to 18 Years, Male	506	699	12.3	361	411	509	647	829	1050	1216	330	<3 ~	
NSLP Participants	282	684	13.6	390 ~	435	523	645	800	979	1109 ~	330	<3 ~	
NSLP Nonparticipants	224	717	22.4	323 ~	378	488	647	865	1138	1348 ~	330	5.5 ~	6.35
14 to 18 Years, Female	512	495	10.6	218	257	332	442	596	794	948	330	24.4	4.81
NSLP Participants	221	511	18.2	216 ~	256	335	449	612	830	1010 ~	330	23.9	5.82
NSLP Nonparticipants	291	480	13.9	208 ~	246	320	427	580	775	928 ~	330	27.4	6.29
All Students	2,314	591	5.3	292	335	419	539	703	907	1067	--	4.5	1.22
NSLP Participants	1,386	572	5.9	304	344	422	530	672	848	983	--	<3 ~	
NSLP Nonparticipants	928	619	9.6	270	317	416	562	753	985	1166	--	8.2 ~	2.65
All Students, Male	1,143	646	7.0	356	399	484	602	757	944	1085	--	<3 ~	
NSLP Participants	733	609	7.7	351	390	465	570	709	872	994	--	<3 ~	
NSLP Nonparticipants	410	719	13.7	374	425	526	667	852	1073	1238	--	<3 ~	
All Students, Female	1,171	539	7.3	248	291	373	488	643	843	1003	--	9.5	2.00
NSLP Participants	653	532	8.9	263	304	382	488	629	806	948	--	6.6 ~	2.19
NSLP Nonparticipants	518	546	12.8	223	267	355	481	659	895	1087	--	14.6	3.65
By School Type													
Elementary School Students	732	596	7.4	343	383	459	562	693	848	965	--	<3 ~	
NSLP Participants	531	555	7.4	327	365	436	530	645	776	872	--	<3 ~	
NSLP Nonparticipants	201	714	20.0	373 ~	422	520	658	844	1072	1245 ~	--	<3 ~	

TABLE J.24

USUAL DAILY FOLATE INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Folate Intakes (mcg DFE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	612	9.2	369	409	485	587	711	846	939	--	<3 ~	
NSLP Participants	271	564	9.6	344 ~	381	452	544	655	773	852 ~	--	<3 ~	
NSLP Nonparticipants	101	744	21.6	454 ~	501 ~	591	711	860	1026 ~	1144 ~	--	<3 ~	
Elementary School Students, Female	360	574	11.0	322	361	433	534	668	835	963	--	<3 ~	
NSLP Participants	260	546	11.1	319 ~	356	425	515	631	771	877 ~	--	<3 ~	
NSLP Nonparticipants	100	650	27.8	329 ~	374 ~	462	590	769	994 ~	1171 ~	--	<3 ~	
Middle School Students	787	555	9.6	254	296	378	496	661	876	1050	--	7.2 ~	2.89
NSLP Participants	497	578	13.6	259	304	389	509	681	921	1127	--	6.2 ~	2.90
NSLP Nonparticipants	290	515	12.2	261 ~	298	371	476	614	780	905 ~	--	8.0 ~	6.67
Middle School Students, Male	386	624	13.5	325	366	447	566	732	947	1119	--	<3 ~	
NSLP Participants	270	659	19.9	326 ~	370	455	580	767	1030	1256 ~	--	<3 ~	
NSLP Nonparticipants	116	544	19.6	288 ~	323 ~	396	502	645	815 ~	942 ~	--	3.8 ~	11.90
Middle School Students, Female	401	490	11.9	206	246	326	442	597	789	936	--	15.0	3.78
NSLP Participants	227	495	16.3	199 ~	241	327	446	606	804	957 ~	--	14.5	4.25
NSLP Nonparticipants	174	485	18.1	207 ~	245	322	434	589	783	934 ~	--	16.4 ~	6.69
High School Students	795	614	10.4	273	319	411	550	744	985	1170	--	11.5 ~	3.94
NSLP Participants	358	622	11.9	340	382	464	581	733	912	1044	--	4.3 ~	6.15
NSLP Nonparticipants	437	610	16.7	229	277	376	527	747	1037	1268	--	17.2	4.48
High School Students, Male	385	723	13.4	392	443	540	676	851	1059	1213	--	<3 ~	
NSLP Participants	192	684	7.3	533 ~	561	613	676	747	818	864 ~	--	<3 ~	
NSLP Nonparticipants	193	760	26.6	332 ~	392	511	681	917	1218	1455 ~	--	4.7 ~	5.61
High School Students, Female	410	513	13.2	217	257	335	451	620	841	1017	--	23.7	4.90
NSLP Participants	166	535	19.6	243 ~	281	360	480	647	855	1013 ~	--	18.5 ~	8.38
NSLP Nonparticipants	244	498	17.9	194 ~	235	314	431	605	838	1026 ~	--	28.3	5.56
Secondary School Students	1,582	588	7.0	267	311	399	528	708	936	1113	--	10.4	2.42
NSLP Participants	855	600	9.6	285	328	414	539	712	937	1120	--	6.7 ~	2.85
NSLP Nonparticipants	727	578	10.7	247	291	380	514	702	939	1123	--	14.0	3.83
Secondary School Students, Male	771	682	9.9	356	403	495	627	805	1024	1194	--	<3 ~	
NSLP Participants	462	671	11.8	370	413	499	620	784	987	1144	--	<3 ~	
NSLP Nonparticipants	309	698	17.0	342 ~	393	494	639	834	1073	1256 ~	--	<3 ~	
Secondary School Students, Female	811	505	8.9	212	254	336	452	611	815	979	--	20.9	2.95
NSLP Participants	393	513	13.4	215	256	338	455	619	832	1006	--	18.2	3.65
NSLP Nonparticipants	418	492	12.5	204	244	321	435	599	809	975	--	24.5	4.20

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement; DFE = Dietary Folate Equivalents.

TABLE J.25

USUAL DAILY NIACIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

		Niacin Intakes (mg) ¹									EAR ²			
		N	Mean	SE	Percentiles						EAR	% Below	SE	
					5	10	25	50	75	90				95
By Age/Gender Group														
6 to 8 Years ³		343	20.1	0.30	12.4	13.8	16.3	19.4	23.1	27.2	30.2	6	<3 ~	
NSLP Participants		250	19.1	0.28	12.6 ~	13.9	16.1	18.7	21.7	24.8	26.9 ~	6	<3 ~	
NSLP Nonparticipants		93	22.6	0.85	12.1 ~	13.7 ~	16.8	21.2	26.9	33.4 ~	38.1 ~	6	<3 ~	
9 to 13 Years		953	21.7	0.20	13.4	14.8	17.5	20.9	25.0	29.5	32.6	9	<3 ~	
NSLP Participants		633	21.5	0.24	13.2	14.7	17.3	20.7	24.7	29.1	32.3	9	<3 ~	
NSLP Nonparticipants		320	22.2	0.34	13.7	15.2	18.0	21.5	25.6	30.2	33.4	9	<3 ~	
9 to 13 Years, Male		469	22.7	0.24	15.4	16.7	19.0	22.1	25.6	29.5	32.3	9	<3 ~	
NSLP Participants		326	22.2	0.30	14.7	16.0	18.4	21.4	25.1	29.1	32.1	9	<3 ~	
NSLP Nonparticipants		143	24.1	0.36	17.9 ~	19.1 ~	21.1	23.7	26.7	29.7 ~	31.7 ~	9	<3 ~	
9 to 13 Years, Female		484	20.7	0.28	12.0	13.5	16.4	20.0	24.2	28.8	31.9	9	<3 ~	
NSLP Participants		307	20.8	0.34	12.3 ~	13.8	16.5	20.1	24.4	28.6	31.4 ~	9	<3 ~	
NSLP Nonparticipants		177	20.5	0.50	11.3 ~	13.0	15.9	19.6	24.1	29.1	32.7 ~	9	<3 ~	
14 to 18 Years		1,018	23.2	0.26	11.8	13.7	17.4	22.1	27.8	34.0	38.4	--	3.5 ~	2.14
NSLP Participants		503	23.8	0.32	13.8	15.6	18.8	22.9	27.8	33.1	36.8	--	<3 ~	
NSLP Nonparticipants		515	22.7	0.41	10.1	12.2	16.0	21.3	27.8	34.9	40.0	--	6.8 ~	3.57
14 to 18 Years, Male		506	27.9	0.30	18.1	19.8	23.0	27.1	31.8	36.8	40.1	12	<3 ~	
NSLP Participants		282	27.0	0.33	18.9 ~	20.4	23.0	26.4	30.2	34.3	37.0 ~	12	<3 ~	
NSLP Nonparticipants		224	28.9	0.58	16.4 ~	18.6	22.6	27.9	34.1	40.4	44.7 ~	12	<3 ~	
14 to 18 Years, Female		512	18.8	0.28	9.6	11.2	14.3	18.2	22.7	27.2	30.2	11	9.2 ~	4.17
NSLP Participants		221	19.9	0.42	10.9 ~	12.4	15.3	19.2	23.6	28.2	31.3 ~	11	5.3 ~	5.51
NSLP Nonparticipants		291	18.1	0.37	9.0 ~	10.6	13.6	17.5	22.0	26.5	29.4 ~	11	11.6 ~	5.71
All Students		2,314	21.8	0.14	12.5	14.1	17.1	20.9	25.5	30.7	34.4	--	<3 ~	
NSLP Participants		1,386	21.4	0.16	13.0	14.5	17.2	20.7	24.8	29.3	32.5	--	<3 ~	
NSLP Nonparticipants		928	22.5	0.27	11.6	13.5	16.9	21.3	26.8	33.0	37.4	--	<3 ~	
All Students, Male		1,143	23.9	0.18	15.4	16.9	19.6	23.1	27.3	31.9	35.1	--	<3 ~	
NSLP Participants		733	22.7	0.20	15.1	16.5	18.9	22.0	25.7	29.7	32.5	--	<3 ~	
NSLP Nonparticipants		410	26.2	0.38	15.6	17.4	20.8	25.2	30.6	36.3	40.2	--	<3 ~	
All Students, Female		1,171	19.8	0.18	11.0	12.6	15.5	19.1	23.4	27.9	31.2	--	3.3 ~	1.30
NSLP Participants		653	20.1	0.23	11.7	13.2	16.0	19.4	23.4	27.6	30.4	--	<3 ~	
NSLP Nonparticipants		518	19.5	0.30	10.1	11.8	14.8	18.6	23.2	28.4	32.1	--	6.3 ~	2.67
By School Type														
Elementary School Students		732	21.2	0.20	13.6	15.0	17.4	20.5	24.2	28.2	31.0	--	<3 ~	
NSLP Participants		531	20.4	0.22	13.0	14.4	16.8	19.9	23.4	27.1	29.6	--	<3 ~	
NSLP Nonparticipants		201	23.4	0.39	15.6 ~	17.0	19.5	22.7	26.5	30.6	33.5 ~	--	<3 ~	

TABLE J.25

USUAL DAILY NIACIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Niacin Intakes (mg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	21.6	0.23	14.9	16.1	18.4	21.2	24.4	27.6	29.7	--	<3 ~	
NSLP Participants	271	20.5	0.30	13.4 ~	14.7	17.0	19.9	23.3	27.0	29.5 ~	--	<3 ~	
NSLP Nonparticipants	101	24.6	0.43	18.1 ~	19.3 ~	21.6	24.3	27.3	30.4 ~	32.3 ~	--	<3 ~	
Elementary School Students, Female	360	20.8	0.30	12.9	14.4	16.9	20.1	23.8	27.9	30.9	--	<3 ~	
NSLP Participants	260	20.3	0.31	13.0 ~	14.3	16.8	19.9	23.4	26.8	29.0 ~	--	<3 ~	
NSLP Nonparticipants	100	22.1	0.79	12.4 ~	14.1 ~	17.0	20.7	25.5	31.7 ~	36.8 ~	--	<3 ~	
Middle School Students	787	20.5	0.25	11.3	12.9	15.8	19.5	24.1	29.4	33.2	--	<3 ~	
NSLP Participants	497	21.4	0.33	11.8	13.4	16.4	20.3	25.2	30.8	34.9	--	<3 ~	
NSLP Nonparticipants	290	19.2	0.36	10.9 ~	12.4	15.0	18.4	22.4	27.0	30.3 ~	--	<3 ~	
Middle School Students, Male	386	23.1	0.35	14.1	15.5	18.3	22.0	26.6	31.9	35.9	--	<3 ~	
NSLP Participants	270	24.2	0.45	14.7 ~	16.3	19.2	23.1	27.9	33.6	37.8 ~	--	<3 ~	
NSLP Nonparticipants	116	21.0	0.53	13.3 ~	14.6 ~	17.1	20.2	24.1	28.4 ~	31.4 ~	--	<3 ~	
Middle School Students, Female	401	18.3	0.30	9.7	11.2	14.0	17.6	21.7	26.2	29.3	--	5.6 ~	3.36
NSLP Participants	227	18.5	0.43	9.5 ~	11.0	13.9	17.7	22.2	27.1	30.5 ~	--	5.9 ~	4.05
NSLP Nonparticipants	174	18.0	0.41	10.1 ~	11.6	14.2	17.4	21.2	25.1	27.8 ~	--	6.1 ~	5.91
High School Students	795	23.9	0.30	12.1	14.1	17.9	22.8	28.7	35.2	39.6	--	3.1 ~	2.16
NSLP Participants	358	24.4	0.33	15.5	17.0	20.0	23.7	28.1	32.6	35.6	--	<3 ~	
NSLP Nonparticipants	437	23.6	0.48	10.1	12.3	16.4	22.1	29.1	36.8	42.2	--	6.7 ~	3.54
High School Students, Male	385	28.6	0.32	19.5	21.2	24.2	28.1	32.4	36.8	39.7	--	<3 ~	
NSLP Participants	192	27.2	0.18	23.2 ~	24.0	25.4	27.1	28.8	30.5	31.5 ~	--	<3 ~	
NSLP Nonparticipants	193	30.1	0.69	16.3 ~	18.7	23.2	29.1	35.9	42.9	47.5 ~	--	<3 ~	
High School Students, Female	410	19.5	0.34	9.6	11.3	14.6	18.8	23.7	28.7	32.0	--	9.0 ~	4.10
NSLP Participants	166	21.0	0.51	11.9 ~	13.4	16.3	20.1	24.7	29.6	32.9 ~	--	3.2 ~	4.85
NSLP Nonparticipants	244	18.6	0.43	8.8 ~	10.5	13.8	18.0	22.8	27.7	30.9 ~	--	11.8 ~	5.57
Secondary School Students	1,582	22.6	0.20	11.8	13.6	17.0	21.4	26.9	32.9	37.2	--	<3 ~	
NSLP Participants	855	23.0	0.24	13.2	14.9	18.0	22.0	26.9	32.3	36.0	--	<3 ~	
NSLP Nonparticipants	727	22.1	0.33	10.4	12.3	16.0	20.8	26.8	33.6	38.4	--	5.3 ~	2.62
Secondary School Students, Male	771	26.4	0.27	16.1	17.8	21.1	25.4	30.5	36.2	40.1	--	<3 ~	
NSLP Participants	462	25.8	0.29	17.1	18.6	21.4	25.0	29.3	33.9	37.2	--	<3 ~	
NSLP Nonparticipants	309	27.2	0.52	14.7 ~	16.8	20.7	25.9	32.3	39.2	43.9 ~	--	<3 ~	
Secondary School Students, Female	811	19.0	0.23	9.6	11.3	14.3	18.3	22.9	27.7	30.8	--	7.3 ~	2.69
NSLP Participants	393	19.7	0.34	10.3	11.9	14.9	18.9	23.6	28.7	32.0	--	4.9 ~	3.11
NSLP Nonparticipants	418	18.4	0.31	9.2	10.8	13.9	17.8	22.3	26.8	29.8	--	10.2 ~	4.10

¹ Niacin intakes include preformed niacin only. EARs for niacin are expressed as niacin equivalents, including contributions from tryptophan. Therefore, prevalence of inadequacy may be overestimated.

² Standard error not displayed when percentage is less than 3 or greater than 97.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

EAR = Estimated Average Requirement.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by

Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

TABLE J.26

USUAL DAILY RIBOFLAVIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

				Riboflavin Intakes (mg)						EAR ¹			
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	2.3	0.04	1.3	1.5	1.8	2.2	2.7	3.2	3.6	0.5	<3 ~	
NSLP Participants	250	2.2	0.04	1.3 ~	1.5	1.8	2.2	2.6	3.1	3.5 ~	0.5	<3 ~	
NSLP Nonparticipants	93	2.5	0.08	1.4 ~	1.6 ~	1.9	2.4	2.9	3.4 ~	3.8 ~	0.5	<3 ~	
9 to 13 Years	953	2.4	0.02	1.3	1.5	1.8	2.3	2.8	3.3	3.7	0.8	<3 ~	
NSLP Participants	633	2.4	0.03	1.4	1.6	1.9	2.3	2.8	3.3	3.6	0.8	<3 ~	
NSLP Nonparticipants	320	2.2	0.04	1.2	1.3	1.7	2.1	2.7	3.3	3.7	0.8	<3 ~	
9 to 13 Years, Male	469	2.5	0.03	1.6	1.8	2.1	2.5	2.9	3.4	3.7	0.8	<3 ~	
NSLP Participants	326	2.6	0.03	1.8	1.9	2.2	2.5	2.9	3.2	3.5	0.8	<3 ~	
NSLP Nonparticipants	143	2.5	0.06	1.4 ~	1.6 ~	2.0	2.4	3.0	3.5 ~	3.9 ~	0.8	<3 ~	
9 to 13 Years, Female	484	2.2	0.04	1.1	1.3	1.6	2.1	2.6	3.2	3.6	0.8	<3 ~	
NSLP Participants	307	2.3	0.04	1.2 ~	1.4	1.7	2.2	2.7	3.3	3.7 ~	0.8	<3 ~	
NSLP Nonparticipants	177	2.0	0.06	1.0 ~	1.2	1.5	1.9	2.3	2.9	3.4 ~	0.8	<3 ~	
14 to 18 Years	1,018	2.3	0.03	1.0	1.2	1.6	2.1	2.8	3.6	4.1	--	4.4 ~	1.66
NSLP Participants	503	2.4	0.04	1.2	1.4	1.7	2.3	2.9	3.6	4.1	--	<3 ~	
NSLP Nonparticipants	515	2.1	0.05	0.8	1.0	1.4	2.0	2.7	3.5	4.1	--	7.5 ~	3.03
14 to 18 Years, Male	506	2.7	0.05	1.4	1.6	2.0	2.6	3.3	4.1	4.7	1.1	<3 ~	
NSLP Participants	282	2.7	0.05	1.6 ~	1.8	2.2	2.6	3.2	3.7	4.1 ~	1.1	<3 ~	
NSLP Nonparticipants	224	2.8	0.09	1.0 ~	1.3	1.8	2.5	3.4	4.5	5.3 ~	1.1	6.0 ~	3.52
14 to 18 Years, Female	512	1.8	0.03	0.8	1.0	1.3	1.7	2.2	2.8	3.2	0.9	6.5 ~	2.91
NSLP Participants	221	2.0	0.06	0.9 ~	1.0	1.4	1.9	2.5	3.2	3.7 ~	0.9	5.5 ~	2.91
NSLP Nonparticipants	291	1.7	0.04	0.8 ~	1.0	1.2	1.6	2.1	2.5	2.8 ~	0.9	7.7 ~	5.06
All Students	2,314	2.3	0.02	1.2	1.4	1.7	2.2	2.8	3.4	3.8	--	<3	
NSLP Participants	1,386	2.4	0.02	1.3	1.5	1.8	2.3	2.8	3.3	3.7	--	<3 ~	
NSLP Nonparticipants	928	2.2	0.03	1.0	1.2	1.6	2.1	2.7	3.4	4.0	--	3.8 ~	1.38
All Students, Male	1,143	2.6	0.02	1.5	1.7	2.0	2.5	3.0	3.6	4.0	--	<3 ~	
NSLP Participants	733	2.5	0.02	1.6	1.8	2.1	2.5	2.9	3.4	3.7	--	<3 ~	
NSLP Nonparticipants	410	2.6	0.05	1.2	1.4	1.9	2.5	3.2	4.0	4.6	--	<3 ~	
All Students, Female	1,171	2.1	0.02	1.0	1.2	1.5	2.0	2.5	3.0	3.4	--	3.2	0.93
NSLP Participants	653	2.2	0.03	1.1	1.3	1.6	2.1	2.6	3.1	3.6	--	<3 ~	
NSLP Nonparticipants	518	1.9	0.03	0.9	1.1	1.4	1.8	2.3	2.9	3.3	--	5.3 ~	2.21
By School Type													
Elementary School Students	732	2.4	0.03	1.4	1.6	1.9	2.3	2.7	3.3	3.6	--	<3 ~	
NSLP Participants	531	2.4	0.03	1.4	1.6	1.9	2.3	2.7	3.2	3.5	--	<3 ~	
NSLP Nonparticipants	201	2.4	0.05	1.5 ~	1.7	2.0	2.3	2.8	3.3	3.6 ~	--	<3 ~	

TABLE J.26

USUAL DAILY RIBOFLAVIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Riboflavin Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	2.5	0.03	1.6	1.8	2.1	2.4	2.8	3.3	3.6	--	<3 ~	
NSLP Participants	271	2.5	0.03	1.6 ~	1.8	2.1	2.4	2.8	3.2	3.5 ~	--	<3 ~	
NSLP Nonparticipants	101	2.5	0.06	1.6 ~	1.8 ~	2.1	2.5	2.9	3.4 ~	3.7 ~	--	<3 ~	
Elementary School Students, Female	360	2.3	0.04	1.3	1.5	1.8	2.2	2.6	3.1	3.5	--	<3 ~	
NSLP Participants	260	2.2	0.04	1.3 ~	1.5	1.8	2.2	2.6	3.1	3.4 ~	--	<3 ~	
NSLP Nonparticipants	100	2.3	0.07	1.4 ~	1.6 ~	1.8	2.2	2.6	3.1 ~	3.5 ~	--	<3 ~	
Middle School Students	787	2.2	0.03	1.0	1.2	1.6	2.1	2.7	3.3	3.7	--	<3 ~	
NSLP Participants	497	2.3	0.04	1.1	1.3	1.7	2.2	2.8	3.5	4.0	--	<3 ~	
NSLP Nonparticipants	290	1.9	0.04	0.9 ~	1.1	1.4	1.8	2.3	2.9	3.2 ~	--	3.4 ~	3.02
Middle School Students, Male	386	2.5	0.04	1.3	1.5	1.9	2.4	3.0	3.7	4.1	--	<3 ~	
NSLP Participants	270	2.7	0.05	1.5 ~	1.7	2.1	2.5	3.1	3.8	4.2 ~	--	<3 ~	
NSLP Nonparticipants	116	2.2	0.08	1.1 ~	1.2 ~	1.6	2.1	2.6	3.3 ~	3.8 ~	--	3.3 ~	4.35
Middle School Students, Female	401	1.9	0.04	0.9	1.0	1.4	1.8	2.3	2.9	3.2	--	4.3 ~	2.28
NSLP Participants	227	2.0	0.06	0.9 ~	1.0	1.4	1.9	2.5	3.1	3.6 ~	--	4.7 ~	2.50
NSLP Nonparticipants	174	1.7	0.04	0.9 ~	1.1	1.3	1.7	2.1	2.5	2.8 ~	--	3.1 ~	4.19
High School Students	795	2.3	0.04	1.0	1.2	1.6	2.1	2.8	3.6	4.2	--	3.9 ~	1.74
NSLP Participants	358	2.4	0.04	1.3	1.5	1.8	2.3	2.8	3.4	3.9	--	<3 ~	
NSLP Nonparticipants	437	2.2	0.05	0.8	1.0	1.4	2.0	2.8	3.7	4.4	--	7.4 ~	2.92
High School Students, Male	385	2.8	0.05	1.4	1.7	2.1	2.6	3.3	4.1	4.6	--	<3 ~	
NSLP Participants	192	2.7	0.04	1.8 ~	2.0	2.3	2.6	3.0	3.4	3.7 ~	--	<3 ~	
NSLP Nonparticipants	193	2.9	0.10	1.1 ~	1.4	1.9	2.7	3.6	4.7	5.5 ~	--	4.2 ~	3.25
High School Students, Female	410	1.8	0.04	0.8	1.0	1.3	1.7	2.3	2.9	3.3	--	7.3 ~	3.02
NSLP Participants	166	2.1	0.06	1.0 ~	1.2	1.5	1.9	2.5	3.1	3.6 ~	--	<3 ~	
NSLP Nonparticipants	244	1.7	0.05	0.8 ~	0.9	1.2	1.6	2.1	2.7	3.0 ~	--	9.2 ~	4.71
Secondary School Students	1,582	2.3	0.02	1.0	1.2	1.6	2.1	2.8	3.5	4.0	--	3.2 ~	1.06
NSLP Participants	855	2.4	0.03	1.2	1.4	1.8	2.2	2.8	3.5	4.0	--	<3 ~	
NSLP Nonparticipants	727	2.1	0.04	0.9	1.0	1.4	2.0	2.6	3.4	4.0	--	6.2 ~	2.22
Secondary School Students, Male	771	2.7	0.03	1.4	1.6	2.0	2.5	3.2	3.9	4.4	--	<3 ~	
NSLP Participants	462	2.7	0.03	1.6	1.8	2.1	2.6	3.1	3.6	4.0	--	<3 ~	
NSLP Nonparticipants	309	2.7	0.07	1.1 ~	1.3	1.8	2.5	3.3	4.3	5.0 ~	--	3.2 ~	2.48
Secondary School Students, Female	811	1.9	0.03	0.8	1.0	1.3	1.8	2.3	2.9	3.2	--	6.0 ~	1.92
NSLP Participants	393	2.0	0.04	0.9	1.1	1.4	1.9	2.5	3.1	3.6	--	3.8 ~	1.85
NSLP Nonparticipants	418	1.7	0.03	0.8	1.0	1.2	1.6	2.1	2.6	3.0	--	7.5 ~	3.37

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

TABLE J.27

USUAL DAILY THIAMIN INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Thiamin Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	1.6	0.03	0.9	1.1	1.3	1.5	1.8	2.2	2.4	0.5	<3 ~	
NSLP Participants	250	1.5	0.02	1.0 ~	1.1	1.3	1.5	1.7	2.0	2.2 ~	0.5	<3 ~	
NSLP Nonparticipants	93	1.7	0.07	0.9 ~	1.0 ~	1.3	1.6	2.0	2.6 ~	3.0 ~	0.5	<3 ~	
9 to 13 Years	953	1.7	0.02	1.0	1.1	1.3	1.6	1.9	2.3	2.6	0.7	<3 ~	
NSLP Participants	633	1.6	0.02	1.0	1.1	1.3	1.6	1.9	2.3	2.5	0.7	<3 ~	
NSLP Nonparticipants	320	1.7	0.03	1.0	1.1	1.3	1.6	2.0	2.4	2.7	0.7	<3 ~	
9 to 13 Years, Male	469	1.8	0.02	1.2	1.3	1.5	1.7	2.0	2.3	2.5	0.7	<3 ~	
NSLP Participants	326	1.7	0.02	1.1	1.2	1.4	1.7	2.0	2.3	2.5	0.7	<3 ~	
NSLP Nonparticipants	143	1.9	0.01	1.7 ~	1.7 ~	1.8	1.9	2.0	2.1 ~	2.1 ~	0.7	<3 ~	
9 to 13 Years, Female	484	1.6	0.03	0.8	0.9	1.2	1.5	1.9	2.3	2.6	0.7	<3 ~	
NSLP Participants	307	1.6	0.03	0.8 ~	1.0	1.2	1.5	1.9	2.3	2.6 ~	0.7	<3 ~	
NSLP Nonparticipants	177	1.5	0.05	0.8 ~	0.9	1.1	1.4	1.8	2.3	2.7 ~	0.7	3.6 ~	3.40
14 to 18 Years	1,018	1.7	0.02	0.8	0.9	1.2	1.6	2.1	2.7	3.1	--	10.3	2.56
NSLP Participants	503	1.8	0.03	0.9	1.0	1.3	1.7	2.1	2.6	3.0	--	5.9 ~	3.20
NSLP Nonparticipants	515	1.7	0.04	0.7	0.8	1.1	1.5	2.0	2.7	3.2	--	14.5	3.65
14 to 18 Years, Male	506	2.1	0.03	1.1	1.2	1.5	1.9	2.5	3.1	3.5	1.0	3.2 ~	2.55
NSLP Participants	282	2.0	0.04	1.2 ~	1.3	1.6	1.9	2.3	2.8	3.2 ~	1.0	<3 ~	
NSLP Nonparticipants	224	2.1	0.06	1.0 ~	1.1	1.5	2.0	2.6	3.3	3.9 ~	1.0	6.1 ~	4.60
14 to 18 Years, Female	512	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.1	2.4	0.9	17.4	4.09
NSLP Participants	221	1.5	0.04	0.7 ~	0.9	1.1	1.4	1.7	2.2	2.5 ~	0.9	12.4 ~	6.10
NSLP Nonparticipants	291	1.3	0.03	0.6 ~	0.7	1.0	1.2	1.6	2.0	2.3 ~	0.9	20.4	5.47
All Students	2,314	1.7	0.01	0.9	1.0	1.3	1.6	2.0	2.4	2.8	--	3.5	0.85
NSLP Participants	1,386	1.6	0.01	0.9	1.1	1.3	1.6	1.9	2.3	2.6	--	<3 ~	
NSLP Nonparticipants	928	1.7	0.02	0.8	0.9	1.2	1.6	2.0	2.6	3.0	--	6.7	1.92
All Students, Male	1,143	1.8	0.02	1.1	1.2	1.4	1.7	2.1	2.6	2.9	--	<3 ~	
NSLP Participants	733	1.8	0.02	1.1	1.2	1.4	1.7	2.0	2.4	2.7	--	<3 ~	
NSLP Nonparticipants	410	2.0	0.03	1.1	1.2	1.5	1.9	2.3	2.9	3.3	--	<3 ~	
All Students, Female	1,171	1.5	0.02	0.8	0.9	1.1	1.4	1.8	2.2	2.5	--	6.8	1.53
NSLP Participants	653	1.5	0.02	0.8	1.0	1.2	1.5	1.8	2.2	2.4	--	3.4 ~	1.58
NSLP Nonparticipants	518	1.5	0.03	0.7	0.8	1.1	1.4	1.8	2.2	2.6	--	11.5	2.80
By School Type													
Elementary School Students	732	1.6	0.02	1.0	1.1	1.3	1.6	1.9	2.2	2.5	--	<3 ~	
NSLP Participants	531	1.6	0.02	1.0	1.1	1.3	1.6	1.8	2.1	2.4	--	<3 ~	
NSLP Nonparticipants	201	1.8	0.04	1.0 ~	1.1	1.4	1.7	2.1	2.5	2.8 ~	--	<3 ~	

TABLE J.28

USUAL DAILY CALCIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Calcium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90	95	
By Age/Gender Group											
6 to 8 Years ¹	343	1,093	19.7	591	681	845	1,048	1,284	1,550	1,748	800
NSLP Participants	250	1,103	23.8	592 ~	681	846	1,054	1,297	1,573	1,779 ~	800
NSLP Nonparticipants	93	1,060	37.5	546 ~	642 ~	817	1,026	1,253	1,506 ~	1,699 ~	800
9 to 13 Years	953	1,132	11.1	632	722	888	1,098	1,339	1,586	1,750	1,300
NSLP Participants	633	1,192	12.6	724	811	969	1,164	1,385	1,609	1,757	1,300
NSLP Nonparticipants	320	1,002	20.0	508	588	744	954	1,207	1,477	1,660	1,300
9 to 13 Years, Male	469	1,213	12.7	793	874	1,019	1,195	1,388	1,576	1,694	1,300
NSLP Participants	326	1,245	13.8	864	938	1,070	1,230	1,404	1,572	1,678	1,300
NSLP Nonparticipants	143	1,136	15.2	853 ~	909 ~	1,009	1,128	1,255	1,375 ~	1,450 ~	1,300
9 to 13 Years, Female	484	1,050	17.0	530	618	786	1,005	1,261	1,535	1,728	1,300
NSLP Participants	307	1,137	19.6	646 ~	733	895	1,100	1,338	1,587	1,756 ~	1,300
NSLP Nonparticipants	177	868	28.4	390 ~	462	604	801	1,055	1,354	1,574 ~	1,300
14 to 18 Years	1,018	1,041	14.3	424	520	711	975	1,299	1,648	1,885	1,300
NSLP Participants	503	1,136	20.4	510	610	806	1,073	1,397	1,744	1,980	1,300
NSLP Nonparticipants	515	960	19.2	378	466	643	892	1,203	1,542	1,774	1,300
14 to 18 Years, Male	506	1,248	21.5	581	692	904	1,184	1,521	1,884	2,134	1,300
NSLP Participants	282	1,281	23.7	713 ~	814	1,000	1,237	1,514	1,804	2,000 ~	1,300
NSLP Nonparticipants	224	1,212	38.2	453 ~	566	797	1,122	1,530	1,975	2,280 ~	1,300
14 to 18 Years, Female	512	847	15.2	371	447	597	801	1,047	1,307	1,482	1,300
NSLP Participants	221	958	29.5	390 ~	473	642	884	1,193	1,539	1,782 ~	1,300
NSLP Nonparticipants	291	772	15.6	388 ~	455	581	744	933	1,126	1,251 ~	1,300
All Students	2,314	1,093	8.2	538	634	815	1,048	1,318	1,603	1,801	--
NSLP Participants	1,386	1,154	10.0	627	719	891	1,111	1,367	1,639	1,825	--
NSLP Nonparticipants	928	994	13.0	446	536	710	942	1,217	1,512	1,717	--
All Students, Male	1,143	1,218	11.4	665	763	945	1,175	1,442	1,725	1,917	--
NSLP Participants	733	1,246	12.4	762	851	1,012	1,212	1,443	1,684	1,847	--
NSLP Nonparticipants	410	1,162	21.5	553	653	848	1,108	1,417	1,741	1,958	--
All Students, Female	1,171	970	10.3	469	556	721	931	1,173	1,427	1,602	--
NSLP Participants	653	1,052	14.3	540	629	794	1,007	1,260	1,532	1,719	--
NSLP Nonparticipants	518	855	14.3	396	473	623	817	1,041	1,278	1,443	--
By School Type											
Elementary School Students	732	1,142	13.1	638	729	894	1,101	1,343	1,603	1,783	--
NSLP Participants	531	1,175	14.6	689	777	938	1,141	1,370	1,610	1,776	--
NSLP Nonparticipants	201	1,062	27.0	534 ~	627	797	1,013	1,271	1,558	1,762 ~	--

TABLE J.28

USUAL DAILY CALCIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Calcium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	1,201	19.7	655	749	928	1,160	1,429	1,707	1,890	--
NSLP Participants	271	1,231	21.8	724 ~	816	981	1,190	1,434	1,698	1,881 ~	--
NSLP Nonparticipants	101	1,113	42.7	502 ~	605 ~	803	1,064	1,370	1,686 ~	1,893 ~	--
Elementary School Students, Female	360	1,083	16.6	629	713	864	1,051	1,263	1,487	1,645	--
NSLP Participants	260	1,108	19.2	659 ~	738	886	1,076	1,295	1,519	1,667 ~	--
NSLP Nonparticipants	100	1,008	33.7	545 ~	629 ~	781	966	1,182	1,429 ~	1,614 ~	--
Middle School Students	787	1,032	13.0	509	598	769	992	1,252	1,519	1,694	--
NSLP Participants	497	1,139	17.6	570	669	856	1,098	1,377	1,661	1,846	--
NSLP Nonparticipants	290	872	16.1	476 ~	545	676	844	1,037	1,235	1,366 ~	--
Middle School Students, Male	386	1,187	16.2	709	798	961	1,162	1,386	1,607	1,747	--
NSLP Participants	270	1,280	19.9	788 ~	879	1,047	1,254	1,485	1,713	1,859 ~	--
NSLP Nonparticipants	116	1,012	22.0	657 ~	723 ~	844	993	1,159	1,324 ~	1,430 ~	--
Middle School Students, Female	401	891	16.8	416	495	648	851	1,090	1,339	1,504	--
NSLP Participants	227	986	25.5	439 ~	531	708	941	1,216	1,500	1,686 ~	--
NSLP Nonparticipants	174	772	19.6	403 ~	463	582	743	932	1,122	1,242 ~	--
High School Students	795	1,046	16.2	432	526	715	978	1,303	1,656	1,897	--
NSLP Participants	358	1,119	21.4	560	651	827	1,064	1,351	1,657	1,864	--
NSLP Nonparticipants	437	990	22.9	365	456	643	910	1,251	1,628	1,890	--
High School Students, Male	385	1,265	25.7	581	693	908	1,193	1,542	1,926	2,194	--
NSLP Participants	192	1,257	26.4	737 ~	829	999	1,216	1,470	1,738	1,920 ~	--
NSLP Nonparticipants	193	1,276	44.7	456 ~	576	824	1,176	1,619	2,106	2,440 ~	--
High School Students, Female	410	843	16.2	386	461	605	800	1,034	1,280	1,446	--
NSLP Participants	166	951	27.9	464 ~	541	692	898	1,152	1,428	1,616 ~	--
NSLP Nonparticipants	244	770	17.9	369 ~	437	568	739	939	1,144	1,278 ~	--
Secondary School Students	1,582	1,041	10.4	469	561	742	986	1,280	1,592	1,801	--
NSLP Participants	855	1,128	13.8	564	659	840	1,078	1,360	1,661	1,865	--
NSLP Nonparticipants	727	952	15.0	409	492	660	891	1,178	1,489	1,702	--
Secondary School Students, Male	771	1,234	15.0	640	743	936	1,185	1,478	1,785	1,992	--
NSLP Participants	462	1,267	16.2	759	851	1,020	1,232	1,476	1,726	1,892	--
NSLP Nonparticipants	309	1,191	27.4	528 ~	634	842	1,125	1,467	1,833	2,079 ~	--
Secondary School Students, Female	811	863	11.8	394	471	620	820	1,060	1,311	1,479	--
NSLP Participants	393	969	19.2	444	528	694	917	1,188	1,477	1,672	--
NSLP Nonparticipants	418	776	13.8	377	444	573	743	943	1,150	1,288	--

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

AI = Adequate Intake.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE J.29

USUAL DAILY IRON INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Iron Intakes (mg) ¹										EAR	
	N	Mean	SE	Percentiles						EAR	% Below	
				5	10	25	50	75	90			95
By Age/Gender Group												
6 to 8 Years ²	343	14.5	0.26	8.2	9.3	11.3	13.8	16.9	20.6	23.4	4.1	<3
NSLP Participants	250	13.9	0.24	8.2	~ 9.2	11.2	13.6	16.3	19.0	20.8	~ 4.1	<3
NSLP Nonparticipants	93	16.2	0.82	7.9	~ 9.1	~ 11.3	14.4	18.9	25.3	~ 30.9	~ 4.1	<3
9 to 13 Years	953	15.7	0.17	9.0	10.0	12.1	14.8	18.3	22.2	25.2	--	<3
NSLP Participants	633	15.4	0.19	9.1	10.2	12.1	14.7	17.9	21.6	24.3	--	<3
NSLP Nonparticipants	320	16.2	0.31	8.9	10.0	12.2	15.2	19.0	23.4	26.5	--	<3
9 to 13 Years, Male	469	16.7	0.21	10.6	11.6	13.5	16.0	19.1	22.5	24.8	5.9	<3
NSLP Participants	326	16.0	0.22	10.4	11.4	13.2	15.4	18.2	21.2	23.4	5.9	<3
NSLP Nonparticipants	143	18.3	0.36	12.1	~ 13.1	~ 15.2	17.8	20.8	24.0	~ 26.2	~ 5.9	<3
9 to 13 Years, Female	484	14.6	0.25	7.8	8.8	10.9	13.6	17.2	21.5	24.9	5.7	<3
NSLP Participants	307	14.8	0.30	8.1	~ 9.2	~ 11.2	13.9	17.4	21.6	24.7	~ 5.7	<3
NSLP Nonparticipants	177	14.1	0.44	7.1	~ 8.1	~ 10.1	12.9	16.7	21.4	24.9	~ 5.7	<3
14 to 18 Years	1,018	15.9	0.23	7.3	8.5	10.9	14.4	19.2	24.9	29.3	--	10.1
NSLP Participants	503	16.3	0.26	8.7	9.9	12.2	15.3	19.2	23.7	27.0	--	8.8
NSLP Nonparticipants	515	15.6	0.37	6.2	7.5	9.9	13.6	19.0	26.2	31.7	--	11.3
14 to 18 Years, Male	506	19.0	0.29	10.6	11.9	14.5	17.9	22.4	27.5	31.3	7.7	<3
NSLP Participants	282	18.1	0.30	11.2	~ 12.3	~ 14.5	17.4	20.9	24.7	27.3	~ 7.7	<3
NSLP Nonparticipants	224	20.2	0.59	9.2	~ 10.8	~ 13.9	18.4	24.5	31.7	37.0	~ 7.7	<3
14 to 18 Years, Female	512	12.9	0.25	6.0	7.1	9.1	11.8	15.5	20.0	23.6	7.9	19.4
NSLP Participants	221	13.9	0.35	7.0	~ 8.0	~ 10.2	13.1	16.8	20.8	23.6	~ 7.9	19.4
NSLP Nonparticipants	291	12.3	0.35	5.6	~ 6.6	~ 8.4	11.0	14.7	19.5	23.4	~ 7.9	19.4
All Students	2,314	15.5	0.12	8.1	9.3	11.5	14.4	18.2	22.8	26.3	--	3.7
NSLP Participants	1,386	15.2	0.13	8.8	9.9	11.9	14.5	17.7	21.4	24.2	--	<3
NSLP Nonparticipants	928	15.8	0.24	7.2	8.4	10.8	14.4	19.1	25.0	29.5	--	5.6
All Students, Male	1,143	17.0	0.16	10.1	11.2	13.3	16.1	19.7	23.8	26.8	--	<3
NSLP Participants	733	16.1	0.16	10.2	11.2	13.1	15.5	18.4	21.8	24.2	--	<3
NSLP Nonparticipants	410	18.6	0.35	9.6	10.9	13.6	17.4	22.2	27.9	31.9	--	<3
All Students, Female	1,171	14.0	0.16	7.1	8.2	10.3	13.0	16.5	20.9	24.3	--	7.2
NSLP Participants	653	14.2	0.19	7.8	8.9	10.9	13.5	16.7	20.4	23.1	--	5.2
NSLP Nonparticipants	518	13.7	0.29	6.3	7.3	9.4	12.3	16.3	21.6	25.9	--	9.9
By School Type												
Elementary School Students	732	15.4	0.19	8.8	9.9	11.9	14.5	17.8	21.7	24.8	--	<3
NSLP Participants	531	14.9	0.19	8.8	9.9	11.8	14.3	17.2	20.5	22.9	--	<3
NSLP Nonparticipants	201	16.7	0.46	8.8	~ 10.0	~ 12.2	15.4	19.6	24.8	28.8	~ --	<3

TABLE J.30

USUAL DAILY MAGNESIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Magnesium Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	245	2.9	164	180	208	241	278	316	341	110	<3 ~	
NSLP Participants	250	240	3.7	156 ~	172	200	233	272	315	345 ~	110	<3 ~	
NSLP Nonparticipants	93	258	0.9	244 ~	247 ~	252	258	264	269 ~	272 ~	110	<3 ~	
9 to 13 Years	953	253	2.1	160	177	208	246	291	337	369	200	20.6	3.42
NSLP Participants	633	258	2.6	164	182	213	251	296	342	373	200	18.0	3.57
NSLP Nonparticipants	320	243	3.5	155	170	198	235	279	326	358	200	26.5 ~	7.98
9 to 13 Years, Male	469	269	2.9	180	196	226	263	306	351	381	200	11.6 ~	5.39
NSLP Participants	326	272	3.5	182	198	227	265	308	354	386	200	10.7 ~	4.97
NSLP Nonparticipants	143	265	3.9	197 ~	209 ~	232	261	294	327 ~	348 ~	200	6.1 ~	26.10
9 to 13 Years, Female	484	236	2.8	147	164	194	230	272	315	345	200	29.0	4.31
NSLP Participants	307	243	3.4	154 ~	170	201	238	280	321	348 ~	200	24.6	5.26
NSLP Nonparticipants	177	222	4.8	133 ~	149	178	214	257	305	339 ~	200	40.0	5.88
14 to 18 Years	1,018	256	2.9	130	151	191	245	309	377	423	340	79.6	2.93
NSLP Participants	503	268	3.6	156	175	211	258	315	375	414	340	79.2	5.26
NSLP Nonparticipants	515	246	4.3	113	134	175	232	302	377	428	340	80.4	3.62
14 to 18 Years, Male	506	300	3.7	182	202	241	291	349	410	450	340	71.6	5.18
NSLP Participants	282	299	3.7	208 ~	224	255	293	337	382	411 ~	340	76.0	10.70
NSLP Nonparticipants	224	301	6.9	159 ~	182	227	287	360	438	490 ~	340	69.1	5.90
14 to 18 Years, Female	512	216	3.3	110	127	161	206	260	316	354	340	86.8	3.51
NSLP Participants	221	229	5.0	128 ~	145	176	218	270	327	365 ~	340	84.3	6.23
NSLP Nonparticipants	291	207	4.4	100 ~	118	152	198	251	307	344 ~	340	88.6	4.21
All Students	2,314	252	1.5	148	167	201	244	294	348	385	--	34.5	1.17
NSLP Participants	1,386	256	1.8	159	176	208	247	295	345	380	--	27.4	1.60
NSLP Nonparticipants	928	248	2.6	135	155	191	238	294	353	393	--	45.4	1.73
All Students, Male	1,143	277	2.1	176	194	227	269	318	369	404	--	27.8	1.96
NSLP Participants	733	274	2.4	181	198	229	266	311	361	395	--	23.2	2.39
NSLP Nonparticipants	410	282	3.8	172	191	227	273	327	383	420	--	35.2	3.55
All Students, Female	1,171	229	1.9	134	151	183	223	267	314	345	--	40.3	1.49
NSLP Participants	653	235	2.4	146	162	192	229	271	314	344	--	31.2	2.19
NSLP Nonparticipants	518	220	3.0	120	138	171	214	262	312	345	--	52.0	2.24
By School Type													
Elementary School Students	732	254	1.9	178	193	219	250	284	319	342	--	7.0 ~	2.48
NSLP Participants	531	252	2.5	168	184	212	246	285	327	355	--	8.1	2.41
NSLP Nonparticipants	201	257	4.1	170 ~	186	215	253	294	333	358 ~	--	<3 ~	

TABLE J.31

USUAL DAILY PHOSPHORUS INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Phosphorus Intakes (mg)										EAR ¹		SE
	N	Mean	SE	Percentiles						EAR	% Below		
				5	10	25	50	75	90			95	
By Age/Gender Group													
6 to 8 Years ²	343	1,314	16.7	850	942	1,102	1,290	1,498	1,713	1,859	405	<3 ~	
NSLP Participants	250	1,305	21.0	821 ~	915	1,079	1,274	1,495	1,732	1,897 ~	405	<3 ~	
NSLP Nonparticipants	93	1,333	23.9	965 ~	1,041 ~	1,174	1,326	1,485	1,632 ~	1,722 ~	405	<3 ~	
9 to 13 Years	953	1,377	11.3	861	958	1,133	1,347	1,588	1,832	1,994	1,055	17.4	3.60
NSLP Participants	633	1,430	13.9	916	1,014	1,187	1,398	1,637	1,884	2,051	1,055	12.9	3.77
NSLP Nonparticipants	320	1,264	17.1	810	893	1,046	1,237	1,452	1,668	1,808	1,055	26.1 ~	8.74
9 to 13 Years, Male	469	1,472	13.1	1,042	1,124	1,272	1,452	1,650	1,844	1,967	1,055	5.6 ~	6.36
NSLP Participants	326	1,513	15.0	1,108	1,186	1,325	1,492	1,678	1,866	1,989	1,055	<3 ~	
NSLP Nonparticipants	143	1,381	15.1	1,101 ~	1,156 ~	1,254	1,371	1,497	1,618 ~	1,694 ~	1,055	<3 ~	
9 to 13 Years, Female	484	1,278	16.2	746	844	1,025	1,249	1,500	1,748	1,907	1,055	28.1	3.76
NSLP Participants	307	1,340	20.9	801 ~	902	1,084	1,308	1,560	1,819	1,993 ~	1,055	22.1	4.48
NSLP Nonparticipants	177	1,152	24.4	671 ~	758	920	1,124	1,353	1,582	1,730 ~	1,055	41.4	5.49
14 to 18 Years	1,018	1,391	16.0	679	798	1,026	1,326	1,684	2,066	2,326	1,055	27.4	2.38
NSLP Participants	503	1,496	21.2	823	939	1,157	1,440	1,772	2,124	2,361	1,055	17.6	3.91
NSLP Nonparticipants	515	1,301	22.9	591	704	926	1,229	1,597	1,992	2,260	1,055	35.6	2.89
14 to 18 Years, Male	506	1,669	21.3	971	1,098	1,330	1,622	1,955	2,300	2,529	1,055	9.0 ~	4.16
NSLP Participants	282	1,694	22.7	1,141 ~	1,241	1,423	1,655	1,925	2,202	2,382 ~	1,055	3.9 ~	4.51
NSLP Nonparticipants	224	1,640	37.9	824 ~	965	1,232	1,579	1,981	2,394	2,665 ~	1,055	14.6 ~	6.40
14 to 18 Years, Female	512	1,130	16.5	597	691	865	1,087	1,347	1,622	1,809	1,055	46.2	2.64
NSLP Participants	221	1,245	28.4	658 ~	755	941	1,190	1,489	1,807	2,021 ~	1,055	36.0	4.54
NSLP Nonparticipants	291	1,054	20.0	561 ~	649	812	1,018	1,256	1,503	1,668 ~	1,055	54.1	3.58
All Students	2,314	1,367	8.3	790	897	1,088	1,326	1,599	1,887	2,084	--	17.1	1.37
NSLP Participants	1,386	1,412	10.2	867	968	1,149	1,372	1,630	1,905	2,095	--	11.7	1.58
NSLP Nonparticipants	928	1,294	13.5	706	810	1,003	1,249	1,535	1,834	2,035	--	25.3	2.35
All Students, Male	1,143	1,519	11.2	968	1,070	1,255	1,482	1,742	2,013	2,195	--	8.2	1.96
NSLP Participants	733	1,530	12.4	1,041	1,133	1,296	1,497	1,727	1,967	2,130	--	4.9 ~	1.94
NSLP Nonparticipants	410	1,499	20.7	885	995	1,199	1,458	1,754	2,055	2,251	--	13.3 ~	4.40
All Students, Female	1,171	1,218	10.0	706	803	977	1,189	1,426	1,667	1,826	--	24.6	1.84
NSLP Participants	653	1,282	14.0	756	854	1,031	1,248	1,496	1,751	1,922	--	19.3	2.25
NSLP Nonparticipants	518	1,129	14.2	644	736	900	1,103	1,328	1,555	1,703	--	32.7	2.90
By School Type													
Elementary School Students	732	1,371	11.4	911	1,001	1,159	1,347	1,556	1,771	1,915	--	8.0	1.77
NSLP Participants	531	1,388	14.1	910	1,003	1,164	1,358	1,577	1,809	1,968	--	6.5	1.79
NSLP Nonparticipants	201	1,325	15.9	975 ~	1,045	1,168	1,314	1,470	1,620	1,713 ~	--	9.3 ~	5.05

TABLE J.31

USUAL DAILY PHOSPHORUS INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

	Phosphorus Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	1,436	17.6	935	1,031	1,200	1,406	1,638	1,878	2,040	--	6.9 ~	2.43
NSLP Participants	271	1,454	19.6	982 ~	1,073	1,232	1,423	1,641	1,872	2,031 ~	--	4.2 ~	2.31
NSLP Nonparticipants	101	1,386	38.5	806 ~	914 ~	1,111	1,356	1,629	1,899 ~	2,072 ~	--	15.0 ~	5.79
Elementary School Students, Female	360	1,303	14.0	896	980	1,122	1,287	1,466	1,646	1,764	--	8.3 ~	2.60
NSLP Participants	260	1,316	19.0	857 ~	948	1,106	1,293	1,500	1,713	1,856 ~	--	8.8 ~	2.70
NSLP Nonparticipants	100	1,269	14.7	1,036 ~	1,085 ~	1,169	1,265	1,365	1,459 ~	1,519 ~	--	5.1 ~	7.98
Middle School Students	787	1,297	14.4	711	814	1,008	1,256	1,542	1,834	2,025	--	29.5	3.17
NSLP Participants	497	1,393	19.6	756	869	1,079	1,349	1,659	1,974	2,181	--	23.0	3.96
NSLP Nonparticipants	290	1,154	19.1	681 ~	765	922	1,122	1,351	1,584	1,737 ~	--	41.5	4.77
Middle School Students, Male	386	1,475	17.4	964	1,059	1,233	1,447	1,687	1,926	2,079	--	9.7 ~	7.95
NSLP Participants	270	1,572	22.4	1,021 ~	1,124	1,311	1,543	1,802	2,059	2,225 ~	--	6.4 ~	6.55
NSLP Nonparticipants	116	1,291	23.5	914 ~	984 ~	1,112	1,270	1,447	1,624 ~	1,739 ~	--	17.4 ~	29.70
Middle School Students, Female	401	1,136	18.3	599	694	873	1,101	1,361	1,623	1,794	--	44.9	2.99
NSLP Participants	227	1,199	28.1	596 ~	698	894	1,150	1,451	1,762	1,968 ~	--	40.6	3.78
NSLP Nonparticipants	174	1,063	22.2	622 ~	704	855	1,041	1,247	1,450	1,580 ~	--	52.0	5.21
High School Students	795	1,408	18.4	685	803	1,033	1,341	1,710	2,100	2,363	--	27.2	2.63
NSLP Participants	358	1,503	23.0	886	993	1,193	1,450	1,756	2,085	2,304	--	15.5 ~	5.09
NSLP Nonparticipants	437	1,334	26.8	579	696	929	1,251	1,649	2,081	2,376	--	34.7	2.97
High School Students, Male	385	1,700	24.8	990	1,120	1,356	1,652	1,990	2,340	2,574	--	8.1 ~	4.58
NSLP Participants	192	1,694	25.4	1,184 ~	1,276	1,443	1,656	1,906	2,163	2,331 ~	--	<3 ~	
NSLP Nonparticipants	193	1,705	41.8	858 ~	1,006	1,287	1,647	2,060	2,478	2,750 ~	--	12.5 ~	6.60
High School Students, Female	410	1,136	18.8	596	687	862	1,092	1,362	1,644	1,831	--	45.8	2.87
NSLP Participants	166	1,266	30.2	738 ~	824	989	1,211	1,483	1,779	1,983 ~	--	31.6	6.96
NSLP Nonparticipants	244	1,057	23.5	538 ~	629	799	1,014	1,267	1,538	1,724 ~	--	54.4	3.62
Secondary School Students	1,582	1,363	11.7	702	814	1,027	1,308	1,639	1,984	2,214	--	27.3	2.08
NSLP Participants	855	1,449	15.2	813	923	1,131	1,400	1,714	2,039	2,254	--	18.8	3.19
NSLP Nonparticipants	727	1,275	17.5	622	728	934	1,212	1,547	1,904	2,146	--	35.8	2.62
Secondary School Students, Male	771	1,608	15.3	981	1,095	1,305	1,570	1,870	2,172	2,368	--	8.6 ~	3.97
NSLP Participants	462	1,637	17.5	1,082	1,184	1,370	1,603	1,868	2,135	2,309	--	4.6 ~	4.10
NSLP Nonparticipants	309	1,571	26.8	886 ~	1,007	1,234	1,524	1,857	2,197	2,419 ~	--	13.0 ~	7.43
Secondary School Students, Female	811	1,136	13.0	603	696	870	1,096	1,359	1,628	1,805	--	45.2	2.10
NSLP Participants	393	1,231	20.5	658	754	938	1,181	1,469	1,771	1,973	--	36.7	3.34
NSLP Nonparticipants	418	1,058	16.5	568	654	817	1,025	1,264	1,505	1,663	--	53.3	2.95

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

TABLE J.32

USUAL DAILY POTASSIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Potassium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ¹	343	2,415	19.4	1,846	1,963	2,166	2,403	2,650	2,882	3,026	3,800
NSLP Participants	250	2,412	29.2	1,695 ~	1,838	2,089	2,388	2,709	3,016	3,208 ~	3,800
NSLP Nonparticipants	93	2,418	38.2	1,826 ~	1,950 ~	2,165	2,410	2,663	2,896 ~	3,038 ~	3,800
9 to 13 Years	953	2,520	21.6	1,527	1,712	2,049	2,466	2,928	3,395	3,703	4,500
NSLP Participants	633	2,630	23.8	1,695	1,881	2,218	2,608	2,997	3,388	3,663	4,500
NSLP Nonparticipants	320	2,283	37.2	1,348	1,509	1,807	2,198	2,673	3,176	3,508	4,500
9 to 13 Years, Male	469	2,662	25.1	1,843	2,002	2,283	2,621	2,996	3,377	3,624	4,500
NSLP Participants	326	2,746	24.3	2,049	2,196	2,452	2,735	3,015	3,294	3,486	4,500
NSLP Nonparticipants	143	2,469	43.4	1,703 ~	1,842 ~	2,098	2,421	2,790	3,161 ~	3,398 ~	4,500
9 to 13 Years, Female	484	2,370	32.8	1,300	1,494	1,854	2,308	2,818	3,327	3,655	4,500
NSLP Participants	307	2,502	39.7	1,446 ~	1,646	2,009	2,454	2,943	3,421	3,724 ~	4,500
NSLP Nonparticipants	177	2,106	55.4	1,097 ~	1,277	1,600	2,006	2,497	3,056	3,460 ~	4,500
14 to 18 Years	1,018	2,529	28.2	1,257	1,471	1,881	2,422	3,060	3,724	4,166	4,700
NSLP Participants	503	2,691	32.4	1,622	1,815	2,173	2,625	3,137	3,653	3,989	4,700
NSLP Nonparticipants	515	2,389	44.5	1,029	1,239	1,658	2,238	2,955	3,734	4,267	4,700
14 to 18 Years, Male	506	3,005	34.5	1,857	2,067	2,453	2,938	3,484	4,031	4,386	4,700
NSLP Participants	282	3,004	29.2	2,252 ~	2,400	2,661	2,974	3,314	3,647	3,859 ~	4,700
NSLP Nonparticipants	224	3,011	73.0	1,467 ~	1,714	2,208	2,880	3,677	4,486	5,007 ~	4,700
14 to 18 Years, Female	512	2,081	32.1	1,036	1,216	1,558	2,002	2,518	3,048	3,396	4,700
NSLP Participants	221	2,299	49.0	1,262 ~	1,440	1,776	2,215	2,730	3,266	3,621 ~	4,700
NSLP Nonparticipants	291	1,937	40.4	937 ~	1,111	1,441	1,867	2,357	2,855	3,179 ~	4,700
All Students	2,314	2,500	14.8	1,455	1,648	1,999	2,433	2,925	3,433	3,773	--
NSLP Participants	1,386	2,588	16.7	1,655	1,834	2,156	2,543	2,964	3,391	3,681	--
NSLP Nonparticipants	928	2,358	26.6	1,224	1,416	1,779	2,256	2,828	3,435	3,842	--
All Students, Male	1,143	2,750	18.8	1,811	1,987	2,304	2,694	3,134	3,582	3,878	--
NSLP Participants	733	2,759	18.9	1,975	2,129	2,405	2,731	3,075	3,415	3,642	--
NSLP Nonparticipants	410	2,740	39.8	1,582	1,781	2,159	2,652	3,226	3,813	4,197	--
All Students, Female	1,171	2,253	19.3	1,261	1,445	1,783	2,202	2,668	3,128	3,422	--
NSLP Participants	653	2,396	24.7	1,448	1,629	1,953	2,348	2,786	3,224	3,511	--
NSLP Nonparticipants	518	2,056	29.2	1,075	1,251	1,580	1,995	2,467	2,940	3,245	--
By School Type											
Elementary School Students	732	2,521	17.4	1,789	1,937	2,195	2,499	2,818	3,128	3,329	--
NSLP Participants	531	2,567	22.5	1,770	1,927	2,209	2,541	2,885	3,229	3,463	--
NSLP Nonparticipants	201	2,401	36.2	1,613 ~	1,767	2,040	2,370	2,728	3,075	3,293 ~	--

TABLE J.32

USUAL DAILY POTASSIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Potassium Intakes (mg)										AI
	N	Mean	SE	Percentiles						95	
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	2,620	27.5	1,819	1,975	2,251	2,582	2,947	3,312	3,550	--
NSLP Participants	271	2,653	36.1	1,776 ~	1,937	2,241	2,612	3,000	3,408	3,702 ~	--
NSLP Nonparticipants	101	2,537	58.4	1,642 ~	1,813 ~	2,122	2,499	2,910	3,311 ~	3,565 ~	--
Elementary School Students, Female	360	2,414	19.1	1,843	1,961	2,165	2,400	2,649	2,885	3,033	--
NSLP Participants	260	2,470	23.0	1,884 ~	2,003	2,212	2,456	2,712	2,954	3,104 ~	--
NSLP Nonparticipants	100	2,276	32.1	1,770 ~	1,873 ~	2,053	2,264	2,486	2,696 ~	2,825 ~	--
Middle School Students	787	2,342	26.9	1,251	1,442	1,801	2,264	2,799	3,345	3,702	--
NSLP Participants	497	2,502	32.7	1,415	1,615	1,983	2,442	2,956	3,467	3,795	--
NSLP Nonparticipants	290	2,103	43.4	1,097 ~	1,271	1,590	2,000	2,498	3,059	3,462 ~	--
Middle School Students, Male	386	2,621	36.0	1,581	1,769	2,117	2,556	3,055	3,557	3,883	--
NSLP Participants	270	2,759	36.6	1,849 ~	2,022	2,334	2,716	3,138	3,552	3,817 ~	--
NSLP Nonparticipants	116	2,365	78.5	1,225 ~	1,405 ~	1,758	2,240	2,835	3,484 ~	3,932 ~	--
Middle School Students, Female	401	2,089	35.4	1,069	1,251	1,587	2,013	2,507	3,023	3,371	--
NSLP Participants	227	2,226	52.1	1,093 ~	1,289	1,660	2,142	2,700	3,272	3,646 ~	--
NSLP Nonparticipants	174	1,931	44.8	1,070 ~	1,234	1,522	1,873	2,274	2,700	2,991 ~	--
High School Students	795	2,573	32.6	1,285	1,498	1,911	2,458	3,111	3,796	4,254	--
NSLP Participants	358	2,733	33.9	1,783	1,957	2,277	2,677	3,128	3,580	3,874	--
NSLP Nonparticipants	437	2,448	50.9	1,034	1,248	1,679	2,281	3,035	3,864	4,436	--
High School Students, Male	385	3,071	35.5	2,029	2,224	2,578	3,017	3,505	3,990	4,301	--
NSLP Participants	192	3,041	14.5	2,719 ~	2,787	2,903	3,036	3,174	3,302	3,380 ~	--
NSLP Nonparticipants	193	3,107	77.0	1,596 ~	1,849	2,336	2,978	3,737	4,530	5,058 ~	--
High School Students, Female	410	2,107	38.5	1,011	1,193	1,544	2,011	2,565	3,145	3,531	--
NSLP Participants	166	2,351	60.2	1,278 ~	1,454	1,794	2,249	2,796	3,379	3,775 ~	--
NSLP Nonparticipants	244	1,956	47.7	895 ~	1,074	1,417	1,870	2,401	2,951	3,313 ~	--
Secondary School Students	1,582	2,479	21.5	1,270	1,474	1,864	2,377	2,984	3,616	4,036	--
NSLP Participants	855	2,620	24.8	1,552	1,745	2,103	2,554	3,066	3,581	3,916	--
NSLP Nonparticipants	727	2,334	34.8	1,084	1,280	1,660	2,184	2,851	3,592	4,097	--
Secondary School Students, Male	771	2,890	27.0	1,787	1,987	2,356	2,821	3,349	3,882	4,228	--
NSLP Participants	462	2,908	23.8	2,128	2,280	2,550	2,875	3,229	3,577	3,800	--
NSLP Nonparticipants	309	2,869	57.3	1,457 ~	1,684	2,132	2,741	3,469	4,223	4,716 ~	--
Secondary School Students, Female	811	2,099	26.3	1,035	1,215	1,560	2,013	2,544	3,095	3,460	--
NSLP Participants	393	2,287	39.4	1,179	1,366	1,724	2,194	2,749	3,327	3,711	--
NSLP Nonparticipants	418	1,945	33.6	953	1,125	1,451	1,873	2,361	2,860	3,186	--

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

AI = Adequate Intake.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

TABLE J.33

USUAL DAILY SODIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Sodium Intakes (mg)										UL ¹			
	N	Mean	SE	Percentiles						AI	UL	% Above	SE	
				5	10	25	50	75	90					95
By Age/Gender Group														
6 to 8 Years ²	343	3,125	42.4	1,998	2,211	2,586	3,042	3,570	4,140	4,537	1,200	1,900	96.5 ~	3.47
NSLP Participants	250	3,119	48.6	1,977 ~	2,197	2,586	3,054	3,579	4,120	4,483 ~	1,200	1,900	96.2 ~	4.14
NSLP Nonparticipants	93	3,139	87.8	2,003 ~	2,203 ~	2,562	3,016	3,573	4,218 ~	4,693 ~	1,200	1,900	96.7 ~	6.36
9 to 13 Years	953	3,411	29.3	2,149	2,368	2,774	3,298	3,924	4,597	5,060	1,500	2,200	94.0	2.99
NSLP Participants	633	3,478	37.1	2,140	2,381	2,821	3,377	4,023	4,702	5,162	1,500	2,200	94.0	2.96
NSLP Nonparticipants	320	3,265	43.3	2,207	2,387	2,720	3,158	3,693	4,282	4,691	1,500	2,200	95.2 ~	8.33
9 to 13 Years, Male	469	3,561	33.7	2,504	2,693	3,043	3,487	3,998	4,525	4,873	1,500	2,200	>97 ~	
NSLP Participants	326	3,590	46.3	2,371	2,590	2,997	3,510	4,093	4,690	5,085	1,500	2,200	>97 ~	
NSLP Nonparticipants	143	3,503	73.9	2,344 ~	2,529 ~	2,883	3,362	3,965	4,651 ~	5,144 ~	1,500	2,200	>97 ~	
9 to 13 Years, Female	484	3,259	41.7	1,955	2,192	2,621	3,156	3,780	4,450	4,914	1,500	2,200	89.8	4.51
NSLP Participants	307	3,362	53.0	2,024 ~	2,269	2,712	3,263	3,901	4,575	5,035 ~	1,500	2,200	91.6	5.01
NSLP Nonparticipants	177	3,045	69.3	1,828 ~	2,041	2,410	2,892	3,526	4,258	4,774 ~	1,500	2,200	84.5	8.17
14 to 18 Years	1,018	3,584	39.2	1,863	2,163	2,714	3,419	4,266	5,204	5,868	1,500	2,300	86.9	3.04
NSLP Participants	503	3,797	45.5	2,361	2,621	3,090	3,677	4,368	5,119	5,644	1,500	2,300	95.8	3.90
NSLP Nonparticipants	515	3,402	61.8	1,527	1,834	2,417	3,191	4,147	5,227	6,000	1,500	2,300	78.5	3.60
14 to 18 Years, Male	506	4,293	48.9	2,721	3,005	3,521	4,171	4,928	5,731	6,280	1,500	2,300	>97 ~	
NSLP Participants	282	4,311	45.8	3,182 ~	3,393	3,772	4,240	4,772	5,318	5,682 ~	1,500	2,300	>97 ~	
NSLP Nonparticipants	224	4,284	100.5	2,194 ~	2,537	3,201	4,088	5,152	6,282	7,043 ~	1,500	2,300	93.7 ~	5.34
14 to 18 Years, Female	512	2,922	40.3	1,600	1,846	2,287	2,831	3,453	4,110	4,558	1,500	2,300	74.5	4.40
NSLP Participants	221	3,150	57.6	1,899 ~	2,138	2,559	3,068	3,648	4,261	4,682 ~	1,500	2,300	85.2	7.64
NSLP Nonparticipants	291	2,774	53.4	1,465 ~	1,702	2,134	2,675	3,302	3,966	4,419 ~	1,500	2,300	67.7	5.19
All Students	2,314	3,404	21.3	1,995	2,239	2,683	3,269	3,977	4,740	5,270	--	--	91.8	1.89
NSLP Participants	1,386	3,464	25.4	2,127	2,369	2,807	3,355	3,996	4,689	5,172	--	--	95.0	2.01
NSLP Nonparticipants	928	3,311	36.4	1,829	2,073	2,521	3,147	3,927	4,754	5,341	--	--	86.3	3.45
All Students, Male	1,143	3,746	28.8	2,384	2,624	3,064	3,626	4,293	5,016	5,520	--	--	>97	
NSLP Participants	733	3,700	32.8	2,427	2,660	3,080	3,604	4,212	4,856	5,297	--	--	>97 ~	
NSLP Nonparticipants	410	3,847	58.6	2,268	2,526	3,016	3,668	4,476	5,385	6,035	--	--	96.8 ~	4.50
All Students, Female	1,171	3,067	25.8	1,800	2,035	2,454	2,972	3,575	4,217	4,658	--	--	85.9	2.87
NSLP Participants	653	3,200	34.1	1,947	2,181	2,597	3,108	3,700	4,331	4,766	--	--	91.5	3.57
NSLP Nonparticipants	518	2,890	38.8	1,657	1,879	2,268	2,784	3,401	4,037	4,474	--	--	77.3	4.20
By School Type														
Elementary School Students	732	3,327	31.6	2,137	2,345	2,726	3,219	3,810	4,443	4,881	--	--	96.4	2.64
NSLP Participants	531	3,348	38.3	2,072	2,310	2,734	3,257	3,860	4,499	4,937	--	--	95.6	2.66
NSLP Nonparticipants	201	3,330	38.1	2,544 ~	2,691	2,954	3,278	3,647	4,032	4,293 ~	--	--	>97 ~	

TABLE J.33

USUAL DAILY SODIUM INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Sodium Intakes (mg)										UL ¹			
	N	Mean	SE	Percentiles						AI	UL	% Above	SE	
				5	10	25	50	75	90					95
By School Type														
Elementary School Students, Male	372	3,454	44.6	2,249	2,464	2,855	3,350	3,936	4,572	5,016	--	--	>97 ~	
NSLP Participants	271	3,448	52.1	2,170 ~	2,406	2,838	3,376	3,980	4,583	4,973 ~	--	--	96.9 ~	3.59
NSLP Nonparticipants	101	3,473	95.6	2,264 ~	2,446 ~	2,802	3,299	3,948	4,712 ~	5,275 ~	--	--	>97 ~	
Elementary School Students, Female	360	3,198	40.1	2,092	2,306	2,676	3,124	3,634	4,178	4,556	--	--	95.9 ~	4.10
NSLP Participants	260	3,241	54.6	1,982 ~	2,217	2,634	3,145	3,738	4,381	4,829 ~	--	--	94.5 ~	3.95
NSLP Nonparticipants	100	3,090	66.3	2,120 ~	2,311 ~	2,639	3,029	3,470	3,942 ~	4,272 ~	--	--	95.0 ~	12.20
Middle School Students	787	3,229	33.4	1,915	2,144	2,567	3,112	3,765	4,465	4,941	--	--	87.9	4.21
NSLP Participants	497	3,372	42.2	1,998	2,243	2,700	3,281	3,944	4,618	5,057	--	--	90.6	4.98
NSLP Nonparticipants	290	3,020	51.7	1,824 ~	2,032	2,410	2,896	3,488	4,156	4,635 ~	--	--	83.2	7.91
Middle School Students, Male	386	3,532	35.5	2,500	2,690	3,037	3,470	3,959	4,453	4,775	--	--	>97 ~	
NSLP Participants	270	3,616	45.6	2,498 ~	2,706	3,084	3,554	4,080	4,606	4,946 ~	--	--	>97 ~	
NSLP Nonparticipants	116	3,374	39.8	2,723 ~	2,848 ~	3,073	3,345	3,644	3,938 ~	4,126 ~	--	--	>97 ~	
Middle School Students, Female	401	2,957	48.2	1,607	1,846	2,282	2,838	3,497	4,214	4,714	--	--	77.5	4.77
NSLP Participants	227	3,108	67.7	1,656 ~	1,903	2,374	2,990	3,713	4,463	4,961 ~	--	--	80.2	6.54
NSLP Nonparticipants	174	2,777	64.1	1,582 ~	1,803	2,196	2,679	3,247	3,871	4,310 ~	--	--	73.2	6.81
High School Students	795	3,659	47.6	1,833	2,149	2,729	3,472	4,375	5,392	6,123	--	--	86.8	3.10
NSLP Participants	358	3,872	57.6	2,376	2,636	3,115	3,727	4,465	5,282	5,862	--	--	96.0 ~	4.18
NSLP Nonparticipants	437	3,494	70.5	1,522	1,848	2,463	3,274	4,273	5,406	6,221	--	--	79.6	3.72
High School Students, Male	385	4,436	66.1	2,634	2,953	3,534	4,271	5,150	6,118	6,800	--	--	>97 ~	
NSLP Participants	192	4,443	60.7	3,236 ~	3,454	3,852	4,353	4,934	5,544	5,957 ~	--	--	>97 ~	
NSLP Nonparticipants	193	4,447	113.7	2,273 ~	2,647	3,340	4,235	5,315	6,509	7,348 ~	--	--	94.8 ~	5.00
High School Students, Female	410	2,946	46.7	1,586	1,838	2,290	2,846	3,489	4,174	4,647	--	--	74.7	4.65
NSLP Participants	166	3,173	66.9	1,915 ~	2,140	2,557	3,089	3,697	4,316	4,721 ~	--	--	85.1	8.58
NSLP Nonparticipants	244	2,807	60.9	1,446 ~	1,693	2,142	2,701	3,352	4,048	4,528 ~	--	--	68.3	5.41
Secondary School Students	1,582	3,485	29.2	1,887	2,164	2,675	3,332	4,120	4,990	5,604	--	--	87.6	2.54
NSLP Participants	855	3,630	35.3	2,176	2,434	2,907	3,507	4,214	4,976	5,505	--	--	93.7	3.25
NSLP Nonparticipants	727	3,337	47.1	1,638	1,922	2,452	3,148	4,005	4,979	5,681	--	--	80.9	3.44
Secondary School Students, Male	771	4,067	37.5	2,587	2,850	3,334	3,948	4,667	5,431	5,953	--	--	>97 ~	
NSLP Participants	462	4,045	41.4	2,747	2,981	3,413	3,958	4,583	5,220	5,639	--	--	>97 ~	
NSLP Nonparticipants	309	4,083	69.8	2,344 ~	2,640	3,203	3,938	4,805	5,711	6,316 ~	--	--	96.6 ~	5.08
Secondary School Students, Female	811	2,950	33.2	1,603	1,847	2,290	2,843	3,489	4,182	4,661	--	--	75.8	3.31
NSLP Participants	393	3,139	48.1	1,779	2,023	2,469	3,033	3,690	4,388	4,864	--	--	82.8	5.13
NSLP Nonparticipants	418	2,792	44.8	1,483	1,723	2,155	2,692	3,315	3,983	4,444	--	--	69.7	4.12

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

AI = Adequate Intake; UL = Tolerable Upper Intake Level.

TABLE J.34

USUAL DAILY ZINC INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Zinc Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	10.9	0.20	6.2	7.0	8.4	10.3	12.6	15.5	17.6	4.0	<3 ~	
NSLP Participants	250	10.5	0.18	6.6 ~	7.3	8.5	10.1	12.0	14.1	15.5 ~	4.0	<3 ~	
NSLP Nonparticipants	93	12.1	0.56	5.9 ~	6.7 ~	8.4	10.9	14.5	18.9 ~	22.3 ~	4.0	<3 ~	
9 to 13 Years	953	11.5	0.11	7.0	7.7	9.2	11.0	13.3	15.8	17.6	7.0	5.2 ~	3.25
NSLP Participants	633	11.7	0.12	7.6	8.3	9.6	11.3	13.3	15.5	17.0	7.0	<3 ~	
NSLP Nonparticipants	320	11.2	0.23	5.9	6.7	8.3	10.5	13.3	16.4	18.7	7.0	12.3 ~	7.15
9 to 13 Years, Male	469	12.4	0.12	8.5	9.2	10.5	12.1	14.0	16.0	17.3	7.0	<3 ~	
NSLP Participants	326	12.4	0.08	10.2	10.6	11.4	12.3	13.3	14.3	15.0	7.0	<3 ~	
NSLP Nonparticipants	143	12.5	0.33	6.8 ~	7.8 ~	9.7	12.1	14.9	17.7 ~	19.5 ~	7.0	6.0 ~	9.25
9 to 13 Years, Female	484	10.5	0.16	6.1	6.8	8.1	9.9	12.2	14.9	17.0	7.0	11.9 ~	5.31
NSLP Participants	307	10.9	0.20	6.2 ~	7.0	8.4	10.3	12.7	15.5	17.5 ~	7.0	9.9 ~	5.25
NSLP Nonparticipants	177	9.8	0.27	5.5 ~	6.2	7.4	9.2	11.4	14.2	16.5 ~	7.0	19.2 ~	10.70
14 to 18 Years	1,018	12.1	0.16	5.3	6.3	8.4	11.3	15.0	19.0	21.8	--	18.5	3.44
NSLP Participants	503	12.7	0.19	6.8	7.8	9.7	12.2	15.2	18.5	20.7	--	9.0 ~	6.11
NSLP Nonparticipants	515	11.6	0.26	4.3	5.3	7.4	10.5	14.6	19.3	22.6	--	26.1	3.70
14 to 18 Years, Male	506	14.9	0.22	8.0	9.1	11.3	14.2	17.8	21.5	24.1	8.5	7.1 ~	5.00
NSLP Participants	282	14.4	0.22	9.1 ~	10.0	11.7	14.0	16.6	19.4	21.2 ~	8.5	<3 ~	
NSLP Nonparticipants	224	15.5	0.47	6.3 ~	7.6	10.4	14.3	19.3	24.9	28.7 ~	8.5	14.4 ~	5.61
14 to 18 Years, Female	512	9.6	0.15	4.7	5.5	7.0	9.1	11.6	14.2	16.0	7.3	28.0	4.74
NSLP Participants	221	10.6	0.24	5.6 ~	6.5	8.1	10.2	12.7	15.3	17.1 ~	7.3	16.6 ~	9.70
NSLP Nonparticipants	291	8.8	0.20	4.2 ~	4.9	6.4	8.4	10.8	13.3	15.0 ~	7.3	36.2	4.80
All Students	2,314	11.6	0.08	6.2	7.1	8.7	10.9	13.7	16.8	19.1	--	8.7	1.71
NSLP Participants	1,386	11.6	0.09	7.1	7.9	9.3	11.1	13.4	15.9	17.7	--	4.0 ~	1.79
NSLP Nonparticipants	928	11.5	0.17	5.0	6.0	7.9	10.6	14.1	18.1	21.1	--	16.6	2.83
All Students, Male	1,143	13.0	0.11	7.7	8.6	10.3	12.5	15.1	18.0	20.0	--	3.2 ~	1.91
NSLP Participants	733	12.6	0.09	8.9	9.6	10.8	12.3	14.1	15.9	17.2	--	<3 ~	
NSLP Nonparticipants	410	13.8	0.29	6.0	7.2	9.6	12.9	17.0	21.4	24.5	--	10.9 ~	3.80
All Students, Female	1,171	10.2	0.10	5.6	6.4	7.8	9.7	12.0	14.6	16.5	--	13.8	2.61
NSLP Participants	653	10.5	0.13	6.1	6.9	8.3	10.1	12.3	14.7	16.4	--	8.5 ~	3.11
NSLP Nonparticipants	518	9.7	0.17	4.9	5.7	7.1	9.1	11.5	14.4	16.6	--	21.8	4.19
By School Type													
Elementary School Students	732	11.2	0.13	6.5	7.3	8.7	10.7	13.0	15.8	17.8	--	4.0 ~	1.71
NSLP Participants	531	11.0	0.12	7.1	7.8	9.0	10.7	12.6	14.7	16.2	--	<3 ~	
NSLP Nonparticipants	201	11.8	0.38	5.4 ~	6.3	8.1	10.6	14.1	18.5	22.0 ~	--	9.5 ~	4.07

TABLE J.34

USUAL DAILY ZINC INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Zinc Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	11.8	0.17	7.0	7.9	9.4	11.4	13.7	16.2	17.8	--	<3 ~	
NSLP Participants	271	11.6	0.15	8.0 ~	8.7	9.8	11.3	13.0	14.7	15.9 ~	--	<3 ~	
NSLP Nonparticipants	101	12.4	0.58	4.6 ~	5.8 ~	8.1	11.4	15.6	20.1 ~	23.3 ~	--	11.5 ~	4.51
Elementary School Students, Female	360	10.6	0.18	6.4	7.1	8.3	10.0	12.2	14.8	16.9	--	5.9 ~	2.83
NSLP Participants	260	10.5	0.19	6.4 ~	7.1	8.4	10.0	12.0	14.3	16.0 ~	--	4.6 ~	2.89
NSLP Nonparticipants	100	11.2	0.48	6.0 ~	6.7 ~	8.2	10.2	13.0	16.8 ~	19.9 ~	--	6.5 ~	6.97
Middle School Students	787	11.2	0.14	6.1	7.0	8.6	10.7	13.3	16.2	18.4	--	11.1 ~	4.87
NSLP Participants	497	12.0	0.18	6.6	7.5	9.2	11.4	14.1	17.3	19.6	--	7.6 ~	4.84
NSLP Nonparticipants	290	10.1	0.20	5.4 ~	6.2	7.6	9.6	12.0	14.6	16.4 ~	--	19.8 ~	8.81
Middle School Students, Male	386	13.0	0.19	7.8	8.6	10.3	12.4	15.0	17.9	20.0	--	3.2 ~	5.00
NSLP Participants	270	13.7	0.22	8.8 ~	9.6	11.2	13.2	15.6	18.3	20.2 ~	--	<3 ~	
NSLP Nonparticipants	116	11.6	0.37	6.3 ~	7.1 ~	8.8	11.1	13.8	16.8 ~	18.9 ~	--	12.9 ~	12.70
Middle School Students, Female	401	9.7	0.15	5.6	6.3	7.6	9.3	11.4	13.6	15.2	--	18.6 ~	7.81
NSLP Participants	227	10.3	0.25	5.3 ~	6.1	7.7	9.7	12.2	15.1	17.2 ~	--	18.3 ~	6.85
NSLP Nonparticipants	174	9.0	0.18	5.6 ~	6.2	7.3	8.7	10.4	12.2	13.3 ~	--	21.7 ~	16.70
High School Students	795	12.4	0.19	5.4	6.4	8.6	11.5	15.3	19.5	22.4	--	17.7	3.77
NSLP Participants	358	12.9	0.19	7.8	8.7	10.4	12.5	15.0	17.6	19.3	--	3.6 ~	8.04
NSLP Nonparticipants	437	12.1	0.31	4.2	5.2	7.4	10.8	15.3	20.5	24.3	--	26.1	3.50
High School Students, Male	385	15.2	0.25	8.5	9.6	11.8	14.6	18.1	21.7	24.1	--	5.2 ~	5.64
NSLP Participants	192	14.4	0.21	10.2 ~	10.9	12.3	14.1	16.2	18.2	19.6 ~	--	<3 ~	
NSLP Nonparticipants	193	16.2	0.51	6.5 ~	8.0	11.0	15.2	20.1	25.4	29.2 ~	--	11.9 ~	5.94
High School Students, Female	410	9.8	0.19	4.5	5.3	7.0	9.2	12.0	14.9	17.0	--	28.6	4.51
NSLP Participants	166	11.0	0.24	6.6 ~	7.3	8.8	10.7	12.9	15.1	16.6 ~	--	9.5 ~	15.60
NSLP Nonparticipants	244	9.0	0.25	3.8 ~	4.6	6.2	8.4	11.1	14.1	16.2 ~	--	37.3	4.27
Secondary School Students	1,582	11.9	0.12	5.8	6.8	8.6	11.2	14.4	18.0	20.6	--	14.3	3.09
NSLP Participants	855	12.5	0.13	7.1	8.0	9.7	11.9	14.6	17.6	19.7	--	6.2 ~	4.39
NSLP Nonparticipants	727	11.4	0.19	4.7	5.7	7.6	10.5	14.1	18.3	21.2	--	23.1	3.59
Secondary School Students, Male	771	14.3	0.16	8.2	9.2	11.1	13.7	16.8	20.2	22.5	--	4.1 ~	3.76
NSLP Participants	462	14.0	0.15	9.5	10.3	11.8	13.7	15.9	18.2	19.7	--	<3 ~	
NSLP Nonparticipants	309	14.7	0.35	6.5 ~	7.8	10.3	13.8	18.1	22.7	26.0 ~	--	11.7 ~	5.65
Secondary School Students, Female	811	9.7	0.12	5.1	5.8	7.3	9.3	11.6	14.2	16.0	--	24.5	4.09
NSLP Participants	393	10.6	0.18	5.6	6.5	8.0	10.1	12.7	15.3	17.1	--	16.6 ~	6.42
NSLP Nonparticipants	418	9.0	0.16	4.5	5.2	6.6	8.6	10.9	13.3	15.0	--	32.6	4.59

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a lunch.

EAR = Estimated Average Requirement.

TABLE J.35

USUAL DAILY FIBER INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Fiber Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	13.9	0.18	8.8	9.8	11.5	13.7	16.0	18.3	19.7	25
NSLP Participants	250	13.8	0.22	8.6 ~	9.6	11.3	13.5	16.0	18.5	20.1 ~	25
NSLP Nonparticipants	93	14.1	0.28	9.6 ~	10.5 ~	12.2	14.0	15.9	17.6 ~	18.6 ~	25
9 to 13 Years	953	14.2	0.13	8.4	9.4	11.3	13.7	16.5	19.5	21.6	--
NSLP Participants	633	14.5	0.16	8.8	9.8	11.7	14.1	16.9	19.9	21.9	--
NSLP Nonparticipants	320	13.4	0.21	7.9	8.9	10.8	13.0	15.6	18.4	20.3	--
9 to 13 Years, Male	469	15.0	0.20	8.8	9.9	11.9	14.5	17.5	20.8	23.0	31
NSLP Participants	326	15.4	0.25	9.1	10.2	12.2	14.9	18.0	21.4	23.7	31
NSLP Nonparticipants	143	14.2	0.26	9.6 ~	10.4 ~	12.0	14.0	16.1	18.4 ~	19.8 ~	31
9 to 13 Years, Female	484	13.3	0.16	8.1	9.1	10.8	12.9	15.4	17.9	19.7	26
NSLP Participants	307	13.6	0.18	8.9 ~	9.8	11.4	13.3	15.5	17.7	19.1 ~	26
NSLP Nonparticipants	177	12.7	0.32	6.6 ~	7.7	9.7	12.2	15.0	18.1	20.4 ~	26
14 to 18 Years	1,018	14.0	0.17	6.5	7.7	10.1	13.3	17.2	21.3	24.1	--
NSLP Participants	503	14.5	0.21	7.8	8.9	11.1	13.9	17.2	20.7	23.1	--
NSLP Nonparticipants	515	13.7	0.26	5.7	7.0	9.4	12.8	17.0	21.6	24.7	--
14 to 18 Years, Male	506	16.2	0.20	9.8	11.0	13.1	15.8	18.9	22.0	24.1	38
NSLP Participants	282	16.1	0.18	11.4 ~	12.3	13.9	15.8	18.0	20.1	21.5 ~	38
NSLP Nonparticipants	224	16.4	0.34	9.0 ~	10.3	12.7	15.8	19.5	23.3	25.8 ~	38
14 to 18 Years, Female	512	12.0	0.23	5.0	6.1	8.3	11.3	14.9	18.9	21.5	26
NSLP Participants	221	12.5	0.33	5.8 ~	6.9	8.9	11.7	15.3	19.1	21.5 ~	26
NSLP Nonparticipants	291	11.7	0.30	4.5 ~	5.7	7.9	11.0	14.7	18.7	21.3 ~	26
All Students	2,314	14.1	0.09	7.7	8.8	10.9	13.5	16.6	20.0	22.2	--
NSLP Participants	1,386	14.3	0.11	8.4	9.4	11.4	13.8	16.7	19.8	21.9	--
NSLP Nonparticipants	928	13.7	0.16	6.7	7.9	10.2	13.1	16.5	20.1	22.6	--
All Students, Male	1,143	15.3	0.13	9.1	10.2	12.2	14.8	17.8	20.9	23.0	--
NSLP Participants	733	15.4	0.15	9.4	10.5	12.4	14.9	17.8	20.8	22.8	--
NSLP Nonparticipants	410	15.1	0.21	9.0	10.1	12.1	14.7	17.6	20.7	22.7	--
All Students, Female	1,171	12.9	0.12	6.7	7.8	9.9	12.4	15.4	18.5	20.5	--
NSLP Participants	653	13.2	0.15	7.7	8.6	10.5	12.8	15.4	18.1	19.9	--
NSLP Nonparticipants	518	12.5	0.21	5.6	6.8	9.1	11.9	15.3	18.8	21.3	--
By School Type											
Elementary School Students	732	14.4	0.12	9.4	10.4	12.0	14.1	16.4	18.8	20.3	--
NSLP Participants	531	14.4	0.16	9.0	9.9	11.7	14.0	16.7	19.4	21.3	--
NSLP Nonparticipants	201	14.3	0.13	11.4 ~	12.0	13.0	14.3	15.5	16.7	17.5 ~	--

TABLE J.35

USUAL DAILY FIBER INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Fiber Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	15.0	0.22	8.7	9.8	11.9	14.6	17.7	20.8	22.8	--
NSLP Participants	271	15.3	0.30	8.4 ~	9.6	11.8	14.7	18.1	21.8	24.3 ~	--
NSLP Nonparticipants	101	14.3	0.45	7.5 ~	8.8 ~	11.1	14.0	17.2	20.4 ~	22.4 ~	--
Elementary School Students, Female	360	13.7	0.12	10.2	10.9	12.1	13.6	15.1	16.7	17.7	--
NSLP Participants	260	13.5	0.13	10.2 ~	10.9	12.0	13.4	14.9	16.4	17.3 ~	--
NSLP Nonparticipants	100	14.1	0.32	9.3 ~	10.3 ~	12.0	13.9	16.1	18.2 ~	19.7 ~	--
Middle School Students	787	13.0	0.16	6.8	7.8	9.8	12.4	15.6	18.9	21.3	--
NSLP Participants	497	13.7	0.20	7.4	8.4	10.4	13.1	16.3	19.6	21.9	--
NSLP Nonparticipants	290	12.0	0.26	5.8 ~	6.9	8.9	11.5	14.6	17.8	20.0 ~	--
Middle School Students, Male	386	14.0	0.22	8.0	9.0	10.9	13.4	16.3	19.6	21.9	--
NSLP Participants	270	14.5	0.26	8.6 ~	9.6	11.5	13.9	16.9	20.0	22.2 ~	--
NSLP Nonparticipants	116	12.9	0.39	7.1 ~	8.1 ~	9.9	12.4	15.3	18.4 ~	20.5 ~	--
Middle School Students, Female	401	12.1	0.21	6.1	7.1	9.1	11.6	14.7	17.9	19.9	--
NSLP Participants	227	12.7	0.27	7.0 ~	7.9	9.7	12.1	15.2	18.4	20.4 ~	--
NSLP Nonparticipants	174	11.4	0.30	5.5 ~	6.6	8.6	11.1	13.9	16.8	18.6 ~	--
High School Students	795	14.2	0.20	6.5	7.7	10.1	13.4	17.5	21.8	24.7	--
NSLP Participants	358	14.6	0.25	8.0	9.1	11.2	14.0	17.3	20.7	23.0	--
NSLP Nonparticipants	437	14.0	0.30	5.7	7.0	9.5	13.0	17.4	22.2	25.6	--
High School Students, Male	385	16.6	0.22	10.3	11.5	13.6	16.2	19.2	22.3	24.2	--
NSLP Participants	192	16.3	0.12	13.7 ~	14.3	15.2	16.3	17.4	18.5	19.2 ~	--
NSLP Nonparticipants	193	16.9	0.40	9.0 ~	10.3	12.9	16.2	20.2	24.3	27.0 ~	--
High School Students, Female	410	12.0	0.27	4.8	5.9	8.2	11.2	14.9	19.1	22.0	--
NSLP Participants	166	12.4	0.42	5.1 ~	6.2	8.5	11.6	15.4	19.6	22.5 ~	--
NSLP Nonparticipants	244	11.8	0.34	4.6 ~	5.7	8.0	11.0	14.7	18.8	21.7 ~	--
Secondary School Students	1,582	13.7	0.13	6.7	7.9	10.1	13.0	16.6	20.5	23.2	--
NSLP Participants	855	14.1	0.16	7.6	8.7	10.8	13.6	16.8	20.2	22.5	--
NSLP Nonparticipants	727	13.3	0.21	5.9	7.1	9.4	12.5	16.3	20.6	23.6	--
Secondary School Students, Male	771	15.5	0.16	9.1	10.2	12.3	15.0	18.1	21.5	23.8	--
NSLP Participants	462	15.5	0.18	9.9	10.8	12.7	15.0	17.8	20.6	22.5	--
NSLP Nonparticipants	309	15.6	0.30	8.3 ~	9.5	11.9	15.0	18.7	22.6	25.2 ~	--
Secondary School Students, Female	811	12.1	0.17	5.4	6.5	8.6	11.4	14.9	18.6	21.0	--
NSLP Participants	393	12.6	0.23	6.2	7.2	9.2	11.9	15.3	19.0	21.3	--
NSLP Nonparticipants	418	11.7	0.24	4.9	6.1	8.2	11.0	14.4	18.0	20.5	--

¹ The AI is for total fiber (dietary and functional). Intakes include only dietary fiber, so true total fiber intakes are underestimated. The AIs used in this table are based on a standard of 14 grams of fiber/1,000 kilocalories using median energy intakes assessed in national survey data. Table 36 shows fiber consumption on a gram per 1,000 kilocalorie basis, compared to the 14 gram/1,000 kilocalorie standard.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes. ~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

AI = Adequate Intake.

TABLE J.36

USUAL DAILY FIBER INTAKES PER 1,000 KILOCALORIES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Fiber Intakes (g/1,000 kcal) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	7.1	0.07	5.1	5.5	6.2	7.0	7.9	8.9	9.5	14
NSLP Participants	250	7.2	0.08	5.4 ~	5.7	6.3	7.1	7.9	8.7	9.3 ~	14
NSLP Nonparticipants	93	7.0	0.14	4.8 ~	5.2 ~	6.0	6.9	7.9	8.8 ~	9.4 ~	14
9 to 13 Years	953	6.8	0.04	5.0	5.3	6.0	6.7	7.6	8.5	9.1	14
NSLP Participants	633	6.9	0.05	5.2	5.6	6.1	6.8	7.6	8.5	9.1	14
NSLP Nonparticipants	320	6.6	0.07	4.7	5.1	5.7	6.5	7.4	8.3	8.9	14
9 to 13 Years, Male	469	6.8	0.05	5.1	5.4	6.0	6.7	7.5	8.4	8.9	14
NSLP Participants	326	7.0	0.06	5.4	5.7	6.2	6.9	7.6	8.5	9.0	14
NSLP Nonparticipants	143	6.4	0.04	5.7 ~	5.9 ~	6.1	6.4	6.7	7.0 ~	7.2 ~	14
9 to 13 Years, Female	484	6.9	0.05	5.1	5.5	6.0	6.7	7.6	8.4	9.0	14
NSLP Participants	307	6.9	0.07	5.2 ~	5.5	6.1	6.8	7.6	8.5	9.0 ~	14
NSLP Nonparticipants	177	6.8	0.11	4.7 ~	5.1	5.8	6.6	7.6	8.7	9.3 ~	14
14 to 18 Years	1,018	6.6	0.06	4.0	4.4	5.3	6.3	7.6	9.0	9.9	14
NSLP Participants	503	6.3	0.07	4.0	4.4	5.2	6.1	7.2	8.5	9.4	14
NSLP Nonparticipants	515	6.8	0.09	4.0	4.5	5.3	6.5	7.9	9.3	10.4	14
14 to 18 Years, Male	506	6.2	0.05	4.5	4.8	5.4	6.1	7.0	7.8	8.4	14
NSLP Participants	282	6.1	0.08	4.3 ~	4.6	5.2	6.0	6.9	7.8	8.5 ~	14
NSLP Nonparticipants	224	6.4	0.07	4.9 ~	5.2	5.7	6.3	7.0	7.7	8.1 ~	14
14 to 18 Years, Female	512	6.9	0.11	3.6	4.2	5.2	6.5	8.1	10.0	11.3	14
NSLP Participants	221	6.6	0.14	3.6 ~	4.2	5.2	6.3	7.7	9.2	10.3 ~	14
NSLP Nonparticipants	291	7.1	0.17	3.5 ~	4.1	5.2	6.6	8.3	10.3	11.9 ~	14
All Students	2,314	6.8	0.03	4.6	5.0	5.7	6.6	7.7	8.8	9.5	14
NSLP Participants	1,386	6.8	0.04	4.9	5.2	5.9	6.7	7.7	8.7	9.3	14
NSLP Nonparticipants	928	6.8	0.06	4.3	4.7	5.5	6.6	7.8	9.0	9.8	14
All Students, Male	1,143	6.7	0.04	4.9	5.2	5.8	6.6	7.4	8.3	8.8	14
NSLP Participants	733	6.9	0.05	5.1	5.4	6.0	6.7	7.6	8.5	9.1	14
NSLP Nonparticipants	410	6.4	0.04	5.0	5.3	5.7	6.3	6.9	7.5	7.9	14
All Students, Female	1,171	6.9	0.05	4.4	4.9	5.7	6.7	7.9	9.3	10.2	14
NSLP Participants	653	6.8	0.06	4.7	5.1	5.8	6.7	7.7	8.8	9.5	14
NSLP Nonparticipants	518	7.1	0.10	4.0	4.6	5.5	6.7	8.3	10.0	11.2	14
By School Type											
Elementary School Students	732	7.1	0.05	5.0	5.3	6.0	6.9	8.0	9.0	9.7	14
NSLP Participants	531	7.1	0.06	5.2	5.5	6.1	7.0	7.9	9.0	9.7	14
NSLP Nonparticipants	201	6.9	0.09	5.0 ~	5.4	6.1	6.9	7.7	8.5	9.1 ~	14

TABLE J.36

USUAL DAILY FIBER INTAKES PER 1,000 KILOCALORIES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Fiber Intakes (g/1,000 kcal) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	7.1	0.09	4.6	5.1	5.9	6.8	8.0	9.4	10.2	14
NSLP Participants	271	7.3	0.10	5.0 ~	5.4	6.1	7.1	8.2	9.5	10.3 ~	14
NSLP Nonparticipants	101	6.5	0.15	4.2 ~	4.6 ~	5.4	6.4	7.4	8.5 ~	9.1 ~	14
Elementary School Students, Female	360	7.1	0.07	5.3	5.6	6.2	7.0	7.9	8.7	9.3	14
NSLP Participants	260	7.0	0.07	5.2 ~	5.5	6.1	6.8	7.7	8.5	9.1 ~	14
NSLP Nonparticipants	100	7.4	0.15	5.0 ~	5.4 ~	6.3	7.3	8.4	9.4 ~	10.0 ~	14
Middle School Students	787	6.5	0.04	4.9	5.2	5.7	6.4	7.2	8.0	8.6	14
NSLP Participants	497	6.7	0.05	5.1	5.4	5.9	6.6	7.3	8.0	8.5	14
NSLP Nonparticipants	290	6.4	0.08	4.4 ~	4.7	5.4	6.3	7.2	8.3	8.9 ~	14
Middle School Students, Male	386	6.4	0.04	5.3	5.5	5.9	6.3	6.8	7.3	7.6	14
NSLP Participants	270	6.4	0.04	5.3 ~	5.6	5.9	6.4	6.9	7.4	7.7 ~	14
NSLP Nonparticipants	116	6.2	0.05	5.4 ~	5.6 ~	5.9	6.2	6.6	6.9 ~	7.1 ~	14
Middle School Students, Female	401	6.7	0.07	4.6	5.0	5.7	6.6	7.6	8.6	9.3	14
NSLP Participants	227	6.9	0.08	5.1 ~	5.4	6.0	6.8	7.6	8.5	9.0 ~	14
NSLP Nonparticipants	174	6.5	0.13	4.1 ~	4.5	5.3	6.3	7.5	8.7	9.5 ~	14
High School Students	795	6.5	0.07	3.9	4.3	5.2	6.3	7.5	8.9	9.9	14
NSLP Participants	358	6.2	0.09	3.7	4.2	5.0	6.0	7.1	8.4	9.3	14
NSLP Nonparticipants	437	6.8	0.10	4.0	4.5	5.4	6.5	7.9	9.3	10.4	14
High School Students, Male	385	6.2	0.05	4.6	4.9	5.5	6.1	6.9	7.6	8.1	14
NSLP Participants	192	6.1	0.09	4.2 ~	4.5	5.2	6.0	6.9	7.8	8.4 ~	14
NSLP Nonparticipants	193	6.4	0.05	5.3 ~	5.5	5.9	6.3	6.8	7.3	7.5 ~	14
High School Students, Female	410	6.8	0.13	3.4	4.0	5.1	6.4	8.0	10.0	11.5	14
NSLP Participants	166	6.3	0.17	3.3 ~	3.8	4.9	6.1	7.5	9.1	10.3 ~	14
NSLP Nonparticipants	244	7.1	0.19	3.4 ~	4.0	5.2	6.6	8.4	10.4	12.0 ~	14
Secondary School Students	1,582	6.5	0.04	4.3	4.7	5.4	6.4	7.4	8.6	9.3	14
NSLP Participants	855	6.4	0.05	4.5	4.8	5.5	6.3	7.2	8.2	8.8	14
NSLP Nonparticipants	727	6.6	0.07	4.1	4.6	5.4	6.4	7.6	9.0	9.9	14
Secondary School Students, Male	771	6.3	0.03	4.9	5.1	5.6	6.2	6.9	7.5	7.9	14
NSLP Participants	462	6.2	0.05	4.7	5.0	5.5	6.2	6.9	7.6	8.1	14
NSLP Nonparticipants	309	6.3	0.03	5.4 ~	5.6	5.9	6.3	6.7	7.1	7.3 ~	14
Secondary School Students, Female	811	6.8	0.07	4.0	4.5	5.3	6.5	7.9	9.4	10.6	14
NSLP Participants	393	6.6	0.08	4.2	4.6	5.4	6.4	7.6	8.8	9.6	14
NSLP Nonparticipants	418	6.9	0.12	3.7	4.2	5.2	6.5	8.1	9.9	11.3	14

¹ The AI is for total fiber (dietary and functional). Intakes include only dietary fiber, so true total fiber intakes are underestimated. The age- and gender-specific AIs used in Table 35 are based on an assumption of 14 grams of fiber/1,000 kilocalories using median energy intakes in national survey data. This table shows fiber consumption on a gram per 1,000 kilocalories basis, compared to the 14 gram/1,000 kilocalorie standard.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes. ~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

AI = Adequate Intake.

TABLE J.37

USUAL DAILY CHOLESTEROL INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS

	Cholesterol Intakes (mg)										DGA (<300 mg) ¹	
	N	Mean	SE	Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By Age/Gender Group												
6 to 8 Years ²	343	185	3.3	103	117	142	176	218	265	298	4.8 ~	5.9
NSLP Participants	250	184	3.2	113 ~	125	149	178	213	251	277 ~	<3 ~	
NSLP Nonparticipants	93	186	8.7	85 ~	98 ~	127	169	226	294 ~	344 ~	9.2 ~	8.6
9 to 13 Years	953	214	1.8	139	152	175	206	244	286	316	7.3 ~	11.5
NSLP Participants	633	210	2.3	128	142	169	203	244	287	316	7.4 ~	7.6
NSLP Nonparticipants	320	228	4.5	129	144	172	212	266	331	380	15.4 ~	29.0
9 to 13 Years, Male	469	236	3.2	146	160	187	224	271	326	365	15.6 ~	22.1
NSLP Participants	326	217	1.5	176	184	199	215	234	251	263	<3 ~	
NSLP Nonparticipants	143	291	10.2	148 ~	168 ~	207	265	345	446 ~	523 ~	37.3 ~	30.0
9 to 13 Years, Female	484	192	2.2	120	133	158	188	222	258	281	<3 ~	
NSLP Participants	307	203	3.4	116 ~	131	160	197	239	283	311 ~	6.6 ~	8.4
NSLP Nonparticipants	177	171	1.9	131 ~	139	153	170	188	205	215 ~	<3 ~	
14 to 18 Years	1,018	230	3.3	96	116	156	212	283	365	424	20.8	3.6
NSLP Participants	503	241	3.8	128	146	182	229	287	352	397	21.0 ~	7.2
NSLP Nonparticipants	515	219	5.1	75	95	137	197	276	370	440	20.0	4.2
14 to 18 Years, Male	506	283	3.4	174	193	228	274	328	384	422	36.6	8.4
NSLP Participants	282	286	1.4	249 ~	256	270	285	302	318	328 ~	27.5 ~	148.0
NSLP Nonparticipants	224	280	7.4	132 ~	155	200	263	342	428	488 ~	36.9	7.3
14 to 18 Years, Female	512	180	3.9	68	85	119	165	223	292	343	9.0 ~	3.5
NSLP Participants	221	185	5.1	80 ~	97	130	174	228	286	324 ~	7.8 ~	5.1
NSLP Nonparticipants	291	176	5.7	57 ~	74	109	158	222	300	359 ~	10.0 ~	4.5
All Students	2,314	213	1.7	110	126	157	199	253	317	365	12.8	3.5
NSLP Participants	1,386	211	1.7	123	138	166	203	247	295	328	9.1 ~	5.0
NSLP Nonparticipants	928	217	3.6	94	111	145	193	261	348	418	16.5	4.9
All Students, Male	1,143	241	1.5	169	181	205	235	271	307	332	12.2 ~	19.1
NSLP Participants	733	228	1.2	178	188	205	226	248	270	285	<3 ~	
NSLP Nonparticipants	410	270	4.4	156	174	208	255	316	385	436	30.3 ~	16.7
All Students, Female	1,171	186	2.1	90	106	136	175	224	278	317	6.8 ~	2.9
NSLP Participants	653	193	2.6	101	117	146	185	230	280	314	6.7 ~	4.1
NSLP Nonparticipants	518	176	3.4	76	91	121	162	214	276	322	6.9 ~	4.0
By School Type												
Elementary School Students	732	210	3.0	111	126	155	195	246	310	358	11.5 ~	6.3
NSLP Participants	531	201	2.8	114	128	156	193	237	285	318	7.3 ~	6.1
NSLP Nonparticipants	201	232	8.4	112 ~	127	157	202	271	367	449 ~	18.8 ~	18.3

TABLE J.37

USUAL DAILY CHOLESTEROL INTAKES: NSLP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Cholesterol Intakes (mg)										DGA (<300 mg) ¹	
	N	Mean	SE	Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By School Type												
Elementary School Students, Male	372	226	3.7	134	148	176	215	263	319	360	13.7 ~	19.4
NSLP Participants	271	202	3.5	121 ~	134	160	195	235	279	308 ~	6.1 ~	11.4
NSLP Nonparticipants	101	314	14.7	147 ~	169 ~	214	282	377	498 ~	592 ~	44.1 ~	15.2
Elementary School Students, Female	360	196	3.4	109	124	151	187	230	279	314	6.6 ~	6.1
NSLP Participants	260	201	3.9	114 ~	129	157	193	236	283	315 ~	7.0 ~	7.4
NSLP Nonparticipants	100	186	5.7	110 ~	123 ~	147	178	215	258 ~	289 ~	3.9 ~	14.0
Middle School Students	787	196	2.0	117	130	156	189	228	269	297	4.7 ~	6.5
NSLP Participants	497	206	2.7	122	136	163	199	240	284	313	6.9 ~	8.7
NSLP Nonparticipants	290	181	3.0	109 ~	121	145	175	211	248	274 ~	<3 ~	
Middle School Students, Male	386	226	3.2	139	153	181	217	261	308	341	11.9 ~	15.7
NSLP Participants	270	234	3.7	149 ~	163	191	226	269	315	345 ~	13.6 ~	17.9
NSLP Nonparticipants	116	208	5.9	121 ~	136 ~	163	200	244	291 ~	324 ~	8.3 ~	29.3
Middle School Students, Female	401	169	3.2	80	95	122	159	205	254	288	3.9 ~	4.3
NSLP Participants	227	174	4.5	78 ~	94	124	165	214	265	299 ~	4.9 ~	5.5
NSLP Nonparticipants	174	163	4.6	81 ~	94	119	154	196	243	275 ~	<3 ~	
High School Students	795	234	3.5	104	125	164	218	286	363	419	21.2	4.7
NSLP Participants	358	245	4.1	139	156	190	235	290	347	387	21.4 ~	10.2
NSLP Nonparticipants	437	225	5.4	82	103	145	204	281	371	437	20.7	5.1
High School Students, Male	385	290	3.4	192	210	242	283	330	378	409	40.0	10.4
NSLP Participants	192	291	4.4	201 ~	218	247	285	328	372	402 ~	40.4 ~	15.8
NSLP Nonparticipants	193	289	7.4	149 ~	171	215	275	347	426	479 ~	40.1	8.0
High School Students, Female	410	182	4.0	75	92	125	169	224	287	334	8.3 ~	4.4
NSLP Participants	166	189	5.2	96 ~	111	141	181	228	278	311 ~	6.3 ~	7.1
NSLP Nonparticipants	244	177	5.9	61 ~	79	113	160	221	295	350 ~	9.4 ~	5.3
Secondary School Students	1,582	218	2.0	109	127	160	206	262	325	369	14.6	4.2
NSLP Participants	855	226	2.2	135	151	180	218	264	313	346	12.8 ~	8.3
NSLP Nonparticipants	727	210	3.5	90	108	144	194	258	332	385	15.0 ~	5.1
Secondary School Students, Male	771	264	1.1	216	226	242	262	284	304	318	12.4 ~	60.9
NSLP Participants	462	264	1.3	220	229	244	263	282	301	313	10.5 ~	78.5
NSLP Nonparticipants	309	264	2.9	188 ~	202	228	259	295	330	353 ~	22.1 ~	42.5
Secondary School Students, Female	811	176	2.6	77	93	124	165	216	273	315	6.4 ~	3.2
NSLP Participants	393	181	3.4	86	102	133	173	221	271	305	5.5 ~	4.4
NSLP Nonparticipants	418	172	3.9	68	84	115	158	212	276	322	7.0 ~	4.4

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

DGA = Recommendation from the Dietary Guidelines for Americans.

APPENDIX K

**FOOD SOURCES OF NUTRIENTS: NATIONAL SCHOOL LUNCH
PROGRAM PARTICIPANTS AND NONPARTICIPANTS**

TABLE K.1

FOOD SOURCES OF ENERGY, TOTAL FAT, AND SATURATED FAT CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Energy		Total Fat		Saturated Fat	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Pizza and pizza products	11.3	5.5**	12.6	6.5**	14.7	7.6**
1% milk, flavored	6.8	1.1**	9.2	7.0	8.3	5.4
Breaded/fried chicken products	6.5	4.4	6.9	4.1	6.5	5.4
Hamburgers/cheeseburgers	6.1	3.0*	6.4	5.5	5.9	5.1
French fries/potato products	4.9	4.2	5.7	4.3	5.3	0.9**
Mexican-style entrees	4.2	3.6	4.7	2.4**	5.1	10.2**
Cookies, cakes, brownies	4.2	5.0	4.5	5.2	4.3	4.4
Sandwiches with plain meat or poultry	3.7	7.6**	4.2	4.1	3.7	3.4
Condiments and spreads	3.3	2.4*	4.0	7.5*	3.7	4.5
Skim or nonfat milk, flavored	3.2	0.3**	3.5	12.3**	3.4	1.4**
Breaded/fried meat or poultry sandwich	2.7	1.7	3.2	1.5	3.3	1.8
White bread, rolls, bagels	2.6	1.4*	3.1	2.0	3.0	1.9
Peanut butter sandwiches	2.6	9.5**	3.1	0.5**	2.3	1.4
Corn/tortilla chips	2.1	3.4*	3.0	4.8*	2.1	0.7**
Hot dog/corn dog	2.1	1.0	2.1	0.6	2.1	1.2
Juice drinks (not 100% juice)	1.9	5.2**	1.5	4.0**	2.0	7.7**
Candy	1.3	3.8**	1.3	3.6	2.0	1.1**
Crackers and pretzels	1.2	3.2*	1.0	2.9**	1.6	2.8**
Unbreaded poultry/meat/fish	1.0	2.5	0.9	2.8*	1.4	4.1
Snack chips (popcorn, potato chips)	1.0	2.5**	0.3	2.5*	1.3	4.0**
Carbonated sodas	0.7	4.2**			1.2	3.7**
					1.2	3.4
					0.7	2.0*

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.2

FOOD SOURCES OF CARBOHYDRATE AND PROTEIN CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Carbohydrate		Protein		
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Participants	Nonparticipants	
Pizza and pizza products	9.7	4.4**	Pizza and pizza products	12.5	6.4**
1% milk, flavored	8.9	1.5**	Breaded/fried chicken products	10.8	7.8
Skim or nonfat milk, flavored	4.9	0.5**	Hamburgers/cheeseburgers	10.1	5.9*
Cookies, cakes, brownies	4.9	5.8	1% milk, flavored	8.5	1.7**
French fries/potato products	4.9	3.9	Sandwiches with plain meat or poultry	5.6	15.0**
Hamburgers/cheeseburgers	3.9	1.4**	Skim or nonfat milk, flavored	4.8	0.6**
Juice drinks (not 100% juice)	3.8	10.0**	Mexican-style entrees	4.8	5.4
White bread, rolls, bagels	3.6	2.0*	1% milk, unflavored	3.5	1.4**
Condiments and spreads	3.5	1.7**	Breaded/fried meat or poultry sandwich	3.5	2.8
Breaded/fried chicken products	3.0	1.6	2% milk, unflavored	2.8	1.4*
Mexican-style entrees	2.9	2.5	Breaded/fried beef/pork/fish	2.5	0.8
Sandwiches with plain meat or poultry	2.7	5.4**	Unbreaded poultry/meat/fish	2.5	8.3
Fruit juice, 100%	2.6	2.5	Peanut butter sandwiches	2.1	9.3**
Peanut butter sandwiches	2.2	8.1**	Yogurt	0.4	2.0*
Breaded/fried meat or poultry sandwich	2.1	1.1			
Corn/tortilla chips	2.0	3.0*			
Candy	1.8	5.2**			
Crackers and pretzels	1.6	3.7*			
Carbonated sodas	1.4	8.3**			
Snack chips (popcorn, potato chips)	0.8	2.0**			

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

^aIncludes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.3

FOOD SOURCES OF VITAMIN A (RAE), VITAMIN C, AND VITAMIN E CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Vitamin A (RAE)		Vitamin C		Vitamin E		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
1% milk, flavored	19.9	6.9**	Fruit juice, 100%	22.2	17.6	Pizza and pizza products	11.2	3.7**
Pizza and pizza products	12.6	5.5**	Citrus fruit	12.1	6.9	Condiments and spreads	9.1	6.3
Skim or nonfat milk, flavored	10.5	2.2**	Juice drinks (not 100% juice)	9.4	24.4**	Breaded/fried chicken products	8.8	5.0
1% milk, unflavored	8.0	5.3	Condiments and spreads	7.0	5.2	Salad dressings	7.0	3.2**
2% milk, unflavored	6.0	5.2	Peaches	5.6	0.2	Peanut butter sandwiches	6.6	20.2**
Carrots	4.7	8.0	French fries/potato products	4.1	4.2	French fries/potato products	5.6	4.3
Condiments and spreads	4.1	5.5	Berries	3.3	7.0	Corn/tortilla chips	5.0	6.6
2% milk, flavored	2.9	3.9	Pizza and pizza products	2.9	1.4	Mexican-style entrees	4.5	2.9
Mexican-style entrees	2.2	3.3	1% milk, flavored	2.5	0.4**	Snack chips (popcorn, potato chips)	4.0	10.2**
Dairy-based desserts	2.0	3.6	Melons	2.2	0.7	Cookies, cakes, brownies	2.5	2.7
Sandwiches with plain meat or poultry	1.9	7.1**	White potatoes	2.0	0.4*	Hamburgers/cheeseburgers	2.5	1.3*
Skim or nonfat milk, unflavored	1.7	2.3	Broccoli	2.0	0.1*	Breaded/fried meat or poultry sandwich	2.3	1.5
Cheese sandwiches	1.3	2.1	Fruit-based desserts	1.7	8.4**	Peanut butter/nuts/seeds/trail mixes	1.8	5.9
Cookies, cakes, brownies	1.3	3.0*	Snack chips (popcorn, potato chips)	1.0	3.4**	Sandwiches with plain meat or poultry	1.4	2.5*
Hamburgers/cheeseburgers	1.1	2.4*				Candy	1.0	2.1*
Soups	0.8	2.2						
Cheese	0.6	3.7**						
Juice drinks (not 100% juice)	0.3	2.0*						
Grain/fruit cereal bars, granola bars	0.1	2.5**						

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

RAE = Retinol Activity Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.4

FOOD SOURCES OF VITAMIN B₆, VITAMIN B₁₂, AND FOLATE (DFE) CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Vitamin B ₆		Vitamin B ₁₂		Folate (DFE)	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
French fries/potato products	10.0	7.2	16.0	4.5**	14.7	7.9**
Breaded/fried chicken products	9.1	7.0	13.7	11.7	9.5	3.4**
Pizza and pizza products	7.8	3.4**	12.2	2.0**	7.4	4.3
Hamburgers/cheeseburgers	7.4	3.9*	8.1	4.2*	5.8	11.0**
1% milk, flavored	6.1	1.1**	6.9	5.2	4.8	3.2
Condiments and spreads	4.0	3.7	6.8	4.6	4.7	4.9
Mexican-style entrees	4.0	3.7	3.8	5.3	4.1	13.3**
Sandwiches with plain meat or poultry	3.7	9.9**	3.2	1.5	4.1	2.4
Skim or nonfat milk, flavored	3.2	0.4**	3.1	13.3**	3.8	4.5
Breaded/fried meat or poultry sandwich	2.9	2.3	2.9	4.3	2.8	0.5**
1% milk, unflavored	2.5	0.9**	2.4	2.7	2.7	1.2**
Fruit juice, 100%	2.4	2.3	2.4	3.1	2.4	9.0**
Banana	2.4	3.4	2.0	1.9	2.1	1.4
White potatoes	2.3	0.6*	2.0	2.1	1.7	2.4
Peanut butter sandwiches	2.1	8.0**	1.1	2.2	1.5	2.3*
Unbreaded poultry/meat/fish	1.7	2.4	0.7	5.3*	0.3	3.3
Corn/tortilla chips	1.4	2.3*	0.6	2.9*	0.3	3.4*
Snack chips (popcorn, potato chips)	1.3	4.4**	0.1	2.3	0.3	
Crackers and pretzels	0.6	2.4*	0.6		0.3	
Grain/fruit cereal bars, granola bars	0.3	4.3**	0.1		0.3	

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

DFE = Dietary Folate Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.5

FOOD SOURCES OF CALCIUM, IRON, AND MAGNESIUM CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Calcium		Iron		Magnesium	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	18.9	5.3**	14.1	7.6**	10.7	2.0**
Pizza and pizza products	16.6	8.2**	10.7	4.6**	9.6	3.7**
Skim or nonfat milk, flavored	10.4	1.8**	7.2	2.7**	7.9	0.9**
1% milk, unflavored	7.8	4.3	5.2	12.3**	5.1	2.2**
2% milk, unflavored	6.2	4.3	4.8	3.0	4.9	4.0
Hamburgers/cheeseburgers	4.0	4.0	4.7	5.0	4.1	3.0
Mexican-style entrees	3.9	5.2	4.1	5.5	4.0	3.8
Sandwiches with plain meat or poultry	3.9	12.3**	4.0	0.7**	4.0	16.5**
2% milk, flavored	2.9	3.3	3.5	2.1	3.7	1.3**
Dairy-based desserts	1.4	2.3	3.1	10.5**	2.9	1.4**
Peanut butter sandwiches	1.0	5.0**	2.6	0.3**	2.9	7.4**
Cheese	1.0	4.6*	2.6	1.2	2.8	2.3
Yogurt	0.8	6.2*	2.5	2.4	2.2	3.1
Juice drinks (not 100% juice)	0.3	2.3**	2.3	2.2	2.1	3.6*
			2.3	0.5	1.1	2.9**
			2.2	7.3**	1.0	2.7**
			1.5	2.8	0.7	2.3**
			1.2	2.1**	0.6	2.1**
			0.9	2.3**	0.4	2.1*
			0.2	2.5**	0.3	3.4**
					0.3	2.5**

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.6

FOOD SOURCES OF PHOSPHORUS, POTASSIUM, AND SODIUM CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Phosphorus			Potassium			Sodium		
	Percentage Contribution to Lunch Intake			Percentage Contribution to Lunch Intake			Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)
1% milk, flavored	14.6	3.2**	1% milk, flavored	13.1	2.9**	Pizza and pizza products	16.9	7.6**	
Pizza and pizza products	14.6	6.2**	French fries/potato products	8.2	8.2	Condiments and spreads	10.7	6.9**	
Skim or nonfat milk, flavored	8.1	1.1**	Pizza and pizza products	8.1	3.9**	Breaded/fried chicken products	8.4	4.5	
1% milk, unflavored	5.4	2.3**	Skim or nonfat milk, flavored	7.7	1.1**	Sandwiches with plain meat or poultry	6.8	17.1**	
Breaded/fried chicken products	5.4	6.9	Hamburgers/cheeseburgers	4.7	2.5*	Hamburgers/cheeseburgers	5.2	3.5	
Hamburgers/cheeseburgers	5.2	3.5	1% milk, unflavored	4.7	2.0**	Mexican-style entrees	3.9	3.7	
2% milk, unflavored	4.3	2.4*	Condiments and spreads	4.2	3.4	Hot dog/corn dog	3.7	1.7	
Sandwiches with plain meat or poultry	4.0	12.3**	2% milk, unflavored	3.7	2.1	1% milk, flavored	3.6	0.6**	
Mexican-style entrees	4.0	4.5	Breaded/fried chicken products	3.3	4.1	French fries/potato products	3.2	2.6	
2% milk, flavored	2.2	2.7	Fruit juice, 100%	3.3	3.8	Salad dressings	3.2	1.9*	
Cookies, cakes, brownies	1.6	2.0	Mexican-style entrees	2.7	3.1	White bread, rolls, bagels	2.4	1.5	
Peanut butter sandwiches	1.5	7.6**	Sandwiches with plain meat or poultry	2.4	7.1**	Peanut butter sandwiches	2.0	7.2**	
Unbreaded poultry/meat/fish	1.1	3.3	White potatoes	2.0	0.6*	Cookies, cakes, brownies	2.0	2.5	
Cheese	0.6	2.4*	Snack chips (popcorn, potato chips)	1.3	5.4**	Crackers and pretzels	1.9	4.8*	
Yogurt	0.6	3.4*	Peanut butter sandwiches	1.3	6.7**	Corn/tortilla chips	1.6	2.9**	
Crackers and pretzels	0.5	2.2**	Banana	1.2	2.0	Unbreaded poultry/meat/fish	1.4	4.2	
			Unbreaded poultry/meat/fish	0.9	2.2	Soups	0.9	2.0	
			Juice drinks (not 100% juice)	0.9	3.1**				
			Yogurt	0.5	3.1*				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

^aIncludes sandwiches with or without cheese.

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**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.7

FOOD SOURCES OF ZINC, CHOLESTEROL, AND DIETARY FIBER CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Zinc		Cholesterol		Dietary Fiber		
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	
Hamburgers/cheeseburgers	15.0	9.1	17.3	9.4	Pizza and pizza products	9.2	4.5**
Pizza and pizza products	12.2	6.1**	10.9	6.3	French fries/potato products	8.0	7.1
1% milk, flavored	8.4	1.7**	7.3	4.3	1% milk, flavored	6.7	1.1**
Mexican-style entrees	6.0	6.5	6.5	0.9	Mexican-style entrees	6.0	6.5
Skim or nonfat milk, flavored	5.4	0.7**	6.1	12.8	Hamburgers/cheeseburgers	4.2	1.4**
Breaded/fried chicken products	4.7	3.5	5.3	5.0	Condiments and spreads	3.9	3.3
Sandwiches with plain meat or poultry	4.7	13.2**	4.9	2.9	Skim or nonfat milk, flavored	3.6	0.4**
1% milk, unflavored	3.5	1.3**	4.1	28.3	Breaded/fried chicken products	3.3	0.2**
Unbreaded poultry/meat/fish	2.9	5.9	3.6	0.6**	Peanut butter sandwiches	3.1	13.6**
2% milk, unflavored	2.8	1.4*	2.9	1.3	Corn/tortilla chips	2.7	4.6**
Breaded/fried beef/pork/fish	2.3	0.8	2.9	1.2**	Sandwiches with plain meat or poultry	2.6	6.7**
Hot dog/corn dog	2.1	1.2	2.3	0.7**	Cookies, cakes, brownies	2.6	3.3
Peanut butter sandwiches	2.0	8.2**	2.2	1.6	White bread, rolls, bagels	2.5	1.7
Crackers and pretzels	0.6	2.4**	1.7	3.7	Apple	2.4	5.2*
Yogurt	0.5	2.8*	1.6	2.2	Citrus fruit	2.4	1.7
			0.8	2.2	Corn	2.2	1.0
					Banana	1.6	2.2
					Snack chips (popcorn, potato chips)	1.4	3.3**
					Crackers and pretzels	1.0	3.3**
					Peanut butter/nuts/seeds/trail mixes	0.2	2.2**

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.9

FOOD SOURCES OF TOTAL FAT CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Breaded/fried chicken products	12.8	6.9	16.1	10.4	10.8	9.0
Pizza and pizza products	12.2	1.7**	11.7	3.3	10.1	8.3
Hamburgers/cheeseburgers	6.9	1.7*	7.0	2.6*	8.9	7.8
Peanut butter sandwiches	5.5	20.1**	6.4	4.8	8.0	2.3*
Cookies, cakes, brownies	5.1	6.1	5.1	5.4	6.9	6.7
French fries/potato products	4.6	2.5	4.6	7.3	5.6	7.0
Mexican-style entrees	4.4	2.2	4.4	4.5	5.5	4.0
Hot dog/corn dog	4.2	0.8**	4.0	4.7	5.0	4.6
Condiments and spreads	3.8	3.3	3.5	7.1*	3.9	6.6
1% milk, flavored	3.7	0.5**	3.0	0.6*	3.8	4.7
Corn/tortilla chips	3.0	4.5	2.6	0.8**	3.7	1.3
Salad dressings	2.9	1.0*	2.3	11.3**	2.8	4.2
Dairy-based desserts	2.3	1.8	2.2	8.3**	2.2	1.5
Sandwiches with plain meat or poultry	2.3	6.9*	2.1	4.0*	2.2	0.3**
Breaded/fried meat or poultry sandwich	2.0	0.3	1.9	2.7	2.2	3.6
Unbreaded poultry/meat/fish	1.6	7.6	0.7	2.3**	1.4	3.9**
Snack chips (popcorn, potato chips)	1.4	4.0*	0.3	3.4	0.5	6.1**
Crackers and pretzels	1.2	4.7	0.3	3.4		
Sausages, hot dogs, cold cuts	1.2	3.4				
Candy	0.4	2.6*				
Peanut butter/nuts/seeds/trail mixes	0.1	2.8				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.10

FOOD SOURCES OF SATURATED FAT CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools			Middle Schools			High Schools		
	Percentage Contribution to Lunch Intake		Food Group/Food(s)	Percentage Contribution to Lunch Intake		Food Group/Food(s)	Percentage Contribution to Lunch Intake		Food Group/Food(s)
	Participants	Nonparticipants		Participants	Nonparticipants		Participants	Nonparticipants	
Pizza and pizza products	14.1	2.0**	Pizza and pizza products	17.9	12.1	Pizza and pizza products	13.2	10.5	
Breaded/fried chicken products	8.0	5.1	Mexican-style entrees	12.9	4.2	Sandwiches with plain meat or poultry	11.8	10.5	
Hamburgers/cheeseburgers	8.0	2.4*	Hamburgers/cheeseburgers	8.5	3.6*	Hamburgers/cheeseburgers	8.8	8.7	
1% milk, flavored	6.3	1.0**	Condiments and spreads	4.3	3.7	French fries/potato products	7.1	6.3	
Mexican-style entrees	4.9	2.7	1% milk, flavored	4.3	1.5**	Mexican-style entrees	4.7	8.2	
Hot dog/corn dog	4.3	0.9*	French fries/potato products	4.0	3.8	Breaded/fried meat or poultry sandwich	4.2	2.8	
Cookies, cakes, brownies	4.2	5.1	2% milk, unflavored	3.3	0.8**	1% milk, flavored	3.9	0.6**	
Dairy-based desserts	3.9	2.9	Cookies, cakes, brownies	3.1	4.4	Salad dressings	3.8	1.1*	
Condiments and spreads	3.6	2.5	Dairy-based desserts	3.0	1.7	Breaded/fried chicken products	3.7	5.0	
2% milk, unflavored	3.5	2.1	Breaded/fried chicken products	3.0	5.5	Breaded/fried beef/pork/fish	3.7	1.1	
French fries/potato products	3.2	2.3	Sandwiches with plain meat or poultry	2.6	11.5**	Condiments and spreads	3.4	4.0	
Peanut butter sandwiches	3.1	12.8**	Breaded/fried meat or poultry sandwich	2.3	0.5*	2% milk, unflavored	3.2	1.1	
Sandwiches with plain meat or poultry	3.0	9.2*	Salad dressings	2.2	2.5	Cookies, cakes, brownies	3.1	4.1	
Cheese sandwiches	2.9	2.3	Mixtures with pasta or noodle base	2.1	0.4*	Candy	3.0	4.4	
1% milk, unflavored	2.9	1.3*	Cheese sandwiches	2.0	0.0	Hot dog/corn dog	2.3	1.9	
2% milk, flavored	1.7	2.4	Hot dog/corn dog	1.9	3.2	Corn/tortilla chips	1.5	2.3	
Corn/tortilla chips	1.6	2.7	Snack chips (popcorn, potato chips)	1.7	3.7*	Snack chips (popcorn, potato chips)	1.2	3.7**	
Unbreaded poultry/meat/fish	1.6	9.6	Corn/tortilla chips	1.7	4.0**	Peanut butter sandwiches	0.3	3.7**	
Sausages, hot dogs, cold cuts	1.1	3.9	Peanut butter sandwiches	1.3	7.3**	Cheese	0.2	3.3*	
Snack chips (popcorn, potato chips)	1.0	3.6*	Candy	1.0	2.5				
Crackers and pretzels	0.9	3.3	Cheese	0.5	7.1				
Candy	0.6	4.3*							
Yogurt	0.6	2.6							

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

***Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.11

FOOD SOURCES OF CARBOHYDRATE CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	10.2	1.6**	13.1	6.2**	9.0	6.2
Pizza and pizza products	8.9	1.6**	7.7	2.4**	7.8	5.9
Skim or nonfat milk, flavored	5.7	1.1**	6.2	13.4**	7.2	9.4
Cookies, cakes, brownies	5.3	7.2	5.0	2.1	6.8	1.0**
White bread, rolls, bagels	4.1	2.0	4.9	3.6	6.1	5.2
Breaded/fried chicken products	4.0	1.5*	4.8	5.2	4.3	4.8
Condiments and spreads	3.9	1.3**	4.3	1.1**	4.0	1.4*
Hamburgers/cheeseburgers	3.8	0.6**	4.2	0.2**	3.9	2.2
French fries/potato products	3.7	1.8	3.9	2.2	3.8	2.0*
Peanut butter sandwiches	3.1	12.5**	2.5	4.3	3.6	0.0**
Dairy-based desserts	2.6	2.4	2.4	4.3*	3.6	2.3
Mexican-style entrees	2.5	1.6	2.4	5.9	3.4	14.4**
Fruit juice, 100%	2.2	3.4	2.0	3.1	3.4	5.1
1% milk, unflavored	2.2	0.9*	1.7	6.4**	2.3	2.8
Crackers and pretzels	1.9	5.3	1.6	7.7**	2.1	1.9
Corn/tortilla chips	1.7	2.6	1.3	2.2*	2.0	3.4
Sandwiches with plain meat or poultry	1.7	5.2*	1.2	4.0**	1.0	2.1
Juice drinks (not 100% juice)	1.5	9.1**	0.6	2.2*	0.9	2.0*
Candy	0.9	5.7*			0.7	4.2**
Fruit-based desserts	0.7	3.2**			0.7	2.2**
Yogurt	0.6	3.5*			0.1	
Carbonated sodas	0.3	2.7**				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.12
FOOD SOURCES OF PROTEIN CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools		
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	
Breaded/fried chicken products	14.0	6.7	16.5	10.1	Sandwiches with plain meat or poultry	13.2	15.6
Pizza and pizza products	11.6	1.7**	11.3	5.3	Pizza and pizza products	11.7	9.4
Hamburgers/cheeseburgers	9.6	2.6*	11.2	4.5*	Hamburgers/cheeseburgers	10.7	9.5
1% milk, flavored	9.6	1.8**	7.5	2.9**	Breaded/fried meat or poultry sandwich	7.3	5.8
Skim or nonfat milk, flavored	5.5	1.4**	5.5	9.8	Breaded/fried chicken products	7.0	7.9
1% milk, unflavored	4.6	2.3	4.2	0.3**	1% milk, flavored	6.7	1.2**
Mexican-style entrees	3.4	3.0	3.6	18.5**	Breaded/fried beef/pork/fish	4.4	1.8
Sandwiches with plain meat or poultry	3.1	12.9*	3.3	0.8*	Skim or nonfat milk, flavored	3.6	0.0**
Unbreaded poultry/meat/fish	3.1	16.1	3.0	0.7**	Mexican-style entrees	3.1	7.8*
Peanut butter sandwiches	3.1	14.4**	2.7	1.6	2% milk, unflavored	2.8	1.2
2% milk, unflavored	2.7	1.9	2.3	0.6	French fries/potato products	2.7	2.5
Breaded/fried beef/pork/fish	2.3	0.0	2.3	3.2	Entree salads, entree salad bars	2.7	0.6
Hot dog/corn dog	2.2	0.5*	2.1	1.6	Mixtures with pasta or noodle base	2.0	1.9
White bread, rolls, bagels	2.2	1.3	1.7	2.6	Unbreaded poultry/meat/fish	1.3	3.1
Breaded/fried meat or poultry sandwich	2.1	0.5	1.4	8.6**	Peanut butter sandwiches	0.4	4.8**
Sausages, hot dogs, cold cuts	1.1	2.4	0.9	2.1**	Cheese	0.1	2.0*
Crackers and pretzels	0.7	2.6*	0.5	2.0**			
Yogurt	0.6	3.8*	0.2	3.5			

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.13

FOOD SOURCES OF VITAMIN A (RE) CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	17.7	5.9**	15.7	8.5	15.7	15.6
Pizza and pizza products	10.7	1.2**	14.7	8.9	14.7	11.1
Carrots	9.8	18.8	8.0	0.8**	8.0	7.8
Skim or nonfat milk, flavored	9.5	4.2	5.8	2.0*	5.8	7.2
1% milk, unflavored	8.2	7.5	5.5	4.7	5.5	6.1
Condiments and spreads	4.7	3.9	4.9	7.0	4.9	6.6
2% milk, unflavored	4.7	5.9	4.7	1.9	4.7	7.4
Leafy greens	2.7	0.0	4.7	12.9	4.7	4.4
2% milk, flavored	2.3	5.7	3.2	0.6*	3.2	1.1
Lettuce salads	2.1	0.4**	3.1	1.4	3.1	2.5
Mixed vegetables	2.1	0.6	2.3	1.3	2.3	2.3
Dairy-based desserts	2.0	4.4	2.1	2.2	2.1	2.0
Cheese sandwiches	1.4	3.2	1.2	2.8	1.2	1.9
Cookies, cakes, brownies	1.4	3.0	1.1	7.4	1.1	1.8
Sandwiches with plain meat or poultry	0.9	4.3**	1.1	2.7	1.1	1.6
Yogurt	0.2	2.4	0.3	5.6	0.3	2.6
			0.0	2.2	0.0	3.0
						0.1
						3.5*

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

RE = Retinol Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.14

FOOD SOURCES OF VITAMIN A (RAE) CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	21.0	7.2**	17.8	10.7	18.4	4.8**
Pizza and pizza products	11.9	1.3**	15.7	10.2	12.2	7.5
Skim or nonfat milk, flavored	11.3	5.1	9.2	0.9**	9.2	0.0**
1% milk, unflavored	9.7	9.1	6.6	2.5	7.2	4.6
Carrots	5.9	11.5	6.3	5.9	5.4	7.8
2% milk, unflavored	5.5	7.2	4.7	2.2	5.3	7.2
Condiments and spreads	3.8	3.5	3.9	6.0	4.3	1.4
2% milk, flavored	2.7	6.9	3.5	1.8	3.0	0.8
Dairy-based desserts	2.3	5.4	2.7	8.1	2.7	4.6
Cheese sandwiches	1.6	3.9	2.6	1.7	2.7	1.9
Cookies, cakes, brownies	1.3	3.5	2.3	2.7	2.4	4.5
Sandwiches with plain meat or poultry	1.0	5.2**	1.1	9.3**	2.1	5.6
Cheese	0.9	2.2	0.9	2.2	1.8	4.6
Yogurt	0.3	2.8	0.6	4.7	1.3	3.0
			0.3	6.8	1.1	4.3
			0.0	2.8	0.9	3.4
					0.6	2.4
					0.1	3.6*
					0.1	4.3*

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

RAE = Retinol Activity Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.15

FOOD SOURCES OF VITAMIN C CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
Fruit juice, 100%	19.5	20.2	Juice drinks (not 100% juice)	19.8	26.8	Fruit juice, 100%	30.6	14.3
Citrus fruit	18.9	5.7**	Fruit juice, 100%	19.4	17.8	Juice drinks (not 100% juice)	16.6	25.1
Peaches	9.0	0.3	Condiments and spreads	5.6	8.9	Condiments and spreads	10.7	7.0
Condiments and spreads	5.8	2.1*	French fries/potato products	5.3	3.5	French fries/potato products	7.2	7.6
Berries	4.0	10.2	Mexican-style entrees	4.7	0.5	Candy	2.9	4.6
Juice drinks (not 100% juice)	3.3	22.8*	Pizza and pizza products	3.7	1.7*	Entree salads, entree salad bars	2.7	0.4*
Pizza and pizza products	2.9	0.5	Citrus fruit	3.5	7.6	Melons	2.6	0.0
1% milk, flavored	2.8	0.3**	Berries	3.3	8.2	White potatoes	2.5	0.6
French fries/potato products	2.5	1.8	Broccoli	3.3	0.6	Pizza and pizza products	2.4	2.4
Broccoli	2.4	0.0	Fruit-based desserts	2.6	5.8	Citrus fruit	1.9	8.0
Melons	2.2	0.9	1% milk, flavored	2.5	0.5**	Berries	1.8	2.2
White potatoes	2.0	0.1*	Lettuce salads	2.3	0.3*	Mixtures with pasta or noodle base	1.2	2.1
Fruit-based desserts	2.0	14.9**	Snack chips (popcorn, potato chips)	2.0	3.1	Snack chips (popcorn, potato chips)	1.0	4.7**
Banana	1.7	2.3	Apple	0.8	2.5*	Apple	1.0	2.2
Snack chips (popcorn, potato chips)	0.8	2.5				Mexican-style entrees	0.5	2.1
						Gram/fruit cereal bars, granola bars	0.0	2.4

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

^aIncludes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.16
FOOD SOURCES OF VITAMIN E CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Breaded/fried chicken products	12.4	5.1*	13.0	5.1**	12.3	3.4**
Pizza and pizza products	11.2	1.3**	9.1	2.1*	10.4	6.5**
Peanut butter sandwiches	10.1	33.6**	7.5	6.8	9.7	5.2
Condiments and spreads	9.2	4.1**	7.1	10.7	9.2	7.1
Corn/tortilla chips	4.9	6.1	6.0	3.7	5.4	5.3
Salad dressings	4.3	1.3*	5.9	9.2	4.8	6.2
French fries/potato products	3.8	1.7	5.6	8.8	4.5	4.3
Mexican-style entrees	3.7	1.6	4.7	17.6**	4.2	3.1
Snack chips (popcorn, potato chips)	3.4	9.2*	3.7	4.8	3.7	11.7**
Hamburgers/cheeseburgers	2.8	0.5*	2.6	5.7	3.3	2.6
Cookies, cakes, brownies	2.6	3.2	2.4	0.4*	2.7	2.2
Peaches	2.2	0.8*	2.4	1.7	2.7	4.5
Crackers and pretzels	0.8	3.0	2.3	1.2	2.3	2.7
Sandwiches with plain meat or poultry	0.7	2.4*	2.0	0.1*	2.3	2.6
Peanut butter/nuts/seeds/trail mixes	0.1	4.9	1.4	4.1	2.2	2.4
			0.8	2.7**	0.9	10.2**
					0.2	2.1

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.17

FOOD SOURCES OF VITAMIN B₆ CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Breaded/fried chicken products	11.8	6.8				
French fries/potato products	8.5	3.6*	Pizza and pizza products	10.8	5.9*	French fries/potato products
Hamburgers/cheeseburgers	7.1	1.9*	French fries/potato products	9.9	6.9	Sandwiches with plain meat or poultry
Pizza and pizza products	7.1	0.9**	Mexican-style entrees	9.8	3.2	Hamburgers/cheeseburgers
1% milk, flavored	7.0	1.3**	Hamburgers/cheeseburgers	8.1	3.1*	Pizza and pizza products
Skim or nonfat milk, flavored	3.8	0.9**	1% milk, flavored	5.4	1.9**	Breaded/fried chicken products
Condiments and spreads	3.7	2.6	Breaded/fried chicken products	5.0	8.6	Breaded/fried meat or poultry sandwich
Banana	3.5	6.6	Condiments and spreads	3.4	4.7	Condiments and spreads
1% milk, unflavored	3.2	1.6	Skim or nonfat milk, flavored	2.8	0.2**	1% milk, flavored
Mexican-style entrees	2.9	2.2	Breaded/fried meat or poultry sandwich	2.7	0.6*	Fruit juice, 100%
Peanut butter sandwiches	2.8	13.4**	Sandwiches with plain meat or poultry	2.4	12.1**	Breaded/fried beef/pork/fish
White potatoes	2.6	0.3*	Snack chips (popcorn, potato chips)	2.3	4.6*	Entree salads, entree salad bars
Sandwiches with plain meat or poultry	2.1	9.2**	Peanut butter sandwiches	2.3	7.5*	Skim or nonfat milk, flavored
Unbreaded poultry/meat/fish	2.1	2.0	Fruit juice, 100%	2.2	3.1	White potatoes
Fruit juice, 100%	1.9	3.1	2% milk, unflavored	2.1	0.5**	Mexican-style entrees
Snack chips (popcorn, potato chips)	1.0	4.1**	Entree salads, entree salad bars	1.9	2.3	Corn/tortilla chips
Crackers and pretzels	0.7	3.5	Unbreaded poultry/meat/fish	1.8	2.1	Snack chips (popcorn, potato chips)
Mixtures with meat/grain/vegetables	0.6	2.3	Corn/tortilla chips	1.6	3.1*	Unbreaded poultry/meat/fish
Fruit-based desserts	0.5	2.5**	Cold cereal	0.3	3.3	Peanut butter sandwiches
Grain/fruit cereal bars, granola bars	0.3	2.3	Grain/fruit cereal bars, granola bars	0.2	2.7*	Grain/fruit cereal bars, granola bars

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.18

FOOD SOURCES OF VITAMIN B₁₂ CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	18.0	5.0**	13.0	9.1	16.0	17.4
Skim or nonfat milk, flavored	14.0	5.0*	12.9	7.7	13.3	2.8**
Hamburgers/cheeseburgers	13.1	5.8	10.4	4.5	9.7	0.0**
1% milk, unflavored	10.5	7.8	9.7	1.0**	8.1	3.2
2% milk, unflavored	6.6	6.8	8.3	9.6	7.9	14.7
Pizza and pizza products	6.3	1.2**	6.7	2.5	7.3	3.6
Unbreaded poultry/meat/fish	3.8	6.5	6.3	0.1	6.9	6.8
Breaded/fried chicken products	3.1	3.0	5.8	5.2	4.0	1.0
Hot dog/corn dog	2.6	1.0	2.7	4.7	2.5	3.7
2% milk, flavored	2.5	5.3	2.7	1.7	2.5	0.4
Breaded/fried beef/pork/fish	2.1	0.0	2.7	1.5	2.5	8.4**
Mexican-style entrees	2.0	2.0	1.7	14.8**	2.3	3.8
Sandwiches with plain meat or poultry	1.8	10.8**	1.6	3.2	2.1	1.1
Dairy-based desserts	1.4	3.1	1.5	2.6	1.7	3.0
Yogurt	1.1	10.7*	1.2	3.6	1.6	2.0
Mixtures with meat/grain/vegetables	0.7	4.5	1.1	3.8	0.9	2.4
Sausages, hot dogs, cold cuts	0.6	2.8	0.3	4.1*	0.2	3.4*
Crackers and pretzels	0.2	2.0	0.2	4.7	0.1	4.8
			0.2	4.4*		

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.20

FOOD SOURCES OF CALCIUM CONSUMED AT LUNCH, BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	20.6	5.5**	20.2	13.1	16.5	3.7**
Pizza and pizza products	15.8	2.2**	16.6	8.6*	15.8	11.9
Skim or nonfat milk, flavored	11.5	4.1*	8.9	0.8**	10.4	12.8
1% milk, unflavored	9.8	7.3	7.8	4.0	8.7	0.0**
2% milk, unflavored	5.8	5.8	6.6	2.2*	6.9	3.7
Hamburgers/cheeseburgers	3.4	1.5	6.0	4.9	5.1	7.0
Mexican-style entrees	2.9	2.6	4.9	2.5	4.0	1.1
2% milk, flavored	2.8	6.0	3.4	1.5	3.5	8.2
Sandwiches with plain meat or poultry	2.2	11.0**	2.5	1.4	2.6	1.5
Cheese sandwiches	1.8	3.2	2.2	14.3**	2.4	0.4
Dairy-based desserts	1.7	3.9	1.6	2.9	2.3	1.8
Cheese	1.4	2.1	1.1	2.1	2.2	3.5
Yogurt	1.4	7.5**	0.8	2.4**	1.2	2.3
Peanut butter sandwiches	1.2	11.5*	0.6	4.5**	1.0	2.0
Cookies, cakes, brownies	0.6	2.0	0.4	8.6	0.7	2.3
Crackers and pretzels	0.4	2.9*	0.4	4.6*	0.6	2.2
Juice drinks (not 100% juice)	0.2	2.6*	0.4	4.6*	0.3	2.8**
					0.2	5.3*
					1% milk, flavored	
					Pizza and pizza products	
					Sandwiches with plain meat or poultry	
					Skim or nonfat milk, flavored	
					Skim or nonfat milk, unflavored	
					2% milk, unflavored	
					Hamburgers/cheeseburgers	
					1% milk, unflavored	
					Mexican-style entrees	
					2% milk, flavored	
					Whole milk, unflavored	
					Breaded/fried meat or poultry sandwich	
					Skim or nonfat milk, unflavored	
					Condiments and spreads	
					Corn/tortilla chips	
					Other meat/meat alternates	
					Juice drinks (not 100% juice)	
					Peanut butter sandwiches	
					Cheese	

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.21

FOOD SOURCES OF IRON CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools		
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants	
Pizza and pizza products	12.8	2.7**	18.9	10.9*	Pizza and pizza products	13.6	10.7
Hamburgers/cheeseburgers	10.5	2.1**	11.4	3.5**	Sandwiches with plain meat or poultry	11.7	11.8
Breaded/fried chicken products	10.0	2.2**	8.9	4.6	Hamburgers/cheeseburgers	10.4	7.2
White bread, rolls, bagels	5.5	2.9	5.0	3.4	Breaded/fried meat or poultry sandwich	6.7	4.1
1% milk, flavored	4.6	0.7**	4.5	5.0	Breaded/fried beef/pork/fish	4.0	1.2
Cookies, cakes, brownies	4.3	7.2	3.5	1.1**	Breaded/fried chicken products	4.0	2.8
Peanut butter sandwiches	4.2	16.8**	3.3	14.2**	French fries/potato products	3.8	3.4
Mexican-style entrees	4.0	3.0	3.3	0.7*	Cookies, cakes, brownies	3.3	4.2
Sandwiches with plain meat or poultry	3.1	12.0**	3.1	3.3	Condiments and spreads	3.2	2.4
Hot dog/corn dog	3.1	0.7**	2.5	9.5**	1% milk, flavored	3.2	0.4**
Crackers and pretzels	3.0	0.7**	2.3	2.3	Mexican-style entrees	3.2	6.9
Breaded/fried meat or poultry sandwich	2.5	10.5*	2.3	0.6	White bread, rolls, bagels	2.9	3.0
Breaded/fried beef/pork/fish	2.3	0.5	2.2	0.1**	Fruit juice, 100%	2.8	0.8*
Condiments and spreads	2.2	0.0	2.1	3.3	Mixtures with pasta or noodle base	2.6	2.7
French fries/potato products	2.1	1.4	1.9	2.4	Juice drinks (not 100% juice)	1.6	2.4
Unbreaded poultry/meat/fish	2.0	1.4	1.9	6.5**	Crackers and pretzels	1.5	4.8
Fruit juice, 100%	1.4	2.3	1.4	3.2**	Peanut butter sandwiches	0.8	5.4**
Corn/tortilla chips	1.1	2.1	1.3	2.3	Grain/fruit cereal bars, granola bars	0.1	3.4**
			1.3	3.1**	Cold cereal	0.0	2.5

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

^aIncludes sandwiches with or without cheese.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.23

FOOD SOURCES OF PHOSPHORUS CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
1% milk, flavored	16.4	3.4**	18.2	10.1*	13.3	8.7
Pizza and pizza products	13.9	1.7**	12.7	5.2**	11.9	2.2**
1% milk, flavored	9.2	2.5**	8.5	3.7	10.1	12.5
Skim or nonfat milk, flavored	7.0	4.0	6.9	0.5**	6.2	0.0**
Breaded/fried chicken products	6.8	6.6	5.9	2.5*	5.9	5.7
Hamburgers/cheeseburgers	4.7	1.5*	4.6	1.2**	4.5	2.0
2% milk, unflavored	4.2	3.3	4.1	2.7	4.2	4.2
Mexican-style entrees	2.9	2.5	3.0	7.5	4.1	6.9
Sandwiches with plain meat or poultry	2.2	10.8**	2.6	0.9	3.5	3.5
2% milk, flavored	2.2	3.7	2.6	2.5	2.9	6.6*
Peanut butter sandwiches	2.2	11.9**	2.2	14.9**	2.6	1.1
Cookies, cakes, brownies	1.6	2.6	1.5	2.0	2.6	0.6
Unbreaded poultry/meat/fish	1.4	5.9	1.2	2.7	1.6	2.2
Dairy-based desserts	1.4	2.4	1.1	2.7**	1.6	2.3
Yogurt	0.9	6.6*	1.0	6.9**	0.9	2.7**
Crackers and pretzels	0.6	3.3*	0.5	2.1**	0.3	3.9**
			0.3	2.6	0.1	2.6*
			0.3	2.5*	0.1	2.0**
			0.3	4.3		

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

***Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.24

FOOD SOURCES OF POTASSIUM CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
1% milk, flavored	14.5	3.0**	1% milk, flavored	11.7	4.9**	French fries/potato products	13.3	13.0
Skim or nonfat milk, flavored	8.7	2.4**	Pizza and pizza products	10.4	6.1	1% milk, flavored	10.5	2.0**
Pizza and pizza products	7.7	1.2**	French fries/potato products	8.7	7.8	Pizza and pizza products	7.4	5.5
French fries/potato products	6.0	3.6	Skim or nonfat milk, flavored	6.7	0.5**	Skim or nonfat milk, flavored	5.8	0.0**
1% milk, unflavored	5.9	3.4	Mexican-style entrees	6.0	2.7	Condiments and spreads	5.6	4.5
Hamburgers/cheeseburgers	4.4	1.1*	Hamburgers/cheeseburgers	5.4	2.1*	Sandwiches with plain meat or poultry	5.6	7.6
Breaded/fried chicken products	4.1	3.7	2% milk, unflavored	4.1	1.1**	Fruit juice, 100%	5.3	2.7
Condiments and spreads	3.9	2.0*	1% milk, unflavored	3.6	2.4	Hamburgers/cheeseburgers	4.6	4.1
2% milk, unflavored	3.6	2.8	Condiments and spreads	3.5	4.1	2% milk, unflavored	3.8	1.8
Fruit juice, 100%	2.7	4.7	Fruit juice, 100%	2.5	4.7	Breaded/fried chicken products	2.4	4.2
White potatoes	2.3	0.3*	2% milk, flavored	2.4	0.8	Breaded/fried meat or poultry sandwich	2.3	2.4
Mexican-style entrees	2.0	1.8	Snack chips (popcorn, potato chips)	2.1	5.6**	1% milk, unflavored	2.2	0.5
2% milk, flavored	2.0	3.3	Breaded/fried chicken products	1.9	4.6	Entree salads, entree salad bars	2.0	0.5
Peanut butter sandwiches	1.8	10.2**	Sandwiches with plain meat or poultry	1.5	8.8**	Mexican-style entrees	1.5	4.6*
Banana	1.7	3.6	Juice drinks (not 100% juice)	1.4	3.8**	Mixtures with pasta or noodle base	1.5	2.0
Dairy-based desserts	1.5	2.3	Peanut butter sandwiches	0.9	6.3**	Juice drinks (not 100% juice)	1.5	3.0*
Sandwiches with plain meat or poultry	1.4	5.9**	Apple	0.4	2.2*	Snack chips (popcorn, potato chips)	1.3	5.9**
Unbreaded poultry/meat/fish	1.1	2.7	Yogurt	0.2	2.3*	Peanut butter sandwiches	0.2	3.5**
Snack chips (popcorn, potato chips)	1.0	4.9**	Peanut butter/nuts/seeds/trail mixes	0.1	2.1			
Yogurt	0.8	5.8*						
Juice drinks (not 100% juice)	0.5	3.0**						

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

***Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.25

FOOD SOURCES OF SODIUM CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
Pizza and pizza products	15.9	2.3**	Pizza and pizza products	22.6	11.0**	Pizza and pizza products	14.9	10.6
Breaded/fried chicken products	11.6	4.3**	Condiments and spreads	8.8	7.0	Sandwiches with plain meat or poultry	14.3	17.4
Condiments and spreads	10.3	5.1**	Mexican-style entrees	7.2	3.4	Condiments and spreads	13.2	8.5*
Hamburgers/cheeseburgers	4.8	1.5*	Hamburgers/cheeseburgers	6.2	2.4*	Salad dressings	6.2	2.4
Sandwiches with plain meat or poultry	4.4	15.2**	Sandwiches with plain meat or poultry	4.1	20.1**	Hamburgers/cheeseburgers	5.5	5.6
Hot dog/corn dog	4.4	1.0**	Breaded/fried chicken products	3.9	4.8	Breaded/fried chicken products	4.6	4.5
1% milk, flavored	4.1	0.7**	Salad dressings	3.3	3.0	French fries/potato products	3.4	3.5
French fries/potato products	3.4	1.7	1% milk, flavored	3.2	1.0**	Hot dog/corn dog	3.0	1.8
Mexican-style entrees	3.2	2.3	Hot dog/corn dog	2.7	3.1	Mexican-style entrees	2.8	5.0
Peanut butter sandwiches	2.9	12.1**	Mixtures with pasta or noodle base	2.6	0.6	Breaded/fried meat or poultry sandwich	2.7	2.9
White bread, rolls, bagels	2.8	1.4	White bread, rolls, bagels	2.5	1.6	Mixtures with pasta or noodle base	2.7	2.1
Crackers and pretzels	2.3	7.0*	French fries/potato products	2.3	2.3	1% milk, flavored	2.6	0.4**
Cookies, cakes, brownies	2.2	3.3	Corn/tortilla chips	1.9	4.4**	Corn/tortilla chips	1.5	2.2
Cheese sandwiches	2.0	2.2	Cookies, cakes, brownies	1.9	2.1	Soups	1.2	3.1
Unbreaded poultry/meat/fish	1.9	8.6	Crackers and pretzels	1.6	5.6*	Crackers and pretzels	1.1	2.7
Corn/tortilla chips	1.5	3.0	Juice drinks (not 100% juice)	1.3	2.4*	Peanut butter sandwiches	0.5	3.6**
Sausages, hot dogs, cold cuts	1.1	3.5	Peanut butter sandwiches	1.2	6.2**			
Snack chips (popcorn, potato chips)	0.6	2.0**	Cheese	0.2	2.1			
Mixtures with pasta or noodle base	0.3	2.0						
Vegetable soups	0.0	2.4						

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE K.26

FOOD SOURCES OF ZINC CONSUMED AT LUNCH BY NSLP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
Hamburgers/cheeseburgers	14.6	4.4*	Pizza and pizza products	15.0	10.4	Hamburgers/cheeseburgers	16.3	14.0
Pizza and pizza products	11.7	1.6**	Hamburgers/cheeseburgers	14.7	7.2	Pizza and pizza products	11.3	8.3
1% milk, flavored	9.7	1.8**	Mexican-style entrees	14.3	5.8	Sandwiches with plain meat or poultry	11.1	13.4
Skim or nonfat milk, flavored	6.4	1.6**	1% milk, flavored	6.9	2.9**	1% milk, flavored	6.7	1.1**
Breaded/fried chicken products	6.3	3.1	Skim or nonfat milk, flavored	4.4	0.3**	Breaded/fried beef/pork/fish	6.1	1.7
1% milk, unflavored	4.6	2.4	Unbreaded poultry/meat/fish	3.1	2.5	Skim or nonfat milk, flavored	4.1	0.0**
Mexican-style entrees	3.9	3.3	2% milk, unflavored	2.8	0.8**	Mexican-style entrees	4.0	9.5*
Unbreaded poultry/meat/fish	3.6	12.5	Sandwiches with plain meat or poultry	2.7	15.8**	Breaded/fried meat or poultry sandwich	3.4	2.5
2% milk, unflavored	2.8	2.0	Mixtures with pasta or noodle base	2.6	0.5	Breaded/fried chicken products	3.0	3.4
Peanut butter sandwiches	2.7	13.3**	1% milk, unflavored	2.5	1.6	2% milk, unflavored	2.9	1.1
Sandwiches with plain meat or poultry	2.7	11.8**	Breaded/fried chicken products	2.1	4.7	French fries/potato products	2.5	2.0
Hot dog/corn dog	2.4	0.7*	Peanut butter sandwiches	1.9	7.9**	Mixtures with pasta or noodle base	2.3	2.3
Mixtures with meat/grain/vegetables	1.5	2.4	Chili con carne	1.8	2.1	Condiments and spreads	2.3	1.6
2% milk, flavored	1.3	2.0	Hot dog/corn dog	1.5	2.3	Peanut butter sandwiches	0.4	4.0**
Cookies, cakes, brownies	1.3	2.3	Condiments and spreads	1.5	2.9	Cheese	0.1	2.1*
Sausages, hot dogs, cold cuts	1.0	2.5	Corn/tortilla chips	1.0	2.1*	Gram/fruit cereal bars, granola bars	0.1	3.0**
Yogurt	0.8	5.5*	Crackers and pretzels	0.5	2.1**	Cold cereal	0.0	2.0
Crackers and pretzels	0.7	3.2	Cheese	0.2	3.6			
			Yogurt	0.2	2.1*			
			Peanut butter/nuts/seeds/trail mixes	0.2	3.1			

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a lunch. Intakes of both NSLP participants and nonparticipants include all foods and beverages consumed at lunch. For NSLP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable lunch, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with or without cheese.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

APPENDIX L

**MEANS AND DISTRIBUTIONS OF USUAL DAILY INTAKES:
SCHOOL BREAKFAST PROGRAM PARTICIPANTS
AND NONPARTICIPANTS**

TABLE L.1a

ESTIMATED ENERGY REQUIREMENTS: SBP PARTICIPANTS AND NONPARTICIPANTS

	Estimated Energy Requirements (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	331	1,574	12.0	1,312	1,346	1,417	1,527	1,683	1,867	1,997
SBP Participants	74	1,602	26.2	1,338 ~	1,371 ~	1,440	1,550	1,713	1,907 ~	2,043 ~
SBP Nonparticipants	257	1,565	13.5	1,306 ~	1,339	1,409	1,518	1,673	1,855	1,984 ~
9 to 13 Years	921	1,993	15.6	1,456	1,532	1,666	1,873	2,208	2,628	2,926
SBP Participants	173	2,010	34.3	1,455 ~	1,510	1,655	1,921	2,279	2,639	2,866 ~
SBP Nonparticipants	748	1,989	17.5	1,437	1,523	1,681	1,869	2,168	2,636	2,981
9 to 13 Years, Male	456	2,223	24.4	1,589	1,677	1,855	2,117	2,478	2,907	3,217
SBP Participants	98	2,224	46.4	1,570 ~	1,685 ~	1,898	2,172	2,495	2,833 ~	3,058 ~
SBP Nonparticipants	358	2,223	28.1	1,610	1,689	1,836	2,082	2,495	2,983	3,289
9 to 13 Years, Female	465	1,752	11.8	1,386	1,452	1,571	1,724	1,903	2,088	2,211
SBP Participants	75	1,735	27.5	1,408 ~	1,463 ~	1,565	1,701	1,871	2,054 ~	2,176 ~
SBP Nonparticipants	390	1,755	13.0	1,382	1,450	1,573	1,729	1,910	2,096	2,219
14 to 18 Years	976	2,411	20.1	1,697	1,759	1,916	2,261	2,768	3,285	3,622
SBP Participants	121	2,507	68.9	1,672 ~	1,773 ~	1,983	2,319	2,830	3,484 ~	3,979 ~
SBP Nonparticipants	855	2,400	21.0	1,701	1,761	1,911	2,255	2,758	3,258	3,577
14 to 18 Years, Male	494	2,874	25.7	2,128	2,260	2,493	2,782	3,148	3,598	3,939
SBP Participants	70	2,870	85.5	2,013 ~	2,132 ~	2,366	2,716	3,214	3,815 ~	4,249 ~
SBP Nonparticipants	424	2,876	26.4	2,154	2,269	2,489	2,789	3,171	3,597	3,891
14 to 18 Years, Female	482	1,960	10.7	1,645	1,695	1,792	1,923	2,091	2,274	2,398
SBP Participants	51	1,896	26.8	1,641 ~	1,682 ~	1,759 ~	1,865 ~	2,004 ~	2,156 ~	2,258 ~
SBP Nonparticipants	431	1,966	11.4	1,646	1,698	1,795	1,929	2,098	2,283	2,408
All Students	2,228	2,041	12.4	1,387	1,461	1,626	1,886	2,303	2,863	3,233
SBP Participants	368	1,978	30.1	1,384	1,445	1,582	1,820	2,202	2,709	3,103
SBP Nonparticipants	1,860	2,055	13.6	1,385	1,462	1,642	1,901	2,318	2,896	3,258
All Students, Male	1,112	2,326	19.8	1,489	1,573	1,794	2,211	2,749	3,221	3,519
SBP Participants	215	2,177	43.3	1,465 ~	1,518	1,683	2,022	2,516	3,056	3,415 ~
SBP Nonparticipants	897	2,367	22.1	1,502	1,597	1,834	2,263	2,802	3,264	3,551
All Students, Female	1,116	1,757	8.7	1,331	1,394	1,538	1,734	1,942	2,140	2,271
SBP Participants	153	1,683	20.7	1,330 ~	1,389 ~	1,501	1,648	1,829	2,024 ~	2,156 ~
SBP Nonparticipants	963	1,770	9.5	1,333	1,398	1,548	1,751	1,958	2,153	2,284
By School Type										
Elementary School Students	706	1,748	14.3	1,339	1,382	1,481	1,650	1,911	2,242	2,491
SBP Participants	156	1,770	30.9	1,362 ~	1,404 ~	1,499	1,665	1,932	2,275 ~	2,531 ~
SBP Nonparticipants	550	1,741	16.0	1,333	1,377	1,477	1,645	1,903	2,230	2,474

TABLE L.1a

ESTIMATED ENERGY REQUIREMENTS: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Estimated Energy Requirements (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	360	1,917	22.3	1,446	1,501	1,619	1,813	2,105	2,470	2,741
SBP Participants	92	1,907	43.2	1,457 ~	1,494 ~	1,579	1,772	2,156	2,548 ~	2,739 ~
SBP Nonparticipants	268	1,923	25.9	1,451 ~	1,506	1,624	1,817	2,111	2,479	2,751 ~
Elementary School Students, Female	346	1,566	11.0	1,298	1,339	1,419	1,531	1,677	1,840	1,951
SBP Participants	64	1,571	23.6	1,310 ~	1,354 ~	1,436	1,545	1,680	1,824 ~	1,919 ~
SBP Nonparticipants	282	1,565	12.4	1,295 ~	1,336	1,415	1,528	1,677	1,844	1,959 ~
Middle School Students	761	2,216	19.7	1,626	1,690	1,818	2,056	2,480	2,997	3,328
SBP Participants	120	2,256	47.7	1,648 ~	1,727 ~	1,888	2,136	2,499	2,944 ~	3,269 ~
SBP Nonparticipants	641	2,209	21.6	1,624	1,687	1,808	2,041	2,473	3,005	3,338
Middle School Students, Male	377	2,562	29.6	1,757	1,894	2,152	2,489	2,892	3,323	3,615
SBP Participants	72	2,458	65.3	1,711 ~	1,833 ~	2,064	2,375	2,764	3,194 ~	3,489 ~
SBP Nonparticipants	305	2,586	33.1	1,769 ~	1,910	2,174	2,517	2,922	3,350	3,639 ~
Middle School Students, Female	384	1,898	11.7	1,591	1,640	1,733	1,862	2,026	2,206	2,328
SBP Participants	48	1,936	31.1	1,617 ~	1,676 ~	1,784 ~	1,916 ~	2,068 ~	2,221 ~	2,320 ~
SBP Nonparticipants	336	1,894	12.6	1,589	1,636	1,728	1,855	2,021	2,204	2,329
High School Students	761	2,428	22.7	1,706	1,772	1,936	2,282	2,785	3,299	3,635
SBP Participants	92	2,520	80.6	1,680 ~	1,779 ~	1,987	2,323	2,843	3,516 ~	4,027 ~
SBP Nonparticipants	669	2,418	23.6	1,709	1,774	1,933	2,279	2,777	3,271	3,586
High School Students, Male	375	2,900	28.7	2,230	2,321	2,504	2,782	3,172	3,635	3,969
SBP Participants	51	2,909	104.3	2,107 ~	2,199 ~	2,390 ~	2,711 ~	3,226 ~	3,888 ~	4,379 ~
SBP Nonparticipants	324	2,899	29.2	2,258	2,346	2,524	2,790	3,161	3,598	3,910
High School Students, Female	386	1,972	12.1	1,649	1,702	1,801	1,937	2,106	2,291	2,416
SBP Participants	41	1,903	31.9	1,633 ~	1,676 ~	1,756 ~	1,868 ~	2,017 ~	2,180 ~	2,289 ~
SBP Nonparticipants	345	1,978	12.9	1,652	1,705	1,806	1,943	2,114	2,300	2,425
Secondary School Students	1,522	2,341	15.5	1,675	1,731	1,871	2,189	2,670	3,184	3,523
SBP Participants	212	2,388	45.8	1,665 ~	1,748	1,926	2,219	2,669	3,247	3,686 ~
SBP Nonparticipants	1,310	2,335	16.4	1,676	1,731	1,866	2,184	2,668	3,174	3,499
Secondary School Students, Male	752	2,763	21.3	1,942	2,099	2,371	2,692	3,071	3,507	3,828
SBP Participants	123	2,684	60.9	1,837 ~	1,962 ~	2,206	2,554	3,025	3,575 ~	3,969 ~
SBP Nonparticipants	629	2,778	22.6	1,968	2,127	2,400	2,717	3,082	3,498	3,800
Secondary School Students, Female	770	1,941	8.5	1,620	1,672	1,771	1,906	2,075	2,258	2,382
SBP Participants	89	1,918	22.0	1,623 ~	1,675 ~	1,770	1,893	2,041	2,195 ~	2,297 ~
SBP Nonparticipants	681	1,944	9.2	1,619	1,672	1,772	1,908	2,079	2,264	2,390

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Sample excludes students with unreliable height or weight data.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.1b

USUAL DAILY ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Energy Intakes (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	1,968	19.7	1,416	1,523	1,713	1,944	2,195	2,439	2,598
SBP Participants	75	2,044	55.7	1,341 ~	1,467 ~	1,700	1,996	2,335	2,682 ~	2,910 ~
SBP Nonparticipants	268	1,941	19.9	1,446 ~	1,544	1,715	1,922	2,144	2,362	2,503 ~
9 to 13 Years	953	2,103	16.3	1,361	1,501	1,752	2,060	2,405	2,755	2,990
SBP Participants	182	2,239	43.3	1,374 ~	1,532	1,823	2,188	2,600	3,013	3,279 ~
SBP Nonparticipants	771	2,070	17.2	1,367	1,499	1,737	2,030	2,358	2,689	2,910
9 to 13 Years, Male	469	2,239	19.7	1,607	1,727	1,941	2,203	2,496	2,795	2,994
SBP Participants	99	2,317	56.2	1,491 ~	1,641 ~	1,919	2,267	2,660	3,056 ~	3,314 ~
SBP Nonparticipants	370	2,212	19.4	1,648	1,758	1,952	2,185	2,440	2,696	2,865
9 to 13 Years, Female	484	1,960	23.3	1,185	1,331	1,596	1,923	2,284	2,639	2,865
SBP Participants	83	2,107	54.5	1,313 ~	1,496 ~	1,787	2,093	2,410	2,733 ~	2,950 ~
SBP Nonparticipants	401	1,928	25.3	1,175	1,313	1,568	1,886	2,243	2,599	2,828
14 to 18 Years	1,018	2,214	22.6	1,198	1,380	1,711	2,129	2,620	3,151	3,520
SBP Participants	124	2,497	56.8	1,598 ~	1,754 ~	2,046	2,424	2,868	3,332 ~	3,644 ~
SBP Nonparticipants	894	2,180	23.8	1,174	1,354	1,682	2,097	2,583	3,106	3,468
14 to 18 Years, Male	506	2,625	25.4	1,789	1,946	2,226	2,570	2,963	3,370	3,645
SBP Participants	71	2,760	71.1	1,878 ~	2,039 ~	2,335	2,706	3,126	3,551 ~	3,829 ~
SBP Nonparticipants	435	2,598	28.0	1,744	1,905	2,191	2,543	2,944	3,359	3,640
14 to 18 Years, Female	512	1,830	25.7	987	1,141	1,422	1,772	2,173	2,592	2,874
SBP Participants	53	2,025	70.1	1,302 ~	1,416 ~	1,646 ~	1,965 ~	2,342 ~	2,718 ~	2,956 ~
SBP Nonparticipants	459	1,814	26.9	976	1,131	1,410	1,757	2,154	2,568	2,848
All Students	2,314	2,110	11.9	1,296	1,447	1,714	2,050	2,437	2,841	3,125
SBP Participants	381	2,230	30.3	1,399	1,549	1,822	2,162	2,555	2,985	3,293
SBP Nonparticipants	1,933	2,084	12.8	1,277	1,428	1,698	2,027	2,403	2,804	3,085
All Students, Male	1,143	2,326	15.4	1,575	1,715	1,965	2,274	2,627	3,000	3,256
SBP Participants	218	2,361	40.3	1,540 ~	1,677	1,942	2,287	2,688	3,122	3,435 ~
SBP Nonparticipants	925	2,318	16.0	1,609	1,743	1,981	2,272	2,604	2,950	3,185
All Students, Female	1,171	1,898	14.8	1,140	1,292	1,551	1,858	2,202	2,552	2,784
SBP Participants	163	2,052	38.2	1,302 ~	1,447	1,708	2,023	2,364	2,693	2,900 ~
SBP Nonparticipants	1,008	1,872	15.8	1,124	1,273	1,527	1,829	2,172	2,523	2,755
By School Type										
Elementary School Students	732	2,059	15.3	1,442	1,562	1,772	2,028	2,310	2,592	2,780
SBP Participants	160	2,153	40.6	1,374 ~	1,522	1,790	2,117	2,478	2,831 ~	3,056 ~
SBP Nonparticipants	572	2,029	15.4	1,478	1,584	1,773	2,002	2,255	2,506	2,671

TABLE L.1b

USUAL DAILY ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Energy Intakes (kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	2,167	22.5	1,524	1,648	1,869	2,132	2,423	2,724	2,930
SBP Participants	93	2,203	55.5	1,435 ~	1,570 ~	1,821	2,145	2,521	2,911 ~	3,171 ~
SBP Nonparticipants	279	2,158	19.8	1,655 ~	1,755	1,930	2,136	2,360	2,584	2,733 ~
Elementary School Students, Female	360	1,950	18.2	1,405	1,517	1,712	1,938	2,175	2,395	2,533
SBP Participants	67	2,087	56.3	1,353 ~	1,527 ~	1,797	2,071	2,356	2,662 ~	2,874 ~
SBP Nonparticipants	293	1,913	18.8	1,405 ~	1,508	1,689	1,902	2,126	2,333	2,460 ~
Middle School Students	787	2,024	21.4	1,154	1,307	1,594	1,962	2,387	2,822	3,107
SBP Participants	127	2,177	54.1	1,334 ~	1,465 ~	1,728	2,095	2,539	3,001 ~	3,303 ~
SBP Nonparticipants	660	1,995	22.6	1,144	1,296	1,579	1,939	2,350	2,766	3,037
Middle School Students, Male	386	2,222	26.1	1,468	1,605	1,858	2,176	2,536	2,899	3,136
SBP Participants	74	2,401	65.6	1,604 ~	1,741 ~	1,999	2,333	2,729	3,146 ~	3,427 ~
SBP Nonparticipants	312	2,178	26.9	1,463 ~	1,597	1,841	2,141	2,475	2,806	3,018 ~
Middle School Students, Female	401	1,846	30.4	984	1,139	1,421	1,775	2,190	2,639	2,950
SBP Participants	53	1,881	83.9	1,075 ~	1,200 ~	1,445 ~	1,783 ~	2,208 ~	2,684 ~	3,019 ~
SBP Nonparticipants	348	1,842	32.9	976	1,132	1,414	1,769	2,187	2,641	2,957
High School Students	795	2,259	26.2	1,229	1,409	1,741	2,167	2,672	3,222	3,606
SBP Participants	94	2,569	76.3	1,573 ~	1,735 ~	2,056	2,473	2,955	3,493 ~	3,899 ~
SBP Nonparticipants	701	2,225	27.5	1,206	1,384	1,714	2,136	2,636	3,176	3,550
High School Students, Male	385	2,704	28.8	1,875	2,032	2,311	2,651	3,037	3,439	3,710
SBP Participants	51	2,879	73.6	2,116 ~	2,253 ~	2,506 ~	2,826 ~	3,194 ~	3,573 ~	3,823 ~
SBP Nonparticipants	334	2,678	30.6	1,851	2,009	2,289	2,629	3,013	3,407	3,671
High School Students, Female	410	1,850	28.6	1,015	1,160	1,434	1,788	2,198	2,620	2,898
SBP Participants	43	2,068	76.4	1,363 ~	1,471 ~	1,694 ~	2,006 ~	2,379 ~	2,751 ~	2,985 ~
SBP Nonparticipants	367	1,832	29.6	1,010	1,154	1,425	1,774	2,175	2,586	2,855
Secondary School Students	1,582	2,163	17.2	1,200	1,370	1,683	2,081	2,551	3,057	3,408
SBP Participants	221	2,368	44.4	1,454 ~	1,603	1,898	2,288	2,740	3,223	3,561 ~
SBP Nonparticipants	1,361	2,135	18.2	1,184	1,353	1,662	2,056	2,518	3,013	3,354
Secondary School Students, Male	771	2,504	21.3	1,646	1,805	2,090	2,444	2,851	3,277	3,565
SBP Participants	125	2,628	46.1	1,876 ~	2,011 ~	2,261	2,577	2,938	3,309 ~	3,553 ~
SBP Nonparticipants	646	2,481	23.0	1,629	1,787	2,072	2,424	2,826	3,244	3,525
Secondary School Students, Female	811	1,848	20.8	1,003	1,155	1,432	1,782	2,189	2,624	2,921
SBP Participants	96	1,969	60.1	1,178 ~	1,303 ~	1,536	1,865	2,330	2,774 ~	3,035 ~
SBP Nonparticipants	715	1,836	22.0	996	1,148	1,423	1,770	2,175	2,606	2,902

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.2

USUAL DAILY FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	71	1.1	43	48	57	69	83	96	105
SBP Participants	75	73	2.6	37 ~	43 ~	55	72	89	103 ~	111 ~
SBP Nonparticipants	268	70	1.1	43 ~	48	57	68	81	94	102 ~
9 to 13 Years	953	74	0.6	47	52	61	73	85	98	107
SBP Participants	182	82	2.1	44 ~	51	63	78	97	118	134 ~
SBP Nonparticipants	771	72	0.5	50	54	62	71	81	91	97
9 to 13 Years, Male	469	79	0.6	59	63	70	78	87	96	102
SBP Participants	99	86	2.9	46 ~	53 ~	66	82	101	122 ~	138 ~
SBP Nonparticipants	370	77	0.7	57	61	68	76	85	93	98
9 to 13 Years, Female	484	69	0.9	40	45	55	67	81	96	106
SBP Participants	83	77	2.7	41 ~	47 ~	60	75	93	111 ~	122 ~
SBP Nonparticipants	401	68	1.0	40	45	54	66	79	93	102
14 to 18 Years	1,018	83	0.9	42	49	62	79	99	121	136
SBP Participants	124	91	2.5	53 ~	59 ~	72	88	107	127 ~	141 ~
SBP Nonparticipants	894	82	1.0	40	48	61	78	98	121	136
14 to 18 Years, Male	506	99	0.9	68	74	85	97	112	126	136
SBP Participants	71	102	2.4	71 ~	77 ~	88	101	115	129 ~	138 ~
SBP Nonparticipants	435	98	1.1	65	71	82	96	112	129	140
14 to 18 Years, Female	512	67	1.1	32	38	49	64	82	101	114
SBP Participants	53	73	4.3	36 ~	41 ~	51 ~	66 ~	87 ~	113 ~	132 ~
SBP Nonparticipants	459	67	1.1	32	38	50	64	81	99	112
All Students	2,314	76	0.5	44	49	60	74	90	107	118
SBP Participants	381	81	1.4	44	50	62	78	96	116	130
SBP Nonparticipants	1,933	75	0.5	44	49	60	73	88	104	116
All Students, Male	1,143	85	0.6	57	62	72	83	96	110	119
SBP Participants	218	86	1.8	50 ~	56	68	83	101	121	135 ~
SBP Nonparticipants	925	85	0.5	60	65	73	83	95	106	113
All Students, Female	1,171	68	0.6	37	42	53	66	80	96	106
SBP Participants	163	74	2.0	38 ~	44	55	70	88	108	121 ~
SBP Nonparticipants	1,008	67	0.7	36	42	52	65	79	94	104
By School Type										
Elementary School Students	732	73	0.7	46	50	59	71	85	98	107
SBP Participants	160	78	2.1	40 ~	47	59	75	93	113 ~	126 ~
SBP Nonparticipants	572	72	0.6	49	53	61	70	81	91	98

TABLE L.2

USUAL DAILY FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

	Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	78	0.9	51	56	65	76	89	102	110
SBP Participants	93	80	2.8	41 ~	48 ~	61	77	97	116 ~	129 ~
SBP Nonparticipants	279	76	0.4	65 ~	67	71	76	81	86	89 ~
Elementary School Students, Female	360	68	0.8	44	48	57	67	78	88	95
SBP Participants	67	75	3.1	39 ~	45 ~	57	72	90	108 ~	121 ~
SBP Nonparticipants	293	66	0.8	44 ~	49	56	66	75	85	90 ~
Middle School Students	787	73	0.7	43	48	58	71	86	101	110
SBP Participants	127	81	2.6	44 ~	49 ~	61	76	97	119 ~	135 ~
SBP Nonparticipants	660	72	0.8	43	48	58	70	84	98	107
Middle School Students, Male	386	80	0.6	61	65	72	80	88	96	101
SBP Participants	74	91	2.9	58 ~	64 ~	74	88	105	124 ~	137 ~
SBP Nonparticipants	312	78	0.4	66 ~	68	73	77	82	87	90 ~
Middle School Students, Female	401	67	1.2	33	39	49	63	80	99	113
SBP Participants	53	68	3.7	34 ~	39 ~	49 ~	63 ~	82 ~	104 ~	119 ~
SBP Nonparticipants	348	67	1.3	33	39	49	63	80	99	113
High School Students	795	84	1.1	41	49	62	80	102	125	141
SBP Participants	94	93	2.5	58 ~	64 ~	76	90	107	125 ~	136 ~
SBP Nonparticipants	701	83	1.2	40	47	61	79	101	124	141
High School Students, Male	385	102	1.1	70	76	87	100	115	131	141
SBP Participants	51	104	2.9	72 ~	78 ~	89 ~	102 ~	117 ~	131 ~	141 ~
SBP Nonparticipants	334	102	1.3	66	73	85	99	116	133	145
High School Students, Female	410	68	1.3	31	38	50	65	83	102	116
SBP Participants	43	76	5.2	37 ~	42 ~	52 ~	68 ~	91 ~	119 ~	140 ~
SBP Nonparticipants	367	68	1.3	32	38	50	65	82	101	113
Secondary School Students	1,582	80	0.7	42	49	61	77	95	115	129
SBP Participants	221	87	1.9	48 ~	54	66	83	103	125	141 ~
SBP Nonparticipants	1,361	79	0.7	42	48	60	76	94	113	127
Secondary School Students, Male	771	93	0.7	65	70	80	92	105	118	126
SBP Participants	125	97	1.7	70 ~	75 ~	84	96	109	122 ~	130 ~
SBP Nonparticipants	646	92	0.7	64	70	79	91	104	117	125
Secondary School Students, Female	811	68	0.9	33	38	50	64	82	101	114
SBP Participants	96	72	3.1	35 ~	40 ~	50	65	86	111 ~	130 ~
SBP Nonparticipants	715	67	0.9	33	38	49	64	81	100	113

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.3

USUAL DAILY FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Fat (% kcal)									AMDR (25-35%) ¹					
		N	Mean	SE	Percentile						% Within	% Below	SE	% Above	SE	
					5	10	25	50	75	90						95
By Age/Gender Group																
L.9	6 to 8 Years ²	343	31.8	0.20	25.9	27.2	29.3	31.7	34.2	36.5	37.9	78.5	<3 ~		18.6 ~	9.65
	SBP Participants	75	31.6	0.42	25.5 ~	26.9 ~	29.1	31.6	34.0	36.2 ~	37.5 ~	79.1	3.6 ~	8.35	17.2 ~	14.60
	SBP Nonparticipants	268	31.9	0.22	26.1 ~	27.3	29.4	31.8	34.3	36.6	38.0 ~	78.3	<3 ~		19.3 ~	12.10
	9 to 13 Years	953	31.2	0.08	27.3	28.2	29.6	31.2	32.8	34.3	35.2	93.7	<3 ~		5.7 ~	9.88
	SBP Participants	182	32.3	0.30	25.5 ~	27.1	29.8	32.5	35.0	37.2	38.6 ~	71.0	3.9 ~	5.61	25.0 ~	8.82
	SBP Nonparticipants	771	30.9	0.06	28.2	28.8	29.8	30.9	32.0	33.0	33.6	>97	<3 ~		<3 ~	
	9 to 13 Years, Male	469	31.0	0.08	28.3	28.9	29.9	31.0	32.1	33.1	33.7	>97	<3 ~		<3 ~	
	SBP Participants	99	32.1	0.37	25.8 ~	27.3 ~	29.8	32.3	34.6	36.6 ~	37.9 ~	75.8	3.2 ~	10.00	20.9 ~	18.20
	SBP Nonparticipants	370	30.7	0.08	28.0	28.6	29.6	30.7	31.8	32.7	33.3	>97	<3 ~		<3 ~	
	9 to 13 Years, Female	484	31.5	0.13	26.7	27.8	29.5	31.5	33.4	35.2	36.3	87.5	<3 ~		11.0 ~	11.30
	SBP Participants	83	32.6	0.42	26.0 ~	27.5 ~	30.0	32.7	35.2	37.4 ~	38.7 ~	70.3	<3 ~		26.9 ~	10.90
	SBP Nonparticipants	401	31.2	0.13	26.8	27.8	29.4	31.2	33.0	34.6	35.6	91.3	<3 ~		7.6 ~	14.10
	14 to 18 Years	1,018	32.8	0.14	25.8	27.4	30.0	32.8	35.6	38.3	40.0	66.5	3.5 ~	2.73	30.0	4.02
	SBP Participants	124	32.0	0.35	25.4 ~	27.0 ~	29.5	32.2	34.7	36.9 ~	38.1 ~	73.3	4.1 ~	13.10	22.6 ~	19.90
	SBP Nonparticipants	894	32.9	0.15	25.4	27.1	29.9	32.9	35.9	38.8	40.6	64.2	4.2 ~	2.80	31.7	3.66
	14 to 18 Years, Male	506	33.3	0.10	29.7	30.5	31.8	33.3	34.8	36.2	37.0	77.8	<3 ~		22.2 ~	22.60
	SBP Participants	71	32.6	0.24	29.2 ~	30.0 ~	31.2	32.6	34.0	35.1 ~	35.8 ~	88.8	<3 ~		11.2 ~	104.00
	SBP Nonparticipants	435	33.4	0.13	29.0	30.0	31.6	33.4	35.2	37.0	38.0	72.0	<3 ~		27.9 ~	13.80
	14 to 18 Years, Female	512	32.3	0.25	23.2	25.2	28.6	32.3	36.0	39.4	41.5	59.3	9.3 ~	4.03	31.4	3.87
	SBP Participants	53	31.1	0.23	28.3 ~	28.9 ~	30.0 ~	31.1 ~	32.2 ~	33.2 ~	33.7 ~	>97	<3 ~		<3 ~	
SBP Nonparticipants	459	32.5	0.26	23.2	25.3	28.7	32.4	36.1	39.6	41.8	59.1	9.0 ~	4.12	31.9	3.97	
All Students	2,314	31.9	0.07	26.2	27.4	29.6	31.9	34.3	36.4	37.8	78.6	<3 ~		18.9	4.29	
SBP Participants	381	32.1	0.18	26.2	27.5	29.7	32.1	34.5	36.5	37.8	77.2	<3 ~		20.3 ~	8.17	
SBP Nonparticipants	1,933	31.9	0.08	26.2	27.4	29.5	31.8	34.2	36.4	37.8	79.2	<3 ~		18.5	4.91	
All Students, Male	1,143	32.2	0.04	29.8	30.3	31.2	32.2	33.1	34.0	34.5	>97	<3 ~		<3 ~		
SBP Participants	218	32.4	0.20	27.6 ~	28.7	30.5	32.5	34.4	36.1	37.1 ~	80.3	<3 ~		19.1 ~	17.90	
SBP Nonparticipants	925	32.1	0.03	30.8	31.1	31.5	32.1	32.6	33.1	33.4	>97	<3 ~		<3 ~		
All Students, Female	1,171	31.7	0.13	24.4	26.0	28.7	31.6	34.6	37.4	39.1	71.0	6.6 ~	2.85	22.4	3.58	
SBP Participants	163	31.5	0.32	24.8 ~	26.3	28.8	31.5	34.3	36.8	38.2 ~	74.6	5.6 ~	6.31	19.8 ~	8.79	
SBP Nonparticipants	1,008	31.7	0.14	24.4	26.0	28.7	31.6	34.6	37.4	39.2	70.9	6.6 ~	3.15	22.4	3.94	
By School Type																
Elementary School Students	732	31.4	0.12	26.1	27.3	29.2	31.3	33.5	35.5	36.7	85.1	<3 ~		12.6 ~	8.08	
SBP Participants	160	31.8	0.36	24.2 ~	26.0	28.8	31.8	34.7	37.4 ~	39.2 ~	70.6	6.9 ~	5.03	22.6	6.44	
SBP Nonparticipants	572	31.2	0.11	27.1	28.0	29.5	31.2	32.9	34.5	35.4	92.6	<3 ~		6.8 ~	13.50	

TABLE L.3

USUAL DAILY FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

		Percent of Energy from Fat (% kcal)									AMDR (25-35%) ¹					
		N	Mean	SE	Percentile						% Within	% Below	SE	% Above	SE	
					5	10	25	50	75	90						95
By School Type																
L.10	Elementary School Students, Male	372	31.6	0.13	27.4	28.4	29.9	31.6	33.3	34.8	35.7	90.9	<3 ~		8.6 ~	20.20
	SBP Participants	93	32.1	0.51	23.8 ~	25.9 ~	29.0	32.1	35.2	38.1 ~	40.1 ~	66.2	7.5 ~	6.56	26.3	7.83
	SBP Nonparticipants	279	31.4	0.15	27.2 ~	28.1	29.7	31.4	33.1	34.6	35.6 ~	91.6	<3 ~		7.8 ~	29.50
	Elementary School Students, Female	360	31.1	0.19	25.4	26.7	28.8	31.1	33.4	35.6	37.0	83.0	4.0 ~	4.93	13.0 ~	7.95
	SBP Participants	67	31.4	0.49	24.9 ~	26.3 ~	28.6	31.2	34.0	36.6 ~	38.2 ~	76.6	5.2 ~	7.30	18.2 ~	10.80
	SBP Nonparticipants	293	31.1	0.20	25.6 ~	26.8	28.8	31.0	33.3	35.3	36.7 ~	84.6	3.6 ~	5.92	11.8 ~	9.95
	Middle School Students	787	32.0	0.08	28.3	29.1	30.5	32.0	33.5	34.8	35.6	91.2	<3 ~		8.7 ~	17.40
	SBP Participants	127	33.3	0.34	26.6 ~	28.2 ~	30.8	33.5	36.0	38.0 ~	39.2 ~	63.5	<3 ~		34.2	9.54
	SBP Nonparticipants	660	31.8	0.09	28.1	28.9	30.3	31.8	33.3	34.6	35.4	92.4	<3 ~		7.4 ~	17.10
	Middle School Students, Male	386	32.1	0.11	28.5	29.3	30.6	32.1	33.5	34.8	35.6	91.5	<3 ~		8.5 ~	26.90
	SBP Participants	74	34.0	0.19	31.2 ~	31.8 ~	32.9	34.0	35.1	36.1 ~	36.7 ~	72.1	<3 ~		27.9 ~	59.00
	SBP Nonparticipants	312	31.6	0.13	27.9 ~	28.8	30.1	31.6	33.1	34.4	35.2 ~	93.6	<3 ~		6.2 ~	25.80
	Middle School Students, Female	401	31.9	0.18	26.1	27.4	29.6	31.9	34.3	36.4	37.7	78.7	<3 ~		18.7 ~	11.40
	SBP Participants	53	32.2	0.77	22.4 ~	24.8 ~	28.6 ~	32.6 ~	36.2 ~	39.2 ~	40.8 ~	56.7	10.6 ~	11.40	32.8 ~	10.60
	SBP Nonparticipants	348	31.9	0.17	26.6	27.8	29.7	31.9	34.0	35.9	37.1	82.5	<3 ~		15.9 ~	15.20
	High School Students	795	32.8	0.17	25.2	26.9	29.7	32.7	35.8	38.7	40.5	64.6	4.6 ~	3.15	30.8	3.99
	SBP Participants	94	31.7	0.41	25.0 ~	26.6 ~	29.1	31.8	34.5	36.8 ~	38.1 ~	74.0	5.0 ~	15.50	21.0 ~	21.70
	SBP Nonparticipants	701	32.9	0.19	24.9	26.7	29.6	32.8	36.1	39.2	41.1	62.2	5.3 ~	3.19	32.5	3.67
	High School Students, Male	385	33.2	0.11	29.7	30.5	31.8	33.2	34.7	36.0	36.8	79.5	<3 ~		20.5 ~	28.90
	SBP Participants	51	31.8	0.28	28.4 ~	29.2 ~	30.5 ~	31.8 ~	33.1 ~	34.3 ~	34.9 ~	95.5	<3 ~		4.4 ~	123.00
	SBP Nonparticipants	334	33.4	0.15	29.1	30.0	31.6	33.4	35.2	36.9	38.0	72.5	<3 ~		27.5 ~	16.90
	High School Students, Female	410	32.4	0.29	22.6	24.8	28.4	32.3	36.2	39.9	42.2	57.4	10.5 ~	4.23	32.1	3.92
	SBP Participants	43	31.5	0.50	26.1 ~	27.3 ~	29.3 ~	31.5 ~	33.7 ~	35.7 ~	36.9 ~	83.1	<3 ~		14.5 ~	42.50
	SBP Nonparticipants	367	32.4	0.32	22.5	24.8	28.4	32.4	36.4	40.1	42.5	56.6	10.6 ~	4.39	32.8	4.01
	Secondary School Students	1,582	32.5	0.09	26.4	27.7	30.0	32.4	34.9	37.2	38.6	73.5	<3 ~		24.3	4.85
	SBP Participants	221	32.6	0.12	29.7 ~	30.3	31.4	32.6	33.7	34.8	35.4 ~	92.3	<3 ~		7.7 ~	49.40
	SBP Nonparticipants	1,361	32.4	0.11	26.0	27.5	29.8	32.4	35.0	37.5	39.0	71.7	<3 ~		25.3	4.63
	Secondary School Students, Male	771	32.8	0.04	31.1	31.5	32.1	32.8	33.4	34.0	34.4	>97	<3 ~		<3 ~	
SBP Participants	125	32.9	0.08	31.5 ~	31.8 ~	32.4	32.9	33.5	34.0 ~	34.3 ~	>97	<3 ~		<3 ~		
SBP Nonparticipants	646	32.7	0.07	29.8	30.4	31.5	32.7	33.9	35.0	35.7	89.7	<3 ~		10.3 ~	30.70	
Secondary School Students, Female	811	32.2	0.18	23.9	25.8	28.9	32.2	35.5	38.6	40.5	64.4	7.5 ~	3.50	28.1	3.82	
SBP Participants	96	31.9	0.50	23.6 ~	25.5 ~	28.7	32.1	35.3	38.0 ~	39.6 ~	64.9	8.3 ~	10.20	26.8 ~	11.00	
SBP Nonparticipants	715	32.2	0.19	24.0	25.8	28.9	32.2	35.5	38.6	40.6	64.4	7.4 ~	3.76	28.2	4.09	

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE L.4

USUAL DAILY SATURATED FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Saturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	24.9	0.43	14.0	15.9	19.4	23.8	29.2	35.2	39.5
SBP Participants	75	25.0	0.97	13.1 ~	15.1 ~	19.0	24.1	30.0	36.2 ~	40.3 ~
SBP Nonparticipants	268	24.9	0.49	14.1 ~	16.0	19.4	23.8	29.1	35.1	39.5 ~
9 to 13 Years	953	25.6	0.19	16.8	18.5	21.6	25.3	29.2	33.1	35.6
SBP Participants	182	28.6	0.71	15.7 ~	18.0	22.2	27.3	33.5	40.7	46.1 ~
SBP Nonparticipants	771	24.9	0.17	17.7	19.1	21.6	24.6	27.8	30.8	32.8
9 to 13 Years, Male	469	27.4	0.13	22.8	23.7	25.4	27.3	29.3	31.2	32.4
SBP Participants	99	29.8	0.97	16.4 ~	18.8 ~	23.1	28.5	35.0	42.3 ~	47.5 ~
SBP Nonparticipants	370	26.8	0.15	22.3	23.2	24.8	26.7	28.6	30.5	31.6
9 to 13 Years, Female	484	23.7	0.31	13.7	15.6	19.0	23.2	27.8	32.5	35.7
SBP Participants	83	27.3	0.96	15.2 ~	17.5 ~	21.5	26.2	31.7	38.3 ~	43.1 ~
SBP Nonparticipants	401	22.8	0.31	13.7	15.4	18.4	22.2	26.6	31.0	33.9
14 to 18 Years	1,018	28.2	0.34	13.3	15.8	20.5	26.7	34.3	42.6	48.4
SBP Participants	124	30.2	0.94	16.0 ~	18.3 ~	22.7	28.7	36.1	44.1 ~	49.5 ~
SBP Nonparticipants	894	28.0	0.37	13.1	15.6	20.3	26.5	34.0	42.3	48.1
14 to 18 Years, Male	506	34.0	0.42	20.5	22.9	27.3	33.0	39.5	46.4	51.0
SBP Participants	71	34.0	0.25	30.6 ~	31.3 ~	32.5	33.9	35.4	36.8 ~	37.6 ~
SBP Nonparticipants	435	34.0	0.48	19.8	22.2	26.9	32.8	39.8	47.2	52.1
14 to 18 Years, Female	512	22.9	0.38	10.9	12.9	16.8	21.7	27.7	34.1	38.6
SBP Participants	53	23.6	1.31	11.6 ~	13.1 ~	16.5 ~	21.8 ~	28.8 ~	36.5 ~	41.8 ~
SBP Nonparticipants	459	22.8	0.39	11.1	13.1	16.9	21.8	27.5	33.8	38.1
All Students	2,314	26.4	0.17	14.8	16.9	20.6	25.4	31.0	37.1	41.3
SBP Participants	381	27.8	0.50	14.6	16.8	21.0	26.5	33.0	40.2	45.4
SBP Nonparticipants	1,933	26.1	0.18	14.9	16.9	20.5	25.1	30.5	36.4	40.4
All Students, Male	1,143	29.6	0.21	19.2	21.0	24.5	28.9	33.8	39.0	42.4
SBP Participants	218	29.7	0.65	16.5 ~	18.8	23.0	28.4	34.9	42.2	47.4 ~
SBP Nonparticipants	925	29.5	0.21	20.1	21.9	25.0	28.9	33.3	37.9	40.9
All Students, Female	1,171	23.2	0.21	12.7	14.6	18.1	22.4	27.4	32.7	36.3
SBP Participants	163	25.2	0.72	12.7 ~	14.7	18.7	24.0	30.1	36.8	41.7 ~
SBP Nonparticipants	1,008	22.9	0.22	12.7	14.6	18.0	22.2	27.0	32.0	35.4
By School Type										
Elementary School Students	732	25.6	0.26	15.5	17.4	20.7	24.9	29.6	34.5	37.9
SBP Participants	160	27.1	0.73	14.5 ~	16.7	20.8	25.9	32.0	38.9 ~	44.0 ~
SBP Nonparticipants	572	25.1	0.26	16.0	17.7	20.7	24.5	28.7	33.1	36.1

TABLE L.4

USUAL DAILY SATURATED FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Saturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	27.1	0.40	16.2	18.1	21.6	26.1	31.5	37.3	41.3
SBP Participants	93	27.9	0.94	15.1 ~	17.2 ~	21.3	26.8	33.2	39.9 ~	44.5 ~
SBP Nonparticipants	279	26.9	0.38	17.8 ~	19.4	22.5	26.3	30.7	35.2	38.2 ~
Elementary School Students, Female	360	23.6	0.29	15.2	16.8	19.7	23.3	27.1	30.9	33.3
SBP Participants	67	26.2	1.14	13.2 ~	15.3 ~	19.4	24.9	31.5	38.5 ~	43.3 ~
SBP Nonparticipants	293	23.0	0.28	15.5 ~	17.0	19.7	22.8	26.1	29.3	31.3 ~
Middle School Students	787	25.2	0.25	15.2	17.0	20.3	24.5	29.3	34.3	37.6
SBP Participants	127	27.5	0.95	13.9 ~	15.9 ~	19.9	25.7	33.0	41.5 ~	47.5 ~
SBP Nonparticipants	660	24.8	0.24	15.6	17.3	20.4	24.2	28.6	32.9	35.7
Middle School Students, Male	386	28.4	0.15	23.7	24.7	26.3	28.3	30.3	32.2	33.4
SBP Participants	74	31.6	1.17	17.7 ~	20.0 ~	24.4	30.3	37.4	45.0 ~	50.1 ~
SBP Nonparticipants	312	27.6	0.16	23.2 ~	24.1	25.7	27.5	29.4	31.2	32.3 ~
Middle School Students, Female	401	22.3	0.39	11.4	13.2	16.7	21.3	26.8	32.6	36.5
SBP Participants	53	21.6	1.05	10.9 ~	12.3 ~	15.6 ~	20.6 ~	26.6 ~	32.2 ~	35.4 ~
SBP Nonparticipants	348	22.4	0.41	11.6	13.4	16.9	21.4	26.9	32.6	36.5
High School Students	795	28.7	0.40	13.3	15.8	20.6	27.1	35.0	43.7	49.8
SBP Participants	94	30.6	1.03	16.9 ~	19.1 ~	23.5	29.3	36.3	43.9 ~	49.1 ~
SBP Nonparticipants	701	28.5	0.44	13.0	15.5	20.4	26.8	34.8	43.6	49.8
High School Students, Male	385	34.9	0.48	21.2	23.6	28.2	33.9	40.6	47.4	51.8
SBP Participants	51	34.5	1.26	21.2 ~	23.6 ~	28.0 ~	33.6 ~	40.0 ~	46.4 ~	50.5 ~
SBP Nonparticipants	334	34.9	0.56	20.3	22.9	27.7	33.9	41.0	48.4	53.3
High School Students, Female	410	23.0	0.45	10.6	12.7	16.6	21.8	28.1	34.9	39.7
SBP Participants	43	24.6	1.48	12.4 ~	14.0 ~	17.4 ~	22.6 ~	29.9 ~	38.2 ~	43.5 ~
SBP Nonparticipants	367	22.9	0.47	10.6	12.7	16.6	21.7	27.9	34.6	39.3
Secondary School Students	1,582	27.3	0.24	14.3	16.5	20.7	26.1	32.6	39.6	44.4
SBP Participants	221	29.0	0.71	15.0 ~	17.2	21.5	27.4	34.7	42.9	48.5 ~
SBP Nonparticipants	1,361	27.0	0.25	14.3	16.4	20.6	25.9	32.3	39.1	43.7
Secondary School Students, Male	771	32.2	0.24	22.3	24.2	27.6	31.7	36.3	41.0	44.0
SBP Participants	125	33.0	0.71	21.2 ~	23.4 ~	27.3	32.2	37.8	43.5 ~	47.2 ~
SBP Nonparticipants	646	32.1	0.26	22.4	24.3	27.5	31.6	36.1	40.6	43.6
Secondary School Students, Female	811	22.7	0.29	11.1	13.1	16.8	21.6	27.4	33.7	38.1
SBP Participants	96	23.1	0.99	11.3 ~	12.9 ~	16.2	21.1	27.7	35.6 ~	41.4 ~
SBP Nonparticipants	715	22.7	0.31	11.3	13.2	16.9	21.7	27.3	33.5	37.7

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.5

USUAL DAILY SATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Percent of Energy from Saturated Fat (% kcal)										DGA (<10%)	
	N	Mean	SE	Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By Age/Gender Group												
6 to 8 Years ¹	343	11.2	0.08	8.8	9.3	10.2	11.2	12.2	13.3	13.9	78.7	9.94
SBP Participants	75	10.8	0.12	9.1 ~	9.4 ~	10.0	10.7	11.5	12.1 ~	12.5 ~	76.4 ~	37.70
SBP Nonparticipants	268	11.4	0.10	8.8 ~	9.3	10.3	11.3	12.5	13.5	14.2 ~	80.2	10.80
9 to 13 Years	953	10.8	0.02	9.9	10.1	10.4	10.8	11.2	11.6	11.8	92.5 ~	36.00
SBP Participants	182	11.3	0.13	8.5 ~	9.0	10.1	11.2	12.5	13.7	14.4 ~	76.0	6.52
SBP Nonparticipants	771	10.7	0.02	9.7	9.9	10.3	10.7	11.1	11.5	11.7	87.7 ~	50.00
9 to 13 Years, Male	469	10.9	0.03	9.7	10.0	10.4	10.9	11.3	11.8	12.1	89.5 ~	42.10
SBP Participants	99	11.3	0.20	8.1 ~	8.8 ~	9.9	11.2	12.6	13.9 ~	14.7 ~	72.6	8.50
SBP Nonparticipants	370	10.8	0.04	9.6	9.9	10.3	10.8	11.3	11.7	12.0	86.0 ~	55.20
9 to 13 Years, Female	484	10.8	0.01	10.3	10.4	10.6	10.8	11.0	11.2	11.3	>97 ~	
SBP Participants	83	11.4	0.17	9.0 ~	9.5 ~	10.3	11.3	12.4	13.4 ~	14.0 ~	82.2 ~	11.00
SBP Nonparticipants	401	10.6	0.02	10.1	10.2	10.4	10.6	10.8	11.0	11.1	>97 ~	
14 to 18 Years	1,018	11.2	0.05	8.5	9.1	10.1	11.1	12.2	13.3	13.9	76.2	5.73
SBP Participants	124	10.6	0.13	8.2 ~	8.8 ~	9.6	10.6	11.5	12.4 ~	12.9 ~	65.6	14.30
SBP Nonparticipants	894	11.2	0.05	8.6	9.2	10.1	11.2	12.3	13.3	14.0	77.7	6.41
14 to 18 Years, Male	506	11.4	0.08	8.4	9.0	10.1	11.3	12.7	13.9	14.7	76.7	5.76
SBP Participants	71	10.8	0.07	9.9 ~	10.1 ~	10.4	10.8	11.2	11.5 ~	11.7 ~	91.5 ~	169.00
SBP Nonparticipants	435	11.5	0.10	8.4	9.0	10.1	11.4	12.8	14.2	15.0	76.9	5.53
14 to 18 Years, Female	512	10.9	0.06	8.7	9.2	10.0	10.9	11.9	12.7	13.2	74.6	11.20
SBP Participants	53	10.2	0.29	6.6 ~	7.5 ~	8.9 ~	10.3 ~	11.7 ~	12.8 ~	13.4 ~	56.5	8.56
SBP Nonparticipants	459	11.0	0.06	8.9	9.4	10.1	11.0	11.8	12.6	13.1	77.9	15.20
All Students	2,314	11.0	0.03	9.0	9.5	10.2	11.0	11.9	12.7	13.1	79.8	6.37
SBP Participants	381	11.0	0.09	8.2	8.8	9.8	10.9	12.1	13.2	13.9	71.4	5.17
SBP Nonparticipants	1,933	11.1	0.03	9.2	9.6	10.3	11.0	11.8	12.5	13.0	82.2	9.02
All Students, Male	1,143	11.2	0.04	9.1	9.6	10.3	11.2	12.1	12.9	13.4	82.6	8.51
SBP Participants	218	11.1	0.11	8.6 ~	9.2	10.1	11.1	12.2	13.2	13.8 ~	76.5	9.39
SBP Nonparticipants	925	11.2	0.04	9.3	9.7	10.4	11.2	12.0	12.8	13.3	84.8	12.10
All Students, Female	1,171	10.9	0.03	9.0	9.4	10.1	10.8	11.6	12.4	12.8	77.1	9.64
SBP Participants	163	10.8	0.14	7.8 ~	8.4	9.5	10.7	12.0	13.1	13.7 ~	65.9	5.81
SBP Nonparticipants	1,008	10.9	0.03	9.2	9.6	10.2	10.9	11.6	12.2	12.6	80.4	14.60
By School Type												
Elementary School Students	732	11.0	0.04	9.3	9.7	10.3	10.9	11.6	12.3	12.7	82.7	15.70
SBP Participants	160	11.1	0.12	8.6 ~	9.1	10.0	11.0	12.1	13.0 ~	13.6 ~	75.6	10.50
SBP Nonparticipants	572	11.0	0.04	9.5	9.8	10.3	11.0	11.6	12.2	12.5	85.4	25.20

TABLE L.5

USUAL DAILY SATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	N	Mean	SE	Percent of Energy from Saturated Fat (% kcal)						DGA (<10%)		
				Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By School Type												
Elementary School Students, Male	372	11.1	0.08	8.8	9.3	10.1	11.0	12.0	13.0	13.6	77.1	10.90
SBP Participants	93	11.2	0.17	8.5 ~	9.1 ~	10.0	11.1	12.3	13.3 ~	13.9 ~	75.8	11.70
SBP Nonparticipants	279	11.1	0.07	9.1 ~	9.5	10.2	11.0	11.9	12.7	13.2 ~	80.8	23.30
Elementary School Students, Female	360	10.9	0.03	10.0	10.2	10.5	10.9	11.3	11.6	11.8	94.7 ~	56.20
SBP Participants	67	10.9	0.12	9.3 ~	9.7 ~	10.3	10.9	11.6	12.2 ~	12.6 ~	82.7 ~	47.40
SBP Nonparticipants	293	10.9	0.03	9.9 ~	10.1	10.5	10.9	11.3	11.6	11.9 ~	93.3 ~	62.40
Middle School Students	787	11.0	0.04	9.4	9.8	10.4	11.0	11.7	12.3	12.7	85.0	17.10
SBP Participants	127	11.2	0.19	7.9 ~	8.6 ~	9.8	11.1	12.6	14.0 ~	14.8 ~	71.1	7.10
SBP Nonparticipants	660	11.0	0.03	9.8	10.0	10.5	11.0	11.5	12.0	12.3	91.0 ~	31.50
Middle School Students, Male	386	11.4	0.05	9.9	10.2	10.7	11.3	12.0	12.6	12.9	93.0	24.70
SBP Participants	74	11.8	0.22	8.9 ~	9.5 ~	10.5	11.7	13.0	14.3 ~	15.1 ~	83.2 ~	15.00
SBP Nonparticipants	312	11.3	0.04	10.0 ~	10.3	10.7	11.3	11.8	12.2	12.5 ~	95.2 ~	35.20
Middle School Students, Female	401	10.7	0.06	8.9	9.3	10.0	10.7	11.5	12.2	12.6	74.8	17.00
SBP Participants	53	9.7	0.15	7.9 ~	8.3 ~	9.0 ~	9.7 ~	10.4 ~	11.1 ~	11.5 ~	39.0 ~	32.10
SBP Nonparticipants	348	10.8	0.04	9.6	9.8	10.3	10.8	11.3	11.7	12.0	85.4 ~	49.10
High School Students	795	11.1	0.06	8.4	9.0	10.0	11.1	12.2	13.3	14.0	74.3	5.78
SBP Participants	94	10.4	0.16	7.9 ~	8.4 ~	9.4	10.4	11.4	12.3 ~	12.8 ~	59.8	10.10
SBP Nonparticipants	701	11.2	0.06	8.5	9.1	10.1	11.2	12.3	13.4	14.0	76.4	6.79
High School Students, Male	385	11.3	0.09	8.6	9.2	10.1	11.3	12.5	13.6	14.4	77.4	7.82
SBP Participants	51	10.4	0.20	8.1 ~	8.6 ~	9.4 ~	10.4 ~	11.4 ~	12.3 ~	12.8 ~	60.6 ~	19.10
SBP Nonparticipants	334	11.5	0.10	8.6	9.2	10.2	11.4	12.7	13.9	14.7	78.3	7.53
High School Students, Female	410	10.9	0.08	8.2	8.8	9.8	10.9	12.0	13.0	13.7	70.8	8.14
SBP Participants	43	10.2	0.35	6.3 ~	7.1 ~	8.6 ~	10.4 ~	12.1 ~	13.1 ~	13.6 ~	56.2	8.12
SBP Nonparticipants	367	11.0	0.08	8.5	9.0	9.9	10.9	12.0	12.9	13.5	73.7	11.30
Secondary School Students	1,582	11.1	0.03	8.9	9.4	10.2	11.1	12.0	12.9	13.4	78.6	6.55
SBP Participants	221	10.8	0.13	7.8 ~	8.4	9.5	10.8	12.1	13.3	14.0 ~	65.7	5.55
SBP Nonparticipants	1,361	11.1	0.03	9.1	9.5	10.3	11.1	12.0	12.8	13.3	81.0	8.57
Secondary School Students, Male	771	11.4	0.05	9.3	9.8	10.5	11.3	12.2	13.0	13.5	86.0	11.80
SBP Participants	125	11.1	0.15	8.6 ~	9.1 ~	10.0	11.0	12.1	13.2 ~	13.9 ~	74.7	13.80
SBP Nonparticipants	646	11.4	0.05	9.4	9.8	10.5	11.4	12.2	13.0	13.5	86.9	13.00
Secondary School Students, Female	811	10.8	0.05	8.6	9.1	9.9	10.8	11.8	12.6	13.2	72.8	8.05
SBP Participants	96	10.4	0.22	6.7 ~	7.5 ~	8.9	10.4	11.8	13.1 ~	13.8 ~	57.9	5.48
SBP Nonparticipants	715	10.9	0.05	8.9	9.4	10.1	10.9	11.7	12.4	12.9	77.1	13.10

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

DGA = Recommendation from the Dietary Guidelines for Americans.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.6

USUAL DAILY MONOUNSATURATED FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Monounsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	27.0	0.37	16.9	18.7	22.1	26.3	31.2	36.1	39.3
SBP Participants	75	28.3	0.88	16.1 ~	18.4 ~	22.8	28.2	33.7	38.4 ~	41.0 ~
SBP Nonparticipants	268	26.6	0.40	17.2 ~	18.8	21.9	25.9	30.4	35.1	38.2 ~
9 to 13 Years	953	28.4	0.23	18.2	20.1	23.5	27.8	32.6	37.6	40.9
SBP Participants	182	31.1	0.78	16.1 ~	18.7	23.6	30.0	37.4	45.1	50.1 ~
SBP Nonparticipants	771	27.8	0.21	19.1	20.7	23.7	27.3	31.4	35.4	38.1
9 to 13 Years, Male	469	30.0	0.25	21.9	23.4	26.2	29.6	33.4	37.1	39.5
SBP Participants	99	32.3	1.05	17.1 ~	19.8 ~	24.8	31.3	38.7	46.2 ~	51.1 ~
SBP Nonparticipants	370	29.3	0.05	27.7	28.0	28.6	29.3	30.0	30.7	31.1
9 to 13 Years, Female	484	26.8	0.35	15.5	17.5	21.3	26.1	31.5	37.0	40.6
SBP Participants	83	29.7	1.05	15.7 ~	18.2 ~	22.9	28.9	35.6	42.5 ~	46.9 ~
SBP Nonparticipants	401	26.2	0.36	15.7	17.6	21.1	25.5	30.5	35.6	38.9
14 to 18 Years	1,018	32.0	0.37	15.8	18.6	23.7	30.4	38.5	47.4	53.6
SBP Participants	124	36.1	0.95	21.5 ~	23.9 ~	28.5	34.6	42.0	50.0 ~	55.5 ~
SBP Nonparticipants	894	31.6	0.39	15.2	18.0	23.2	30.0	38.2	47.0	53.2
14 to 18 Years, Male	506	38.6	0.31	28.2	30.2	33.7	38.0	42.8	47.7	50.8
SBP Participants	71	40.3	0.85	29.6 ~	31.6 ~	35.3	39.7	44.8	49.8 ~	53.0 ~
SBP Nonparticipants	435	38.2	0.39	26.3	28.5	32.5	37.5	43.1	48.9	52.7
14 to 18 Years, Female	512	26.0	0.46	11.4	13.9	18.6	24.7	32.0	39.7	44.8
SBP Participants	53	28.4	1.76	13.7 ~	15.6 ~	19.5 ~	25.6 ~	34.1 ~	44.7 ~	52.9 ~
SBP Nonparticipants	459	25.8	0.47	11.4	13.9	18.5	24.6	31.8	39.2	44.2
All Students	2,314	29.4	0.19	16.7	18.9	23.0	28.3	34.5	41.2	45.7
SBP Participants	381	31.3	0.53	17.0	19.5	24.1	29.9	36.9	44.6	50.1
SBP Nonparticipants	1,933	29.0	0.20	16.7	18.9	22.9	27.9	33.9	40.3	44.7
All Students, Male	1,143	32.7	0.21	22.4	24.3	27.8	32.0	36.9	41.8	45.1
SBP Participants	218	33.3	0.66	19.3 ~	21.7	26.3	32.2	39.1	46.2	50.9 ~
SBP Nonparticipants	925	32.5	0.19	24.1	25.7	28.6	32.1	36.0	40.0	42.5
All Students, Female	1,171	26.1	0.25	13.9	16.1	20.1	25.2	31.1	37.3	41.5
SBP Participants	163	28.5	0.74	15.2 ~	17.4	21.7	27.3	34.0	41.1	45.8 ~
SBP Nonparticipants	1,008	25.7	0.26	13.7	15.8	19.8	24.8	30.6	36.7	40.8
By School Type										
Elementary School Students	732	27.9	0.25	18.1	19.9	23.3	27.3	31.9	36.7	39.9
SBP Participants	160	29.6	0.71	16.1 ~	18.6	23.2	28.9	35.3	41.5 ~	45.5 ~
SBP Nonparticipants	572	27.4	0.24	18.9	20.6	23.4	26.9	30.9	34.9	37.5

TABLE L.6

USUAL DAILY MONOUNSATURATED FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Monounsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	29.5	0.30	20.8	22.5	25.4	29.0	33.1	37.1	39.6
SBP Participants	93	30.4	0.94	16.4 ~	19.1 ~	23.9	29.8	36.2	42.3 ~	46.2 ~
SBP Nonparticipants	279	29.1	0.36	20.3 ~	21.9	24.9	28.5	32.7	37.0	39.8 ~
Elementary School Students, Female	360	26.2	0.34	16.5	18.3	21.6	25.7	30.2	34.6	37.4
SBP Participants	67	28.7	1.06	16.0 ~	18.3 ~	22.5	27.8	34.0	40.1 ~	44.2 ~
SBP Nonparticipants	293	25.5	0.35	16.4 ~	18.2	21.3	25.1	29.3	33.4	35.9 ~
Middle School Students	787	28.2	0.28	16.6	18.7	22.5	27.4	33.1	38.8	42.5
SBP Participants	127	31.7	0.97	17.0 ~	19.3 ~	23.8	30.0	37.7	46.1 ~	52.0 ~
SBP Nonparticipants	660	27.6	0.29	16.7	18.6	22.3	26.9	32.2	37.5	40.9
Middle School Students, Male	386	30.8	0.25	23.1	24.6	27.3	30.6	34.0	37.4	39.5
SBP Participants	74	35.6	1.13	22.3 ~	24.5 ~	28.7	34.4	41.1	48.4 ~	53.4 ~
SBP Nonparticipants	312	29.7	0.18	24.6 ~	25.7	27.5	29.6	31.8	33.9	35.2 ~
Middle School Students, Female	401	25.8	0.48	12.6	14.8	19.0	24.5	31.2	38.6	43.7
SBP Participants	53	26.5	1.46	12.3 ~	14.5 ~	18.8 ~	24.8 ~	32.3 ~	40.6 ~	46.3 ~
SBP Nonparticipants	348	25.8	0.51	12.5	14.7	18.9	24.5	31.3	38.6	43.5
High School Students	795	32.7	0.45	15.5	18.4	23.8	31.0	39.6	49.1	55.8
SBP Participants	94	36.9	1.18	21.1 ~	23.6 ~	28.6	35.3	43.5	52.1 ~	58.0 ~
SBP Nonparticipants	701	32.2	0.47	15.1	18.0	23.4	30.5	39.1	48.5	55.1
High School Students, Male	385	39.7	0.42	27.5	29.8	33.9	39.0	44.7	50.6	54.5
SBP Participants	51	41.2	1.19	28.6 ~	30.9 ~	35.2 ~	40.5 ~	46.5 ~	52.5 ~	56.3 ~
SBP Nonparticipants	334	39.4	0.49	26.4	28.8	33.2	38.6	44.7	51.1	55.4
High School Students, Female	410	26.2	0.51	11.6	14.0	18.7	24.9	32.3	40.1	45.2
SBP Participants	43	29.9	2.10	14.3 ~	16.3 ~	20.4 ~	26.7 ~	35.8 ~	47.3 ~	56.1 ~
SBP Nonparticipants	367	25.9	0.52	11.6	14.0	18.7	24.8	32.0	39.3	44.2
Secondary School Students	1,582	30.9	0.27	16.1	18.6	23.3	29.5	36.9	44.8	50.2
SBP Participants	221	34.3	0.79	18.7 ~	21.1	25.8	32.4	40.6	49.8	56.2 ~
SBP Nonparticipants	1,361	30.4	0.28	15.9	18.4	23.0	29.1	36.3	44.0	49.3
Secondary School Students, Male	771	36.1	0.26	25.2	27.3	31.0	35.5	40.5	45.7	49.1
SBP Participants	125	38.4	0.62	28.1 ~	30.0 ~	33.5	37.8	42.6	47.5 ~	50.6 ~
SBP Nonparticipants	646	35.7	0.29	24.8	26.8	30.5	35.1	40.1	45.3	48.7
Secondary School Students, Female	811	26.1	0.35	12.2	14.5	18.9	24.7	31.8	39.4	44.6
SBP Participants	96	28.0	1.22	13.6 ~	15.6 ~	19.7	25.6	33.7	43.4 ~	50.6 ~
SBP Nonparticipants	715	25.9	0.37	12.1	14.5	18.9	24.6	31.5	38.9	43.9

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.7

USUAL DAILY MONOUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
SBP PARTICIPANTS AND NONPARTICIPANTS

	Percent of Energy from Monounsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	12.2	0.09	9.7	10.2	11.1	12.2	13.3	14.4	15.0
SBP Participants	75	12.3	0.16	10.0 ~	10.5 ~	11.4	12.3	13.3	14.2 ~	14.7 ~
SBP Nonparticipants	268	12.2	0.10	9.7 ~	10.2	11.1	12.1	13.2	14.3	14.9 ~
9 to 13 Years	953	12.0	0.04	10.1	10.5	11.2	12.0	12.8	13.5	13.9
SBP Participants	182	12.3	0.13	9.3 ~	10.0	11.1	12.3	13.5	14.5	15.1 ~
SBP Nonparticipants	771	11.9	0.03	10.4	10.7	11.3	11.9	12.5	13.1	13.5
9 to 13 Years, Male	469	11.8	0.04	10.4	10.7	11.2	11.8	12.4	12.9	13.2
SBP Participants	99	12.1	0.18	9.0 ~	9.7 ~	10.9	12.2	13.4	14.5 ~	15.0 ~
SBP Nonparticipants	370	11.7	0.05	10.3	10.6	11.1	11.7	12.3	12.8	13.1
9 to 13 Years, Female	484	12.2	0.06	10.0	10.5	11.3	12.2	13.1	13.9	14.4
SBP Participants	83	12.4	0.18	9.7 ~	10.3 ~	11.3	12.5	13.6	14.5 ~	15.1 ~
SBP Nonparticipants	401	12.1	0.06	10.2	10.6	11.3	12.1	12.9	13.7	14.2
14 to 18 Years	1,018	12.7	0.06	9.7	10.4	11.5	12.7	13.9	15.1	15.8
SBP Participants	124	12.5	0.14	10.0 ~	10.5 ~	11.5	12.6	13.6	14.5 ~	15.1 ~
SBP Nonparticipants	894	12.7	0.07	9.5	10.2	11.4	12.7	14.0	15.3	16.1
14 to 18 Years, Male	506	12.9	0.03	11.9	12.1	12.5	12.9	13.4	13.8	14.0
SBP Participants	71	12.8	0.07	11.8 ~	12.0 ~	12.4	12.8	13.2	13.5 ~	13.7 ~
SBP Nonparticipants	435	13.0	0.05	11.3	11.6	12.2	13.0	13.7	14.3	14.7
14 to 18 Years, Female	512	12.5	0.11	8.5	9.4	10.8	12.4	14.0	15.6	16.7
SBP Participants	53	12.1	0.22	9.5 ~	10.1 ~	11.1 ~	12.2 ~	13.2 ~	14.2 ~	14.8 ~
SBP Nonparticipants	459	12.5	0.12	8.4	9.3	10.8	12.4	14.1	15.7	16.8
All Students	2,314	12.3	0.03	9.8	10.3	11.2	12.2	13.3	14.3	14.9
SBP Participants	381	12.4	0.07	9.9	10.5	11.4	12.4	13.4	14.2	14.7
SBP Nonparticipants	1,933	12.3	0.04	9.7	10.3	11.2	12.2	13.3	14.3	15.0
All Students, Male	1,143	12.4	0.02	11.1	11.4	11.9	12.4	12.9	13.4	13.7
SBP Participants	218	12.5	0.09	10.3 ~	10.8	11.6	12.5	13.4	14.1	14.6 ~
SBP Nonparticipants	925	12.3	0.01	11.9	12.0	12.1	12.3	12.5	12.7	12.8
All Students, Female	1,171	12.2	0.06	9.1	9.7	10.9	12.1	13.5	14.7	15.6
SBP Participants	163	12.2	0.13	9.5 ~	10.2	11.2	12.2	13.3	14.3	14.9 ~
SBP Nonparticipants	1,008	12.2	0.06	9.0	9.7	10.8	12.1	13.5	14.8	15.6
By School Type										
Elementary School Students	732	12.0	0.06	9.6	10.2	11.0	12.0	13.0	14.0	14.6
SBP Participants	160	12.1	0.13	9.5 ~	10.1	11.1	12.2	13.2	14.2 ~	14.7 ~
SBP Nonparticipants	572	12.0	0.06	9.8	10.3	11.0	11.9	12.9	13.8	14.3

TABLE L.7
USUAL DAILY MONOUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
SBP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

	Percent of Energy from Monounsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	12.1	0.05	10.4	10.8	11.4	12.1	12.7	13.4	13.8
SBP Participants	93	12.2	0.19	9.0 ~	9.7 ~	11.0	12.3	13.5	14.5 ~	15.1 ~
SBP Nonparticipants	279	12.0	0.06	10.3 ~	10.7	11.3	12.0	12.7	13.4	13.8 ~
Elementary School Students, Female	360	12.0	0.09	9.3	9.9	10.9	11.9	13.1	14.2	14.9
SBP Participants	67	12.1	0.15	10.0 ~	10.5 ~	11.2	12.1	12.9	13.7 ~	14.2 ~
SBP Nonparticipants	293	12.0	0.10	9.1 ~	9.8	10.8	11.9	13.1	14.3	15.0 ~
Middle School Students	787	12.4	0.03	10.8	11.2	11.7	12.4	13.0	13.6	13.9
SBP Participants	127	13.0	0.15	10.0 ~	10.7 ~	11.9	13.1	14.2	15.1 ~	15.6 ~
SBP Nonparticipants	660	12.2	0.03	10.9	11.2	11.7	12.2	12.8	13.3	13.6
Middle School Students, Male	386	12.4	0.05	10.9	11.2	11.8	12.4	13.0	13.5	13.9
SBP Participants	74	13.3	0.08	12.2 ~	12.4 ~	12.8	13.3	13.8	14.2 ~	14.4 ~
SBP Nonparticipants	312	12.1	0.05	10.7 ~	11.0	11.5	12.1	12.8	13.3	13.7 ~
Middle School Students, Female	401	12.4	0.07	10.0	10.5	11.4	12.3	13.3	14.2	14.7
SBP Participants	53	12.5	0.33	8.2 ~	9.3 ~	11.0 ~	12.8 ~	14.3 ~	15.5 ~	16.1 ~
SBP Nonparticipants	348	12.3	0.07	10.2	10.7	11.5	12.3	13.2	14.0	14.4
High School Students	795	12.7	0.07	9.3	10.1	11.3	12.6	14.0	15.3	16.1
SBP Participants	94	12.5	0.18	9.7 ~	10.3 ~	11.3	12.5	13.6	14.7 ~	15.3 ~
SBP Nonparticipants	701	12.7	0.08	9.1	9.9	11.2	12.6	14.1	15.5	16.4
High School Students, Male	385	12.9	0.06	11.0	11.4	12.1	12.9	13.7	14.4	14.9
SBP Participants	51	12.5	0.15	10.7 ~	11.1 ~	11.8 ~	12.5 ~	13.3 ~	13.9 ~	14.3 ~
SBP Nonparticipants	334	12.9	0.08	10.6	11.1	12.0	12.9	13.9	14.8	15.4
High School Students, Female	410	12.4	0.13	8.3	9.2	10.7	12.4	14.1	15.8	16.9
SBP Participants	43	12.4	0.17	10.6 ~	11.0 ~	11.7 ~	12.4 ~	13.2 ~	13.9 ~	14.3 ~
SBP Nonparticipants	367	12.4	0.14	8.1	9.1	10.6	12.4	14.2	15.9	17.0
Secondary School Students	1,582	12.5	0.04	10.0	10.5	11.5	12.5	13.6	14.6	15.2
SBP Participants	221	12.8	0.08	10.9 ~	11.3	12.0	12.8	13.5	14.2	14.6 ~
SBP Nonparticipants	1,361	12.5	0.05	9.8	10.4	11.4	12.5	13.6	14.7	15.3
Secondary School Students, Male	771	12.7	0.02	11.7	11.9	12.3	12.7	13.1	13.5	13.7
SBP Participants	125	12.9	0.05	12.0 ~	12.2 ~	12.5	12.9	13.3	13.6 ~	13.8 ~
SBP Nonparticipants	646	12.6	0.03	11.2	11.5	12.1	12.6	13.2	13.7	14.1
Secondary School Students, Female	811	12.4	0.08	8.9	9.7	11.0	12.4	13.8	15.2	16.0
SBP Participants	96	12.5	0.21	8.9 ~	9.8 ~	11.1	12.5	13.9	15.1 ~	15.8 ~
SBP Nonparticipants	715	12.4	0.08	8.9	9.7	10.9	12.3	13.8	15.2	16.0

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.8

USUAL DAILY POLYUNSATURATED FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Polyunsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	13.6	0.21	8.0	9.0	10.8	13.2	15.9	18.9	20.8
SBP Participants	75	14.3	0.54	7.8 ~	8.8 ~	10.6	13.7	17.6	21.0 ~	22.8 ~
SBP Nonparticipants	268	13.4	0.21	8.4 ~	9.3	10.9	13.0	15.4	18.0	19.8 ~
9 to 13 Years	953	14.7	0.16	8.1	9.2	11.3	14.0	17.4	21.1	23.7
SBP Participants	182	16.3	0.54	7.6 ~	8.9	11.5	14.9	19.3	24.9	29.5 ~
SBP Nonparticipants	771	14.3	0.16	8.2	9.2	11.2	13.8	16.9	20.0	22.1
9 to 13 Years, Male	469	15.4	0.22	8.7	9.8	12.0	14.9	18.1	21.7	24.2
SBP Participants	99	17.4	0.87	7.9 ~	9.2 ~	11.7	15.4	20.8	27.8 ~	33.5 ~
SBP Nonparticipants	370	15.0	0.20	9.2	10.3	12.3	14.7	17.4	20.1	21.9
9 to 13 Years, Female	484	14.0	0.22	7.5	8.5	10.6	13.3	16.6	20.3	22.9
SBP Participants	83	15.0	0.53	8.2 ~	9.3 ~	11.5	14.4	17.9	21.4 ~	23.8 ~
SBP Nonparticipants	401	13.8	0.24	7.3	8.4	10.4	13.0	16.3	20.0	22.7
14 to 18 Years	1,018	16.2	0.18	7.9	9.3	11.9	15.4	19.6	24.0	26.9
SBP Participants	124	18.3	0.29	13.2 ~	14.2 ~	16.0	18.1	20.4	22.6 ~	24.0 ~
SBP Nonparticipants	894	15.9	0.20	7.6	9.0	11.6	15.1	19.4	23.8	26.9
14 to 18 Years, Male	506	18.8	0.21	11.9	13.2	15.5	18.4	21.7	25.1	27.3
SBP Participants	71	20.1	0.12	18.5 ~	18.8 ~	19.4	20.1	20.8	21.4 ~	21.8 ~
SBP Nonparticipants	435	18.6	0.25	11.1	12.4	14.9	18.0	21.7	25.6	28.1
14 to 18 Years, Female	512	13.6	0.25	6.0	7.2	9.6	12.9	16.9	21.1	24.0
SBP Participants	53	15.2	0.73	8.2 ~	9.2 ~	11.3 ~	14.4 ~	18.3 ~	22.4 ~	25.2 ~
SBP Nonparticipants	459	13.5	0.26	6.0	7.2	9.6	12.8	16.7	20.8	23.6
All Students	2,314	15.0	0.11	7.9	9.1	11.3	14.2	17.8	21.8	24.5
SBP Participants	381	16.0	0.31	8.5	9.6	11.8	15.0	19.1	23.5	26.8
SBP Nonparticipants	1,933	14.7	0.12	7.8	8.9	11.1	14.0	17.6	21.4	24.0
All Students, Male	1,143	16.4	0.14	9.6	10.8	13.0	15.8	19.2	22.7	25.1
SBP Participants	218	17.1	0.43	9.1 ~	10.3	12.7	16.1	20.2	25.0	28.6 ~
SBP Nonparticipants	925	16.2	0.14	9.9	11.0	13.0	15.7	18.8	22.0	24.1
All Students, Female	1,171	13.6	0.14	6.9	8.0	10.1	12.9	16.3	20.0	22.7
SBP Participants	163	14.6	0.40	7.9 ~	8.9	10.8	13.7	17.5	21.4	24.0 ~
SBP Nonparticipants	1,008	13.4	0.15	6.7	7.8	9.9	12.7	16.1	19.8	22.5
By School Type										
Elementary School Students	732	14.3	0.16	8.4	9.4	11.2	13.7	16.6	19.9	22.1
SBP Participants	160	15.4	0.53	7.7 ~	8.7	10.7	14.2	18.8	23.2 ~	26.7 ~
SBP Nonparticipants	572	13.9	0.15	8.9	9.8	11.4	13.6	16.0	18.6	20.4

TABLE L.8

USUAL DAILY POLYUNSATURATED FAT INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- *Continued*

	Polyunsaturated Fat Intakes (g)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	15.2	0.21	9.4	10.4	12.3	14.8	17.6	20.6	22.7
SBP Participants	93	16.5	0.83	7.9 ~	9.0 ~	11.2	15.1	20.0	24.8 ~	29.3 ~
SBP Nonparticipants	279	14.9	0.09	12.4 ~	12.9	13.8	14.8	15.9	16.9	17.5 ~
Elementary School Students, Female	360	13.3	0.20	7.9	8.9	10.6	12.9	15.4	18.2	20.1
SBP Participants	67	14.3	0.66	7.0 ~	8.0 ~	10.2	13.5	17.6	21.7 ~	24.3 ~
SBP Nonparticipants	293	13.0	0.21	7.9 ~	8.8	10.5	12.6	15.1	17.7	19.5 ~
Middle School Students	787	14.4	0.18	7.4	8.5	10.7	13.7	17.3	21.2	23.9
SBP Participants	127	16.4	0.43	9.8 ~	10.9 ~	12.9	15.7	19.1	22.7 ~	25.2 ~
SBP Nonparticipants	660	14.1	0.20	7.0	8.2	10.4	13.3	17.0	21.0	23.7
Middle School Students, Male	386	15.1	0.22	9.0	10.1	12.1	14.7	17.7	20.7	22.8
SBP Participants	74	17.6	0.53	11.3 ~	12.4 ~	14.4	17.1	20.3	23.7 ~	26.0 ~
SBP Nonparticipants	312	14.6	0.23	8.6 ~	9.7	11.6	14.1	17.0	20.0	21.9 ~
Middle School Students, Female	401	13.8	0.29	6.4	7.5	9.7	12.8	16.8	21.3	24.6
SBP Participants	53	14.8	0.61	8.6 ~	9.6 ~	11.6 ~	14.2 ~	17.3 ~	20.7 ~	22.9 ~
SBP Nonparticipants	348	13.7	0.32	6.1	7.2	9.5	12.6	16.7	21.5	24.9
High School Students	795	16.6	0.22	7.8	9.3	12.0	15.7	20.2	24.9	28.1
SBP Participants	94	18.7	0.42	12.5 ~	13.6 ~	15.8	18.5	21.3	24.0 ~	25.7 ~
SBP Nonparticipants	701	16.3	0.24	7.6	9.0	11.8	15.5	20.0	24.8	28.0
High School Students, Male	385	19.4	0.24	12.4	13.6	16.0	19.0	22.4	25.8	28.0
SBP Participants	51	20.4	0.90	10.8 ~	12.5 ~	15.7 ~	19.9 ~	24.4 ~	28.8 ~	31.7 ~
SBP Nonparticipants	334	19.3	0.28	11.8	13.1	15.6	18.8	22.4	26.1	28.5
High School Students, Female	410	13.9	0.29	6.0	7.2	9.6	13.0	17.3	21.8	24.8
SBP Participants	43	15.8	0.81	8.6 ~	9.6 ~	11.8 ~	15.0 ~	19.0 ~	23.1 ~	25.8 ~
SBP Nonparticipants	367	13.7	0.30	5.9	7.2	9.6	12.9	17.0	21.4	24.3
Secondary School Students	1,582	15.7	0.15	7.6	8.9	11.4	14.9	19.1	23.6	26.6
SBP Participants	221	17.5	0.32	10.4 ~	11.6	14.0	17.1	20.6	23.8	26.0 ~
SBP Nonparticipants	1,361	15.4	0.16	7.3	8.6	11.2	14.6	18.8	23.3	26.4
Secondary School Students, Male	771	17.7	0.19	10.2	11.5	14.0	17.1	20.8	24.6	27.1
SBP Participants	125	18.9	0.33	13.3 ~	14.4 ~	16.3	18.7	21.2	23.8 ~	25.3 ~
SBP Nonparticipants	646	17.4	0.21	9.8	11.1	13.6	16.8	20.6	24.5	27.1
Secondary School Students, Female	811	13.9	0.20	6.1	7.3	9.7	13.0	17.1	21.5	24.6
SBP Participants	96	15.3	0.63	7.6 ~	8.7 ~	10.9	14.1	18.3	23.2 ~	26.8 ~
SBP Nonparticipants	715	13.7	0.21	6.1	7.2	9.6	12.9	16.9	21.3	24.4

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.9

USUAL DAILY POLYUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
SBP PARTICIPANTS AND NONPARTICIPANTS

	Percent of Energy from Polyunsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	6.1	0.07	4.2	4.6	5.2	6.0	6.9	7.8	8.4
SBP Participants	75	6.2	0.15	4.2 ~	4.6 ~	5.3	6.1	7.1	7.9 ~	8.5 ~
SBP Nonparticipants	268	6.1	0.07	4.4 ~	4.7	5.3	6.0	6.8	7.6	8.1 ~
9 to 13 Years	953	6.2	0.03	4.6	4.9	5.4	6.1	6.8	7.5	8.0
SBP Participants	182	6.4	0.10	4.5 ~	4.8	5.4	6.2	7.2	8.2	8.9 ~
SBP Nonparticipants	771	6.1	0.04	4.6	4.9	5.4	6.1	6.8	7.5	7.9
9 to 13 Years, Male	469	6.0	0.05	4.5	4.8	5.3	6.0	6.7	7.4	7.9
SBP Participants	99	6.5	0.12	4.9 ~	5.1 ~	5.6	6.3	7.1	8.0 ~	8.6 ~
SBP Nonparticipants	370	5.9	0.05	4.4	4.7	5.2	5.9	6.6	7.3	7.7
9 to 13 Years, Female	484	6.3	0.05	4.7	5.0	5.6	6.2	7.0	7.7	8.1
SBP Participants	83	6.4	0.15	4.4 ~	4.7 ~	5.4	6.2	7.2	8.2 ~	8.8 ~
SBP Nonparticipants	401	6.3	0.05	4.8	5.1	5.6	6.2	6.9	7.6	8.0
14 to 18 Years	1,018	6.5	0.05	4.4	4.8	5.5	6.3	7.4	8.4	9.2
SBP Participants	124	6.5	0.12	4.6 ~	5.0 ~	5.6	6.4	7.3	8.3 ~	8.9 ~
SBP Nonparticipants	894	6.5	0.05	4.3	4.7	5.4	6.3	7.4	8.6	9.3
14 to 18 Years, Male	506	6.4	0.05	4.8	5.1	5.7	6.3	7.0	7.7	8.2
SBP Participants	71	6.5	0.12	5.0 ~	5.3 ~	5.8	6.4	7.1	7.8 ~	8.3 ~
SBP Nonparticipants	435	6.4	0.06	4.6	4.9	5.5	6.3	7.1	7.9	8.5
14 to 18 Years, Female	512	6.6	0.08	4.1	4.5	5.4	6.4	7.6	8.9	9.8
SBP Participants	53	6.6	0.20	4.4 ~	4.8 ~	5.5 ~	6.4 ~	7.5 ~	8.5 ~	9.2 ~
SBP Nonparticipants	459	6.6	0.09	4.0	4.4	5.3	6.4	7.7	9.0	10.0
All Students	2,314	6.3	0.03	4.5	4.8	5.4	6.2	7.0	7.9	8.5
SBP Participants	381	6.4	0.06	4.7	5.0	5.6	6.2	7.0	7.9	8.4
SBP Nonparticipants	1,933	6.2	0.03	4.4	4.7	5.4	6.1	7.0	7.9	8.5
All Students, Male	1,143	6.2	0.03	4.7	5.0	5.5	6.1	6.8	7.5	7.9
SBP Participants	218	6.4	0.08	4.8 ~	5.1	5.6	6.3	7.1	7.9	8.4 ~
SBP Nonparticipants	925	6.1	0.03	4.7	5.0	5.5	6.1	6.8	7.4	7.8
All Students, Female	1,171	6.3	0.04	4.3	4.7	5.3	6.2	7.2	8.2	8.9
SBP Participants	163	6.3	0.08	4.8 ~	5.1	5.6	6.2	6.9	7.7	8.1 ~
SBP Nonparticipants	1,008	6.3	0.05	4.2	4.6	5.3	6.2	7.2	8.3	9.0
By School Type										
Elementary School Students	732	6.1	0.04	4.4	4.7	5.3	6.0	6.8	7.6	8.1
SBP Participants	160	6.2	0.13	4.0 ~	4.3	5.1	6.0	7.1	8.4 ~	9.2 ~
SBP Nonparticipants	572	6.1	0.04	4.6	4.9	5.4	6.0	6.7	7.3	7.8

TABLE L.9

USUAL DAILY POLYUNSATURATED FAT INTAKES, AS A PERCENTAGE OF ENERGY INTAKES:
SBP PARTICIPANTS AND NONPARTICIPANTS- **Continued**

	Percent of Energy from Polyunsaturated Fat (% kcal)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	6.2	0.04	4.8	5.1	5.6	6.1	6.7	7.3	7.6
SBP Participants	93	6.4	0.17	4.3 ~	4.6 ~	5.3	6.1	7.2	8.4 ~	9.4 ~
SBP Nonparticipants	279	6.1	0.05	4.7 ~	5.0	5.5	6.0	6.6	7.2	7.6 ~
Elementary School Students, Female	360	6.1	0.07	4.2	4.5	5.2	6.0	6.9	7.8	8.4
SBP Participants	67	6.0	0.20	3.7 ~	4.0 ~	4.8	5.8	7.1	8.3 ~	8.9 ~
SBP Nonparticipants	293	6.1	0.07	4.3 ~	4.6	5.2	6.0	6.8	7.7	8.3 ~
Middle School Students	787	6.3	0.03	4.8	5.1	5.6	6.2	6.8	7.5	7.9
SBP Participants	127	6.7	0.10	5.0 ~	5.3 ~	5.9	6.6	7.4	8.2 ~	8.7 ~
SBP Nonparticipants	660	6.2	0.04	4.6	4.9	5.4	6.1	6.8	7.6	8.0
Middle School Students, Male	386	6.0	0.04	4.7	5.0	5.4	5.9	6.5	7.0	7.4
SBP Participants	74	6.4	0.09	5.2 ~	5.4 ~	5.9	6.4	7.0	7.5 ~	7.8 ~
SBP Nonparticipants	312	5.9	0.05	4.4 ~	4.7	5.2	5.8	6.5	7.1	7.5 ~
Middle School Students, Female	401	6.5	0.04	5.1	5.4	5.9	6.5	7.1	7.7	8.1
SBP Participants	53	7.0	0.19	4.9 ~	5.3 ~	6.0 ~	6.9 ~	7.9 ~	8.9 ~	9.5 ~
SBP Nonparticipants	348	6.4	0.05	4.9	5.2	5.7	6.4	7.1	7.7	8.2
High School Students	795	6.5	0.06	4.3	4.7	5.4	6.4	7.5	8.6	9.5
SBP Participants	94	6.6	0.15	4.5 ~	4.8 ~	5.5	6.4	7.4	8.5 ~	9.2 ~
SBP Nonparticipants	701	6.5	0.06	4.2	4.6	5.4	6.3	7.5	8.7	9.6
High School Students, Male	385	6.4	0.05	4.8	5.1	5.7	6.3	7.1	7.8	8.3
SBP Participants	51	6.4	0.10	5.3 ~	5.6 ~	5.9 ~	6.4 ~	6.9 ~	7.4 ~	7.7 ~
SBP Nonparticipants	334	6.4	0.06	4.7	5.0	5.6	6.3	7.1	8.0	8.5
High School Students, Female	410	6.7	0.10	3.9	4.4	5.3	6.4	7.8	9.2	10.2
SBP Participants	43	6.8	0.25	4.5 ~	4.9 ~	5.6 ~	6.6 ~	7.7 ~	8.9 ~	9.7 ~
SBP Nonparticipants	367	6.6	0.11	3.8	4.3	5.2	6.4	7.8	9.3	10.4
Secondary School Students	1,582	6.4	0.03	4.5	4.8	5.5	6.3	7.2	8.2	8.9
SBP Participants	221	6.6	0.01	6.3 ~	6.4	6.5	6.6	6.7	6.8	6.9 ~
SBP Nonparticipants	1,361	6.4	0.04	4.3	4.7	5.4	6.3	7.3	8.3	9.0
Secondary School Students, Male	771	6.2	0.04	4.7	5.0	5.5	6.2	6.9	7.6	8.0
SBP Participants	125	6.4	0.09	4.9 ~	5.2 ~	5.7	6.4	7.0	7.7 ~	8.2 ~
SBP Nonparticipants	646	6.2	0.04	4.5	4.8	5.4	6.1	6.9	7.7	8.2
Secondary School Students, Female	811	6.6	0.06	4.3	4.7	5.5	6.4	7.5	8.7	9.4
SBP Participants	96	6.9	0.08	5.6 ~	5.9 ~	6.3	6.8	7.4	7.9 ~	8.3 ~
SBP Nonparticipants	715	6.6	0.06	4.2	4.6	5.4	6.4	7.5	8.7	9.5

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.10

USUAL DAILY LINOLEIC ACID INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Linoleic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	12.1	0.20	7.0	7.8	9.5	11.6	14.2	16.9	18.7	10
SBP Participants	75	12.8	0.52	6.5 ~	7.4 ~	9.2	12.1	16.0	19.4 ~	21.1 ~	10
SBP Nonparticipants	268	11.9	0.18	7.6 ~	8.4	9.8	11.5	13.6	15.8	17.2 ~	10
9 to 13 Years	953	13.0	0.15	7.0	8.0	9.9	12.4	15.4	18.9	21.3	--
SBP Participants	182	14.4	0.51	6.6 ~	7.7	10.0	13.1	17.0	22.2	26.6 ~	--
SBP Nonparticipants	771	12.7	0.14	7.2	8.2	9.9	12.2	14.9	17.8	19.7	--
9 to 13 Years, Male	469	13.8	0.21	7.7	8.7	10.7	13.3	16.3	19.6	21.9	12
SBP Participants	99	15.7	0.83	6.9 ~	8.1 ~	10.3	13.7	18.6	25.4 ~	31.0 ~	12
SBP Nonparticipants	370	13.4	0.19	8.1	9.1	10.9	13.2	15.7	18.1	19.8	12
9 to 13 Years, Female	484	12.2	0.19	6.6	7.5	9.3	11.6	14.5	17.7	20.0	10
SBP Participants	83	13.0	0.48	6.9 ~	7.9 ~	9.9	12.5	15.6	18.8 ~	20.9 ~	10
SBP Nonparticipants	401	12.1	0.21	6.5	7.4	9.1	11.4	14.3	17.5	19.8	10
14 to 18 Years	1,018	14.1	0.16	6.9	8.1	10.4	13.5	17.2	21.1	23.7	--
SBP Participants	124	16.1	0.25	11.8 ~	12.7 ~	14.2	16.0	18.0	19.8 ~	21.0 ~	--
SBP Nonparticipants	894	13.9	0.18	6.6	7.8	10.1	13.2	16.9	20.9	23.6	--
14 to 18 Years, Male	506	16.5	0.19	10.3	11.4	13.5	16.1	19.1	22.1	24.1	16
SBP Participants	71	17.7	0.48	11.4 ~	12.6 ~	14.8	17.5	20.3	23.0 ~	24.7 ~	16
SBP Nonparticipants	435	16.3	0.23	9.5	10.7	12.9	15.7	19.1	22.5	24.8	16
14 to 18 Years, Female	512	12.0	0.22	5.2	6.3	8.4	11.3	14.8	18.5	21.0	11
SBP Participants	53	13.6	0.81	6.6 ~	7.5 ~	9.5 ~	12.3 ~	16.3 ~	21.1 ~	24.7 ~	11
SBP Nonparticipants	459	11.8	0.22	5.2	6.3	8.4	11.2	14.6	18.2	20.7	11
All Students	2,314	13.2	0.10	6.9	7.9	9.9	12.5	15.8	19.3	21.8	--
SBP Participants	381	14.2	0.29	7.3	8.3	10.3	13.3	17.0	21.1	24.3	--
SBP Nonparticipants	1,933	13.0	0.10	6.8	7.9	9.8	12.4	15.5	18.9	21.2	--
All Students, Male	1,143	14.5	0.13	8.4	9.5	11.4	14.0	17.0	20.2	22.4	--
SBP Participants	218	15.3	0.41	7.9 ~	9.0	11.2	14.3	18.1	22.6	26.1 ~	--
SBP Nonparticipants	925	14.3	0.13	8.7	9.7	11.5	13.9	16.6	19.5	21.4	--
All Students, Female	1,171	11.9	0.13	6.0	7.0	8.8	11.3	14.3	17.7	20.0	--
SBP Participants	163	12.8	0.36	6.8 ~	7.7	9.4	12.0	15.4	19.0	21.4 ~	--
SBP Nonparticipants	1,008	11.8	0.14	5.9	6.9	8.7	11.2	14.2	17.5	19.8	--
By School Type											
Elementary School Students	732	12.6	0.14	7.3	8.2	9.9	12.1	14.8	17.7	19.8	--
SBP Participants	160	13.7	0.51	6.5 ~	7.5	9.3	12.5	16.8	20.8 ~	24.2 ~	--
SBP Nonparticipants	572	12.3	0.13	7.8	8.7	10.1	12.0	14.2	16.5	18.0	--

TABLE L.10

USUAL DAILY LINOLEIC ACID INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Linoleic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	13.6	0.19	8.4	9.3	11.0	13.2	15.8	18.5	20.4	--
SBP Participants	93	14.9	0.83	6.7 ~	7.8 ~	9.8	13.4	18.1	22.7 ~	27.3 ~	--
SBP Nonparticipants	279	13.2	0.20	8.5 ~	9.3	10.9	12.9	15.2	17.6	19.2 ~	--
Elementary School Students, Female	360	11.7	0.18	6.8	7.7	9.3	11.3	13.6	16.1	17.8	--
SBP Participants	67	12.5	0.56	6.4 ~	7.3 ~	9.0	11.7	15.4	19.2 ~	21.2 ~	--
SBP Nonparticipants	293	11.5	0.19	6.9 ~	7.8	9.2	11.1	13.3	15.6	17.2 ~	--
Middle School Students	787	12.7	0.16	6.5	7.5	9.4	12.1	15.3	18.8	21.3	--
SBP Participants	127	14.5	0.41	8.3 ~	9.3 ~	11.2	13.8	17.0	20.5 ~	22.9 ~	--
SBP Nonparticipants	660	12.4	0.18	6.2	7.2	9.1	11.8	15.0	18.6	21.0	--
Middle School Students, Male	386	13.4	0.20	7.8	8.8	10.6	12.9	15.7	18.5	20.4	--
SBP Participants	74	15.7	0.51	9.6 ~	10.6 ~	12.5	15.0	18.1	21.5 ~	23.8 ~	--
SBP Nonparticipants	312	12.9	0.21	7.6 ~	8.5	10.3	12.5	15.0	17.7	19.4 ~	--
Middle School Students, Female	401	12.2	0.26	5.5	6.5	8.5	11.3	14.9	18.9	21.8	--
SBP Participants	53	13.1	0.58	7.4 ~	8.3 ~	10.1 ~	12.5 ~	15.4 ~	18.6 ~	20.8 ~	--
SBP Nonparticipants	348	12.1	0.28	5.3	6.3	8.3	11.2	14.8	19.0	22.0	--
High School Students	795	14.5	0.20	6.8	8.1	10.5	13.8	17.7	21.9	24.7	--
SBP Participants	94	16.5	0.38	10.9 ~	11.9 ~	13.9	16.3	18.8	21.3 ~	22.9 ~	--
SBP Nonparticipants	701	14.3	0.21	6.6	7.9	10.3	13.5	17.5	21.7	24.5	--
High School Students, Male	385	17.0	0.23	10.5	11.7	13.8	16.6	19.7	22.8	24.9	--
SBP Participants	51	18.1	0.83	9.2 ~	10.7 ~	13.7 ~	17.6 ~	21.7 ~	25.8 ~	28.5 ~	--
SBP Nonparticipants	334	16.8	0.26	9.9	11.1	13.4	16.3	19.7	23.1	25.4	--
High School Students, Female	410	12.2	0.26	5.2	6.3	8.4	11.4	15.1	19.1	21.8	--
SBP Participants	43	14.0	0.76	7.3 ~	8.2 ~	10.2 ~	13.2 ~	16.9 ~	20.8 ~	23.3 ~	--
SBP Nonparticipants	367	12.0	0.26	5.2	6.3	8.4	11.3	14.9	18.7	21.3	--
Secondary School Students	1,582	13.8	0.13	6.6	7.8	10.0	13.1	16.8	20.7	23.4	--
SBP Participants	221	15.4	0.32	8.7 ~	9.8	11.9	14.8	18.3	21.8	24.2 ~	--
SBP Nonparticipants	1,361	13.6	0.14	6.4	7.6	9.8	12.8	16.5	20.5	23.2	--
Secondary School Students, Male	771	15.5	0.17	8.9	10.0	12.2	15.0	18.3	21.7	24.0	--
SBP Participants	125	16.8	0.36	10.8 ~	11.9 ~	13.9	16.4	19.2	22.1 ~	23.9 ~	--
SBP Nonparticipants	646	15.3	0.19	8.5	9.6	11.8	14.7	18.1	21.6	24.0	--
Secondary School Students, Female	811	12.2	0.18	5.4	6.4	8.5	11.4	15.0	19.0	21.7	--
SBP Participants	96	13.5	0.59	6.5 ~	7.4 ~	9.4	12.3	16.3	21.0 ~	24.5 ~	--
SBP Nonparticipants	715	12.0	0.19	5.3	6.4	8.4	11.3	14.8	18.7	21.4	--

¹ Linoleic acid is an essential n-6 polyunsaturated fatty acid.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

AI = Adequate Intake.

TABLE L.11

USUAL DAILY LINOLEIC ACID INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Linoleic Acid (% kcal) ¹									AMDR (5-10%) ²				
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE
					5	10	25	50	75	90					
By Age/Gender Group															
L.25	6 to 8 Years ³	343	5.4	0.06	3.7	4.0	4.6	5.3	6.1	6.9	7.5	61.2	38.6	5.55	<3 ~
	SBP Participants	75	5.6	0.15	3.6 ~	4.0 ~	4.7	5.5	6.4	7.2 ~	7.7 ~	65.2	34.7	7.82	<3 ~
	SBP Nonparticipants	268	5.4	0.06	3.9 ~	4.2	4.7	5.3	6.0	6.6	7.0 ~	62.6	37.4	10.50	<3 ~
	9 to 13 Years	953	5.5	0.03	4.0	4.3	4.8	5.4	6.0	6.7	7.1	66.7	33.3	6.43	<3 ~
	SBP Participants	182	5.6	0.09	3.9 ~	4.2	4.7	5.5	6.3	7.3	8.0 ~	65.6	33.9	9.31	<3 ~
	SBP Nonparticipants	771	5.4	0.03	4.0	4.3	4.8	5.4	6.0	6.6	7.0	65.8	34.2	7.31	<3 ~
	9 to 13 Years, Male	469	5.4	0.04	4.0	4.3	4.8	5.3	6.0	6.6	7.0	64.8	35.2	8.99	<3 ~
	SBP Participants	99	5.8	0.12	4.2 ~	4.4 ~	4.9	5.6	6.4	7.4 ~	8.1 ~	71.8	27.5 ~	22.20	<3 ~
	SBP Nonparticipants	370	5.3	0.05	3.9	4.2	4.6	5.2	5.9	6.5	6.9	60.3	39.7	7.77	<3 ~
	9 to 13 Years, Female	484	5.5	0.04	4.1	4.4	4.9	5.4	6.1	6.7	7.2	69.4	30.6 ~	10.10	<3 ~
	SBP Participants	83	5.6	0.14	3.7 ~	4.0 ~	4.6	5.4	6.3	7.3 ~	8.0 ~	62.7	36.9	9.80	<3 ~
	SBP Nonparticipants	401	5.5	0.04	4.2	4.4	4.9	5.4	6.1	6.7	7.0	70.3	29.7 ~	13.00	<3 ~
	14 to 18 Years	1,018	5.7	0.04	3.8	4.1	4.8	5.6	6.5	7.4	8.1	67.4	32.0	4.49	<3 ~
	SBP Participants	124	5.8	0.11	4.1 ~	4.4 ~	4.9	5.7	6.5	7.3 ~	7.9 ~	73.0	26.7 ~	21.30	<3 ~
	SBP Nonparticipants	894	5.7	0.05	3.7	4.1	4.7	5.5	6.5	7.5	8.2	65.7	33.6	4.13	<3 ~
	14 to 18 Years, Male	506	5.6	0.04	4.2	4.4	4.9	5.5	6.2	6.8	7.3	71.9	28.1 ~	10.90	<3 ~
	SBP Participants	71	5.7	0.11	4.4 ~	4.6 ~	5.1	5.7	6.3	6.9 ~	7.3 ~	78.5	21.5 ~	43.00	<3 ~
	SBP Nonparticipants	435	5.6	0.05	3.9	4.2	4.8	5.5	6.2	7.0	7.5	67.4	32.6	7.53	<3 ~
	14 to 18 Years, Female	512	5.8	0.07	3.6	3.9	4.7	5.6	6.7	7.9	8.6	65.2	33.5	5.00	<3 ~
	SBP Participants	53	5.8	0.19	3.9 ~	4.2 ~	4.9 ~	5.7 ~	6.6 ~	7.7 ~	8.3 ~	69.9	29.3 ~	27.00	<3 ~
SBP Nonparticipants	459	5.8	0.08	3.5	3.9	4.6	5.6	6.7	8.0	8.8	63.8	34.6	4.76	<3 ~	
All Students	2,314	5.5	0.02	3.9	4.2	4.7	5.4	6.2	7.0	7.5	65.9	33.9	3.19	<3 ~	
SBP Participants	381	5.7	0.06	4.0	4.3	4.9	5.5	6.3	7.1	7.7	69.5	30.2	7.68	<3 ~	
SBP Nonparticipants	1,933	5.5	0.03	3.8	4.1	4.7	5.4	6.2	7.0	7.5	64.7	35.2	3.29	<3 ~	
All Students, Male	1,143	5.5	0.03	4.2	4.5	4.9	5.4	6.0	6.6	7.0	70.5	29.5	8.63	<3 ~	
SBP Participants	218	5.7	0.07	4.2 ~	4.5	5.0	5.6	6.3	7.2	7.7 ~	73.0	26.6 ~	13.40	<3 ~	
SBP Nonparticipants	925	5.4	0.03	4.1	4.4	4.8	5.4	6.0	6.5	6.9	67.5	32.5	8.63	<3 ~	
All Students, Female	1,171	5.6	0.04	3.7	4.0	4.7	5.4	6.3	7.3	7.9	63.9	35.7	3.35	<3 ~	
SBP Participants	163	5.5	0.08	4.0 ~	4.3	4.8	5.4	6.2	7.0	7.5 ~	67.0	32.9 ~	11.70	<3 ~	
SBP Nonparticipants	1,008	5.6	0.04	3.7	4.0	4.6	5.4	6.3	7.3	8.0	63.4	36.1	3.49	<3 ~	
By School Type															
Elementary School Students	732	5.4	0.04	3.9	4.1	4.7	5.3	6.1	6.8	7.2	63.0	37.0	4.94	<3 ~	
SBP Participants	160	5.5	0.12	3.4 ~	3.7	4.4	5.3	6.4	7.6 ~	8.4 ~	57.3	41.6	4.41	<3 ~	
SBP Nonparticipants	572	5.4	0.04	4.1	4.3	4.8	5.3	5.9	6.5	6.9	65.3	34.7	9.30	<3 ~	

TABLE L.11

USUAL DAILY LINOLEIC ACID INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Percent of Energy from Linoleic Acid (% kcal) ¹										AMDR (5-10%) ²				
	N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
				5	10	25	50	75	90						95
By School Type															
Elementary School Students, Male	372	5.5	0.04	4.3	4.6	5.0	5.4	6.0	6.5	6.8	73.4	26.6 ~	23.70	<3 ~	
SBP Participants	93	5.7	0.17	3.7 ~	4.0 ~	4.7	5.5	6.5	7.7 ~	8.7 ~	63.3	34.4	7.68	<3 ~	
SBP Nonparticipants	279	5.4	0.04	4.3 ~	4.5	4.9	5.4	5.9	6.4	6.7 ~	69.5	30.5 ~	29.40	<3 ~	
Elementary School Students, Female	360	5.3	0.06	3.6	3.9	4.5	5.2	6.0	6.9	7.4	58.0	41.9	4.24	<3 ~	
SBP Participants	67	5.3	0.18	3.2 ~	3.5 ~	4.1	5.1	6.3	7.4 ~	8.0 ~	51.6	48.2	5.80	<3 ~	
SBP Nonparticipants	293	5.3	0.06	3.7 ~	4.0	4.6	5.2	6.0	6.7	7.2 ~	59.7	40.3	5.72	<3 ~	
Middle School Students	787	5.5	0.03	4.2	4.5	4.9	5.5	6.1	6.7	7.1	71.2	28.8 ~	11.20	<3 ~	
SBP Participants	127	5.9	0.10	4.3 ~	4.6 ~	5.1	5.8	6.6	7.4 ~	7.9 ~	79.0	20.9 ~	19.60	<3 ~	
SBP Nonparticipants	660	5.5	0.04	4.0	4.3	4.8	5.4	6.0	6.7	7.1	66.2	33.8	8.41	<3 ~	
Middle School Students, Male	386	5.3	0.04	4.1	4.3	4.7	5.2	5.8	6.3	6.6	62.5	37.5 ~	11.50	<3 ~	
SBP Participants	74	5.7	0.08	4.6 ~	4.9 ~	5.2	5.7	6.2	6.6 ~	6.9 ~	85.5	14.5 ~	53.00	<3 ~	
SBP Nonparticipants	312	5.2	0.05	3.9 ~	4.1	4.6	5.1	5.7	6.3	6.7 ~	55.5	44.5	6.80	<3 ~	
Middle School Students, Female	401	5.7	0.04	4.4	4.7	5.1	5.7	6.3	6.9	7.3	79.8	20.2 ~	22.00	<3 ~	
SBP Participants	53	6.2	0.20	4.1 ~	4.5 ~	5.2 ~	6.1 ~	7.1 ~	8.2 ~	8.9 ~	77.7	20.8 ~	24.30	<3 ~	
SBP Nonparticipants	348	5.7	0.05	4.3	4.6	5.0	5.6	6.3	6.9	7.3	76.5	23.5 ~	20.40	<3 ~	
High School Students	795	5.7	0.05	3.7	4.1	4.7	5.6	6.5	7.6	8.3	66.5	32.6	4.43	<3 ~	
SBP Participants	94	5.8	0.05	5.0 ~	5.2 ~	5.5	5.8	6.1	6.5 ~	6.7 ~	96.0	4.0 ~	95.80	<3 ~	
SBP Nonparticipants	701	5.7	0.06	3.7	4.0	4.7	5.5	6.6	7.6	8.4	65.2	33.7	4.29	<3 ~	
High School Students, Male	385	5.6	0.05	4.2	4.4	4.9	5.5	6.2	6.9	7.3	72.6	27.4 ~	12.80	<3 ~	
SBP Participants	51	5.7	0.11	4.4 ~	4.7 ~	5.1 ~	5.6 ~	6.2 ~	6.8 ~	7.1 ~	79.5	20.5 ~	73.50	<3 ~	
SBP Nonparticipants	334	5.6	0.06	4.0	4.3	4.8	5.5	6.3	7.0	7.5	69.6	30.4 ~	9.88	<3 ~	
High School Students, Female	410	5.8	0.09	3.4	3.8	4.6	5.6	6.8	8.1	9.0	62.8	34.9	4.60	<3 ~	
SBP Participants	43	6.0	0.23	3.9 ~	4.3 ~	4.9 ~	5.8 ~	6.9 ~	8.0 ~	8.8 ~	70.8	27.4 ~	23.40	<3 ~	
SBP Nonparticipants	367	5.8	0.09	3.3	3.8	4.5	5.6	6.9	8.2	9.1	61.9	35.7	4.61	<3 ~	
Secondary School Students	1,582	5.7	0.03	3.9	4.2	4.8	5.5	6.4	7.2	7.8	68.1	31.6	4.11	<3 ~	
SBP Participants	221	5.9	0.04	5.0 ~	5.2	5.5	5.8	6.2	6.6	6.8 ~	94.8	5.2 ~	48.10	<3 ~	
SBP Nonparticipants	1,361	5.6	0.03	3.8	4.1	4.7	5.5	6.4	7.3	7.9	65.6	34.0	3.66	<3 ~	
Secondary School Students, Male	771	5.5	0.03	4.1	4.4	4.8	5.4	6.1	6.7	7.1	68.4	31.6	8.12	<3 ~	
SBP Participants	125	5.7	0.08	4.4 ~	4.6 ~	5.1	5.6	6.3	6.9 ~	7.3 ~	78.3	21.7 ~	33.60	<3 ~	
SBP Nonparticipants	646	5.4	0.04	3.9	4.2	4.7	5.4	6.1	6.8	7.2	64.3	35.7	6.04	<3 ~	
Secondary School Students, Female	811	5.8	0.05	3.8	4.1	4.8	5.6	6.6	7.7	8.4	68.3	30.9	5.12	<3 ~	
SBP Participants	96	6.1	0.12	4.4 ~	4.7 ~	5.3	6.0	6.8	7.6 ~	8.1 ~	83.5	16.3 ~	28.40	<3 ~	
SBP Nonparticipants	715	5.8	0.05	3.7	4.1	4.7	5.6	6.6	7.7	8.4	66.8	32.3	4.99	<3 ~	

L.26

¹ Linoleic acid is an essential n-6 polyunsaturated fatty acid.

² Standard error not displayed when percentage is less than 3 or greater than 97.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by

Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE L.12

USUAL DAILY LINOLENIC ACID INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Linolenic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles						AI	
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	1.1	0.02	0.7	0.8	0.9	1.1	1.3	1.6	1.8	0.9
SBP Participants	75	1.2	0.04	0.7 ~	0.8 ~	1.0	1.2	1.5	1.7 ~	2.0 ~	0.9
SBP Nonparticipants	268	1.1	0.02	0.7 ~	0.7	0.9	1.1	1.3	1.6	1.7 ~	0.9
9 to 13 Years	953	1.2	0.01	0.7	0.8	1.0	1.2	1.4	1.7	1.8	--
SBP Participants	182	1.4	0.03	0.7 ~	0.9	1.0	1.3	1.6	2.0	2.2 ~	--
SBP Nonparticipants	771	1.2	0.01	0.7	0.8	0.9	1.1	1.4	1.6	1.8	--
9 to 13 Years, Male	469	1.2	0.01	0.8	0.9	1.0	1.2	1.4	1.7	1.8	1.2
SBP Participants	99	1.3	0.04	0.7 ~	0.8 ~	1.1	1.3	1.6	1.9 ~	2.1 ~	1.2
SBP Nonparticipants	370	1.2	0.01	0.8	0.9	1.0	1.2	1.4	1.6	1.7	1.2
9 to 13 Years, Female	484	1.2	0.02	0.7	0.8	0.9	1.1	1.4	1.7	1.9	1.0
SBP Participants	83	1.4	0.05	0.8 ~	0.9 ~	1.1	1.3	1.6	2.0 ~	2.2 ~	1.0
SBP Nonparticipants	401	1.2	0.02	0.6	0.7	0.9	1.1	1.4	1.6	1.8	1.0
14 to 18 Years	1,018	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--
SBP Participants	124	1.6	0.04	1.0 ~	1.1 ~	1.3	1.5	1.8	2.1 ~	2.3 ~	--
SBP Nonparticipants	894	1.4	0.02	0.6	0.7	1.0	1.3	1.7	2.1	2.4	--
14 to 18 Years, Male	506	1.6	0.02	0.9	1.0	1.2	1.6	1.9	2.4	2.7	1.6
SBP Participants	71	1.7	0.04	1.2 ~	1.3 ~	1.5	1.7	2.0	2.2 ~	2.4 ~	1.6
SBP Nonparticipants	435	1.6	0.03	0.8	0.9	1.2	1.5	1.9	2.4	2.7	1.6
14 to 18 Years, Female	512	1.2	0.02	0.6	0.6	0.8	1.1	1.4	1.7	2.0	1.1
SBP Participants	53	1.3	0.04	0.9 ~	1.0 ~	1.1 ~	1.3 ~	1.5 ~	1.7 ~	1.8 ~	1.1
SBP Nonparticipants	459	1.1	0.02	0.5	0.6	0.8	1.1	1.4	1.7	1.9	1.1
All Students	2,314	1.3	0.01	0.7	0.8	1.0	1.2	1.5	1.8	2.0	--
SBP Participants	381	1.4	0.02	0.8	0.9	1.1	1.3	1.6	1.9	2.2	--
SBP Nonparticipants	1,933	1.2	0.01	0.7	0.8	0.9	1.2	1.5	1.8	2.0	--
All Students, Male	1,143	1.4	0.01	0.8	0.9	1.1	1.3	1.6	1.9	2.2	--
SBP Participants	218	1.4	0.03	0.8 ~	0.9	1.1	1.4	1.7	2.0	2.2 ~	--
SBP Nonparticipants	925	1.4	0.01	0.8	0.9	1.0	1.3	1.6	1.9	2.2	--
All Students, Female	1,171	1.2	0.01	0.6	0.7	0.9	1.1	1.4	1.7	1.9	--
SBP Participants	163	1.3	0.03	0.7 ~	0.8	1.0	1.2	1.5	1.9	2.1 ~	--
SBP Nonparticipants	1,008	1.1	0.01	0.6	0.7	0.9	1.1	1.3	1.6	1.8	--
By School Type											
Elementary School Students	732	1.2	0.01	0.7	0.8	0.9	1.1	1.4	1.6	1.8	--
SBP Participants	160	1.3	0.03	0.7 ~	0.8	1.0	1.2	1.6	1.9 ~	2.1 ~	--
SBP Nonparticipants	572	1.1	0.01	0.7	0.8	0.9	1.1	1.3	1.5	1.7	--

TABLE L.12

USUAL DAILY LINOLENIC ACID INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Linolenic Acid Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	1.2	0.02	0.7	0.8	0.9	1.2	1.4	1.7	2.0	--
SBP Participants	93	1.3	0.05	0.7 ~	0.8 ~	1.0	1.3	1.6	2.0 ~	2.2 ~	--
SBP Nonparticipants	279	1.2	0.02	0.7 ~	0.8	0.9	1.1	1.4	1.7	1.8 ~	--
Elementary School Students, Female	360	1.1	0.01	0.8	0.8	1.0	1.1	1.3	1.5	1.6	--
SBP Participants	67	1.3	0.03	0.9 ~	1.0 ~	1.1	1.3	1.4	1.6 ~	1.8 ~	--
SBP Nonparticipants	293	1.1	0.01	0.7 ~	0.8	0.9	1.1	1.3	1.4	1.6 ~	--
Middle School Students	787	1.2	0.01	0.7	0.8	0.9	1.2	1.4	1.7	1.9	--
SBP Participants	127	1.3	0.03	0.9 ~	0.9 ~	1.1	1.3	1.5	1.8 ~	1.9 ~	--
SBP Nonparticipants	660	1.2	0.02	0.6	0.7	0.9	1.1	1.4	1.7	1.9	--
Middle School Students, Male	386	1.3	0.01	0.9	1.0	1.1	1.3	1.4	1.6	1.7	--
SBP Participants	74	1.4	0.03	0.9 ~	1.0 ~	1.2	1.3	1.6	1.7 ~	1.9 ~	--
SBP Nonparticipants	312	1.3	0.02	0.9 ~	0.9	1.1	1.2	1.4	1.6	1.8 ~	--
Middle School Students, Female	401	1.1	0.02	0.5	0.6	0.8	1.1	1.4	1.7	2.0	--
SBP Participants	53	1.3	0.07	0.6 ~	0.7 ~	0.9 ~	1.2 ~	1.6 ~	2.0 ~	2.3 ~	--
SBP Nonparticipants	348	1.1	0.03	0.5	0.6	0.8	1.0	1.4	1.7	2.0	--
High School Students	795	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.2	2.5	--
SBP Participants	94	1.6	0.05	0.9 ~	1.0 ~	1.3	1.6	1.9	2.3 ~	2.5 ~	--
SBP Nonparticipants	701	1.4	0.02	0.6	0.8	1.0	1.3	1.7	2.2	2.5	--
High School Students, Male	385	1.7	0.03	0.9	1.0	1.3	1.6	2.0	2.4	2.7	--
SBP Participants	51	1.8	0.06	1.2 ~	1.3 ~	1.5 ~	1.8 ~	2.1 ~	2.3 ~	2.5 ~	--
SBP Nonparticipants	334	1.7	0.03	0.9	1.0	1.3	1.6	2.0	2.4	2.7	--
High School Students, Female	410	1.2	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.1	--
SBP Participants	43	1.3	0.07	0.7 ~	0.8 ~	1.0 ~	1.3 ~	1.6 ~	1.9 ~	2.2 ~	--
SBP Nonparticipants	367	1.2	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.0	--
Secondary School Students	1,582	1.3	0.01	0.7	0.8	1.0	1.3	1.6	2.0	2.3	--
SBP Participants	221	1.5	0.03	0.9 ~	1.0	1.2	1.4	1.7	2.0	2.2 ~	--
SBP Nonparticipants	1,361	1.3	0.01	0.6	0.7	0.9	1.2	1.6	2.0	2.3	--
Secondary School Students, Male	771	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.1	2.4	--
SBP Participants	125	1.6	0.04	1.0 ~	1.1 ~	1.3	1.6	1.8	2.1 ~	2.3 ~	--
SBP Nonparticipants	646	1.5	0.02	0.8	0.9	1.2	1.4	1.8	2.2	2.4	--
Secondary School Students, Female	811	1.2	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.0	--
SBP Participants	96	1.3	0.06	0.6 ~	0.7 ~	0.9	1.2	1.6	2.0 ~	2.4 ~	--
SBP Nonparticipants	715	1.1	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.0	--

¹ Linolenic acid is an n-3 fatty acid. Dietary Reference Intakes are defined for a specific form of linolenic acid (alpha-linolenic acid). Intakes reported in this table are for the undifferentiated fatty acid.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

AI = Adequate Intake.

TABLE L.13

USUAL DAILY LINOLENIC ACID INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Linolenic Acid (% kcal) ¹									AMDR (0.6-1.2%) ²				
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE
					5	10	25	50	75	90					
By Age/Gender Group															
L.29	6 to 8 Years ³	343	0.52	0.007	0.36	0.38	0.43	0.50	0.58	0.68	0.74	21.62	78.4	7.71	<3 ~
	SBP Participants	75	0.54	0.013	0.38 ~	0.41 ~	0.46	0.52	0.60	0.68 ~	0.74 ~	24.60	75.4	16.20	<3 ~
	SBP Nonparticipants	268	0.51	0.008	0.35 ~	0.38	0.43	0.49	0.58	0.68	0.74 ~	20.90	79.1	9.01	<3 ~
	9 to 13 Years	953	0.52	0.002	0.41	0.43	0.47	0.51	0.56	0.61	0.64	11.73	88.3	16.90	<3 ~
	SBP Participants	182	0.56	0.009	0.39 ~	0.42	0.47	0.54	0.62	0.71	0.77 ~	31.19	68.8	11.30	<3 ~
	SBP Nonparticipants	771	0.51	0.002	0.40	0.42	0.46	0.50	0.55	0.60	0.63	9.41	90.6	17.00	<3 ~
	9 to 13 Years, Male	469	0.50	0.004	0.38	0.40	0.44	0.49	0.55	0.60	0.64	10.91	89.1	13.70	<3 ~
	SBP Participants	99	0.52	0.006	0.43 ~	0.45 ~	0.48	0.52	0.56	0.60 ~	0.63 ~	10.28	89.7 ~	57.40	<3 ~
	SBP Nonparticipants	370	0.49	0.005	0.36	0.38	0.43	0.48	0.54	0.61	0.65	11.16	88.8	12.40	<3 ~
	9 to 13 Years, Female	484	0.54	0.003	0.43	0.46	0.49	0.53	0.58	0.63	0.66	17.76	82.2 ~	28.40	<3 ~
	SBP Participants	83	0.60	0.016	0.41 ~	0.44 ~	0.50	0.58	0.67	0.79 ~	0.86 ~	42.54	57.2	9.44	<3 ~
	SBP Nonparticipants	401	0.53	0.003	0.44	0.46	0.49	0.52	0.56	0.60	0.63	10.77	89.2 ~	41.40	<3 ~
	14 to 18 Years	1,018	0.56	0.004	0.38	0.41	0.47	0.54	0.63	0.73	0.79	31.75	68.2	6.00	<3 ~
	SBP Participants	124	0.56	0.010	0.41 ~	0.44 ~	0.49	0.55	0.62	0.71 ~	0.76 ~	31.95	68.0 ~	22.30	<3 ~
	SBP Nonparticipants	894	0.56	0.005	0.36	0.40	0.46	0.54	0.63	0.74	0.82	31.90	67.9	5.45	<3 ~
	14 to 18 Years, Male	506	0.55	0.006	0.37	0.40	0.46	0.53	0.63	0.73	0.80	31.05	68.8	6.57	<3 ~
	SBP Participants	71	0.57	0.012	0.44 ~	0.46 ~	0.51	0.56	0.63	0.70 ~	0.75 ~	33.75	66.2 ~	29.20	<3 ~
	SBP Nonparticipants	435	0.55	0.007	0.36	0.39	0.45	0.53	0.63	0.74	0.82	31.38	68.5	6.42	<3 ~
	14 to 18 Years, Female	512	0.56	0.005	0.39	0.42	0.47	0.54	0.63	0.72	0.78	32.25	67.8	10.30	<3 ~
	SBP Participants	53	0.57	0.014	0.41 ~	0.44 ~	0.49 ~	0.56 ~	0.63 ~	0.70 ~	0.74 ~	33.96	66.0 ~	47.20	<3 ~
	SBP Nonparticipants	459	0.56	0.007	0.37	0.40	0.46	0.54	0.63	0.74	0.82	32.55	67.3	8.56	<3 ~
	All Students	2,314	0.53	0.002	0.39	0.42	0.46	0.52	0.59	0.66	0.71	22.37	77.6	6.38	<3 ~
	SBP Participants	381	0.55	0.005	0.42	0.44	0.49	0.54	0.61	0.68	0.72	27.09	72.9	12.60	<3 ~
	SBP Nonparticipants	1,933	0.53	0.002	0.38	0.41	0.46	0.52	0.59	0.66	0.71	21.95	78.0	6.57	<3 ~
All Students, Male	1,143	0.52	0.003	0.37	0.39	0.45	0.51	0.58	0.66	0.72	21.09	78.9	6.17	<3 ~	
SBP Participants	218	0.54	0.006	0.41 ~	0.43	0.48	0.53	0.59	0.66	0.71 ~	23.22	76.8	15.70	<3 ~	
SBP Nonparticipants	925	0.52	0.004	0.36	0.38	0.44	0.50	0.58	0.67	0.73	20.85	79.2	6.51	<3 ~	
All Students, Female	1,171	0.54	0.003	0.41	0.44	0.48	0.53	0.59	0.66	0.70	23.34	76.7	12.90	<3 ~	
SBP Participants	163	0.57	0.006	0.45 ~	0.47	0.51	0.56	0.62	0.67	0.71 ~	31.31	68.7 ~	29.40	<3 ~	
SBP Nonparticipants	1,008	0.54	0.003	0.40	0.42	0.47	0.53	0.59	0.67	0.71	23.55	76.4	11.10	<3 ~	
By School Type															
Elementary School Students	732	0.52	0.003	0.40	0.42	0.46	0.51	0.57	0.62	0.66	14.95	85.0	13.20	<3 ~	
SBP Participants	160	0.54	0.008	0.40 ~	0.43	0.48	0.53	0.60	0.67 ~	0.72 ~	25.71	74.3	15.60	<3 ~	
SBP Nonparticipants	572	0.51	0.003	0.39	0.41	0.45	0.50	0.56	0.62	0.65	13.19	86.8	14.50	<3 ~	

TABLE L.13

USUAL DAILY LINOLENIC ACID INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Percent of Energy from Linolenic Acid (% kcal) ¹										AMDR (0.6-1.2%) ²				
	N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
				5	10	25	50	75	90						95
By School Type															
L.30	Elementary School Students, Male	372	0.50	0.007	0.33	0.36	0.42	0.49	0.57	0.67	0.73	19.60	80.4	6.66	<3 ~
	SBP Participants	93	0.54	0.011	0.38 ~	0.41 ~	0.47	0.53	0.60	0.68 ~	0.74 ~	25.36	74.6	13.30	<3 ~
	SBP Nonparticipants	279	0.49	0.008	0.31 ~	0.34	0.40	0.47	0.56	0.66	0.73 ~	17.99	82.0	7.68	<3 ~
	Elementary School Students, Female	360	0.53	0.001	0.49	0.50	0.51	0.53	0.55	0.56	0.58	<3	>97 ~		<3 ~
	SBP Participants	67	0.55	0.003	0.52 ~	0.52 ~	0.54	0.55	0.57	0.58 ~	0.59 ~	<3	>97 ~		<3 ~
	SBP Nonparticipants	293	0.52	0.003	0.45 ~	0.47	0.49	0.52	0.55	0.59	0.60 ~	6.00	94.0 ~	49.80	<3 ~
	Middle School Students	787	0.53	0.003	0.41	0.43	0.47	0.52	0.57	0.63	0.66	16.05	84.0	17.90	<3 ~
	SBP Participants	127	0.56	0.009	0.42 ~	0.44 ~	0.49	0.55	0.62	0.69 ~	0.73 ~	29.77	70.2 ~	23.10	<3 ~
	SBP Nonparticipants	660	0.52	0.003	0.40	0.42	0.46	0.51	0.57	0.63	0.67	16.91	83.1	15.10	<3 ~
	Middle School Students, Male	386	0.51	0.003	0.42	0.44	0.47	0.51	0.55	0.58	0.61	6.39	93.6 ~	28.40	<3 ~
	SBP Participants	74	0.51	0.005	0.44 ~	0.45 ~	0.48	0.51	0.54	0.57 ~	0.59 ~	3.00	97.0 ~	56.80	<3 ~
	SBP Nonparticipants	312	0.51	0.004	0.40 ~	0.42	0.46	0.50	0.56	0.61	0.65 ~	12.23	87.8	22.90	<3 ~
	Middle School Students, Female	401	0.54	0.005	0.41	0.43	0.48	0.53	0.60	0.66	0.70	24.39	75.6	19.70	<3 ~
	SBP Participants	53	0.63	0.030	0.36 ~	0.40 ~	0.48 ~	0.59 ~	0.74 ~	0.91 ~	1.04 ~	46.25	51.8	9.09	<3 ~
	SBP Nonparticipants	348	0.53	0.005	0.40	0.43	0.47	0.52	0.58	0.64	0.68	19.81	80.2	23.50	<3 ~
	High School Students	795	0.56	0.005	0.37	0.40	0.46	0.54	0.64	0.75	0.83	33.64	66.1	5.39	<3 ~
	SBP Participants	94	0.58	0.013	0.40 ~	0.43 ~	0.49	0.56	0.64	0.74 ~	0.82 ~	36.24	63.6	14.90	<3 ~
	SBP Nonparticipants	701	0.56	0.006	0.36	0.39	0.46	0.54	0.64	0.76	0.84	33.47	66.3	5.65	<3 ~
	High School Students, Male	385	0.56	0.007	0.37	0.40	0.46	0.54	0.64	0.74	0.82	33.06	66.8	7.22	<3 ~
	SBP Participants	51	0.58	0.019	0.40 ~	0.43 ~	0.49 ~	0.55 ~	0.64 ~	0.74 ~	0.83 ~	34.30	65.4 ~	23.60	<3 ~
	SBP Nonparticipants	334	0.56	0.008	0.36	0.40	0.46	0.54	0.64	0.75	0.82	33.12	66.7	7.18	<3 ~
	High School Students, Female	410	0.56	0.007	0.36	0.39	0.46	0.54	0.64	0.76	0.84	33.79	66.0	8.11	<3 ~
	SBP Participants	43	0.57	0.012	0.45 ~	0.48 ~	0.52 ~	0.57 ~	0.62 ~	0.67 ~	0.71 ~	33.85	66.2 ~	54.40	<3 ~
	SBP Nonparticipants	367	0.56	0.008	0.35	0.39	0.45	0.54	0.64	0.76	0.85	33.60	66.1	8.31	<3 ~
Secondary School Students	1,582	0.55	0.003	0.38	0.41	0.47	0.53	0.61	0.70	0.76	28.46	71.5	5.92	<3 ~	
SBP Participants	221	0.57	0.006	0.44 ~	0.46	0.50	0.56	0.62	0.68	0.72 ~	31.10	68.9 ~	22.30	<3 ~	
SBP Nonparticipants	1,361	0.54	0.003	0.37	0.40	0.46	0.53	0.61	0.71	0.77	28.50	71.5	5.67	<3 ~	
Secondary School Students, Male	771	0.54	0.004	0.40	0.42	0.47	0.53	0.60	0.67	0.72	24.93	75.1	10.10	<3 ~	
SBP Participants	125	0.54	0.003	0.49 ~	0.50 ~	0.52	0.54	0.57	0.59 ~	0.60 ~	6.27	93.7 ~	148.00	<3 ~	
SBP Nonparticipants	646	0.54	0.004	0.38	0.41	0.46	0.53	0.60	0.69	0.74	26.05	74.0	8.92	<3 ~	
Secondary School Students, Female	811	0.55	0.005	0.38	0.41	0.46	0.54	0.63	0.72	0.79	31.34	68.7	7.40	<3 ~	
SBP Participants	96	0.60	0.013	0.42 ~	0.45 ~	0.51	0.58	0.68	0.77 ~	0.83 ~	45.14	54.9	10.70	<3 ~	
SBP Nonparticipants	715	0.55	0.005	0.37	0.40	0.46	0.53	0.62	0.72	0.79	30.24	69.7	7.71	<3 ~	

¹ Linolenic acid is an n-3 fatty acid. Dietary Reference Intakes are defined for a specific form of linolenic acid (alpha-linolenic acid). Intakes reported in this table are for the undifferentiated fatty acid.

² Standard error not displayed when percentage is less than 3 or greater than 97.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by

Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE L.14

USUAL DAILY CARBOHYDRATE INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Carbohydrate Intakes (g)										EAR ¹	
	N	Mean	SE	Percentiles						EAR	% Below	SE
				5	10	25	50	75	90			
By Age/Gender Group												
6 to 8 Years ²	343	269	2.6	194	210	235	266	299	333	354	100	<3 ~
SBP Participants	75	282	7.9	194 ~	208 ~	233	270	318	372 ~	411 ~	100	<3 ~
SBP Nonparticipants	268	265	2.7	197 ~	210	234	262	292	322	341 ~	100	<3 ~
9 to 13 Years	953	289	2.4	177	199	237	282	334	387	423	100	<3 ~
SBP Participants	182	296	5.8	183 ~	206	245	288	338	395	435 ~	100	<3 ~
SBP Nonparticipants	771	287	2.7	177	198	235	281	332	385	419	100	<3 ~
9 to 13 Years, Male	469	309	3.4	201	222	258	302	352	404	439	100	<3 ~
SBP Participants	99	313	9.1	193 ~	212 ~	249	300	362	432 ~	480 ~	100	<3 ~
SBP Nonparticipants	370	307	3.6	205	225	260	302	349	397	429	100	<3 ~
9 to 13 Years, Female	484	269	3.4	157	178	216	263	315	367	400	100	<3 ~
SBP Participants	83	275	6.2	180 ~	205 ~	241	277	310	343 ~	365 ~	100	<3 ~
SBP Nonparticipants	401	267	3.8	155	175	213	260	314	368	403	100	<3 ~
14 to 18 Years	1,018	294	3.0	158	182	227	282	347	419	469	100	<3 ~
SBP Participants	124	337	8.3	206 ~	229 ~	271	327	392	459 ~	505 ~	100	<3 ~
SBP Nonparticipants	894	288	3.2	154	179	223	277	342	411	459	100	<3 ~
14 to 18 Years, Male	506	343	3.7	222	244	284	334	392	453	495	100	<3 ~
SBP Participants	71	374	7.7	278 ~	296 ~	328	367	412	459 ~	490 ~	100	<3 ~
SBP Nonparticipants	435	337	3.9	218	239	279	329	387	446	485	100	<3 ~
14 to 18 Years, Female	512	248	3.6	128	150	190	240	296	355	395	100	<3 ~
SBP Participants	53	276	10.2	167 ~	187 ~	223 ~	269 ~	321 ~	375 ~	409 ~	100	<3 ~
SBP Nonparticipants	459	245	3.8	126	148	188	237	294	353	392	100	<3 ~
All Students	2,314	286	1.7	171	193	231	278	332	389	429	100	<3 ~
SBP Participants	381	300	4.0	194	212	247	291	341	399	441	100	<3 ~
SBP Nonparticipants	1,933	283	1.8	168	190	228	275	329	386	425	100	<3 ~
All Students, Male	1,143	313	2.3	202	222	259	304	357	413	452	100	<3 ~
SBP Participants	218	316	5.8	204 ~	221	256	303	361	427	474 ~	100	<3 ~
SBP Nonparticipants	925	312	2.4	204	224	260	304	355	408	444	100	<3 ~
All Students, Female	1,171	260	2.1	151	173	210	254	304	354	388	100	<3 ~
SBP Participants	163	278	4.7	184 ~	205	238	274	314	354	382 ~	100	<3 ~
SBP Nonparticipants	1,008	257	2.3	147	168	206	251	301	354	388	100	<3 ~
By School Type												
Elementary School Students	732	282	2.1	197	214	243	279	317	355	380	100	<3 ~
SBP Participants	160	285	4.8	194 ~	211	242	280	323	365 ~	392 ~	100	<3 ~
SBP Nonparticipants	572	280	2.2	200	216	244	277	313	348	370	100	<3 ~

TABLE L.14

USUAL DAILY CARBOHYDRATE INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Carbohydrate Intakes (g)										EAR ¹	
	N	Mean	SE	Percentiles						EAR	% Below	SE
				5	10	25	50	75	90			
By School Type												
Elementary School Students, Male	372	295	2.7	215	231	259	292	328	364	387	100	<3 ~
SBP Participants	93	296	7.6	197 ~	211 ~	240	285	340	396 ~	431 ~	100	<3 ~
SBP Nonparticipants	279	295	2.2	236 ~	249	269	293	319	343	359 ~	100	<3 ~
Elementary School Students, Female	360	269	2.8	185	203	232	266	303	339	361	100	<3 ~
SBP Participants	67	279	6.2	197 ~	217 ~	247	278	310	343 ~	364 ~	100	<3 ~
SBP Nonparticipants	293	266	3.2	181 ~	197	227	263	301	338	361 ~	100	<3 ~
Middle School Students	787	275	3.3	146	169	211	264	327	395	441	100	<3 ~
SBP Participants	127	294	7.8	172 ~	191 ~	230	282	346	412 ~	457 ~	100	<3 ~
SBP Nonparticipants	660	272	3.5	144	167	208	261	323	389	435	100	<3 ~
Middle School Students, Male	386	299	4.6	170	192	234	289	353	420	464	100	<3 ~
SBP Participants	74	316	9.8	197 ~	217 ~	255	305	365	427 ~	469 ~	100	<3 ~
SBP Nonparticipants	312	295	5.1	168 ~	190	232	285	347	412	457 ~	100	<3 ~
Middle School Students, Female	401	253	4.3	131	153	193	243	302	365	409	100	<3 ~
SBP Participants	53	263	11.7	151 ~	168 ~	201 ~	249 ~	312 ~	380 ~	424 ~	100	<3 ~
SBP Nonparticipants	348	252	4.7	129	151	191	242	301	365	410	100	<3 ~
High School Students	795	300	3.5	164	188	233	288	354	426	477	100	<3 ~
SBP Participants	94	347	12.3	196 ~	222 ~	269	327	401	494 ~	567 ~	100	<3 ~
SBP Nonparticipants	701	295	3.6	162	186	229	284	348	418	466	100	<3 ~
High School Students, Male	385	353	4.2	234	255	295	345	403	462	501	100	<3 ~
SBP Participants	51	394	20.0	236 ~	255 ~	295 ~	359 ~	454 ~	576 ~	669 ~	100	<3 ~
SBP Nonparticipants	334	348	4.2	234	255	293	341	395	450	486	100	<3 ~
High School Students, Female	410	250	4.0	131	152	192	243	300	358	396	100	<3 ~
SBP Participants	43	273	13.0	147 ~	170 ~	212 ~	265 ~	325 ~	386 ~	425 ~	100	<3 ~
SBP Nonparticipants	367	248	4.2	131	152	191	241	297	354	391	100	<3 ~
Secondary School Students	1,582	290	2.4	155	179	223	278	343	414	464	100	<3 ~
SBP Participants	221	319	6.8	181 ~	203	246	304	375	452	505 ~	100	<3 ~
SBP Nonparticipants	1,361	286	2.6	153	177	220	274	339	408	457	100	<3 ~
Secondary School Students, Male	771	331	3.3	200	224	266	320	384	453	500	100	<3 ~
SBP Participants	125	352	7.9	228 ~	249 ~	289	341	403	468 ~	513 ~	100	<3 ~
SBP Nonparticipants	646	327	3.6	198	221	263	317	380	446	492	100	<3 ~
Secondary School Students, Female	811	252	2.9	132	154	193	243	300	360	402	100	<3 ~
SBP Participants	96	268	8.7	148 ~	168 ~	207	258	318	381 ~	424 ~	100	<3 ~
SBP Nonparticipants	715	250	3.1	131	152	192	241	298	358	400	100	<3 ~

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.15

USUAL DAILY CARBOHYDRATE INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Carbohydrate (% kcal)									AMDR (45-65%) ¹					
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
					5	10	25	50	75	90						95
By Age/Gender Group																
L.33	6 to 8 Years ²	343	55.0	0.21	48.6	50.1	52.5	55.0	57.6	59.8	61.1	>97	<3 ~		<3 ~	
	SBP Participants	75	55.5	0.49	48.6 ~	50.1 ~	52.6	55.4	58.3	61.0 ~	62.6 ~	>97	<3 ~		<3 ~	
	SBP Nonparticipants	268	54.8	0.21	49.0 ~	50.3	52.5	54.9	57.2	59.3	60.5 ~	>97	<3 ~		<3 ~	
	9 to 13 Years	953	55.3	0.10	50.2	51.3	53.2	55.3	57.3	59.2	60.3	>97	<3 ~		<3 ~	
	SBP Participants	182	53.5	0.43	44.0 ~	46.1	49.6	53.5	57.4	60.9	63.1 ~	88.0	9.6 ~	5.74	<3 ~	
	SBP Nonparticipants	771	55.7	0.09	51.7	52.6	54.1	55.7	57.3	58.7	59.6	>97	<3 ~		<3 ~	
	9 to 13 Years, Male	469	55.6	0.10	52.2	52.9	54.2	55.6	57.0	58.3	59.0	>97	<3 ~		<3 ~	
	SBP Participants	99	53.8	0.61	43.6 ~	45.9 ~	49.7	53.9	57.9	61.4 ~	63.5 ~	87.0	10.2 ~	8.52	<3 ~	
	SBP Nonparticipants	370	56.0	0.11	52.7	53.5	54.7	56.0	57.4	58.6	59.4	>97	<3 ~		<3 ~	
	9 to 13 Years, Female	484	54.9	0.17	48.8	50.2	52.5	54.9	57.4	59.6	60.9	>97	<3 ~		<3 ~	
	SBP Participants	83	53.2	0.58	44.8 ~	46.5 ~	49.5	53.0	56.6	60.1 ~	62.2 ~	90.2	8.1 ~	8.06	<3 ~	
	SBP Nonparticipants	401	55.3	0.17	49.6	50.9	53.0	55.3	57.6	59.6	60.9	>97	<3 ~		<3 ~	
	14 to 18 Years	1,018	53.7	0.16	45.2	47.1	50.3	53.7	57.1	60.3	62.2	91.6	6.8 ~	4.29	<3 ~	
	SBP Participants	124	54.4	0.42	46.9 ~	48.6 ~	51.3	54.3	57.4	60.4 ~	62.3 ~	94.9	3.4 ~	13.20	<3 ~	
	SBP Nonparticipants	894	53.6	0.19	44.4	46.6	50.0	53.7	57.3	60.7	62.8	89.4	8.4 ~	4.26	<3 ~	
	14 to 18 Years, Male	506	52.7	0.12	48.3	49.3	50.9	52.7	54.4	56.0	57.0	>97	<3 ~		<3 ~	
	SBP Participants	71	54.1	0.27	50.6 ~	51.3 ~	52.6	54.1	55.6	57.0 ~	58.0 ~	>97	<3 ~		<3 ~	
	SBP Nonparticipants	435	52.4	0.16	46.8	48.0	50.1	52.5	54.7	56.8	58.0	96.8	3.2 ~	10.00	<3 ~	
	14 to 18 Years, Female	512	54.7	0.28	44.3	46.8	50.6	54.7	58.8	62.6	65.0	86.8	8.2 ~	4.71	5.0 ~	3.76
	SBP Participants	53	54.9	0.34	50.8 ~	51.8 ~	53.3 ~	54.9 ~	56.6 ~	58.1 ~	59.0 ~	>97	<3 ~		<3 ~	
SBP Nonparticipants	459	54.7	0.30	44.0	46.5	50.5	54.7	58.9	62.8	65.3	85.9	8.7 ~	4.78	5.4 ~	3.87	
All Students	2,314	54.7	0.09	47.8	49.4	51.9	54.7	57.4	59.9	61.4	>97	<3 ~		<3 ~		
SBP Participants	381	54.3	0.22	47.4	48.9	51.4	54.3	57.2	59.8	61.4	96.9	<3 ~		<3 ~		
SBP Nonparticipants	1,933	54.7	0.09	47.8	49.4	52.0	54.8	57.5	60.0	61.5	>97	<3 ~		<3 ~		
All Students, Male	1,143	54.3	0.06	50.7	51.5	52.8	54.3	55.7	57.0	57.8	>97	<3 ~		<3 ~		
SBP Participants	218	54.1	0.24	48.4 ~	49.7	51.7	54.0	56.4	58.6	59.9 ~	>97	<3 ~		<3 ~		
SBP Nonparticipants	925	54.3	0.05	52.0	52.5	53.4	54.3	55.3	56.1	56.6	>97	<3 ~		<3 ~		
All Students, Female	1,171	55.0	0.15	46.6	48.6	51.7	55.1	58.4	61.4	63.2	93.8	3.9 ~	2.58	<3 ~		
SBP Participants	163	54.7	0.40	46.2 ~	48.1	51.3	54.8	58.2	61.2	63.0 ~	93.3	4.7 ~	5.60	<3 ~		
SBP Nonparticipants	1,008	55.1	0.16	46.6	48.6	51.7	55.2	58.5	61.5	63.3	93.6	3.9 ~	2.86	<3 ~		
By School Type																
Elementary School Students	732	55.1	0.14	48.6	50.1	52.5	55.2	57.8	60.1	61.5	>97	<3 ~		<3 ~		
SBP Participants	160	54.4	0.46	44.8 ~	46.9	50.5	54.5	58.4	61.9 ~	63.9 ~	89.2	7.5 ~	4.76	3.3 ~	3.12	
SBP Nonparticipants	572	55.3	0.14	49.9	51.1	53.1	55.4	57.5	59.5	60.6	>97	<3 ~		<3 ~		

TABLE L.15

USUAL DAILY CARBOHYDRATE INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

		Percent of Energy from Carbohydrate (% kcal)									AMDR (45-65%) ¹					
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE	
					5	10	25	50	75	90						95
By School Type																
L.34	Elementary School Students, Male	372	55.1	0.19	49.2	50.5	52.7	55.1	57.5	59.7	61.0	>97	<3 ~		<3 ~	
	SBP Participants	93	54.2	0.65	43.9 ~	46.1 ~	50.0	54.2	58.4	62.3 ~	64.5 ~	86.1	9.6 ~	6.39	4.3 ~	4.39
	SBP Nonparticipants	279	55.4	0.21	49.6 ~	50.9	53.0	55.4	57.8	60.0	61.3 ~	>97	<3 ~		<3 ~	
	Elementary School Students, Female	360	55.1	0.22	48.1	49.7	52.4	55.2	58.0	60.4	61.8	>97	<3 ~		<3 ~	
	SBP Participants	67	54.8	0.58	46.9 ~	48.7 ~	51.6	54.8	58.0	60.8 ~	62.4 ~	95.3	3.3 ~	7.38	<3 ~	
	SBP Nonparticipants	293	55.2	0.24	48.2 ~	49.8	52.5	55.3	58.1	60.5	61.9 ~	>97	<3 ~		<3 ~	
	Middle School Students	787	54.7	0.11	49.7	50.8	52.7	54.7	56.7	58.5	59.7	>97	<3 ~		<3 ~	
	SBP Participants	127	53.9	0.40	46.7 ~	48.3 ~	50.8	53.7	56.7	59.7 ~	61.6 ~	95.2	3.5 ~	6.43	<3 ~	
	SBP Nonparticipants	660	54.8	0.11	50.1	51.1	52.9	54.8	56.8	58.6	59.6	>97	<3 ~		<3 ~	
	Middle School Students, Male	386	54.1	0.15	49.2	50.3	52.1	54.1	56.1	57.9	59.0	>97	<3 ~		<3 ~	
	SBP Participants	74	52.7	0.32	48.3 ~	49.3 ~	50.8	52.6	54.5	56.2 ~	57.3 ~	>97	<3 ~		<3 ~	
	SBP Nonparticipants	312	54.4	0.18	49.2 ~	50.4	52.3	54.4	56.6	58.5	59.6 ~	>97	<3 ~		<3 ~	
	Middle School Students, Female	401	55.2	0.23	47.7	49.4	52.1	55.2	58.3	61.0	62.8	96.1	<3 ~		<3 ~	
	SBP Participants	53	53.8	0.58	47.0 ~	48.5 ~	50.9 ~	53.7 ~	56.6 ~	59.3 ~	60.9 ~	96.6	<3 ~		<3 ~	
	SBP Nonparticipants	348	55.2	0.23	48.1	49.6	52.2	55.2	58.1	60.7	62.3	>97	<3 ~		<3 ~	
	High School Students	795	53.8	0.19	44.8	46.9	50.3	53.9	57.4	60.7	62.8	90.4	7.5 ~	4.68	<3 ~	
	SBP Participants	94	54.5	0.51	46.6 ~	48.4 ~	51.3	54.4	57.6	60.7 ~	62.7 ~	94.0	4.0 ~	15.90	<3 ~	
	SBP Nonparticipants	701	53.8	0.22	44.1	46.4	50.0	53.8	57.6	61.1	63.3	88.3	9.0 ~	4.65	<3 ~	
	High School Students, Male	385	52.8	0.18	47.1	48.4	50.5	52.8	55.2	57.2	58.5	>97	<3 ~		<3 ~	
	SBP Participants	51	54.8	0.42	50.2 ~	51.1 ~	52.8 ~	54.7 ~	56.8 ~	58.7 ~	60.0 ~	>97	<3 ~		<3 ~	
	SBP Nonparticipants	334	52.5	0.22	45.8	47.3	49.8	52.6	55.3	57.6	59.0	94.4	5.5 ~	10.30	<3 ~	
	High School Students, Female	410	54.8	0.32	44.0	46.6	50.6	54.8	59.0	62.9	65.3	85.8	8.6 ~	5.38	5.5 ~	4.43
	SBP Participants	43	53.6	0.67	46.2 ~	48.0 ~	50.9 ~	53.7 ~	56.5 ~	59.1 ~	60.6 ~	95.0	4.6 ~	26.80	<3 ~	
	SBP Nonparticipants	367	54.9	0.35	43.7	46.4	50.6	54.9	59.2	63.2	65.7	84.9	9.0 ~	5.53	6.1 ~	4.70
Secondary School Students	1,582	54.2	0.11	46.9	48.5	51.2	54.2	57.1	59.8	61.5	95.8	3.4 ~	3.23	<3 ~		
SBP Participants	221	54.1	0.18	49.8 ~	50.8	52.4	54.1	55.9	57.5	58.5 ~	>97	<3 ~		<3 ~		
SBP Nonparticipants	1,361	54.2	0.13	46.5	48.2	51.1	54.2	57.3	60.1	61.8	94.8	4.1 ~	3.58	<3 ~		
Secondary School Students, Male	771	53.3	0.05	51.0	51.5	52.4	53.3	54.3	55.1	55.6	>97	<3 ~		<3 ~		
SBP Participants	125	53.8	0.10	52.0 ~	52.4 ~	53.1	53.8	54.6	55.3 ~	55.7 ~	>97	<3 ~		<3 ~		
SBP Nonparticipants	646	53.2	0.07	50.1	50.8	52.0	53.3	54.5	55.7	56.4	>97	<3 ~		<3 ~		
Secondary School Students, Female	811	55.0	0.20	45.5	47.7	51.2	55.0	58.7	62.1	64.3	90.2	6.0 ~	3.77	3.9 ~	3.02	
SBP Participants	96	54.6	0.63	44.3 ~	46.9 ~	50.8	54.8	58.6	62.2 ~	64.5 ~	87.7	8.0 ~	8.92	4.3 ~	6.61	
SBP Nonparticipants	715	55.0	0.21	45.5	47.7	51.3	55.0	58.7	62.2	64.3	90.2	5.9 ~	4.08	3.9 ~	3.31	

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE L.16

USUAL DAILY PROTEIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Protein Intakes (g/kg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ³	331	2.6	0.04	1.6	1.8	2.1	2.5	3.0	3.5	3.8	0.76	<3 ~	
SBP Participants	74	2.6	0.08	1.7 ~	1.8 ~	2.2	2.6	3.0	3.5 ~	3.8 ~	0.76	<3 ~	
SBP Nonparticipants	257	2.6	0.04	1.6 ~	1.7	2.1	2.5	3.0	3.5	3.8 ~	0.76	<3 ~	
9 to 13 Years	921	1.9	0.02	1.0	1.1	1.4	1.8	2.3	2.8	3.1	0.76	<3 ~	
SBP Participants	173	2.1	0.06	1.0 ~	1.2	1.5	2.0	2.6	3.3	3.7 ~	0.76	<3 ~	
SBP Nonparticipants	748	1.8	0.02	1.0	1.1	1.4	1.8	2.2	2.7	3.0	0.76	<3 ~	
9 to 13 Years, Male	456	2.0	0.03	1.2	1.3	1.6	1.9	2.3	2.8	3.1	0.76	<3 ~	
SBP Participants	98	2.2	0.07	1.3 ~	1.4 ~	1.7	2.1	2.5	3.1 ~	3.5 ~	0.76	<3 ~	
SBP Nonparticipants	358	1.9	0.03	1.2	1.3	1.5	1.9	2.2	2.6	2.9	0.76	<3 ~	
9 to 13 Years, Female	465	1.8	0.03	0.8	1.0	1.3	1.7	2.2	2.7	3.1	0.76	3.3 ~	1.75
SBP Participants	75	2.1	0.11	0.9 ~	1.0 ~	1.4	1.9	2.6	3.4 ~	3.9 ~	0.76	<3 ~	
SBP Nonparticipants	390	1.7	0.03	0.8	1.0	1.3	1.7	2.1	2.6	2.8	0.76	3.2 ~	2.05
14 to 18 Years	976	1.3	0.02	0.6	0.8	1.0	1.2	1.6	1.9	2.2	--	8.1	2.37
SBP Participants	121	1.5	0.04	0.9 ~	1.0 ~	1.2	1.4	1.7	2.0 ~	2.2 ~	--	<3 ~	
SBP Nonparticipants	855	1.3	0.02	0.6	0.7	0.9	1.2	1.6	1.9	2.2	--	9.1	2.55
14 to 18 Years, Male	494	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.0	2.2	0.73	<3 ~	
SBP Participants	70	1.6	0.03	1.2 ~	1.3 ~	1.4	1.6	1.7	1.9 ~	2.0 ~	0.73	<3 ~	
SBP Nonparticipants	424	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.0	2.2	0.73	<3 ~	
14 to 18 Years, Female	482	1.1	0.02	0.5	0.6	0.8	1.1	1.3	1.7	1.9	0.71	16.2	3.48
SBP Participants	51	1.3	0.06	0.7 ~	0.8 ~	1.0 ~	1.2 ~	1.5 ~	1.8 ~	2.1 ~	0.71	7.4 ~	8.01
SBP Nonparticipants	431	1.1	0.02	0.5	0.6	0.8	1.0	1.3	1.6	1.9	0.71	16.7	3.78
All Students	2,228	1.9	0.02	0.8	1.0	1.3	1.7	2.3	2.9	3.3	--	3.5	0.81
SBP Participants	368	2.2	0.04	1.0	1.2	1.6	2.1	2.6	3.3	3.7	--	<3 ~	
SBP Nonparticipants	1,860	1.8	0.02	0.8	0.9	1.2	1.7	2.2	2.8	3.2	--	3.8	0.97
All Students, Male	1,112	2.0	0.02	1.0	1.2	1.5	1.9	2.4	2.9	3.3	--	<3 ~	
SBP Participants	215	2.2	0.05	1.2 ~	1.4	1.7	2.1	2.7	3.2	3.5 ~	--	<3 ~	
SBP Nonparticipants	897	1.9	0.02	1.0	1.1	1.4	1.8	2.3	2.8	3.2	--	<3 ~	
All Students, Female	1,116	1.7	0.02	0.7	0.8	1.1	1.6	2.2	2.8	3.2	--	6.7	1.45
SBP Participants	153	2.1	0.07	0.9 ~	1.1 ~	1.4	1.9	2.6	3.3 ~	3.8 ~	--	<3 ~	
SBP Nonparticipants	963	1.7	0.02	0.6	0.8	1.1	1.6	2.1	2.7	3.0	--	7.3	1.66
By School Type													
Elementary School Students	706	2.3	0.03	1.3	1.5	1.9	2.3	2.8	3.3	3.6	--	<3 ~	
SBP Participants	156	2.5	0.06	1.4 ~	1.6 ~	2.0	2.4	2.9	3.6 ~	4.0 ~	--	<3 ~	
SBP Nonparticipants	550	2.3	0.03	1.3	1.5	1.8	2.2	2.7	3.2	3.5	--	<3 ~	

TABLE L.16

USUAL DAILY PROTEIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Protein Intakes (g/kg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	360	2.4	0.04	1.4	1.6	1.9	2.3	2.8	3.3	3.7	--	<3 ~	
SBP Participants	92	2.5	0.07	1.6 ~	1.8 ~	2.1	2.5	2.9	3.4 ~	3.8 ~	--	<3 ~	
SBP Nonparticipants	268	2.4	0.04	1.4 ~	1.5	1.8	2.3	2.8	3.3	3.7 ~	--	<3 ~	
Elementary School Students, Female	346	2.3	0.03	1.3	1.5	1.8	2.2	2.7	3.1	3.4	--	<3 ~	
SBP Participants	64	2.4	0.09	1.4 ~	1.6 ~	1.9	2.3	2.8	3.4 ~	3.7 ~	--	<3 ~	
SBP Nonparticipants	282	2.2	0.03	1.4 ~	1.6	1.8	2.2	2.6	3.0	3.2 ~	--	<3 ~	
Middle School Students	761	1.4	0.02	0.8	0.9	1.1	1.3	1.7	2.1	2.3	--	4.8 ~	2.37
SBP Participants	120	1.5	0.05	0.8 ~	0.9 ~	1.1	1.4	1.8	2.2 ~	2.5 ~	--	<3 ~	
SBP Nonparticipants	641	1.4	0.02	0.7	0.9	1.1	1.3	1.7	2.0	2.3	--	5.0 ~	2.72
Middle School Students, Male	377	1.6	0.02	1.0	1.1	1.3	1.5	1.8	2.1	2.3	--	<3 ~	
SBP Participants	72	1.7	0.05	1.2 ~	1.3 ~	1.4	1.7	2.0	2.3 ~	2.5 ~	--	<3 ~	
SBP Nonparticipants	305	1.5	0.02	1.0 ~	1.1	1.3	1.5	1.7	2.0	2.2 ~	--	<3 ~	
Middle School Students, Female	384	1.3	0.03	0.6	0.7	0.9	1.2	1.5	1.9	2.2	--	11.8 ~	3.67
SBP Participants	48	1.2	0.06	0.6 ~	0.7 ~	0.9 ~	1.1 ~	1.4 ~	1.7 ~	2.0 ~	--	12.0 ~	9.37
SBP Nonparticipants	336	1.3	0.03	0.6	0.7	0.9	1.2	1.6	1.9	2.2	--	12.0 ~	3.94
High School Students	761	1.3	0.02	0.6	0.7	1.0	1.2	1.6	2.0	2.2	--	9.1	2.62
SBP Participants	92	1.5	0.05	0.8 ~	1.0 ~	1.2	1.5	1.7	2.0 ~	2.3 ~	--	<3 ~	
SBP Nonparticipants	669	1.3	0.02	0.6	0.7	0.9	1.2	1.6	1.9	2.2	--	9.7	2.78
High School Students, Male	375	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.1	2.3	--	<3 ~	
SBP Participants	51	1.6	0.06	0.9 ~	1.1 ~	1.3 ~	1.5 ~	1.8 ~	2.1 ~	2.3 ~	--	<3 ~	
SBP Nonparticipants	324	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.1	2.3	--	<3 ~	
High School Students, Female	386	1.1	0.02	0.5	0.6	0.8	1.1	1.4	1.7	1.9	--	16.9	3.73
SBP Participants	41	1.4	0.08	0.7 ~	0.8 ~	1.0 ~	1.3 ~	1.6 ~	2.0 ~	2.2 ~	--	7.1 ~	7.67
SBP Nonparticipants	345	1.1	0.02	0.5	0.6	0.8	1.0	1.3	1.7	1.9	--	17.6	4.08
Secondary School Students	1,522	1.4	0.01	0.7	0.8	1.0	1.3	1.6	2.0	2.2	--	6.6	1.81
SBP Participants	212	1.5	0.03	0.8 ~	1.0	1.2	1.4	1.8	2.1	2.4 ~	--	<3 ~	
SBP Nonparticipants	1,310	1.3	0.01	0.7	0.8	1.0	1.3	1.6	2.0	2.2	--	7.4	2.02
Secondary School Students, Male	752	1.5	0.01	1.0	1.1	1.3	1.5	1.8	2.1	2.3	--	<3 ~	
SBP Participants	123	1.6	0.03	1.1 ~	1.2 ~	1.4	1.6	1.9	2.1 ~	2.3 ~	--	<3 ~	
SBP Nonparticipants	629	1.5	0.02	0.9	1.0	1.2	1.5	1.8	2.0	2.2	--	<3 ~	
Secondary School Students, Female	770	1.2	0.02	0.5	0.7	0.9	1.1	1.4	1.8	2.0	--	14.5	2.67
SBP Participants	89	1.3	0.05	0.7 ~	0.8 ~	0.9	1.2	1.5	1.8 ~	2.1 ~	--	8.1 ~	6.13
SBP Nonparticipants	681	1.2	0.02	0.5	0.6	0.8	1.1	1.4	1.8	2.0	--	15.2	2.89

¹ For students with a Body Mass Index (BMI) within the healthy range (BMI ≥ 5th percentile and < 85th percentile), actual body weight was used. For other students a weight was used that would place the individual at the nearest end of the healthy weight range, based on his or her height.

² Standard error not displayed when percentage is less than 3 or greater than 97.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

Sample excludes students with unreliable height or weight data.

TABLE L.17

USUAL DAILY PROTEIN INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

		Percent of Energy from Protein (% kcal)									AMDR (10-30%) ¹				
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE
					5	10	25	50	75	90					
By Age/Gender Group															
L.37	6 to 8 Years ²	343	14.4	0.11	11.2	11.9	13.0	14.3	15.7	17.0	17.8	>97	<3 ~		<3 ~
	SBP Participants	75	14.0	0.21	11.0 ~	11.7 ~	12.8	14.0	15.3	16.4 ~	17.0 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	268	14.5	0.13	11.2 ~	11.9	13.0	14.4	15.8	17.2	18.1 ~	>97	<3 ~		<3 ~
	9 to 13 Years	953	14.6	0.06	11.5	12.2	13.3	14.5	15.9	17.2	18.0	>97	<3 ~		<3 ~
	SBP Participants	182	15.1	0.20	10.9 ~	11.8	13.4	15.1	16.9	18.5	19.5 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	771	14.5	0.06	11.7	12.3	13.3	14.4	15.6	16.8	17.5	>97	<3 ~		<3 ~
	9 to 13 Years, Male	469	14.5	0.08	11.8	12.3	13.3	14.4	15.7	16.8	17.5	>97	<3 ~		<3 ~
	SBP Participants	99	15.2	0.28	10.8 ~	11.7 ~	13.2	15.1	17.0	18.9 ~	20.0 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	370	14.3	0.08	12.0	12.5	13.3	14.3	15.3	16.2	16.8	>97	<3 ~		<3 ~
	9 to 13 Years, Female	484	14.7	0.09	11.7	12.3	13.4	14.6	15.9	17.2	18.0	>97	<3 ~		<3 ~
	SBP Participants	83	15.1	0.24	11.3 ~	12.2 ~	13.7	15.2	16.6	17.8 ~	18.6 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	401	14.6	0.09	11.8	12.4	13.3	14.5	15.8	17.0	17.8	>97	<3 ~		<3 ~
	14 to 18 Years	1,018	14.6	0.08	10.6	11.4	12.8	14.4	16.2	18.0	19.2	>97	<3 ~		<3 ~
	SBP Participants	124	14.5	0.28	10.1 ~	10.8 ~	12.3	14.1	16.3	18.6 ~	20.1 ~	95.3	4.7 ~	6.24	<3 ~
	SBP Nonparticipants	894	14.6	0.09	10.7	11.5	12.9	14.5	16.2	18.0	19.1	>97	<3 ~		<3 ~
	14 to 18 Years, Male	506	15.0	0.12	10.9	11.7	13.0	14.8	16.7	18.6	19.9	>97	<3 ~		<3 ~
	SBP Participants	71	14.4	0.31	10.6 ~	11.3 ~	12.5	14.1	15.9	17.8 ~	19.0 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	435	15.1	0.13	11.0	11.8	13.2	14.9	16.8	18.7	19.9	>97	<3 ~		<3 ~
	14 to 18 Years, Female	512	14.3	0.10	10.7	11.4	12.7	14.1	15.7	17.3	18.3	>97	<3 ~		<3 ~
	SBP Participants	53	14.7	0.40	10.6 ~	11.4 ~	12.8 ~	14.4 ~	16.2 ~	18.3 ~	19.9 ~	97.0	3.0 ~	10.60	<3 ~
SBP Nonparticipants	459	14.2	0.11	10.6	11.4	12.7	14.1	15.7	17.2	18.2	>97	<3 ~		<3 ~	
All Students	2,314	14.6	0.05	11.2	11.9	13.1	14.4	15.9	17.4	18.3	>97	<3 ~		<3 ~	
SBP Participants	381	14.6	0.13	10.8	11.6	12.9	14.5	16.3	17.9	18.9	>97	<3 ~		<3 ~	
SBP Nonparticipants	1,933	14.5	0.05	11.2	11.9	13.1	14.4	15.9	17.3	18.2	>97	<3 ~		<3 ~	
All Students, Male	1,143	14.7	0.06	11.5	12.1	13.2	14.5	16.0	17.3	18.2	>97	<3 ~		<3 ~	
SBP Participants	218	14.7	0.16	11.0 ~	11.7	13.0	14.5	16.2	17.8	18.9 ~	>97	<3 ~		<3 ~	
SBP Nonparticipants	925	14.7	0.07	11.6	12.2	13.3	14.5	15.9	17.3	18.1	>97	<3 ~		<3 ~	
All Students, Female	1,171	14.4	0.06	11.1	11.8	13.0	14.3	15.8	17.2	18.2	>97	<3 ~		<3 ~	
SBP Participants	163	14.7	0.19	11.0 ~	11.7	13.0	14.6	16.3	17.6	18.4 ~	>97	<3 ~		<3 ~	
SBP Nonparticipants	1,008	14.4	0.07	11.1	11.8	13.0	14.3	15.8	17.2	18.1	>97	<3 ~		<3 ~	
By School Type															
Elementary School Students	732	14.6	0.07	11.5	12.1	13.2	14.5	15.9	17.2	18.1	>97	<3 ~		<3 ~	
SBP Participants	160	14.9	0.19	10.9 ~	11.7	13.2	14.8	16.5	18.1 ~	19.0 ~	>97	<3 ~		<3 ~	
SBP Nonparticipants	572	14.6	0.08	11.6	12.2	13.2	14.5	15.8	17.0	17.8	>97	<3 ~		<3 ~	

TABLE L.17

USUAL DAILY PROTEIN INTAKES, AS A PERCENTAGE OF ENERGY INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

		Percent of Energy from Protein (% kcal)									AMDR (10-30%) ¹				
		N	Mean	SE	Percentiles						% Within	% Below	SE	% Above	SE
					5	10	25	50	75	90					
By School Type															
L.38	Elementary School Students, Male	372	14.5	0.10	11.5	12.1	13.2	14.4	15.7	16.9	17.6	>97	<3 ~		<3 ~
	SBP Participants	93	14.9	0.25	11.2 ~	11.9 ~	13.2	14.7	16.4	18.0 ~	19.0 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	279	14.3	0.10	11.7 ~	12.3	13.2	14.3	15.4	16.4	17.1 ~	>97	<3 ~		<3 ~
	Elementary School Students, Female	360	14.8	0.11	11.4	12.1	13.3	14.7	16.1	17.5	18.4	>97	<3 ~		<3 ~
	SBP Participants	67	14.7	0.32	10.2 ~	11.3 ~	13.0	14.9	16.6	18.0 ~	18.8 ~	95.6	4.4 ~	4.89	<3 ~
	SBP Nonparticipants	293	14.8	0.12	11.5 ~	12.2	13.3	14.6	16.1	17.6	18.5 ~	>97	<3 ~		<3 ~
	Middle School Students	787	14.4	0.08	11.2	11.8	13.0	14.3	15.7	17.2	18.1	>97	<3 ~		<3 ~
	SBP Participants	127	14.0	0.17	11.0 ~	11.6 ~	12.6	13.9	15.2	16.5 ~	17.3 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	660	14.5	0.08	11.2	11.9	13.0	14.4	15.8	17.3	18.2	>97	<3 ~		<3 ~
	Middle School Students, Male	386	14.8	0.10	11.9	12.5	13.5	14.7	16.0	17.4	18.2	>97	<3 ~		<3 ~
	SBP Participants	74	14.4	0.33	10.1 ~	11.0 ~	12.4	14.2	16.2	18.1 ~	19.4 ~	95.6	4.4 ~	6.82	<3 ~
	SBP Nonparticipants	312	14.9	0.10	12.3 ~	12.8	13.7	14.8	16.0	17.2	17.9 ~	>97	<3 ~		<3 ~
	Middle School Students, Female	401	14.0	0.10	10.8	11.5	12.6	13.9	15.4	16.8	17.7	>97	<3 ~		<3 ~
	SBP Participants	53	13.4	0.15	11.6 ~	12.0 ~	12.6 ~	13.3 ~	14.1 ~	14.8 ~	15.3 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	348	14.1	0.12	10.8	11.4	12.6	14.0	15.5	17.0	18.0	>97	<3 ~		<3 ~
	High School Students	795	14.6	0.09	10.6	11.4	12.8	14.4	16.1	17.9	19.1	>97	<3 ~		<3 ~
	SBP Participants	94	14.7	0.38	9.8 ~	10.7 ~	12.3	14.2	16.5	19.3 ~	21.5 ~	93.7	5.9 ~	5.69	<3 ~
	SBP Nonparticipants	701	14.5	0.09	10.7	11.5	12.8	14.4	16.1	17.8	18.9	>97	<3 ~		<3 ~
	High School Students, Male	385	14.9	0.14	10.9	11.6	13.0	14.7	16.6	18.5	19.8	>97	<3 ~		<3 ~
	SBP Participants	51	14.3	0.34	10.8 ~	11.4 ~	12.5 ~	14.0 ~	15.7 ~	17.5 ~	18.8 ~	>97	<3 ~		<3 ~
	SBP Nonparticipants	334	15.0	0.15	11.0	11.7	13.1	14.8	16.7	18.6	19.8	>97	<3 ~		<3 ~
	High School Students, Female	410	14.2	0.12	10.6	11.3	12.6	14.1	15.7	17.2	18.3	>97	<3 ~		<3 ~
	SBP Participants	43	15.4	0.69	9.9 ~	11.1 ~	12.6 ~	14.6 ~	17.2 ~	20.5 ~	23.4 ~	93.4	5.3 ~	7.02	<3 ~
	SBP Nonparticipants	367	14.1	0.11	10.8	11.5	12.7	14.0	15.5	16.9	17.8	>97	<3 ~		<3 ~
Secondary School Students	1,582	14.5	0.06	10.9	11.6	12.9	14.3	16.0	17.6	18.6	>97	<3 ~		<3 ~	
SBP Participants	221	14.3	0.19	10.2 ~	11.0	12.3	14.1	16.0	18.0	19.3 ~	96.0	4.0 ~	4.24	<3 ~	
SBP Nonparticipants	1,361	14.5	0.06	10.9	11.7	12.9	14.4	16.0	17.5	18.6	>97	<3 ~		<3 ~	
Secondary School Students, Male	771	14.9	0.08	11.3	12.0	13.2	14.7	16.4	18.0	19.0	>97	<3 ~		<3 ~	
SBP Participants	125	14.3	0.25	10.3 ~	11.0 ~	12.4	14.1	16.0	18.0 ~	19.4 ~	96.3	3.7 ~	5.25	<3 ~	
SBP Nonparticipants	646	15.0	0.09	11.6	12.2	13.4	14.8	16.4	17.9	18.9	>97	<3 ~		<3 ~	
Secondary School Students, Female	811	14.1	0.08	10.7	11.4	12.6	14.0	15.5	17.0	18.0	>97	<3 ~		<3 ~	
SBP Participants	96	14.3	0.26	10.6 ~	11.3 ~	12.6	14.0	15.7	17.6 ~	18.9 ~	>97	<3 ~		<3 ~	
SBP Nonparticipants	715	14.1	0.08	10.7	11.4	12.6	14.0	15.5	17.0	17.9	>97	<3 ~		<3 ~	

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

AMDR = Acceptable Macronutrient Distribution Range.

TABLE L.18

USUAL DAILY VITAMIN A INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin A Intakes (RAE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	630	10.4	355	403	493	608	743	884	980	900	<3 ~	
SBP Participants	75	585	19.2	362 ~	401 ~	472	561	671	798 ~	892 ~	900	<3 ~	
SBP Nonparticipants	268	645	12.1	356 ~	407	503	625	766	909	1,003 ~	900	<3 ~	
9 to 13 Years	953	656	7.9	321	378	486	625	791	972	1,099	1,700	16.4	3.76
SBP Participants	182	649	16.4	338 ~	390	490	622	779	944	1,055 ~	1,700	14.5 ~	9.56
SBP Nonparticipants	771	657	8.9	314	372	482	624	796	982	1,112	1,700	17.2	4.08
9 to 13 Years, Male	469	700	10.6	375	432	537	673	833	1,002	1,115	1,700	11.5 ~	5.53
SBP Participants	99	650	19.1	373 ~	425 ~	518	631	760	897 ~	991 ~	1,700	12.5 ~	11.80
SBP Nonparticipants	370	713	12.4	373	432	543	686	854	1,030	1,147	1,700	11.4 ~	6.23
9 to 13 Years, Female	484	613	11.2	279	334	439	578	745	930	1,063	1,700	21.8	4.87
SBP Participants	83	652	26.0	338 ~	385 ~	481	615	783	968 ~	1,095 ~	1,700	14.8 ~	15.70
SBP Nonparticipants	401	600	12.1	273	328	431	566	730	914	1,045	1,700	23.1	5.16
14 to 18 Years	1,018	575	8.9	206	259	369	527	729	953	1,109	2,800	54.1	2.06
SBP Participants	124	634	2.4	591 ~	600 ~	616	634	652	669 ~	679 ~	2,800	14.5 ~	230.00
SBP Nonparticipants	894	567	9.9	190	242	353	514	724	961	1,127	2,800	55.4	2.17
14 to 18 Years, Male	506	680	13.3	280	341	463	634	847	1,079	1,238	2,800	49.4	2.91
SBP Participants	71	687	30.6	325 ~	385 ~	501	656	839	1,031 ~	1,159 ~	2,800	45.8	9.69
SBP Nonparticipants	435	678	15.8	249	311	439	622	856	1,116	1,296	2,800	51.0	2.91
14 to 18 Years, Female	512	478	10.2	175	219	309	439	604	787	914	2,800	58.1	3.10
SBP Participants	53	542	21.3	318 ~	357 ~	430 ~	525 ~	635 ~	748 ~	823 ~	2,800	39.4 ~	14.90
SBP Nonparticipants	459	473	11.0	168	211	302	432	599	786	916	2,800	59.2	3.35
All Students	2,314	622	5.3	276	332	440	586	763	957	1,092	--	25.1	1.81
SBP Participants	381	627	9.1	376	421	502	606	728	858	947	--	13.4 ~	5.56
SBP Nonparticipants	1,933	621	6.1	259	316	429	582	769	975	1,118	--	27.5	1.87
All Students, Male	1,143	681	7.0	345	405	514	653	817	994	1,116	--	21.1	2.89
SBP Participants	218	645	9.0	451 ~	487	551	632	725	820	883 ~	--	11.2 ~	7.19
SBP Nonparticipants	925	692	8.8	317	379	498	657	847	1,048	1,184	--	23.4	3.15
All Students, Female	1,171	563	7.1	239	290	391	526	694	881	1,014	--	29.1	2.32
SBP Participants	163	596	15.8	327 ~	369	452	566	707	862	970 ~	--	14.8 ~	11.20
SBP Nonparticipants	1,008	558	7.7	230	282	383	521	690	879	1,013	--	30.9	2.39
By School Type													
Elementary School Students	732	657	7.6	368	419	513	633	774	925	1,029	--	6.7 ~	3.59
SBP Participants	160	640	15.9	369 ~	416	501	611	744	896 ~	1,009 ~	--	5.9 ~	6.05
SBP Nonparticipants	572	663	8.8	364	416	514	639	786	940	1,045	--	7.0 ~	4.31

TABLE L.18

USUAL DAILY VITAMIN A INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin A Intakes (RAE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	682	11.1	373	429	531	660	808	962	1,066	--	6.0 ~	4.88
SBP Participants	93	632	18.7	391 ~	434 ~	509	604	723	861 ~	964 ~	--	5.2 ~	5.05
SBP Nonparticipants	279	701	12.7	386 ~	443	549	682	833	982	1,079 ~	--	5.8 ~	6.84
Elementary School Students, Female	360	640	11.9	342	392	484	605	756	929	1,056	--	8.8 ~	5.02
SBP Participants	67	648	24.3	382 ~	424 ~	507	618	757	909 ~	1,016 ~	--	6.5 ~	17.40
SBP Nonparticipants	293	638	13.3	340 ~	389	481	602	753	929	1,057 ~	--	9.6 ~	5.18
Middle School Students	787	590	9.0	248	303	409	553	729	923	1,058	--	33.7	3.15
SBP Participants	127	577	16.3	309 ~	356 ~	444	558	689	821 ~	908 ~	--	27.3 ~	16.80
SBP Nonparticipants	660	593	10.3	239	295	405	553	736	939	1,082	--	34.0	3.26
Middle School Students, Male	386	676	13.2	325	383	492	638	818	1,016	1,154	--	24.7	6.02
SBP Participants	74	660	17.7	429 ~	473 ~	552	650	757	861 ~	928 ~	--	16.3 ~	33.20
SBP Nonparticipants	312	680	15.8	308 ~	368	484	638	827	1,041	1,194 ~	--	25.6	6.08
Middle School Students, Female	401	512	11.2	203	251	348	481	642	812	926	--	41.6	3.38
SBP Participants	53	454	22.7	222 ~	260 ~	335 ~	433 ~	550 ~	673 ~	756 ~	--	49.5	8.41
SBP Nonparticipants	348	520	12.4	202	252	352	488	653	829	946	--	40.7	3.72
High School Students	795	585	10.1	214	268	378	537	739	963	1,119	--	52.4	2.28
SBP Participants	94	641	25.6	315 ~	365 ~	464	602	775	968 ~	1,104 ~	--	<3 ~	
SBP Nonparticipants	701	578	11.2	199	252	364	526	736	971	1,136	--	53.5	2.41
High School Students, Male	385	691	15.4	289	350	472	644	858	1,092	1,254	--	47.8	3.38
SBP Participants	51	698	36.5	357 ~	409 ~	512 ~	655 ~	836 ~	1,040 ~	1,184 ~	--	45.6	12.90
SBP Nonparticipants	334	690	18.3	256	318	447	633	870	1,134	1,319	--	49.3	3.33
High School Students, Female	410	487	11.9	180	224	314	445	613	802	936	--	56.8	3.36
SBP Participants	43	555	30.2	281 ~	326 ~	412 ~	529 ~	669 ~	818 ~	919 ~	--	41.1	10.70
SBP Nonparticipants	367	482	12.3	175	220	311	443	610	795	923	--	57.2	3.68
Secondary School Students	1,582	586	6.9	226	280	390	542	734	948	1,098	--	44.9	1.66
SBP Participants	221	608	10.7	373 ~	416	495	594	706	820	893 ~	--	31.4 ~	12.30
SBP Nonparticipants	1,361	583	7.7	211	265	377	536	738	960	1,114	--	46.1	1.71
Secondary School Students, Male	771	682	10.1	305	364	480	639	839	1,056	1,204	--	38.4	2.98
SBP Participants	125	678	22.0	327 ~	387 ~	501	650	825	1,006 ~	1,125 ~	--	<3 ~	
SBP Nonparticipants	646	682	12.2	274	335	458	631	852	1,098	1,267	--	40.6	2.80
Secondary School Students, Female	811	497	8.3	182	229	325	460	629	814	939	--	50.5	2.12
SBP Participants	96	501	19.4	241 ~	283 ~	364	475	609	753 ~	852 ~	--	45.9	6.31
SBP Nonparticipants	715	497	8.9	181	228	324	459	629	815	942	--	50.8	2.29

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement. RAE = Retinol Activity Equivalents.

TABLE L.19

USUAL DAILY VITAMIN A INTAKES (IN RE): SBP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin A Intakes (RE)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By Age/Gender Group										
6 to 8 Years ¹	343	872	13.9	502	566	687	843	1,026	1,215	1,340
SBP Participants	75	810	34.2	441 ~	494 ~	601	754	957	1,195 ~	1,368 ~
SBP Nonparticipants	268	893	15.0	534 ~	598	717	869	1,043	1,219	1,335 ~
9 to 13 Years	953	906	10.2	470	544	683	865	1,083	1,320	1,484
SBP Participants	182	916	22.4	498 ~	567	700	876	1,090	1,317	1,471 ~
SBP Nonparticipants	771	902	11.2	466	543	684	863	1,075	1,309	1,472
9 to 13 Years, Male	469	949	13.7	536	607	739	911	1,119	1,342	1,492
SBP Participants	99	907	32.2	476 ~	549 ~	685	860	1,076	1,324 ~	1,502 ~
SBP Nonparticipants	370	962	15.1	547	623	760	930	1,128	1,342	1,489
9 to 13 Years, Female	484	859	15.0	412	486	625	811	1,038	1,290	1,468
SBP Participants	83	932	36.2	494 ~	562 ~	696	881	1,111	1,367 ~	1,546 ~
SBP Nonparticipants	401	841	16.1	403	475	613	795	1,017	1,262	1,433
14 to 18 Years	1,018	805	12.1	305	379	528	739	1,008	1,313	1,529
SBP Participants	124	961	33.4	455 ~	535 ~	692	907	1,171	1,456 ~	1,651 ~
SBP Nonparticipants	894	785	13.3	275	347	497	715	997	1,315	1,538
14 to 18 Years, Male	506	930	15.3	459	535	682	881	1,126	1,391	1,569
SBP Participants	71	1,076	40.6	595 ~	676 ~	830	1,034	1,275	1,530 ~	1,700 ~
SBP Nonparticipants	435	911	19.9	367	447	611	843	1,137	1,462	1,687
14 to 18 Years, Female	512	686	15.6	232	296	429	624	875	1,156	1,353
SBP Participants	53	795	47.0	337 ~	407 ~	548 ~	743 ~	986 ~	1,251 ~	1,433 ~
SBP Nonparticipants	459	677	16.2	232	294	425	615	861	1,138	1,331
All Students	2,314	863	7.1	401	476	621	814	1,051	1,310	1,491
SBP Participants	381	886	12.6	551	607	711	849	1,023	1,214	1,345
SBP Nonparticipants	1,933	856	8.1	377	453	602	804	1,052	1,325	1,515
All Students, Male	1,143	927	9.0	503	575	711	889	1,103	1,330	1,483
SBP Participants	218	902	9.3	700 ~	737	805	889	986	1,085	1,149 ~
SBP Nonparticipants	925	933	11.2	460	538	688	888	1,130	1,387	1,560
All Students, Female	1,171	798	10.2	337	409	550	743	984	1,255	1,449
SBP Participants	163	865	28.8	399 ~	466	602	798	1,053	1,346	1,556 ~
SBP Nonparticipants	1,008	786	10.9	330	401	541	732	971	1,238	1,428
By School Type										
Elementary School Students	732	913	10.2	527	594	719	880	1,071	1,275	1,414
SBP Participants	160	898	25.4	490 ~	550	671	841	1,062	1,316 ~	1,500 ~
SBP Nonparticipants	572	917	11.1	538	605	729	888	1,073	1,267	1,398

TABLE L.19

USUAL DAILY VITAMIN A INTAKES (IN RE): SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin A Intakes (RE)									
	N	Mean	SE	Percentiles						
				5	10	25	50	75	90	95
By School Type										
Elementary School Students, Male	372	932	16.1	497	571	710	892	1,112	1,346	1,503
SBP Participants	93	873	30.9	506 ~	558 ~	663	815	1,018	1,259 ~	1,436 ~
SBP Nonparticipants	279	956	17.4	535 ~	610	749	927	1,131	1,340	1,478 ~
Elementary School Students, Female	360	905	15.2	518	582	703	863	1,060	1,279	1,435
SBP Participants	67	934	19.8	695 ~	739 ~	820	920	1,033	1,148 ~	1,223 ~
SBP Nonparticipants	293	901	17.5	507 ~	571	692	854	1,056	1,288	1,456 ~
Middle School Students	787	795	10.8	382	449	578	751	964	1,197	1,358
SBP Participants	127	782	22.0	447 ~	504 ~	606	744	920	1,115 ~	1,246 ~
SBP Nonparticipants	660	797	12.3	370	439	572	751	972	1,214	1,381
Middle School Students, Male	386	878	14.4	488	554	677	840	1,039	1,254	1,401
SBP Participants	74	864	24.9	558 ~	613 ~	712	839	990	1,149 ~	1,254 ~
SBP Nonparticipants	312	889	18.1	451 ~	524	663	846	1,067	1,308	1,475 ~
Middle School Students, Female	401	719	15.4	301	368	499	675	890	1,126	1,290
SBP Participants	53	675	43.3	264 ~	324 ~	447 ~	622 ~	845 ~	1,094 ~	1,267 ~
SBP Nonparticipants	348	724	16.1	310	376	506	683	898	1,126	1,279
High School Students	795	823	13.6	317	392	545	761	1,033	1,333	1,539
SBP Participants	94	990	39.8	467 ~	550 ~	712	934	1,207	1,503 ~	1,706 ~
SBP Nonparticipants	701	805	15.3	283	357	512	735	1,023	1,344	1,568
High School Students, Male	385	958	17.3	486	563	713	914	1,154	1,409	1,581
SBP Participants	51	1,148	53.1	628 ~	713 ~	876 ~	1,096 ~	1,363 ~	1,650 ~	1,846 ~
SBP Nonparticipants	334	934	23.0	380	462	630	867	1,164	1,493	1,720
High School Students, Female	410	702	17.9	235	301	438	638	896	1,184	1,384
SBP Participants	43	796	52.6	331 ~	403 ~	546 ~	745 ~	990 ~	1,256 ~	1,437 ~
SBP Nonparticipants	367	694	18.5	237	302	437	632	884	1,166	1,362
Secondary School Students	1,582	811	8.9	342	414	557	755	1,004	1,280	1,471
SBP Participants	221	882	13.5	590 ~	643	740	862	1,003	1,148	1,244 ~
SBP Nonparticipants	1,361	802	10.0	315	388	536	742	1,002	1,291	1,494
Secondary School Students, Male	771	924	11.4	486	558	696	880	1,105	1,347	1,510
SBP Participants	125	995	27.7	568 ~	640 ~	775	953	1,171	1,407 ~	1,566 ~
SBP Nonparticipants	646	913	14.5	420	497	648	856	1,118	1,406	1,604
Secondary School Students, Female	811	707	12.1	254	320	457	651	897	1,166	1,352
SBP Participants	96	730	35.2	279 ~	345 ~	480	673	918	1,190 ~	1,378 ~
SBP Nonparticipants	715	705	12.7	258	324	459	650	892	1,157	1,340

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

RE = Retinol Equivalents.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a lunch.

TABLE L.20

USUAL DAILY VITAMIN C INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin C Intakes (mg)										EAR ^{1,2}		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ³	343	88	1.7	45	52	66	84	106	129	144	22	<3 ~	
SBP Participants	75	93	6.2	27 ~	36 ~	54	82	120	163 ~	194 ~	22	<3 ~	
SBP Nonparticipants	268	86	1.5	52 ~	58	69	84	101	119	130 ~	22	<3 ~	
9 to 13 Years	953	95	1.6	34	43	60	86	120	159	188	39	7.6 ~	4.00
SBP Participants	182	99	3.2	42 ~	51	68	93	123	156	179 ~	39	3.6 ~	6.92
SBP Nonparticipants	771	94	1.8	34	42	59	84	118	158	187	39	7.8 ~	4.70
9 to 13 Years, Male	469	98	2.0	42	50	67	90	121	155	179	39	3.5 ~	5.33
SBP Participants	99	106	3.0	64 ~	71 ~	85	103	124	146 ~	160 ~	39	<3 ~	
SBP Nonparticipants	370	95	2.2	40	48	64	87	117	150	174	39	4.3 ~	6.61
9 to 13 Years, Female	484	92	2.5	27	35	52	80	119	165	199	39	13.2 ~	4.88
SBP Participants	83	89	3.2	46 ~	54 ~	68	86	107	128 ~	142 ~	39	<3 ~	
SBP Nonparticipants	401	93	3.1	24	32	49	78	120	173	212	39	15.8 ~	5.07
14 to 18 Years	1,018	90	1.8	24	32	49	77	117	164	199	--	34.0	2.76
SBP Participants	124	110	3.8	54 ~	63 ~	80	103	133	166 ~	190 ~	--	9.2 ~	23.90
SBP Nonparticipants	894	88	1.9	22	30	47	75	114	162	197	--	36.2	2.67
14 to 18 Years, Male	506	101	2.5	32	41	60	90	129	175	207	63	27.3	5.69
SBP Participants	71	120	7.0	47 ~	57 ~	78	108	149	196 ~	231 ~	63	14.1 ~	24.60
SBP Nonparticipants	435	98	2.8	29	37	56	86	126	174	209	63	30.9	5.15
14 to 18 Years, Female	512	80	2.4	19	25	41	67	105	151	186	56	39.9	2.93
SBP Participants	53	99	10.1	26 ~	33 ~	50 ~	79 ~	125 ~	187 ~	238 ~	56	30.4 ~	12.80
SBP Nonparticipants	459	79	2.5	19	26	41	67	103	148	181	56	40.0	3.18
All Students	2,314	92	1.0	31	39	56	82	116	157	186	--	14.6	2.13
SBP Participants	381	99	2.2	43	51	68	92	123	156	179	--	5.4 ~	4.23
SBP Nonparticipants	1,933	90	1.1	29	37	54	79	115	156	186	--	16.6	2.37
All Students, Male	1,143	96	1.4	36	44	62	88	121	160	187	--	11.7	3.21
SBP Participants	218	102	3.1	42 ~	51	69	94	127	164	189 ~	--	4.1 ~	5.40
SBP Nonparticipants	925	95	1.6	34	42	60	85	120	159	188	--	13.7	3.76
All Students, Female	1,171	87	1.5	27	34	50	76	111	153	183	--	17.1	2.84
SBP Participants	163	94	3.1	40 ~	49	65	88	116	147	168 ~	--	6.2 ~	7.05
SBP Nonparticipants	1,008	85	1.6	25	32	48	74	110	153	184	--	19.0	3.00
By School Type													
Elementary School Students	732	93	1.4	43	50	66	87	113	143	163	--	<3 ~	
SBP Participants	160	99	4.3	31 ~	40	59	88	127	172 ~	204 ~	--	6.3 ~	4.38
SBP Nonparticipants	572	91	1.3	48	55	69	87	109	133	149	--	<3 ~	

TABLE L.20

USUAL DAILY VITAMIN C INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin C Intakes (mg)										EAR ^{1,2}		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	93	2.2	39	47	63	86	115	148	171	--	5.1 ~	4.13
SBP Participants	93	98	5.5	34 ~	42 ~	61	88	125	168 ~	199 ~	--	6.4 ~	5.95
SBP Nonparticipants	279	91	1.7	50 ~	57	70	88	108	130	144 ~	--	3.1 ~	5.36
Elementary School Students, Female	360	92	1.9	44	52	66	87	112	140	160	--	<3 ~	
SBP Participants	67	98	5.0	41 ~	50 ~	68	92	122	153 ~	174 ~	--	4.0 ~	7.50
SBP Nonparticipants	293	91	2.1	44 ~	52	66	85	110	137	157 ~	--	<3 ~	
Middle School Students	787	87	1.8	27	34	51	77	112	152	180	--	19.7	3.88
SBP Participants	127	83	2.0	49 ~	55 ~	66	80	97	113 ~	123 ~	--	<3 ~	
SBP Nonparticipants	660	87	2.1	24	32	49	76	114	157	187	--	21.1	3.92
Middle School Students, Male	386	92	2.6	31	38	54	81	118	161	191	--	13.4 ~	7.42
SBP Participants	74	88	4.2	37 ~	45 ~	61	84	110	138 ~	155 ~	--	8.8 ~	20.90
SBP Nonparticipants	312	94	3.4	24 ~	32	50	79	121	173	211 ~	--	21.5	5.81
Middle School Students, Female	401	82	2.2	24	31	48	74	107	141	164	--	20.4	4.82
SBP Participants	53	79	4.7	32 ~	39 ~	54 ~	73 ~	98 ~	125 ~	143 ~	--	14.5 ~	18.90
SBP Nonparticipants	348	82	2.5	23	31	48	75	108	143	167	--	20.8	4.99
High School Students	795	92	2.0	26	34	52	80	120	167	201	--	31.6	3.57
SBP Participants	94	117	5.4	51 ~	60 ~	80	108	144	186 ~	216 ~	--	10.2 ~	22.90
SBP Nonparticipants	701	90	2.2	23	31	48	77	117	166	203	--	34.6	3.23
High School Students, Male	385	105	2.7	38	47	67	95	133	176	207	--	22.3 ~	8.26
SBP Participants	51	128	10.9	42 ~	51 ~	73 ~	109 ~	163 ~	229 ~	279 ~	--	19.4 ~	13.60
SBP Nonparticipants	334	102	3.1	33	42	61	90	130	175	208	--	26.2	7.39
High School Students, Female	410	81	2.8	18	25	40	67	106	155	192	--	40.2	3.25
SBP Participants	43	103	12.4	26 ~	33 ~	50 ~	80 ~	129 ~	197 ~	255 ~	--	30.4 ~	15.60
SBP Nonparticipants	367	80	2.9	19	25	41	66	104	151	187	--	40.5	3.46
Secondary School Students	1,582	90	1.3	27	34	51	79	116	161	193	--	26.2	2.71
SBP Participants	221	99	1.8	61 ~	67	80	96	115	135	147 ~	--	<3 ~	
SBP Nonparticipants	1,361	89	1.5	24	32	49	77	116	162	195	--	29.1	2.53
Secondary School Students, Male	771	99	1.9	35	44	62	90	126	168	198	--	18.0 ~	5.71
SBP Participants	125	109	4.4	46 ~	55 ~	74	100	134	173 ~	200 ~	--	8.9 ~	17.60
SBP Nonparticipants	646	98	2.2	30	39	57	86	126	172	206	--	23.8	4.76
Secondary School Students, Female	811	81	1.8	20	28	44	70	107	150	180	--	31.4	2.88
SBP Participants	96	87	4.7	31 ~	38 ~	54	77	109	146 ~	173 ~	--	16.1 ~	18.00
SBP Nonparticipants	715	81	1.9	20	27	44	70	106	149	180	--	32.4	2.88

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The EAR for vitamin C for smokers is 35mg greater than for nonsmokers. This table uses EARs for nonsmokers.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

EAR = Estimated Average Requirement.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

TABLE L.21

USUAL DAILY VITAMIN E INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin E Intakes (mg AT)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	5.7	0.08	3.6	4.0	4.6	5.5	6.5	7.6	8.4	6	64.4	12.30
SBP Participants	75	5.5	0.13	3.8 ~	4.1 ~	4.7	5.5	6.3	7.0 ~	7.5 ~	6	67.7 ~	34.90
SBP Nonparticipants	268	5.7	0.10	3.6 ~	3.9	4.6	5.5	6.6	7.8	8.7 ~	6	63.2	12.80
9 to 13 Years	953	6.2	0.08	3.2	3.7	4.5	5.7	7.3	9.3	10.9	9	88.4	4.08
SBP Participants	182	6.7	0.29	2.9 ~	3.4	4.4	5.8	7.8	10.6	13.3 ~	9	83.8	6.06
SBP Nonparticipants	771	6.1	0.08	3.3	3.7	4.6	5.7	7.2	9.0	10.3	9	90.1	4.94
9 to 13 Years, Male	469	6.7	0.10	3.8	4.3	5.1	6.3	7.8	9.5	10.8	9	86.6	9.00
SBP Participants	99	7.8	0.59	3.0 ~	3.5 ~	4.7	6.4	8.9	12.9 ~	17.0 ~	9	75.6	8.68
SBP Nonparticipants	370	6.5	0.10	3.8	4.3	5.1	6.2	7.5	9.0	10.0	9	89.9	10.10
9 to 13 Years, Female	484	5.7	0.11	2.9	3.3	4.1	5.2	6.7	8.7	10.3	9	91.3	4.19
SBP Participants	83	5.7	0.23	2.7 ~	3.2 ~	4.2	5.4	6.9	8.5 ~	9.6 ~	9	92.5 ~	6.75
SBP Nonparticipants	401	5.7	0.13	2.9	3.3	4.1	5.2	6.7	8.7	10.4	9	91.2	5.05
14 to 18 Years	1,018	6.6	0.09	3.1	3.7	4.7	6.1	8.0	10.2	11.8	12	95.4	2.46
SBP Participants	124	6.8	0.09	5.3 ~	5.6 ~	6.1	6.7	7.4	8.1 ~	8.5 ~	12	>97 ~	
SBP Nonparticipants	894	6.6	0.10	3.0	3.6	4.6	6.1	8.0	10.3	12.0	12	95.0	2.53
14 to 18 Years, Male	506	7.5	0.11	4.2	4.7	5.8	7.2	9.0	10.8	12.0	12	95.0	5.73
SBP Participants	71	7.3	0.25	4.3 ~	4.8 ~	5.7	7.0	8.5	10.1 ~	11.1 ~	12	>97 ~	
SBP Nonparticipants	435	7.6	0.14	3.9	4.5	5.6	7.2	9.1	11.3	12.8	12	92.8	5.82
14 to 18 Years, Female	512	5.8	0.11	2.6	3.1	4.0	5.3	7.1	9.1	10.6	12	>97 ~	
SBP Participants	53	6.1	0.28	3.5 ~	3.9 ~	4.7 ~	5.7 ~	7.2 ~	8.8 ~	10.0 ~	12	>97 ~	
SBP Nonparticipants	459	5.8	0.12	2.6	3.0	4.0	5.3	7.0	9.1	10.6	12	>97 ~	
All Students	2,314	6.2	0.05	3.2	3.7	4.5	5.8	7.4	9.3	10.8	--	86.1	2.40
SBP Participants	381	6.3	0.12	3.4	3.8	4.7	5.9	7.4	9.2	10.6	--	82.4	5.91
SBP Nonparticipants	1,933	6.2	0.06	3.2	3.6	4.5	5.8	7.4	9.3	10.7	--	86.9	2.61
All Students, Male	1,143	6.8	0.06	4.0	4.5	5.3	6.5	7.8	9.4	10.5	--	85.8	6.11
SBP Participants	218	6.7	0.14	4.0 ~	4.5	5.3	6.4	7.8	9.4	10.6 ~	--	80.0	11.80
SBP Nonparticipants	925	6.8	0.07	3.9	4.4	5.3	6.5	7.9	9.5	10.6	--	87.5	6.55
All Students, Female	1,171	5.7	0.07	2.8	3.2	4.1	5.2	6.8	8.8	10.3	--	88.1	2.51
SBP Participants	163	5.7	0.17	2.9 ~	3.3	4.1	5.3	6.8	8.6	9.8 ~	--	87.1	6.82
SBP Nonparticipants	1,008	5.7	0.08	2.8	3.2	4.1	5.2	6.8	8.8	10.4	--	88.3	2.74
By School Type													
Elementary School Students	732	6.0	0.06	4.0	4.3	4.9	5.7	6.7	7.9	8.7	--	82.9	11.40
SBP Participants	160	6.2	0.22	3.2 ~	3.6	4.4	5.6	7.2	9.2 ~	10.9 ~	--	75.8	7.46
SBP Nonparticipants	572	5.9	0.05	4.2	4.5	5.1	5.8	6.6	7.5	8.1	--	85.8	18.30

L.45

TABLE L.21

USUAL DAILY VITAMIN E INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin E Intakes (mg AT)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	6.4	0.04	5.2	5.4	5.8	6.3	6.9	7.4	7.8	--	90.5 ~	68.20
SBP Participants	93	6.5	0.31	3.2 ~	3.7 ~	4.6	5.8	7.5	9.8 ~	11.7 ~	--	72.1	11.50
SBP Nonparticipants	279	6.4	0.05	5.1 ~	5.4	5.8	6.3	6.9	7.4	7.8 ~	--	93.6 ~	80.90
Elementary School Students, Female	360	5.5	0.08	3.6	3.9	4.5	5.3	6.3	7.4	8.2	--	83.8	9.24
SBP Participants	67	5.5	0.21	3.1 ~	3.5 ~	4.3	5.3	6.6	7.8 ~	8.7 ~	--	82.7 ~	9.70
SBP Nonparticipants	293	5.5	0.08	3.7 ~	4.0	4.5	5.3	6.3	7.4	8.2 ~	--	83.6	12.10
Middle School Students	787	6.0	0.08	3.0	3.5	4.4	5.6	7.2	9.1	10.4	--	91.7	3.81
SBP Participants	127	6.5	0.22	3.3 ~	3.8 ~	4.8	6.1	7.8	9.8 ~	11.1 ~	--	88.1 ~	9.73
SBP Nonparticipants	660	5.9	0.09	3.0	3.4	4.3	5.5	7.1	8.9	10.3	--	92.1	4.10
Middle School Students, Male	386	6.2	0.09	3.6	4.1	4.9	6.0	7.3	8.6	9.6	--	95.0	6.49
SBP Participants	74	7.1	0.19	4.8 ~	5.2 ~	5.9	6.9	8.1	9.3 ~	10.2 ~	--	88.7 ~	26.70
SBP Nonparticipants	312	6.0	0.10	3.5 ~	3.9	4.7	5.8	7.1	8.4	9.3 ~	--	96.1 ~	6.37
Middle School Students, Female	401	5.8	0.14	2.5	3.0	3.9	5.2	7.1	9.4	11.3	--	89.9	4.22
SBP Participants	53	5.8	0.38	2.4 ~	2.9 ~	3.8 ~	5.3 ~	7.2 ~	9.4 ~	11.0 ~	--	89.7 ~	9.63
SBP Nonparticipants	348	5.9	0.15	2.5	3.0	3.9	5.3	7.1	9.4	11.2	--	90.1	4.87
High School Students	795	6.8	0.11	3.0	3.5	4.7	6.3	8.4	10.8	12.7	--	93.5	2.79
SBP Participants	94	7.0	0.15	4.8 ~	5.2 ~	6.0	6.9	7.9	9.0 ~	9.7 ~	--	>97 ~	
SBP Nonparticipants	701	6.8	0.12	2.9	3.5	4.6	6.2	8.3	10.9	12.8	--	93.2	2.85
High School Students, Male	385	7.8	0.14	4.1	4.7	5.8	7.4	9.3	11.4	12.7	--	92.7	6.77
SBP Participants	51	7.5	0.30	4.4 ~	5.0 ~	6.0 ~	7.2 ~	8.7 ~	10.4 ~	11.5 ~	--	96.5 ~	24.40
SBP Nonparticipants	334	7.8	0.16	4.0	4.6	5.8	7.4	9.4	11.6	13.2	--	91.6	6.80
High School Students, Female	410	6.0	0.15	2.5	3.0	3.9	5.4	7.3	9.7	11.5	--	95.6	2.73
SBP Participants	43	6.4	0.35	3.6 ~	4.0 ~	4.8 ~	6.0 ~	7.6 ~	9.4 ~	10.7 ~	--	96.7 ~	16.00
SBP Nonparticipants	367	5.9	0.15	2.4	2.9	3.9	5.4	7.3	9.7	11.5	--	95.6	2.83
Secondary School Students	1,582	6.5	0.07	3.0	3.5	4.6	6.0	7.8	10.1	11.8	--	92.9	2.25
SBP Participants	221	6.8	0.15	3.7 ~	4.2	5.1	6.4	8.0	9.8	11.0 ~	--	93.3 ~	8.15
SBP Nonparticipants	1,361	6.5	0.08	3.0	3.5	4.5	5.9	7.8	10.1	11.8	--	93.0	2.36
Secondary School Students, Male	771	7.2	0.09	3.9	4.4	5.5	6.8	8.5	10.3	11.6	--	94.1	4.92
SBP Participants	125	7.2	0.11	5.5 ~	5.8 ~	6.4	7.2	8.0	8.8 ~	9.3 ~	--	>97 ~	
SBP Nonparticipants	646	7.1	0.10	3.8	4.3	5.3	6.7	8.5	10.4	11.8	--	93.8	4.94
Secondary School Students, Female	811	5.9	0.10	2.5	3.0	3.9	5.3	7.2	9.6	11.4	--	93.3	2.43
SBP Participants	96	6.1	0.30	2.7 ~	3.1 ~	4.0	5.4	7.4	9.8 ~	11.6 ~	--	92.5 ~	7.88
SBP Nonparticipants	715	5.9	0.11	2.5	3.0	4.0	5.3	7.2	9.5	11.3	--	93.5	2.64

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement; AT = Alpha-tocopherol

TABLE L.22

USUAL DAILY VITAMIN B₆ INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin B ₆ Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	1.6	0.02	1.1	1.2	1.4	1.6	1.9	2.2	2.4	0.5	<3 ~	
SBP Participants	75	1.5	0.04	1.0 ~	1.1 ~	1.2	1.5	1.7	1.9 ~	2.0 ~	0.5	<3 ~	
SBP Nonparticipants	268	1.7	0.03	1.1 ~	1.2	1.4	1.6	1.9	2.2	2.4 ~	0.5	<3 ~	
9 to 13 Years	953	1.8	0.02	1.0	1.1	1.4	1.7	2.1	2.6	2.9	0.8	<3 ~	
SBP Participants	182	1.8	0.05	0.9 ~	1.1	1.3	1.7	2.1	2.6	3.0 ~	0.8	<3 ~	
SBP Nonparticipants	771	1.8	0.02	1.0	1.2	1.4	1.7	2.1	2.6	2.9	0.8	<3 ~	
9 to 13 Years, Male	469	1.9	0.03	1.2	1.3	1.5	1.8	2.2	2.7	3.0	0.8	<3 ~	
SBP Participants	99	1.9	0.07	1.0 ~	1.1 ~	1.4	1.7	2.2	2.7 ~	3.1 ~	0.8	<3 ~	
SBP Nonparticipants	370	2.0	0.03	1.3	1.4	1.6	1.9	2.2	2.7	3.0	0.8	<3 ~	
9 to 13 Years, Female	484	1.7	0.03	0.9	1.0	1.3	1.6	2.0	2.4	2.7	0.8	<3 ~	
SBP Participants	83	1.7	0.06	0.9 ~	1.0 ~	1.3	1.6	2.0	2.4 ~	2.7 ~	0.8	<3 ~	
SBP Nonparticipants	401	1.7	0.03	0.9	1.0	1.3	1.6	2.0	2.4	2.7	0.8	3.2 ~	2.64
14 to 18 Years	1,018	1.9	0.02	0.9	1.1	1.3	1.7	2.2	2.8	3.2	--	8.4 ~	3.42
SBP Participants	124	2.0	0.06	1.0 ~	1.2 ~	1.5	1.8	2.3	2.9 ~	3.2 ~	--	4.8 ~	7.24
SBP Nonparticipants	894	1.8	0.02	0.9	1.0	1.3	1.7	2.2	2.8	3.2	--	9.0 ~	3.74
14 to 18 Years, Male	506	2.2	0.02	1.5	1.6	1.9	2.2	2.5	2.9	3.2	1.1	<3 ~	
SBP Participants	71	2.1	0.06	1.5 ~	1.6 ~	1.8	2.1	2.4	2.8 ~	3.0 ~	1.1	<3 ~	
SBP Nonparticipants	435	2.2	0.03	1.5	1.6	1.9	2.2	2.6	3.0	3.2	1.1	<3 ~	
14 to 18 Years, Female	512	1.5	0.03	0.7	0.8	1.1	1.4	1.8	2.3	2.6	1.0	19.5	4.63
SBP Participants	53	1.6	0.09	0.7 ~	0.8 ~	1.1 ~	1.5 ~	2.1 ~	2.5 ~	2.8 ~	1.0	18.3 ~	8.02
SBP Nonparticipants	459	1.5	0.03	0.7	0.8	1.1	1.4	1.8	2.2	2.5	1.0	19.5	5.32
All Students	2,314	1.8	0.01	1.0	1.1	1.4	1.7	2.1	2.6	2.9	--	3.4 ~	1.06
SBP Participants	381	1.7	0.03	1.0	1.1	1.3	1.6	2.0	2.5	2.8	--	<3 ~	
SBP Nonparticipants	1,933	1.8	0.01	1.0	1.1	1.4	1.7	2.1	2.6	3.0	--	3.8 ~	1.28
All Students, Male	1,143	2.0	0.02	1.3	1.4	1.6	1.9	2.3	2.7	2.9	--	<3 ~	
SBP Participants	218	1.8	0.04	1.1 ~	1.2	1.4	1.7	2.1	2.5	2.8 ~	--	<3 ~	
SBP Nonparticipants	925	2.0	0.02	1.3	1.4	1.7	2.0	2.3	2.7	3.0	--	<3 ~	
All Students, Female	1,171	1.6	0.02	0.8	0.9	1.2	1.5	1.9	2.3	2.7	--	7.9	1.84
SBP Participants	163	1.6	0.04	0.9 ~	1.0	1.2	1.6	1.9	2.3	2.6 ~	--	<3 ~	
SBP Nonparticipants	1,008	1.6	0.02	0.8	0.9	1.2	1.5	1.9	2.3	2.7	--	8.6	2.10
By School Type													
Elementary School Students	732	1.8	0.02	1.1	1.2	1.4	1.7	2.0	2.4	2.6	--	<3 ~	
SBP Participants	160	1.7	0.03	1.0 ~	1.1	1.3	1.6	1.9	2.2 ~	2.4 ~	--	<3 ~	
SBP Nonparticipants	572	1.8	0.02	1.2	1.3	1.5	1.7	2.0	2.3	2.6	--	<3 ~	

L.47

TABLE L.22

USUAL DAILY VITAMIN B₆ INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin B ₆ Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	1.8	0.02	1.3	1.4	1.5	1.8	2.0	2.3	2.5	--	<3 ~	
SBP Participants	93	1.7	0.06	1.0 ~	1.1 ~	1.3	1.6	2.0	2.4 ~	2.7 ~	--	<3 ~	
SBP Nonparticipants	279	1.8	0.02	1.4 ~	1.5	1.6	1.8	2.0	2.2	2.4 ~	--	<3 ~	
Elementary School Students, Female	360	1.7	0.03	1.0	1.2	1.4	1.6	2.0	2.3	2.6	--	<3 ~	
SBP Participants	67	1.6	0.06	0.9 ~	1.0 ~	1.3	1.6	2.0	2.3 ~	2.6 ~	--	<3 ~	
SBP Nonparticipants	293	1.7	0.03	1.1 ~	1.2	1.4	1.6	2.0	2.3	2.6 ~	--	<3 ~	
Middle School Students	787	1.7	0.03	0.8	1.0	1.2	1.6	2.0	2.5	3.0	--	6.4 ~	2.51
SBP Participants	127	1.7	0.05	1.0 ~	1.1 ~	1.3	1.6	1.9	2.4 ~	2.8 ~	--	<3 ~	
SBP Nonparticipants	660	1.7	0.03	0.8	1.0	1.2	1.6	2.0	2.6	3.0	--	7.0 ~	2.82
Middle School Students, Male	386	2.0	0.04	1.1	1.2	1.5	1.8	2.3	2.9	3.4	--	<3 ~	
SBP Participants	74	1.8	0.08	1.0 ~	1.1 ~	1.3	1.7	2.2	2.7 ~	3.1 ~	--	3.1 ~	5.89
SBP Nonparticipants	312	2.0	0.04	1.1 ~	1.2	1.5	1.9	2.4	3.0	3.5 ~	--	<3 ~	
Middle School Students, Female	401	1.4	0.03	0.7	0.8	1.1	1.4	1.7	2.1	2.4	--	12.3 ~	4.15
SBP Participants	53	1.4	0.06	0.9 ~	1.0 ~	1.1 ~	1.3 ~	1.6 ~	2.0 ~	2.2 ~	--	<3 ~	
SBP Nonparticipants	348	1.4	0.03	0.7	0.8	1.1	1.4	1.8	2.1	2.4	--	13.2 ~	4.59
High School Students	795	1.9	0.02	1.0	1.1	1.4	1.8	2.3	2.8	3.2	--	6.5 ~	3.89
SBP Participants	94	2.0	0.07	1.1 ~	1.3 ~	1.5	1.9	2.3	2.8 ~	3.2 ~	--	<3 ~	
SBP Nonparticipants	701	1.9	0.03	0.9	1.1	1.4	1.8	2.3	2.8	3.2	--	6.8 ~	4.28
High School Students, Male	385	2.3	0.01	2.0	2.0	2.1	2.3	2.4	2.6	2.6	--	<3 ~	
SBP Participants	51	2.2	0.03	1.9 ~	2.0 ~	2.1 ~	2.2 ~	2.3 ~	2.4 ~	2.5 ~	--	<3 ~	
SBP Nonparticipants	334	2.3	0.02	1.8	1.9	2.1	2.3	2.5	2.7	2.8	--	<3 ~	
High School Students, Female	410	1.6	0.03	0.7	0.8	1.1	1.4	1.9	2.4	2.8	--	19.6	4.50
SBP Participants	43	1.7	0.11	0.6 ~	0.8 ~	1.1 ~	1.7 ~	2.1 ~	2.6 ~	2.9 ~	--	18.6 ~	8.24
SBP Nonparticipants	367	1.5	0.03	0.7	0.8	1.1	1.4	1.9	2.4	2.7	--	18.5	5.49
Secondary School Students	1,582	1.8	0.02	0.9	1.0	1.3	1.7	2.2	2.7	3.2	--	7.3	2.19
SBP Participants	221	1.8	0.04	1.0 ~	1.1	1.4	1.7	2.1	2.6	3.0 ~	--	<3 ~	
SBP Nonparticipants	1,361	1.8	0.02	0.9	1.0	1.3	1.7	2.2	2.8	3.2	--	7.7 ~	2.45
Secondary School Students, Male	771	2.2	0.02	1.3	1.5	1.7	2.1	2.5	3.0	3.4	--	<3 ~	
SBP Participants	125	2.0	0.05	1.3 ~	1.4 ~	1.6	1.9	2.3	2.7 ~	3.0 ~	--	<3 ~	
SBP Nonparticipants	646	2.2	0.03	1.3	1.5	1.7	2.1	2.6	3.1	3.4	--	<3 ~	
Secondary School Students, Female	811	1.5	0.02	0.7	0.8	1.1	1.4	1.8	2.3	2.6	--	17.0	3.07
SBP Participants	96	1.6	0.06	0.8 ~	0.9 ~	1.1	1.4	1.9	2.3 ~	2.7 ~	--	9.9 ~	6.53
SBP Nonparticipants	715	1.5	0.02	0.7	0.8	1.1	1.4	1.8	2.3	2.6	--	17.0	3.45

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.23

USUAL DAILY VITAMIN B₁₂ INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Vitamin B ₁₂ Intakes (mcg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	5.0	0.10	2.5	2.9	3.7	4.7	6.1	7.6	8.6	1.0	<3 ~	
SBP Participants	75	5.2	0.22	2.6 ~	3.0 ~	3.8	4.9	6.2	7.7 ~	8.8 ~	1.0	<3 ~	
SBP Nonparticipants	268	5.0	0.12	2.4 ~	2.8	3.6	4.7	6.1	7.6	8.6 ~	1.0	<3 ~	
9 to 13 Years	953	5.4	0.06	2.7	3.2	4.0	5.1	6.4	7.9	9.0	1.5	<3 ~	
SBP Participants	182	6.1	0.17	3.1 ~	3.6	4.5	5.7	7.2	9.0	10.2 ~	1.5	<3 ~	
SBP Nonparticipants	771	5.2	0.07	2.7	3.1	3.9	4.9	6.2	7.6	8.7	1.5	<3 ~	
9 to 13 Years, Male	469	5.8	0.07	3.7	4.1	4.8	5.7	6.7	7.8	8.5	1.5	<3 ~	
SBP Participants	99	5.8	0.16	3.4 ~	3.9 ~	4.7	5.7	6.8	7.9 ~	8.6 ~	1.5	<3 ~	
SBP Nonparticipants	370	5.8	0.08	3.8	4.1	4.8	5.7	6.7	7.8	8.5	1.5	<3 ~	
9 to 13 Years, Female	484	4.9	0.09	2.2	2.6	3.4	4.5	6.0	7.6	8.8	1.5	<3 ~	
SBP Participants	83	5.9	0.31	2.3 ~	2.8 ~	3.9	5.4	7.4	9.7 ~	11.3 ~	1.5	<3 ~	
SBP Nonparticipants	401	4.6	0.09	2.1	2.5	3.2	4.3	5.6	7.0	8.1	1.5	<3 ~	
14 to 18 Years	1,018	5.3	0.08	1.8	2.3	3.3	4.8	6.7	8.9	10.3	2.0	6.7 ~	2.36
SBP Participants	124	5.4	0.15	3.1 ~	3.5 ~	4.3	5.3	6.5	7.6 ~	8.4 ~	2.0	<3 ~	
SBP Nonparticipants	894	5.2	0.09	1.7	2.2	3.2	4.8	6.7	9.0	10.5	2.0	8.0 ~	2.52
14 to 18 Years, Male	506	6.4	0.11	3.0	3.6	4.7	6.1	7.8	9.7	10.9	2.0	<3 ~	
SBP Participants	71	5.9	0.06	5.0 ~	5.2 ~	5.5	5.8	6.2	6.6 ~	6.8 ~	2.0	<3 ~	
SBP Nonparticipants	435	6.5	0.12	3.0	3.5	4.7	6.2	8.0	9.9	11.2	2.0	<3 ~	
14 to 18 Years, Female	512	4.2	0.10	1.4	1.8	2.6	3.8	5.3	7.1	8.3	2.0	12.8 ~	4.23
SBP Participants	53	4.7	0.24	2.2 ~	2.6 ~	3.4 ~	4.6 ~	5.9 ~	7.1 ~	7.8 ~	2.0	3.3 ~	11.20
SBP Nonparticipants	459	4.2	0.10	1.4	1.8	2.6	3.7	5.3	7.1	8.4	2.0	14.0 ~	4.35
All Students	2,314	5.3	0.05	2.3	2.8	3.7	4.9	6.4	8.2	9.4	--	<3 ~	
SBP Participants	381	5.6	0.10	3.0	3.4	4.3	5.4	6.7	8.2	9.3	--	<3 ~	
SBP Nonparticipants	1,933	5.2	0.05	2.2	2.6	3.6	4.8	6.4	8.2	9.5	--	<3 ~	
All Students, Male	1,143	5.9	0.06	3.2	3.7	4.5	5.7	7.0	8.5	9.5	--	<3 ~	
SBP Participants	218	5.7	0.10	3.4 ~	3.8	4.6	5.5	6.6	7.7	8.4 ~	--	<3 ~	
SBP Nonparticipants	925	6.0	0.07	3.1	3.6	4.5	5.7	7.1	8.7	9.8	--	<3 ~	
All Students, Female	1,171	4.6	0.06	1.9	2.3	3.1	4.3	5.7	7.3	8.5	--	4.4 ~	1.48
SBP Participants	163	5.5	0.17	2.7 ~	3.2	4.0	5.1	6.6	8.2	9.4 ~	--	<3 ~	
SBP Nonparticipants	1,008	4.5	0.06	1.8	2.2	3.0	4.1	5.5	7.1	8.3	--	5.3 ~	1.74
By School Type													
Elementary School Students	732	5.3	0.08	2.5	2.9	3.8	4.9	6.3	8.0	9.2	--	<3 ~	
SBP Participants	160	5.8	0.20	2.7 ~	3.3	4.2	5.3	6.8	8.8 ~	10.4 ~	--	<3 ~	
SBP Nonparticipants	572	5.1	0.09	2.5	2.9	3.7	4.8	6.1	7.7	8.9	--	<3 ~	

TABLE L.23

USUAL DAILY VITAMIN B₁₂ INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Vitamin B ₁₂ Intakes (mcg)										EAR ¹	
	N	Mean	SE	Percentiles						EAR	% Below	SE
				5	10	25	50	75	90			
By School Type												
Elementary School Students, Male	372	5.6	0.11	2.7	3.2	4.0	5.2	6.7	8.4	9.7	--	<3 ~
SBP Participants	93	5.6	0.18	3.1 ~	3.5 ~	4.3	5.4	6.6	7.9 ~	8.8 ~	--	<3 ~
SBP Nonparticipants	279	5.6	0.13	2.7 ~	3.1	4.0	5.2	6.7	8.5	9.8 ~	--	<3 ~
Elementary School Students, Female	360	4.9	0.10	2.4	2.8	3.6	4.6	5.9	7.4	8.6	--	<3 ~
SBP Participants	67	5.7	0.35	2.1 ~	2.7 ~	3.7	5.2	7.0	9.3 ~	11.0 ~	--	<3 ~
SBP Nonparticipants	293	4.6	0.10	2.3 ~	2.7	3.4	4.4	5.6	6.9	7.8 ~	--	<3 ~
Middle School Students	787	5.2	0.07	2.3	2.8	3.7	4.9	6.3	7.9	9.0	--	<3 ~
SBP Participants	127	5.3	0.15	2.9 ~	3.3 ~	4.1	5.1	6.3	7.5 ~	8.3 ~	--	<3 ~
SBP Nonparticipants	660	5.1	0.08	2.3	2.7	3.6	4.8	6.3	8.0	9.1	--	<3 ~
Middle School Students, Male	386	6.0	0.10	3.3	3.8	4.6	5.7	7.1	8.5	9.4	--	<3 ~
SBP Participants	74	5.8	0.21	3.2 ~	3.6 ~	4.5	5.7	6.9	8.2 ~	9.1 ~	--	<3 ~
SBP Nonparticipants	312	6.0	0.11	3.4 ~	3.8	4.7	5.8	7.1	8.5	9.5 ~	--	<3 ~
Middle School Students, Female	401	4.4	0.09	1.9	2.3	3.1	4.2	5.5	6.9	7.8	--	3.8 ~
SBP Participants	53	4.4	0.15	2.8 ~	3.1 ~	3.6 ~	4.3 ~	5.1 ~	5.9 ~	6.4 ~	--	<3 ~
SBP Nonparticipants	348	4.4	0.10	1.8	2.2	3.1	4.2	5.5	6.9	7.9	--	4.4 ~
High School Students	795	5.3	0.09	1.9	2.4	3.4	4.9	6.8	8.9	10.3	--	6.1 ~
SBP Participants	94	5.5	0.16	3.2 ~	3.6 ~	4.3	5.3	6.5	7.6 ~	8.3 ~	--	<3 ~
SBP Nonparticipants	701	5.3	0.10	1.8	2.3	3.3	4.8	6.8	9.0	10.5	--	7.1 ~
High School Students, Male	385	6.5	0.11	3.4	4.0	5.0	6.3	7.8	9.4	10.4	--	<3 ~
SBP Participants	51	5.8	0.27	3.1 ~	3.6 ~	4.4 ~	5.5 ~	6.9 ~	8.3 ~	9.4 ~	--	<3 ~
SBP Nonparticipants	334	6.6	0.13	3.4	3.9	5.0	6.4	8.0	9.7	10.8	--	<3 ~
High School Students, Female	410	4.2	0.11	1.4	1.8	2.6	3.9	5.4	7.2	8.4	--	13.2 ~
SBP Participants	43	5.0	0.34	1.7 ~	2.2 ~	3.3 ~	4.8 ~	6.6 ~	8.2 ~	9.0 ~	--	6.9 ~
SBP Nonparticipants	367	4.2	0.11	1.4	1.8	2.6	3.8	5.4	7.1	8.3	--	13.8 ~
Secondary School Students	1,582	5.3	0.06	2.1	2.6	3.5	4.9	6.6	8.5	9.7	--	3.7 ~
SBP Participants	221	5.4	0.11	3.0 ~	3.4	4.2	5.2	6.4	7.6	8.4 ~	--	<3 ~
SBP Nonparticipants	1,361	5.2	0.07	2.0	2.5	3.4	4.8	6.6	8.6	9.9	--	4.4 ~
Secondary School Students, Male	771	6.3	0.08	3.3	3.8	4.8	6.0	7.5	9.1	10.1	--	<3 ~
SBP Participants	125	5.8	0.08	4.5 ~	4.7 ~	5.2	5.8	6.4	7.0 ~	7.3 ~	--	<3 ~
SBP Nonparticipants	646	6.4	0.09	3.3	3.8	4.8	6.1	7.7	9.3	10.4	--	<3 ~
Secondary School Students, Female	811	4.3	0.07	1.6	2.0	2.8	4.0	5.5	7.1	8.2	--	9.3 ~
SBP Participants	96	4.7	0.18	2.3 ~	2.7 ~	3.4	4.5	5.7	7.1 ~	8.0 ~	--	<3 ~
SBP Nonparticipants	715	4.3	0.08	1.5	1.9	2.7	3.9	5.5	7.1	8.3	--	10.4 ~

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.24

USUAL DAILY FOLATE INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Folate Intakes (mcg DFE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	552	11.6	288	330	408	512	649	820	953	160	<3 ~	
SBP Participants	75	548	17.3	346 ~	379 ~	442	527	631	746 ~	825 ~	160	<3 ~	
SBP Nonparticipants	268	553	14.5	270 ~	313	395	506	656	846	996 ~	160	<3 ~	
9 to 13 Years	953	619	8.2	325	366	448	566	728	928	1086	250	<3 ~	
SBP Participants	182	532	13.6	286 ~	324	400	504	633	774	872 ~	250	<3 ~	
SBP Nonparticipants	771	634	8.9	336	380	466	586	747	944	1095	250	<3 ~	
9 to 13 Years, Male	469	674	11.0	383	426	511	629	785	973	1116	250	<3 ~	
SBP Participants	99	544	16.8	315 ~	348 ~	418	519	645	772 ~	854 ~	250	<3 ~	
SBP Nonparticipants	370	705	12.9	401	446	535	659	821	1017	1165	250	<3 ~	
9 to 13 Years, Female	484	564	11.1	279	320	401	513	666	862	1017	250	<3 ~	
SBP Participants	83	518	21.0	271 ~	312 ~	389	487	611	761 ~	874 ~	250	3.3 ~	4.92
SBP Nonparticipants	401	574	12.8	279	321	403	519	680	886	1051	250	<3 ~	
14 to 18 Years	1,018	593	8.7	261	306	400	538	720	943	1114	330	13.3	3.63
SBP Participants	124	656	22.3	355 ~	397 ~	482	606	775	976 ~	1125 ~	330	<3 ~	
SBP Nonparticipants	894	586	9.5	256	300	391	525	712	944	1123	330	14.3	3.85
14 to 18 Years, Male	506	699	12.3	361	411	509	647	829	1050	1216	330	<3 ~	
SBP Participants	71	752	35.4	395 ~	444 ~	543	690	892	1135 ~	1316 ~	330	<3 ~	
SBP Nonparticipants	435	691	13.8	340	391	492	635	826	1057	1232	330	4.3 ~	4.25
14 to 18 Years, Female	512	495	10.6	218	257	332	442	596	794	948	330	24.4	4.81
SBP Participants	53	501	27.9	248 ~	284 ~	357 ~	462 ~	601 ~	764 ~	883 ~	330	18.9 ~	10.10
SBP Nonparticipants	459	494	11.1	220	258	333	442	596	792	944	330	24.4	5.40
All Students	2,314	591	5.3	292	335	419	539	703	907	1067	--	4.5	1.22
SBP Participants	381	563	10.3	315	352	425	525	657	817	939	--	<3 ~	
SBP Nonparticipants	1,933	597	6.1	285	329	416	542	713	928	1096	--	5.2	1.47
All Students, Male	1,143	646	7.0	356	399	484	602	757	944	1085	--	<3 ~	
SBP Participants	218	590	11.4	373 ~	406	471	562	678	810	904 ~	--	<3 ~	
SBP Nonparticipants	925	660	8.2	352	398	488	613	778	976	1125	--	<3 ~	
All Students, Female	1,171	539	7.3	248	291	373	488	643	843	1003	--	9.5	2.00
SBP Participants	163	522	15.0	271 ~	313	388	489	622	774	881 ~	--	4.9 ~	3.29
SBP Nonparticipants	1,008	542	8.2	243	287	370	487	648	857	1025	--	10.3	2.27
By School Type													
Elementary School Students	732	596	7.4	343	383	459	562	693	848	965	--	<3 ~	
SBP Participants	160	548	12.9	320 ~	358	431	527	642	765 ~	848 ~	--	<3 ~	
SBP Nonparticipants	572	609	8.9	342	384	463	571	711	878	1003	--	<3 ~	

L.51

TABLE L.24

USUAL DAILY FOLATE INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Folate Intakes (mcg DFE)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	612	9.2	369	409	485	587	711	846	939	--	<3 ~	
SBP Participants	93	551	15.4	349 ~	382 ~	445	530	633	746 ~	825 ~	--	<3 ~	
SBP Nonparticipants	279	640	11.2	388 ~	430	509	613	741	883	984 ~	--	<3 ~	
Elementary School Students, Female	360	574	11.0	322	361	433	534	668	835	963	--	<3 ~	
SBP Participants	67	546	20.9	298 ~	341 ~	423	528	649	773 ~	854 ~	--	<3 ~	
SBP Nonparticipants	293	581	12.8	321 ~	360	435	538	676	851	987 ~	--	<3 ~	
Middle School Students	787	555	9.6	254	296	378	496	661	876	1050	--	7.2 ~	2.89
SBP Participants	127	492	14.7	285 ~	315 ~	375	461	574	707 ~	804 ~	--	<3 ~	
SBP Nonparticipants	660	567	10.9	252	295	381	506	680	906	1089	--	7.8 ~	3.30
Middle School Students, Male	386	624	13.5	325	366	447	566	732	947	1119	--	<3 ~	
SBP Participants	74	530	16.1	346 ~	375 ~	432	509	606	713 ~	789 ~	--	<3 ~	
SBP Nonparticipants	312	645	16.4	322 ~	365	452	579	761	997	1187 ~	--	<3 ~	
Middle School Students, Female	401	490	11.9	206	246	326	442	597	789	936	--	15.0	3.78
SBP Participants	53	439	23.1	249 ~	276 ~	329 ~	402 ~	506 ~	643 ~	754 ~	--	8.0 ~	8.99
SBP Nonparticipants	348	497	13.1	203	244	327	448	610	807	956	--	15.5 ~	4.13
High School Students	795	614	10.4	273	319	411	550	744	985	1170	--	11.5 ~	3.94
SBP Participants	94	692	35.6	313 ~	356 ~	454	611	828	1135 ~	1384 ~	--	6.6 ~	7.38
SBP Nonparticipants	701	605	11.1	266	311	403	542	735	975	1158	--	12.7 ~	4.22
High School Students, Male	385	723	13.4	392	443	540	676	851	1059	1213	--	<3 ~	
SBP Participants	51	805	39.6	449 ~	505 ~	608 ~	749 ~	942 ~	1181 ~	1352 ~	--	<3 ~	
SBP Nonparticipants	334	710	14.1	381	431	529	665	839	1042	1192	--	<3 ~	
High School Students, Female	410	513	13.2	217	257	335	451	620	841	1017	--	23.7	4.90
SBP Participants	43	514	36.0	247 ~	280 ~	351 ~	459 ~	615 ~	813 ~	965 ~	--	19.9 ~	9.23
SBP Nonparticipants	367	513	13.5	221	261	339	454	620	834	1002	--	22.9	5.80
Secondary School Students	1,582	588	7.0	267	311	399	528	708	936	1113	--	10.4	2.42
SBP Participants	221	592	17.5	309 ~	345	419	531	694	908	1080 ~	--	3.8 ~	4.02
SBP Nonparticipants	1,361	588	7.7	262	307	396	527	710	941	1122	--	10.9	2.67
Secondary School Students, Male	771	682	9.9	356	403	495	627	805	1024	1194	--	<3 ~	
SBP Participants	125	671	14.4	457 ~	491 ~	557	647	758	882 ~	969 ~	--	<3 ~	
SBP Nonparticipants	646	684	11.3	346	394	489	625	810	1040	1219	--	<3 ~	
Secondary School Students, Female	811	505	8.9	212	254	336	452	611	815	979	--	20.9	2.95
SBP Participants	96	471	20.3	241 ~	271 ~	333	427	560	724 ~	849 ~	--	15.8 ~	6.08
SBP Nonparticipants	715	508	9.6	212	254	337	455	616	822	986	--	20.6	3.28

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement; DFE = Dietary Folate Equivalents.

TABLE L.25

USUAL DAILY NIACIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Niacin Intakes (mg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ³	343	20.1	0.30	12.4	13.8	16.3	19.4	23.1	27.2	30.2	6	<3 ~	
SBP Participants	75	18.7	0.08	17.7 ~	17.9 ~	18.3	18.7	19.2	19.6 ~	19.9 ~	6	<3 ~	
SBP Nonparticipants	268	20.3	0.37	12.1 ~	13.5	16.2	19.5	23.6	28.1	31.4 ~	6	<3 ~	
9 to 13 Years	953	21.7	0.20	13.4	14.8	17.5	20.9	25.0	29.5	32.6	9	<3 ~	
SBP Participants	182	21.8	0.59	11.7 ~	13.2	16.1	20.3	25.8	32.2	36.9 ~	9	<3 ~	
SBP Nonparticipants	771	21.7	0.20	13.7	15.2	17.8	21.1	24.9	28.9	31.7	9	<3 ~	
9 to 13 Years, Male	469	22.7	0.24	15.4	16.7	19.0	22.1	25.6	29.5	32.3	9	<3 ~	
SBP Participants	99	23.0	0.91	13.0 ~	14.2 ~	16.8	20.8	26.7	34.4 ~	40.3 ~	9	<3 ~	
SBP Nonparticipants	370	22.7	0.23	16.3	17.4	19.6	22.3	25.3	28.4	30.5	9	<3 ~	
9 to 13 Years, Female	484	20.7	0.28	12.0	13.5	16.4	20.0	24.2	28.8	31.9	9	<3 ~	
SBP Participants	83	20.6	0.75	11.2 ~	12.7 ~	15.5	19.8	24.8	29.4 ~	32.6 ~	9	<3 ~	
SBP Nonparticipants	401	20.7	0.30	12.2	13.7	16.5	20.1	24.2	28.6	31.6	9	<3 ~	
14 to 18 Years	1,018	23.2	0.26	11.8	13.7	17.4	22.1	27.8	34.0	38.4	--	3.5 ~	2.14
SBP Participants	124	24.5	0.82	12.7 ~	14.6 ~	18.2	23.0	29.1	36.2 ~	41.4 ~	--	<3 ~	
SBP Nonparticipants	894	23.0	0.28	11.7	13.6	17.2	21.9	27.6	33.8	38.1	--	3.6 ~	2.34
14 to 18 Years, Male	506	27.9	0.30	18.1	19.8	23.0	27.1	31.8	36.8	40.1	12	<3 ~	
SBP Participants	71	27.0	0.60	19.5 ~	20.9 ~	23.4	26.5	30.1	33.6 ~	36.0 ~	12	<3 ~	
SBP Nonparticipants	435	27.9	0.34	17.7	19.6	22.9	27.2	32.1	37.3	40.8	12	<3 ~	
14 to 18 Years, Female	512	18.8	0.28	9.6	11.2	14.3	18.2	22.7	27.2	30.2	11	9.2 ~	4.17
SBP Participants	53	20.3	1.13	8.2 ~	10.0 ~	14.4 ~	20.1 ~	24.7 ~	29.8 ~	34.3 ~	11	13.1 ~	6.64
SBP Nonparticipants	459	18.7	0.27	10.1	11.6	14.5	18.1	22.3	26.5	29.2	11	7.7 ~	4.99
All Students	2,314	21.8	0.14	12.5	14.1	17.1	20.9	25.5	30.7	34.4	--	<3 ~	
SBP Participants	381	21.6	0.38	12.3	13.8	16.7	20.4	25.0	30.5	34.9	--	<3 ~	
SBP Nonparticipants	1,933	21.9	0.15	12.5	14.1	17.2	21.0	25.6	30.7	34.3	--	<3 ~	
All Students, Male	1,143	23.9	0.18	15.4	16.9	19.6	23.1	27.3	31.9	35.1	--	<3 ~	
SBP Participants	218	22.6	0.48	13.8 ~	15.2	17.8	21.3	26.0	31.6	35.7 ~	--	<3 ~	
SBP Nonparticipants	925	24.2	0.19	15.9	17.4	20.1	23.6	27.6	31.9	34.8	--	<3 ~	
All Students, Female	1,171	19.8	0.18	11.0	12.6	15.5	19.1	23.4	27.9	31.2	--	3.3 ~	1.30
SBP Participants	163	20.1	0.51	10.6 ~	12.3	15.5	19.6	24.1	28.3	31.3 ~	--	<3 ~	
SBP Nonparticipants	1,008	19.8	0.19	11.1	12.7	15.5	19.1	23.3	27.8	31.0	--	3.4 ~	1.53
By School Type													
Elementary School Students	732	21.2	0.20	13.6	15.0	17.4	20.5	24.2	28.2	31.0	--	<3 ~	
SBP Participants	160	20.9	0.48	12.5 ~	13.9	16.6	20.1	24.3	28.8 ~	31.9 ~	--	<3 ~	
SBP Nonparticipants	572	21.3	0.23	13.6	15.0	17.5	20.7	24.3	28.3	31.0	--	<3 ~	

TABLE L.25

USUAL DAILY NIACIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Niacin Intakes (mg) ¹										EAR ²		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	21.6	0.23	14.9	16.1	18.4	21.2	24.4	27.6	29.7	--	<3 ~	
SBP Participants	93	21.2	0.59	13.7 ~	14.8 ~	17.1	20.3	24.3	28.7 ~	31.8 ~	--	<3 ~	
SBP Nonparticipants	279	21.7	0.24	15.7 ~	16.9	18.9	21.5	24.2	27.0	28.7 ~	--	<3 ~	
Elementary School Students, Female	360	20.8	0.30	12.9	14.4	16.9	20.1	23.8	27.9	30.9	--	<3 ~	
SBP Participants	67	20.5	0.69	11.8 ~	13.5 ~	16.5	20.1	24.1	27.9 ~	30.3 ~	--	<3 ~	
SBP Nonparticipants	293	20.8	0.34	12.9 ~	14.4	16.9	20.1	23.9	28.2	31.3 ~	--	<3 ~	
Middle School Students	787	20.5	0.25	11.3	12.9	15.8	19.5	24.1	29.4	33.2	--	<3 ~	
SBP Participants	127	20.7	0.76	11.0 ~	12.3 ~	14.9	18.8	24.2	31.3 ~	36.9 ~	--	<3 ~	
SBP Nonparticipants	660	20.5	0.25	11.6	13.1	16.0	19.6	24.0	29.0	32.5	--	<3 ~	
Middle School Students, Male	386	23.1	0.35	14.1	15.5	18.3	22.0	26.6	31.9	35.9	--	<3 ~	
SBP Participants	74	22.9	1.12	11.8 ~	13.4 ~	16.5	20.9	27.0	34.8 ~	41.0 ~	--	<3 ~	
SBP Nonparticipants	312	23.1	0.36	14.7 ~	16.1	18.8	22.2	26.5	31.2	34.7 ~	--	<3 ~	
Middle School Students, Female	401	18.3	0.30	9.7	11.2	14.0	17.6	21.7	26.2	29.3	--	5.6 ~	3.36
SBP Participants	53	17.5	0.90	9.9 ~	10.9 ~	12.9 ~	16.0 ~	20.4 ~	25.9 ~	30.0 ~	--	3.2 ~	3.96
SBP Nonparticipants	348	18.4	0.32	9.9	11.5	14.2	17.8	21.9	26.1	29.0	--	5.7 ~	3.97
High School Students	795	23.9	0.30	12.1	14.1	17.9	22.8	28.7	35.2	39.6	--	3.1 ~	2.16
SBP Participants	94	25.1	0.96	12.9 ~	14.9 ~	18.7	23.6	29.7	36.9 ~	42.3 ~	--	3.3 ~	4.49
SBP Nonparticipants	701	23.8	0.32	12.1	14.1	17.8	22.7	28.6	34.9	39.3	--	3.0 ~	2.37
High School Students, Male	385	28.6	0.32	19.5	21.2	24.2	28.1	32.4	36.8	39.7	--	<3 ~	
SBP Participants	51	27.4	0.86	18.6 ~	20.2 ~	23.1 ~	26.8 ~	31.1 ~	35.5 ~	38.5 ~	--	<3 ~	
SBP Nonparticipants	334	28.8	0.35	19.3	21.1	24.3	28.2	32.7	37.3	40.3	--	<3 ~	
High School Students, Female	410	19.5	0.34	9.6	11.3	14.6	18.8	23.7	28.7	32.0	--	9.0 ~	4.10
SBP Participants	43	21.6	1.36	8.1 ~	10.2 ~	15.4 ~	22.1 ~	26.0 ~	31.2 ~	36.6 ~	--	12.3 ~	6.88
SBP Nonparticipants	367	19.4	0.34	10.0	11.7	14.7	18.7	23.3	27.9	30.9	--	7.9 ~	4.86
Secondary School Students	1,582	22.6	0.20	11.8	13.6	17.0	21.4	26.9	32.9	37.2	--	<3 ~	
SBP Participants	221	22.8	0.62	11.6 ~	13.2	16.5	21.1	27.1	34.5	40.2 ~	--	3.1 ~	2.48
SBP Nonparticipants	1,361	22.5	0.21	11.9	13.7	17.0	21.5	26.8	32.7	36.8	--	<3 ~	
Secondary School Students, Male	771	26.4	0.27	16.1	17.8	21.1	25.4	30.5	36.2	40.1	--	<3 ~	
SBP Participants	125	25.0	0.69	14.8 ~	16.4 ~	19.5	23.8	29.2	35.2 ~	39.5 ~	--	<3 ~	
SBP Nonparticipants	646	26.6	0.29	16.3	18.1	21.4	25.7	30.8	36.2	40.0	--	<3 ~	
Secondary School Students, Female	811	19.0	0.23	9.6	11.3	14.3	18.3	22.9	27.7	30.8	--	7.3 ~	2.69
SBP Participants	96	19.4	0.77	9.2 ~	10.8 ~	13.9	18.2	23.5	29.4 ~	33.4 ~	--	7.7 ~	4.21
SBP Nonparticipants	715	19.0	0.23	10.0	11.6	14.5	18.4	22.7	27.2	30.1	--	6.7 ~	3.14

¹ Niacin intakes include preformed niacin only. EARs for niacin are expressed as niacin equivalents, including contributions from tryptophan. Therefore, prevalence of inadequacy may be overestimated.

² Standard error not displayed when percentage is less than 3 or greater than 97.

³ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

EAR = Estimated Average Requirement.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

TABLE L.26

USUAL DAILY RIBOFLAVIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Riboflavin Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	2.3	0.04	1.3	1.5	1.8	2.2	2.7	3.2	3.6	0.5	<3 ~	
SBP Participants	75	2.3	0.08	1.5 ~	1.6 ~	1.9	2.2	2.6	3.1 ~	3.5 ~	0.5	<3 ~	
SBP Nonparticipants	268	2.3	0.05	1.3 ~	1.5	1.8	2.2	2.7	3.3	3.7 ~	0.5	<3 ~	
9 to 13 Years	953	2.4	0.02	1.3	1.5	1.8	2.3	2.8	3.3	3.7	0.8	<3 ~	
SBP Participants	182	2.5	0.05	1.5 ~	1.7	2.0	2.4	2.9	3.4	3.8 ~	0.8	<3 ~	
SBP Nonparticipants	771	2.3	0.03	1.3	1.5	1.8	2.2	2.7	3.3	3.7	0.8	<3 ~	
9 to 13 Years, Male	469	2.5	0.03	1.6	1.8	2.1	2.5	2.9	3.4	3.7	0.8	<3 ~	
SBP Participants	99	2.6	0.06	1.7 ~	1.9 ~	2.2	2.6	3.0	3.3 ~	3.6 ~	0.8	<3 ~	
SBP Nonparticipants	370	2.5	0.03	1.6	1.8	2.1	2.5	2.9	3.4	3.7	0.8	<3 ~	
9 to 13 Years, Female	484	2.2	0.04	1.1	1.3	1.6	2.1	2.6	3.2	3.6	0.8	<3 ~	
SBP Participants	83	2.4	0.09	1.3 ~	1.5 ~	1.9	2.3	2.8	3.4 ~	3.9 ~	0.8	<3 ~	
SBP Nonparticipants	401	2.1	0.04	1.1	1.3	1.6	2.0	2.5	3.1	3.5	0.8	<3 ~	
14 to 18 Years	1,018	2.3	0.03	1.0	1.2	1.6	2.1	2.8	3.6	4.1	--	4.4 ~	1.66
SBP Participants	124	2.5	0.08	1.3 ~	1.5 ~	1.9	2.4	3.0	3.7 ~	4.1 ~	--	<3 ~	
SBP Nonparticipants	894	2.2	0.03	0.9	1.1	1.5	2.1	2.8	3.5	4.1	--	5.0 ~	1.87
14 to 18 Years, Male	506	2.7	0.05	1.4	1.6	2.0	2.6	3.3	4.1	4.7	1.1	<3 ~	
SBP Participants	71	2.8	0.09	1.7 ~	1.8 ~	2.2	2.7	3.2	3.8 ~	4.1 ~	1.1	<3 ~	
SBP Nonparticipants	435	2.7	0.05	1.3	1.5	2.0	2.6	3.3	4.1	4.7	1.1	<3 ~	
14 to 18 Years, Female	512	1.8	0.03	0.8	1.0	1.3	1.7	2.2	2.8	3.2	0.9	6.5 ~	2.91
SBP Participants	53	2.1	0.10	1.1 ~	1.2 ~	1.5 ~	2.0 ~	2.5 ~	3.0 ~	3.4 ~	0.9	<3 ~	
SBP Nonparticipants	459	1.8	0.03	0.8	1.0	1.3	1.7	2.2	2.8	3.1	0.9	6.8 ~	3.25
All Students	2,314	2.3	0.02	1.2	1.4	1.7	2.2	2.8	3.4	3.8	--	<3	
SBP Participants	381	2.4	0.04	1.4	1.6	1.9	2.3	2.8	3.4	3.8	--	<3 ~	
SBP Nonparticipants	1,933	2.3	0.02	1.1	1.3	1.7	2.2	2.7	3.4	3.8	--	<3	
All Students, Male	1,143	2.6	0.02	1.5	1.7	2.0	2.5	3.0	3.6	4.0	--	<3 ~	
SBP Participants	218	2.5	0.05	1.6 ~	1.8	2.1	2.5	2.9	3.4	3.8 ~	--	<3 ~	
SBP Nonparticipants	925	2.6	0.03	1.4	1.6	2.0	2.5	3.0	3.7	4.1	--	<3 ~	
All Students, Female	1,171	2.1	0.02	1.0	1.2	1.5	2.0	2.5	3.0	3.4	--	3.2	0.93
SBP Participants	163	2.3	0.06	1.3 ~	1.4	1.8	2.2	2.7	3.2	3.6 ~	--	<3 ~	
SBP Nonparticipants	1,008	2.0	0.02	1.0	1.2	1.5	1.9	2.4	3.0	3.4	--	3.9	1.13
By School Type													
Elementary School Students	732	2.4	0.03	1.4	1.6	1.9	2.3	2.7	3.3	3.6	--	<3 ~	
SBP Participants	160	2.5	0.05	1.5 ~	1.7	2.0	2.4	2.8	3.3 ~	3.6 ~	--	<3 ~	
SBP Nonparticipants	572	2.3	0.03	1.4	1.6	1.9	2.3	2.7	3.2	3.6	--	<3 ~	

TABLE L.26

USUAL DAILY RIBOFLAVIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Riboflavin Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	2.5	0.03	1.6	1.8	2.1	2.4	2.8	3.3	3.6	--	<3 ~	
SBP Participants	93	2.5	0.05	1.7 ~	1.9 ~	2.1	2.4	2.8	3.2 ~	3.4 ~	--	<3 ~	
SBP Nonparticipants	279	2.5	0.04	1.6 ~	1.7	2.0	2.4	2.9	3.3	3.6 ~	--	<3 ~	
Elementary School Students, Female	360	2.3	0.04	1.3	1.5	1.8	2.2	2.6	3.1	3.5	--	<3 ~	
SBP Participants	67	2.2	0.11	0.8 ~	1.1 ~	1.6	2.2	2.7	3.4 ~	3.9 ~	--	<3 ~	
SBP Nonparticipants	293	2.2	0.04	1.3 ~	1.5	1.8	2.1	2.6	3.1	3.4 ~	--	<3 ~	
Middle School Students	787	2.2	0.03	1.0	1.2	1.6	2.1	2.7	3.3	3.7	--	<3 ~	
SBP Participants	127	2.2	0.07	1.2 ~	1.3 ~	1.7	2.1	2.7	3.2 ~	3.6 ~	--	<3 ~	
SBP Nonparticipants	660	2.2	0.03	1.0	1.2	1.6	2.0	2.7	3.3	3.7	--	<3 ~	
Middle School Students, Male	386	2.5	0.04	1.3	1.5	1.9	2.4	3.0	3.7	4.1	--	<3 ~	
SBP Participants	74	2.5	0.09	1.3 ~	1.5 ~	1.9	2.4	3.0	3.5 ~	3.9 ~	--	<3 ~	
SBP Nonparticipants	312	2.5	0.05	1.3 ~	1.5	1.9	2.4	3.0	3.7	4.2 ~	--	<3 ~	
Middle School Students, Female	401	1.9	0.04	0.9	1.0	1.4	1.8	2.3	2.9	3.2	--	4.3 ~	2.28
SBP Participants	53	1.8	0.08	1.0 ~	1.2 ~	1.4 ~	1.8 ~	2.2 ~	2.6 ~	2.9 ~	--	<3 ~	
SBP Nonparticipants	348	1.9	0.04	0.9	1.0	1.4	1.8	2.3	2.9	3.2	--	4.3 ~	2.62
High School Students	795	2.3	0.04	1.0	1.2	1.6	2.1	2.8	3.6	4.2	--	3.9 ~	1.74
SBP Participants	94	2.6	0.09	1.4 ~	1.6 ~	1.9	2.4	3.0	3.7 ~	4.2 ~	--	<3 ~	
SBP Nonparticipants	701	2.3	0.04	1.0	1.1	1.5	2.1	2.8	3.6	4.2	--	4.4 ~	1.97
High School Students, Male	385	2.8	0.05	1.4	1.7	2.1	2.6	3.3	4.1	4.6	--	<3 ~	
SBP Participants	51	2.8	0.13	1.6 ~	1.8 ~	2.2 ~	2.7 ~	3.3 ~	4.0 ~	4.5 ~	--	<3 ~	
SBP Nonparticipants	334	2.8	0.06	1.4	1.6	2.1	2.6	3.3	4.1	4.7	--	<3 ~	
High School Students, Female	410	1.8	0.04	0.8	1.0	1.3	1.7	2.3	2.9	3.3	--	7.3 ~	3.02
SBP Participants	43	2.2	0.11	1.2 ~	1.3 ~	1.6 ~	2.1 ~	2.6 ~	3.1 ~	3.5 ~	--	<3 ~	
SBP Nonparticipants	367	1.8	0.04	0.8	1.0	1.3	1.7	2.2	2.8	3.2	--	7.5 ~	3.40
Secondary School Students	1,582	2.3	0.02	1.0	1.2	1.6	2.1	2.8	3.5	4.0	--	3.2 ~	1.06
SBP Participants	221	2.4	0.06	1.3 ~	1.4	1.8	2.3	2.8	3.5	3.9 ~	--	<3 ~	
SBP Nonparticipants	1,361	2.2	0.03	1.0	1.2	1.6	2.1	2.7	3.5	4.0	--	3.6 ~	1.23
Secondary School Students, Male	771	2.7	0.03	1.4	1.6	2.0	2.5	3.2	3.9	4.4	--	<3 ~	
SBP Participants	125	2.6	0.07	1.5 ~	1.7 ~	2.1	2.5	3.1	3.7 ~	4.1 ~	--	<3 ~	
SBP Nonparticipants	646	2.7	0.04	1.3	1.6	2.0	2.5	3.2	4.0	4.5	--	<3 ~	
Secondary School Students, Female	811	1.9	0.03	0.8	1.0	1.3	1.8	2.3	2.9	3.2	--	6.0 ~	1.92
SBP Participants	96	2.0	0.07	1.1 ~	1.2 ~	1.5	1.9	2.4	2.8 ~	3.2 ~	--	<3 ~	
SBP Nonparticipants	715	1.9	0.03	0.8	1.0	1.3	1.7	2.3	2.8	3.2	--	6.4 ~	2.17

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.27

USUAL DAILY THIAMIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Thiamin Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	1.6	0.03	0.9	1.1	1.3	1.5	1.8	2.2	2.4	0.5	<3 ~	
SBP Participants	75	1.6	0.05	1.0 ~	1.1 ~	1.3	1.5	1.8	2.2 ~	2.5 ~	0.5	<3 ~	
SBP Nonparticipants	268	1.6	0.03	0.9 ~	1.0	1.2	1.5	1.8	2.2	2.4 ~	0.5	<3 ~	
9 to 13 Years	953	1.7	0.02	1.0	1.1	1.3	1.6	1.9	2.3	2.6	0.7	<3 ~	
SBP Participants	182	1.6	0.03	1.1 ~	1.2	1.3	1.6	1.8	2.1	2.3 ~	0.7	<3 ~	
SBP Nonparticipants	771	1.7	0.02	1.0	1.1	1.3	1.6	2.0	2.3	2.6	0.7	<3 ~	
9 to 13 Years, Male	469	1.8	0.02	1.2	1.3	1.5	1.7	2.0	2.3	2.5	0.7	<3 ~	
SBP Participants	99	1.7	0.04	1.1 ~	1.2 ~	1.4	1.7	2.0	2.3 ~	2.6 ~	0.7	<3 ~	
SBP Nonparticipants	370	1.8	0.02	1.2	1.3	1.5	1.7	2.0	2.3	2.5	0.7	<3 ~	
9 to 13 Years, Female	484	1.6	0.03	0.8	0.9	1.2	1.5	1.9	2.3	2.6	0.7	<3 ~	
SBP Participants	83	1.6	0.05	0.9 ~	1.0 ~	1.2	1.5	1.8	2.2 ~	2.4 ~	0.7	<3 ~	
SBP Nonparticipants	401	1.6	0.03	0.8	0.9	1.2	1.5	1.9	2.3	2.6	0.7	<3 ~	
14 to 18 Years	1,018	1.7	0.02	0.8	0.9	1.2	1.6	2.1	2.7	3.1	--	10.3	2.56
SBP Participants	124	1.9	0.07	0.9 ~	1.1 ~	1.4	1.8	2.3	3.0 ~	3.5 ~	--	5.0 ~	4.96
SBP Nonparticipants	894	1.7	0.02	0.8	0.9	1.2	1.6	2.0	2.6	3.1	--	10.8	2.85
14 to 18 Years, Male	506	2.1	0.03	1.1	1.2	1.5	1.9	2.5	3.1	3.5	1.0	3.2 ~	2.55
SBP Participants	71	2.2	0.07	1.3 ~	1.5 ~	1.7	2.1	2.5	3.0 ~	3.3 ~	1.0	<3 ~	
SBP Nonparticipants	435	2.1	0.04	1.1	1.2	1.5	1.9	2.4	3.1	3.5	1.0	3.7 ~	2.85
14 to 18 Years, Female	512	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.1	2.4	0.9	17.4	4.09
SBP Participants	53	1.5	0.08	0.8 ~	0.9 ~	1.1 ~	1.4 ~	1.8 ~	2.2 ~	2.5 ~	0.9	12.4 ~	7.68
SBP Nonparticipants	459	1.4	0.02	0.7	0.8	1.0	1.3	1.6	2.0	2.3	0.9	17.1	4.72
All Students	2,314	1.7	0.01	0.9	1.0	1.3	1.6	2.0	2.4	2.8	--	3.5	0.85
SBP Participants	381	1.7	0.03	1.0	1.1	1.3	1.6	2.0	2.4	2.7	--	<3 ~	
SBP Nonparticipants	1,933	1.7	0.01	0.9	1.0	1.2	1.6	2.0	2.4	2.8	--	4.1	1.05
All Students, Male	1,143	1.8	0.02	1.1	1.2	1.4	1.7	2.1	2.6	2.9	--	<3 ~	
SBP Participants	218	1.8	0.04	1.1 ~	1.2	1.4	1.7	2.1	2.5	2.8 ~	--	<3 ~	
SBP Nonparticipants	925	1.8	0.02	1.1	1.2	1.4	1.8	2.1	2.6	2.9	--	<3 ~	
All Students, Female	1,171	1.5	0.02	0.8	0.9	1.1	1.4	1.8	2.2	2.5	--	6.8	1.53
SBP Participants	163	1.5	0.04	0.9 ~	1.0	1.2	1.5	1.8	2.2	2.4 ~	--	<3 ~	
SBP Nonparticipants	1,008	1.5	0.02	0.8	0.9	1.1	1.4	1.8	2.2	2.5	--	7.7	1.78
By School Type													
Elementary School Students	732	1.6	0.02	1.0	1.1	1.3	1.6	1.9	2.2	2.5	--	<3 ~	
SBP Participants	160	1.5	0.04	0.7 ~	0.9	1.2	1.5	1.8	2.1 ~	2.4 ~	--	<3 ~	
SBP Nonparticipants	572	1.6	0.02	1.0	1.1	1.3	1.6	1.9	2.2	2.5	--	<3 ~	

TABLE L.27

USUAL DAILY THIAMIN INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Thiamin Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	1.7	0.02	1.1	1.2	1.4	1.6	1.9	2.3	2.5	--	<3 ~	
SBP Participants	93	1.7	0.05	1.1 ~	1.2 ~	1.3	1.6	1.9	2.3 ~	2.6 ~	--	<3 ~	
SBP Nonparticipants	279	1.7	0.03	1.1 ~	1.2	1.4	1.6	1.9	2.3	2.5 ~	--	<3 ~	
Elementary School Students, Female	360	1.6	0.03	1.0	1.1	1.3	1.5	1.9	2.2	2.5	--	<3 ~	
SBP Participants	67	1.6	0.06	0.9 ~	1.0 ~	1.3	1.6	1.9	2.3 ~	2.5 ~	--	<3 ~	
SBP Nonparticipants	293	1.6	0.03	1.0 ~	1.1	1.3	1.5	1.8	2.2	2.5 ~	--	<3 ~	
Middle School Students	787	1.6	0.02	0.8	0.9	1.2	1.5	1.9	2.3	2.6	--	4.7 ~	2.05
SBP Participants	127	1.6	0.04	1.0 ~	1.0 ~	1.2	1.5	1.8	2.2 ~	2.4 ~	--	<3 ~	
SBP Nonparticipants	660	1.6	0.02	0.8	0.9	1.1	1.5	1.9	2.3	2.7	--	5.3 ~	2.41
Middle School Students, Male	386	1.7	0.03	1.0	1.1	1.4	1.7	2.0	2.4	2.7	--	<3 ~	
SBP Participants	74	1.7	0.05	1.1 ~	1.2 ~	1.4	1.6	1.9	2.3 ~	2.6 ~	--	<3 ~	
SBP Nonparticipants	312	1.8	0.03	1.0 ~	1.1	1.4	1.7	2.0	2.5	2.8 ~	--	<3 ~	
Middle School Students, Female	401	1.4	0.03	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--	9.9 ~	3.20
SBP Participants	53	1.3	0.05	0.9 ~	0.9 ~	1.1 ~	1.3 ~	1.5 ~	1.8 ~	2.1 ~	--	<3 ~	
SBP Nonparticipants	348	1.4	0.03	0.6	0.8	1.0	1.3	1.7	2.1	2.4	--	10.8 ~	3.65
High School Students	795	1.8	0.03	0.8	0.9	1.2	1.6	2.1	2.7	3.2	--	9.5	2.70
SBP Participants	94	2.0	0.09	0.9 ~	1.1 ~	1.4	1.8	2.4	3.1 ~	3.7 ~	--	4.3 ~	4.76
SBP Nonparticipants	701	1.7	0.03	0.8	0.9	1.2	1.6	2.1	2.7	3.2	--	9.8 ~	3.02
High School Students, Male	385	2.1	0.04	1.1	1.3	1.6	2.0	2.5	3.1	3.6	--	<3 ~	
SBP Participants	51	2.3	0.08	1.5 ~	1.6 ~	1.9 ~	2.2 ~	2.6 ~	3.1 ~	3.4 ~	--	<3 ~	
SBP Nonparticipants	334	2.1	0.04	1.1	1.3	1.6	2.0	2.5	3.1	3.6	--	3.0 ~	2.92
High School Students, Female	410	1.4	0.03	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--	16.6	4.18
SBP Participants	43	1.5	0.09	0.8 ~	0.9 ~	1.1 ~	1.4 ~	1.8 ~	2.3 ~	2.6 ~	--	11.4 ~	8.13
SBP Nonparticipants	367	1.4	0.03	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--	15.7 ~	5.00
Secondary School Students	1,582	1.7	0.02	0.8	0.9	1.2	1.6	2.0	2.6	3.0	--	7.7	1.72
SBP Participants	221	1.8	0.04	1.0 ~	1.1	1.3	1.6	2.1	2.6	3.0 ~	--	<3 ~	
SBP Nonparticipants	1,361	1.7	0.02	0.8	0.9	1.2	1.5	2.0	2.6	3.0	--	8.4	1.94
Secondary School Students, Male	771	2.0	0.02	1.1	1.2	1.5	1.9	2.3	2.9	3.3	--	<3 ~	
SBP Participants	125	2.0	0.05	1.2 ~	1.3 ~	1.6	1.9	2.3	2.7 ~	3.0 ~	--	<3 ~	
SBP Nonparticipants	646	2.0	0.03	1.1	1.2	1.5	1.9	2.3	2.9	3.3	--	<3 ~	
Secondary School Students, Female	811	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--	14.3	2.56
SBP Participants	96	1.4	0.05	0.8 ~	0.9 ~	1.1	1.3	1.7	2.0 ~	2.3 ~	--	5.4 ~	4.45
SBP Nonparticipants	715	1.4	0.02	0.7	0.8	1.0	1.3	1.7	2.1	2.4	--	14.8	2.87

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.28

USUAL DAILY CALCIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Calcium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ¹	343	1,093	19.7	591	681	845	1,048	1,284	1,550	1,748	800
SBP Participants	75	1,122	34.2	707 ~	778 ~	916	1,091	1,284	1,492 ~	1,648 ~	800
SBP Nonparticipants	268	1,085	23.5	562 ~	653	822	1,035	1,286	1,569	1,780 ~	800
9 to 13 Years	953	1,132	11.1	632	722	888	1,098	1,339	1,586	1,750	1,300
SBP Participants	182	1,277	25.5	765 ~	863	1,038	1,249	1,485	1,725	1,885 ~	1,300
SBP Nonparticipants	771	1,097	12.0	614	699	858	1,063	1,298	1,538	1,695	1,300
9 to 13 Years, Male	469	1,213	12.7	793	874	1,019	1,195	1,388	1,576	1,694	1,300
SBP Participants	99	1,319	38.3	741 ~	857 ~	1,057	1,292	1,550	1,814 ~	1,990 ~	1,300
SBP Nonparticipants	370	1,186	12.6	815	887	1,015	1,170	1,340	1,504	1,609	1,300
9 to 13 Years, Female	484	1,050	17.0	530	618	786	1,005	1,261	1,535	1,728	1,300
SBP Participants	83	1,228	29.4	838 ~	909 ~	1,038	1,200	1,391	1,585 ~	1,709 ~	1,300
SBP Nonparticipants	401	1,009	19.0	491	577	741	958	1,216	1,500	1,703	1,300
14 to 18 Years	1,018	1,041	14.3	424	520	711	975	1,299	1,648	1,885	1,300
SBP Participants	124	1,142	31.9	642 ~	726 ~	888	1,100	1,350	1,613 ~	1,790 ~	1,300
SBP Nonparticipants	894	1,029	15.5	405	500	692	959	1,290	1,650	1,895	1,300
14 to 18 Years, Male	506	1,248	21.5	581	692	904	1,184	1,521	1,884	2,134	1,300
SBP Participants	71	1,261	42.1	735 ~	831 ~	1,008	1,230	1,481	1,731 ~	1,893 ~	1,300
SBP Nonparticipants	435	1,246	24.1	558	671	887	1,176	1,526	1,908	2,172	1,300
14 to 18 Years, Female	512	847	15.2	371	447	597	801	1,047	1,307	1,482	1,300
SBP Participants	53	936	37.0	566 ~	627 ~	744 ~	899 ~	1,088 ~	1,291 ~	1,430 ~	1,300
SBP Nonparticipants	459	840	16.4	359	435	586	791	1,041	1,308	1,488	1,300
All Students	2,314	1,093	8.2	538	634	815	1,048	1,318	1,603	1,801	--
SBP Participants	381	1,196	17.1	714	803	963	1,162	1,392	1,632	1,794	--
SBP Nonparticipants	1,933	1,070	9.1	510	605	786	1,021	1,297	1,592	1,795	--
All Students, Male	1,143	1,218	11.4	665	763	945	1,175	1,442	1,725	1,917	--
SBP Participants	218	1,253	24.1	731 ~	831	1,007	1,220	1,461	1,714	1,887 ~	--
SBP Nonparticipants	925	1,208	13.1	646	744	926	1,162	1,439	1,732	1,931	--
All Students, Female	1,171	970	10.3	469	556	721	931	1,173	1,427	1,602	--
SBP Participants	163	1,114	24.2	677 ~	752	893	1,077	1,295	1,524	1,677 ~	--
SBP Nonparticipants	1,008	945	11.1	443	529	694	906	1,149	1,404	1,579	--
By School Type											
Elementary School Students	732	1,142	13.1	638	729	894	1,101	1,343	1,603	1,783	--
SBP Participants	160	1,244	23.1	819 ~	899	1,041	1,215	1,413	1,623 ~	1,767 ~	--
SBP Nonparticipants	572	1,112	15.2	601	691	857	1,067	1,317	1,587	1,775	--

TABLE L.28

USUAL DAILY CALCIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Calcium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90	95	
By School Type											
Elementary School Students, Male	372	1,201	19.7	655	749	928	1,160	1,429	1,707	1,890	--
SBP Participants	93	1,262	30.9	824 ~	908 ~	1,060	1,238	1,431	1,635 ~	1,783 ~	--
SBP Nonparticipants	279	1,181	24.1	614 ~	709	891	1,132	1,417	1,717	1,917 ~	--
Elementary School Students, Female	360	1,083	16.6	629	713	864	1,051	1,263	1,487	1,645	--
SBP Participants	67	1,180	51.4	602 ~	695 ~	877	1,122	1,419	1,739 ~	1,956 ~	--
SBP Nonparticipants	293	1,047	18.6	590 ~	675	827	1,014	1,226	1,454	1,616 ~	--
Middle School Students	787	1,032	13.0	509	598	769	992	1,252	1,519	1,694	--
SBP Participants	127	1,058	28.8	574 ~	663 ~	826	1,031	1,261	1,490 ~	1,636 ~	--
SBP Nonparticipants	660	1,028	14.4	501	590	760	985	1,248	1,521	1,702	--
Middle School Students, Male	386	1,187	16.2	709	798	961	1,162	1,386	1,607	1,747	--
SBP Participants	74	1,168	43.1	601 ~	708 ~	904	1,144	1,405	1,657 ~	1,815 ~	--
SBP Nonparticipants	312	1,190	18.4	707 ~	796	959	1,163	1,392	1,621	1,768 ~	--
Middle School Students, Female	401	891	16.8	416	495	648	851	1,090	1,339	1,504	--
SBP Participants	53	884	29.9	551 ~	615 ~	730 ~	870 ~	1,023 ~	1,171 ~	1,264 ~	--
SBP Nonparticipants	348	892	18.4	408	488	643	850	1,094	1,349	1,519	--
High School Students	795	1,046	16.2	432	526	715	978	1,303	1,656	1,897	--
SBP Participants	94	1,178	32.1	753 ~	823 ~	956	1,135	1,352	1,589 ~	1,752 ~	--
SBP Nonparticipants	701	1,032	17.6	411	504	694	960	1,292	1,654	1,903	--
High School Students, Male	385	1,265	25.7	581	693	908	1,193	1,542	1,926	2,194	--
SBP Participants	51	1,311	61.1	740 ~	828 ~	1,000 ~	1,240 ~	1,543 ~	1,884 ~	2,126 ~	--
SBP Nonparticipants	334	1,259	28.3	561	674	892	1,184	1,542	1,938	2,216	--
High School Students, Female	410	843	16.2	386	461	605	800	1,034	1,280	1,446	--
SBP Participants	43	959	24.5	721 ~	765 ~	845 ~	945 ~	1,057 ~	1,170 ~	1,245 ~	--
SBP Nonparticipants	367	834	17.4	373	446	592	788	1,026	1,279	1,450	--
Secondary School Students	1,582	1,041	10.4	469	561	742	986	1,280	1,592	1,801	--
SBP Participants	221	1,113	22.6	628 ~	713	872	1,077	1,315	1,559	1,719 ~	--
SBP Nonparticipants	1,361	1,031	11.4	454	546	727	972	1,271	1,591	1,809	--
Secondary School Students, Male	771	1,234	15.0	640	743	936	1,185	1,478	1,785	1,992	--
SBP Participants	125	1,236	34.0	671 ~	774 ~	964	1,203	1,472	1,741 ~	1,913 ~	--
SBP Nonparticipants	646	1,233	16.8	629	733	927	1,181	1,480	1,797	2,012	--
Secondary School Students, Female	811	863	11.8	394	471	620	820	1,060	1,311	1,479	--
SBP Participants	96	919	25.3	558 ~	622 ~	742	894	1,069	1,248 ~	1,365 ~	--
SBP Nonparticipants	715	858	12.8	382	459	609	812	1,056	1,315	1,489	--

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

AI = Adequate Intake.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

TABLE L.29

USUAL DAILY IRON INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Iron Intakes (mg) ¹										EAR	
	N	Mean	SE	Percentiles						EAR	% Below	
				5	10	25	50	75	90			95
By Age/Gender Group												
6 to 8 Years ²	343	14.5	0.26	8.2	9.3	11.3	13.8	16.9	20.6	23.4	4.1	<3
SBP Participants	75	14.7	0.48	9.2 ~	10.0 ~	11.7	14.1	17.0	20.2 ~	22.5 ~	4.1	<3
SBP Nonparticipants	268	14.5	0.32	7.8 ~	8.9	11.0	13.6	16.9	21.0	24.0 ~	4.1	<3
9 to 13 Years	953	15.7	0.17	9.0	10.0	12.1	14.8	18.3	22.2	25.2	--	<3
SBP Participants	182	15.5	0.40	9.0 ~	10.0	11.9	14.5	17.9	22.2	25.6 ~	--	<3
SBP Nonparticipants	771	15.7	0.19	9.0	10.0	12.1	14.9	18.3	22.3	25.2	--	<3
9 to 13 Years, Male	469	16.7	0.21	10.6	11.6	13.5	16.0	19.1	22.5	24.8	5.9	<3
SBP Participants	99	16.1	0.57	9.3 ~	10.2 ~	12.1	14.9	18.7	23.5 ~	27.0 ~	5.9	<3
SBP Nonparticipants	370	16.8	0.21	11.1	12.1	13.9	16.3	19.1	22.1	24.2	5.9	<3
9 to 13 Years, Female	484	14.6	0.25	7.8	8.8	10.9	13.6	17.2	21.5	24.9	5.7	<3
SBP Participants	83	14.8	0.50	8.9 ~	9.9 ~	11.7	14.0	17.0	20.9 ~	23.6 ~	5.7	<3
SBP Nonparticipants	401	14.6	0.29	7.6	8.6	10.7	13.5	17.2	21.7	25.2	5.7	<3
14 to 18 Years	1,018	15.9	0.23	7.3	8.5	10.9	14.4	19.2	24.9	29.3	--	10.2
SBP Participants	124	17.6	0.27	13.2 ~	14.0 ~	15.5	17.4	19.4	21.5 ~	22.9 ~	--	7.6
SBP Nonparticipants	894	15.7	0.25	7.0	8.2	10.6	14.1	19.0	24.9	29.6	--	10.5
14 to 18 Years, Male	506	19.0	0.29	10.6	11.9	14.5	17.9	22.4	27.5	31.3	7.7	<3
SBP Participants	71	19.6	0.75	11.3 ~	12.6 ~	15.1	18.6	23.0	28.0 ~	31.4 ~	7.7	<3
SBP Nonparticipants	435	18.9	0.35	9.9	11.2	13.9	17.6	22.4	28.3	32.7	7.7	<3
14 to 18 Years, Female	512	12.9	0.25	6.0	7.1	9.1	11.8	15.5	20.0	23.6	7.9	19.4
SBP Participants	53	14.1	0.67	7.4 ~	8.5 ~	10.6 ~	13.5 ~	16.9 ~	20.6 ~	23.1 ~	7.9	19.3
SBP Nonparticipants	459	12.8	0.27	6.0	7.0	9.0	11.7	15.3	19.9	23.4	7.9	19.4
All Students	2,314	15.5	0.12	8.1	9.3	11.5	14.4	18.2	22.8	26.3	--	4.0
SBP Participants	381	15.7	0.24	9.6	10.6	12.4	14.9	18.0	21.7	24.5	--	<3
SBP Nonparticipants	1,933	15.4	0.14	7.9	9.0	11.2	14.3	18.3	23.1	26.7	--	4.4
All Students, Male	1,143	17.0	0.16	10.1	11.2	13.3	16.1	19.7	23.8	26.8	--	<3
SBP Participants	218	16.5	0.30	10.8 ~	11.6	13.4	15.8	18.8	22.3	24.7 ~	--	<3
SBP Nonparticipants	925	17.1	0.18	9.9	11.0	13.2	16.2	19.9	24.2	27.4	--	<3
All Students, Female	1,171	14.0	0.16	7.1	8.2	10.3	13.0	16.5	20.9	24.3	--	7.6
SBP Participants	163	14.5	0.34	8.7 ~	9.7	11.6	13.9	16.8	20.0	22.4 ~	--	4.6
SBP Nonparticipants	1,008	13.9	0.18	6.9	8.0	10.0	12.8	16.5	21.0	24.6	--	8.1
By School Type												
Elementary School Students	732	15.4	0.19	8.8	9.9	11.9	14.5	17.8	21.7	24.8	--	<3
SBP Participants	160	15.5	0.42	8.9 ~	10.0	12.0	14.5	17.8	22.0 ~	25.4 ~	--	<3
SBP Nonparticipants	572	15.3	0.22	8.7	9.8	11.8	14.5	17.8	21.8	24.9	--	<3

TABLE L.29

USUAL DAILY IRON INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Iron Intakes (mg) ¹										EAR	
	N	Mean	SE	Percentiles						EAR	% Below	
				5	10	25	50	75	90			95
By School Type												
Elementary School Students, Male	372	15.9	0.27	9.0	10.1	12.3	15.1	18.5	22.5	25.5	--	<3
SBP Participants	93	15.8	0.55	9.5 ~	10.4 ~	12.3	14.8	18.0	22.0 ~	25.4 ~	--	<3
SBP Nonparticipants	279	15.9	0.32	8.7 ~	9.9	12.2	15.1	18.7	22.8	25.7 ~	--	<3
Elementary School Students, Female	360	14.8	0.26	8.7	9.7	11.6	14.0	17.1	20.9	23.8	--	<3
SBP Participants	67	15.0	0.59	8.5 ~	9.5 ~	11.6	14.4	17.7	21.4 ~	23.9 ~	--	<3
SBP Nonparticipants	293	14.8	0.29	8.7 ~	9.7	11.5	13.9	17.0	20.9	23.9 ~	--	<3
Middle School Students	787	14.4	0.20	7.6	8.6	10.6	13.4	17.1	21.5	24.8	--	3.2
SBP Participants	127	14.1	0.38	8.7 ~	9.5 ~	11.1	13.4	16.3	19.7 ~	22.0 ~	--	<3
SBP Nonparticipants	660	14.5	0.23	7.4	8.4	10.5	13.4	17.3	21.9	25.4	--	3.5
Middle School Students, Male	386	16.0	0.26	9.5	10.6	12.5	15.1	18.4	22.4	25.3	--	<3
SBP Participants	74	15.4	0.58	8.8 ~	9.8 ~	11.8	14.5	18.0	22.0 ~	24.8 ~	--	<3
SBP Nonparticipants	312	16.1	0.29	9.7 ~	10.7	12.6	15.2	18.6	22.7	25.7 ~	--	<3
Middle School Students, Female	401	13.1	0.27	6.4	7.4	9.3	12.1	15.7	20.1	23.2	--	6.1
SBP Participants	53	12.3	0.41	8.4 ~	9.0 ~	10.2 ~	11.8 ~	13.9 ~	16.3 ~	17.9 ~	--	4.7
SBP Nonparticipants	348	13.2	0.30	6.1	7.1	9.2	12.1	16.0	20.7	24.0	--	6.3
High School Students	795	16.4	0.27	7.4	8.7	11.2	14.9	19.9	25.9	30.4	--	10.1
SBP Participants	94	18.3	0.50	11.6 ~	12.7 ~	14.8	17.6	21.0	24.7 ~	27.3 ~	--	7.7
SBP Nonparticipants	701	16.2	0.29	7.1	8.3	10.9	14.6	19.7	25.8	30.5	--	10.4
High School Students, Male	385	19.6	0.32	11.2	12.6	15.2	18.6	23.0	27.8	31.3	--	<3
SBP Participants	51	20.6	0.90	12.3 ~	13.6 ~	16.0 ~	19.4 ~	23.9 ~	29.0 ~	32.7 ~	--	<3
SBP Nonparticipants	334	19.4	0.38	10.2	11.6	14.4	18.3	23.2	28.7	32.5	--	<3
High School Students, Female	410	13.4	0.32	5.8	6.9	9.1	12.1	16.1	21.2	25.4	--	19.1
SBP Participants	43	14.6	0.86	7.0 ~	8.2 ~	10.6 ~	13.8 ~	17.8 ~	22.1 ~	25.0 ~	--	19.3
SBP Nonparticipants	367	13.3	0.33	5.9	7.0	9.1	12.0	15.9	21.0	25.1	--	19.1
Secondary School Students	1,582	15.6	0.17	7.5	8.7	11.0	14.3	18.7	23.9	27.9	--	7.3
SBP Participants	221	16.1	0.30	10.1 ~	11.0	12.9	15.4	18.5	22.0	24.5 ~	--	4.8
SBP Nonparticipants	1,361	15.5	0.19	7.3	8.5	10.8	14.2	18.7	24.1	28.3	--	7.7
Secondary School Students, Male	771	18.2	0.21	10.5	11.7	14.0	17.2	21.2	25.8	29.1	--	<3
SBP Participants	125	17.9	0.18	14.9 ~	15.5 ~	16.5	17.8	19.1	20.5 ~	21.3 ~	--	<3
SBP Nonparticipants	646	18.2	0.25	10.2	11.4	13.8	17.1	21.3	26.2	29.9	--	<3
Secondary School Students, Female	811	13.2	0.20	6.2	7.2	9.3	12.1	15.9	20.6	24.2	--	13.8
SBP Participants	96	13.4	0.43	7.9 ~	8.8 ~	10.4	12.7	15.6	18.9 ~	21.2 ~	--	11.6
SBP Nonparticipants	715	13.2	0.22	6.0	7.1	9.1	12.0	15.9	20.8	24.5	--	14.0

¹ Comparison to EAR was done using the probability approach (see Appendix H). Standard errors for the estimated percentage with usual intakes less than the EAR were not produced.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.30

USUAL DAILY MAGNESIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Magnesium Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	245	2.9	164	180	208	241	278	316	341	110	<3 ~	
SBP Participants	75	248	7.0	161 ~	176 ~	204	241	284	328 ~	357 ~	110	<3 ~	
SBP Nonparticipants	268	244	3.1	166 ~	181	208	241	277	312	334 ~	110	<3 ~	
9 to 13 Years	953	253	2.1	160	177	208	246	291	337	369	200	20.6	3.42
SBP Participants	182	271	5.6	165 ~	185	220	262	311	367	407 ~	200	15.5 ~	5.96
SBP Nonparticipants	771	249	2.2	159	175	204	242	286	331	361	200	22.5	4.03
9 to 13 Years, Male	469	269	2.9	180	196	226	263	306	351	381	200	11.6 ~	5.39
SBP Participants	99	293	8.0	190 ~	206 ~	236	278	336	401 ~	445 ~	200	7.9 ~	6.92
SBP Nonparticipants	370	263	3.1	174	192	223	258	298	341	371	200	13.3 ~	6.61
9 to 13 Years, Female	484	236	2.8	147	164	194	230	272	315	345	200	29.0	4.31
SBP Participants	83	245	6.6	150 ~	170 ~	204	242	283	322 ~	347 ~	200	22.9 ~	9.44
SBP Nonparticipants	401	234	3.0	146	163	192	228	270	314	344	200	30.4	4.82
14 to 18 Years	1,018	256	2.9	130	151	191	245	309	377	423	340	79.6	2.93
SBP Participants	124	275	5.5	186 ~	202 ~	232	269	312	356 ~	385 ~	340	81.8	18.70
SBP Nonparticipants	894	254	3.1	125	146	187	242	308	378	425	340	79.7	2.97
14 to 18 Years, Male	506	300	3.7	182	202	241	291	349	410	450	340	71.6	5.18
SBP Participants	71	307	9.2	196 ~	216 ~	252	299	353	410 ~	448 ~	340	69.6	19.50
SBP Nonparticipants	435	299	4.2	173	195	235	288	351	416	459	340	71.4	4.86
14 to 18 Years, Female	512	216	3.3	110	127	161	206	260	316	354	340	86.8	3.51
SBP Participants	53	222	8.9	129 ~	145 ~	176 ~	216 ~	261 ~	308 ~	339 ~	340	88.0 ~	11.10
SBP Nonparticipants	459	215	3.6	108	126	160	205	260	317	356	340	86.6	3.70
All Students	2,314	252	1.5	148	167	201	244	294	348	385	--	34.5	1.17
SBP Participants	381	264	3.5	168	185	216	256	303	354	389	--	20.6	3.24
SBP Nonparticipants	1,933	250	1.7	145	164	198	242	292	346	383	--	37.7	1.23
All Students, Male	1,143	277	2.1	176	194	227	269	318	369	404	--	27.8	1.96
SBP Participants	218	282	4.4	195 ~	210	236	271	318	370	404 ~	--	15.0 ~	4.56
SBP Nonparticipants	925	275	2.3	172	190	224	268	318	369	403	--	31.4	2.11
All Students, Female	1,171	229	1.9	134	151	183	223	267	314	345	--	40.3	1.49
SBP Participants	163	238	4.7	146 ~	164	196	235	277	317	342 ~	--	27.1	4.76
SBP Nonparticipants	1,008	227	2.1	132	150	181	221	266	313	345	--	42.5	1.57
By School Type													
Elementary School Students	732	254	1.9	178	193	219	250	284	319	342	--	7.0 ~	2.48
SBP Participants	160	263	5.6	161 ~	179	212	255	305	357 ~	391 ~	--	6.0 ~	3.45
SBP Nonparticipants	572	251	1.8	184	197	220	248	278	309	328	--	7.6 ~	3.29

TABLE L.30

USUAL DAILY MAGNESIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Magnesium Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	266	2.7	187	202	229	262	299	336	359	--	4.6 ~	3.35
SBP Participants	93	274	7.8	174 ~	190 ~	220	262	316	377 ~	417 ~	--	<3 ~	
SBP Nonparticipants	279	263	2.4	201 ~	213	235	261	289	316	333 ~	--	4.7 ~	4.93
Elementary School Students, Female	360	240	2.2	175	188	211	238	267	296	314	--	8.9 ~	3.65
SBP Participants	67	247	7.0	157 ~	175 ~	208	245	284	321 ~	344 ~	--	11.2 ~	6.84
SBP Nonparticipants	293	239	2.2	180 ~	192	212	236	263	288	305 ~	--	9.3 ~	4.29
Middle School Students	787	237	2.7	130	149	183	227	280	337	377	--	49.2	1.95
SBP Participants	127	251	6.0	158 ~	173 ~	203	242	289	340 ~	375 ~	--	40.8	5.82
SBP Nonparticipants	660	235	3.0	127	146	180	225	278	336	376	--	50.3	2.12
Middle School Students, Male	386	262	4.1	149	168	203	251	308	369	411	--	40.6	3.10
SBP Participants	74	273	7.4	183 ~	199 ~	228	266	310	357 ~	388 ~	--	27.8 ~	14.10
SBP Nonparticipants	312	259	4.7	144 ~	163	199	248	306	369	412 ~	--	42.6	3.24
Middle School Students, Female	401	215	3.2	122	139	169	208	254	301	331	--	56.9	2.89
SBP Participants	53	220	8.4	136 ~	150 ~	177 ~	212 ~	255 ~	301 ~	333 ~	--	53.7	7.37
SBP Nonparticipants	348	215	3.5	121	138	169	208	254	301	332	--	57.4	3.16
High School Students	795	261	3.4	131	152	193	248	315	387	436	--	77.2	3.00
SBP Participants	94	283	8.7	168 ~	187 ~	223	271	330	394 ~	438 ~	--	75.3	12.90
SBP Nonparticipants	701	258	3.6	128	149	189	245	313	386	435	--	77.6	3.17
High School Students, Male	385	306	3.9	194	214	251	298	352	407	444	--	69.4	6.56
SBP Participants	51	321	8.4	235 ~	249 ~	277 ~	315 ~	358 ~	401 ~	429 ~	--	64.4 ~	25.90
SBP Nonparticipants	334	304	4.3	189	210	248	296	351	408	445	--	70.0	6.90
High School Students, Female	410	219	4.1	106	124	159	207	266	330	375	--	83.8	3.29
SBP Participants	43	223	11.6	115 ~	133 ~	168 ~	214 ~	268 ~	324 ~	362 ~	--	84.0 ~	9.43
SBP Nonparticipants	367	219	4.4	105	123	158	206	266	332	377	--	83.7	3.50
Secondary School Students	1,582	251	2.2	131	151	189	240	301	366	411	--	65.0	1.59
SBP Participants	221	266	4.9	166 ~	183	214	257	308	363	400 ~	--	56.0	4.23
SBP Nonparticipants	1,361	249	2.4	128	148	186	237	299	366	410	--	66.2	1.74
Secondary School Students, Male	771	288	3.0	170	190	228	278	337	399	441	--	55.5	2.17
SBP Participants	125	297	4.9	219 ~	233 ~	259	292	330	369 ~	395 ~	--	43.2	7.72
SBP Nonparticipants	646	286	3.4	164	184	224	276	337	402	445	--	57.1	2.38
Secondary School Students, Female	811	218	2.6	114	131	164	208	261	316	353	--	73.1	2.36
SBP Participants	96	221	7.2	124 ~	140 ~	171	212	261	314 ~	350 ~	--	68.9	6.28
SBP Nonparticipants	715	217	2.8	113	130	164	208	260	316	355	--	73.6	2.53

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.31

USUAL DAILY PHOSPHORUS INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

L.65

	Phosphorus Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	1,314	16.7	850	942	1,102	1,290	1,498	1,713	1,859	405	<3 ~	
SBP Participants	75	1,339	39.2	842 ~	931 ~	1,097	1,307	1,545	1,787 ~	1,945 ~	405	<3 ~	
SBP Nonparticipants	268	1,306	18.9	843 ~	935	1,094	1,281	1,490	1,706	1,851 ~	405	<3 ~	
9 to 13 Years	953	1,377	11.3	861	958	1,133	1,347	1,588	1,832	1,994	1,055	17.4	3.60
SBP Participants	182	1,546	30.6	957 ~	1,069	1,265	1,501	1,774	2,075	2,288 ~	1,055	9.2 ~	6.00
SBP Nonparticipants	771	1,335	11.7	846	938	1,105	1,311	1,539	1,765	1,909	1,055	19.8	4.27
9 to 13 Years, Male	469	1,472	13.1	1,042	1,124	1,272	1,452	1,650	1,844	1,967	1,055	5.6 ~	6.36
SBP Participants	99	1,644	40.3	1,087 ~	1,191 ~	1,373	1,595	1,859	2,157 ~	2,372 ~	1,055	3.9 ~	6.62
SBP Nonparticipants	370	1,427	12.8	1,047	1,121	1,254	1,413	1,584	1,750	1,855	1,055	5.4 ~	8.74
9 to 13 Years, Female	484	1,278	16.2	746	844	1,025	1,249	1,500	1,748	1,907	1,055	28.1	3.76
SBP Participants	83	1,429	40.9	865 ~	971 ~	1,165	1,403	1,665	1,921 ~	2,084 ~	1,055	15.6 ~	10.40
SBP Nonparticipants	401	1,244	17.2	728	824	999	1,217	1,459	1,699	1,853	1,055	31.1	3.96
14 to 18 Years	1,018	1,391	16.0	679	798	1,026	1,326	1,684	2,066	2,326	1,055	27.4	2.38
SBP Participants	124	1,524	30.3	1,038 ~	1,124 ~	1,284	1,488	1,725	1,970 ~	2,133 ~	1,055	7.5 ~	11.60
SBP Nonparticipants	894	1,375	17.6	644	763	995	1,307	1,681	2,076	2,341	1,055	29.5	2.38
14 to 18 Years, Male	506	1,669	21.3	971	1,098	1,330	1,622	1,955	2,300	2,529	1,055	9.0 ~	4.16
SBP Participants	71	1,687	22.7	1,389 ~	1,449 ~	1,553	1,677	1,810	1,938 ~	2,018 ~	1,055	<3 ~	
SBP Nonparticipants	435	1,667	24.6	927	1,061	1,305	1,614	1,969	2,340	2,590	1,055	10.5 ~	4.29
14 to 18 Years, Female	512	1,130	16.5	597	691	865	1,087	1,347	1,622	1,809	1,055	46.2	2.64
SBP Participants	53	1,255	36.7	870 ~	938 ~	1,065 ~	1,227 ~	1,415 ~	1,609 ~	1,738 ~	1,055	24.3 ~	20.00
SBP Nonparticipants	459	1,120	17.9	580	674	848	1,074	1,340	1,625	1,821	1,055	47.7	2.72
All Students	2,314	1,367	8.3	790	897	1,088	1,326	1,599	1,887	2,084	--	17.1	1.37
SBP Participants	381	1,473	18.8	952	1,047	1,218	1,432	1,681	1,949	2,134	--	7.4 ~	2.69
SBP Nonparticipants	1,933	1,344	9.2	763	869	1,062	1,302	1,579	1,871	2,069	--	19.3	1.52
All Students, Male	1,143	1,519	11.2	968	1,070	1,255	1,482	1,742	2,013	2,195	--	8.2	1.96
SBP Participants	218	1,565	22.4	1,099 ~	1,182	1,334	1,526	1,751	1,995	2,164 ~	--	3.7 ~	2.65
SBP Nonparticipants	925	1,508	12.7	944	1,049	1,237	1,471	1,738	2,013	2,196	--	9.6	2.42
All Students, Female	1,171	1,218	10.0	706	803	977	1,189	1,426	1,667	1,826	--	24.6	1.84
SBP Participants	163	1,343	26.6	843 ~	934	1,102	1,312	1,551	1,792	1,948 ~	--	12.2 ~	5.22
SBP Nonparticipants	1,008	1,196	10.7	689	786	959	1,169	1,403	1,642	1,799	--	26.7	1.94
By School Type													
Elementary School Students	732	1,371	11.4	911	1,001	1,159	1,347	1,556	1,771	1,915	--	8.0	1.77
SBP Participants	160	1,478	28.9	966 ~	1,063	1,232	1,434	1,671	1,941 ~	2,139 ~	--	3.9 ~	2.39
SBP Nonparticipants	572	1,339	12.1	897	982	1,135	1,321	1,523	1,719	1,844	--	9.3	2.19

TABLE L.31

USUAL DAILY PHOSPHORUS INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Phosphorus Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	1,436	17.6	935	1,031	1,200	1,406	1,638	1,878	2,040	--	6.9 ~	2.43
SBP Participants	93	1,532	36.5	1,066 ~	1,150 ~	1,296	1,479	1,707	1,977 ~	2,180 ~	--	<3 ~	
SBP Nonparticipants	279	1,404	19.0	923 ~	1,014	1,180	1,382	1,604	1,821	1,960 ~	--	8.7 ~	3.30
Elementary School Students, Female	360	1,303	14.0	896	980	1,122	1,287	1,466	1,646	1,764	--	8.3 ~	2.60
SBP Participants	67	1,376	31.7	975 ~	1,054 ~	1,194	1,362	1,543	1,717 ~	1,826 ~	--	7.3 ~	5.40
SBP Nonparticipants	293	1,278	13.9	907 ~	985	1,116	1,267	1,427	1,584	1,686 ~	--	8.7 ~	2.99
Middle School Students	787	1,297	14.4	711	814	1,008	1,256	1,542	1,834	2,025	--	29.5	3.17
SBP Participants	127	1,386	33.9	830 ~	929 ~	1,112	1,347	1,617	1,892 ~	2,073 ~	--	19.6 ~	10.00
SBP Nonparticipants	660	1,281	15.8	695	798	991	1,239	1,526	1,819	2,012	--	31.2	3.35
Middle School Students, Male	386	1,475	17.4	964	1,059	1,233	1,447	1,687	1,926	2,079	--	9.7 ~	7.95
SBP Participants	74	1,550	38.2	1,053 ~	1,148 ~	1,318	1,526	1,756	1,983 ~	2,128 ~	--	5.1 ~	15.10
SBP Nonparticipants	312	1,458	19.4	946 ~	1,041	1,214	1,429	1,671	1,912	2,067 ~	--	11.0 ~	9.07
Middle School Students, Female	401	1,136	18.3	599	694	873	1,101	1,361	1,623	1,794	--	44.9	2.99
SBP Participants	53	1,152	46.5	659 ~	746 ~	910 ~	1,119 ~	1,358 ~	1,601 ~	1,760 ~	--	42.2	8.37
SBP Nonparticipants	348	1,134	19.8	593	688	868	1,098	1,360	1,625	1,798	--	45.3	3.21
High School Students	795	1,408	18.4	685	803	1,033	1,341	1,710	2,100	2,363	--	27.2	2.63
SBP Participants	94	1,560	21.4	1,247 ~	1,307 ~	1,414	1,545	1,690	1,832 ~	1,924 ~	--	<3 ~	
SBP Nonparticipants	701	1,392	20.2	652	772	1,005	1,319	1,700	2,105	2,378	--	29.2	2.62
High School Students, Male	385	1,700	24.8	990	1,120	1,356	1,652	1,990	2,340	2,574	--	8.1 ~	4.58
SBP Participants	51	1,716	15.7	1,539 ~	1,575 ~	1,639 ~	1,712 ~	1,789 ~	1,862 ~	1,907 ~	--	<3 ~	
SBP Nonparticipants	334	1,699	28.1	954	1,089	1,337	1,647	2,003	2,373	2,623	--	9.2 ~	4.78
High School Students, Female	410	1,136	18.8	596	687	862	1,092	1,362	1,644	1,831	--	45.8	2.87
SBP Participants	43	1,316	19.0	1,123 ~	1,161 ~	1,229 ~	1,309 ~	1,395 ~	1,478 ~	1,531 ~	--	<3 ~	
SBP Nonparticipants	367	1,123	20.3	574	666	842	1,075	1,351	1,641	1,834	--	47.6	2.93
Secondary School Students	1,582	1,363	11.7	702	814	1,027	1,308	1,639	1,984	2,214	--	27.3	2.08
SBP Participants	221	1,469	23.8	956 ~	1,047	1,217	1,433	1,681	1,936	2,104 ~	--	12.4 ~	8.41
SBP Nonparticipants	1,361	1,348	12.9	679	791	1,006	1,290	1,628	1,981	2,217	--	29.1	2.14
Secondary School Students, Male	771	1,608	15.3	981	1,095	1,305	1,570	1,870	2,172	2,368	--	8.6 ~	3.97
SBP Participants	125	1,629	25.4	1,199 ~	1,281 ~	1,429	1,609	1,807	2,002 ~	2,127 ~	--	<3 ~	
SBP Nonparticipants	646	1,605	17.5	957	1,075	1,291	1,563	1,872	2,190	2,400	--	9.4 ~	4.33
Secondary School Students, Female	811	1,136	13.0	603	696	870	1,096	1,359	1,628	1,805	--	45.2	2.10
SBP Participants	96	1,228	31.5	779 ~	859 ~	1,008	1,197	1,414	1,636 ~	1,782 ~	--	31.1 ~	9.75
SBP Nonparticipants	715	1,128	14.2	587	679	855	1,085	1,353	1,631	1,815	--	46.6	2.17

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.32

USUAL DAILY POTASSIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Potassium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ¹	343	2,415	19.4	1,846	1,963	2,166	2,403	2,650	2,882	3,026	3,800
SBP Participants	75	2,478	55.8	1,759 ~	1,893 ~	2,136	2,438	2,776	3,115 ~	3,335 ~	3,800
SBP Nonparticipants	268	2,401	21.6	1,844 ~	1,955	2,153	2,388	2,633	2,863	3,002 ~	3,800
9 to 13 Years	953	2,520	21.6	1,527	1,712	2,049	2,466	2,928	3,395	3,703	4,500
SBP Participants	182	2,843	56.2	1,704 ~	1,931	2,324	2,775	3,292	3,858	4,228 ~	4,500
SBP Nonparticipants	771	2,442	23.0	1,496	1,672	1,991	2,387	2,833	3,283	3,577	4,500
9 to 13 Years, Male	469	2,662	25.1	1,843	2,002	2,283	2,621	2,996	3,377	3,624	4,500
SBP Participants	99	3,020	85.8	1,816 ~	2,025 ~	2,401	2,903	3,541	4,200 ~	4,603 ~	4,500
SBP Nonparticipants	370	2,570	24.2	1,861	1,999	2,244	2,540	2,863	3,181	3,384	4,500
9 to 13 Years, Female	484	2,370	32.8	1,300	1,494	1,854	2,308	2,818	3,327	3,655	4,500
SBP Participants	83	2,634	63.4	1,720 ~	1,910 ~	2,241	2,617	2,998	3,366 ~	3,610 ~	4,500
SBP Nonparticipants	401	2,312	36.5	1,244	1,433	1,787	2,240	2,758	3,284	3,626	4,500
14 to 18 Years	1,018	2,529	28.2	1,257	1,471	1,881	2,422	3,060	3,724	4,166	4,700
SBP Participants	124	2,852	73.3	1,627 ~	1,854 ~	2,271	2,788	3,364	3,932 ~	4,295 ~	4,700
SBP Nonparticipants	894	2,489	31.2	1,187	1,401	1,815	2,368	3,032	3,733	4,203	4,700
14 to 18 Years, Male	506	3,005	34.5	1,857	2,067	2,453	2,938	3,484	4,031	4,386	4,700
SBP Participants	71	3,108	80.1	2,066 ~	2,270 ~	2,633	3,070	3,541	3,994 ~	4,279 ~	4,700
SBP Nonparticipants	435	2,989	40.8	1,746	1,967	2,380	2,906	3,507	4,119	4,518	4,700
14 to 18 Years, Female	512	2,081	32.1	1,036	1,216	1,558	2,002	2,518	3,048	3,396	4,700
SBP Participants	53	2,440	55.6	1,804 ~	1,933 ~	2,159 ~	2,424 ~	2,704 ~	2,969 ~	3,132 ~	4,700
SBP Nonparticipants	459	2,050	34.7	995	1,173	1,514	1,963	2,491	3,039	3,402	4,700
All Students	2,314	2,500	14.8	1,455	1,648	1,999	2,433	2,925	3,433	3,773	--
SBP Participants	381	2,727	31.5	1,813	1,987	2,298	2,676	3,100	3,531	3,816	--
SBP Nonparticipants	1,933	2,450	16.5	1,402	1,591	1,936	2,378	2,885	3,401	3,746	--
All Students, Male	1,143	2,750	18.8	1,811	1,987	2,304	2,694	3,134	3,582	3,878	--
SBP Participants	218	2,858	41.1	1,976 ~	2,134	2,427	2,798	3,223	3,659	3,947 ~	--
SBP Nonparticipants	925	2,721	21.3	1,767	1,945	2,266	2,663	3,112	3,569	3,872	--
All Students, Female	1,171	2,253	19.3	1,261	1,445	1,783	2,202	2,668	3,128	3,422	--
SBP Participants	163	2,540	36.4	1,808 ~	1,957	2,217	2,523	2,844	3,146	3,333 ~	--
SBP Nonparticipants	1,008	2,205	21.2	1,205	1,388	1,724	2,147	2,622	3,096	3,401	--
By School Type											
Elementary School Students	732	2,521	17.4	1,789	1,937	2,195	2,499	2,818	3,128	3,329	--
SBP Participants	160	2,734	50.4	1,799 ~	1,984	2,301	2,675	3,100	3,556 ~	3,873 ~	--
SBP Nonparticipants	572	2,454	17.4	1,810	1,938	2,163	2,432	2,722	3,000	3,176	--

TABLE L.32

USUAL DAILY POTASSIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Potassium Intakes (mg)										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90	95	
By School Type											
Elementary School Students, Male	372	2,620	27.5	1,819	1,975	2,251	2,582	2,947	3,312	3,550	--
SBP Participants	93	2,809	72.1	1,854 ~	2,012 ~	2,313	2,714	3,200	3,727 ~	4,088 ~	--
SBP Nonparticipants	279	2,554	27.9	1,836 ~	1,979	2,230	2,528	2,849	3,161	3,361 ~	--
Elementary School Students, Female	360	2,414	19.1	1,843	1,961	2,165	2,400	2,649	2,885	3,033	--
SBP Participants	67	2,627	66.8	1,762 ~	1,938 ~	2,246	2,607	2,986	3,340 ~	3,558 ~	--
SBP Nonparticipants	293	2,360	19.2	1,841 ~	1,947	2,132	2,348	2,575	2,789	2,922 ~	--
Middle School Students	787	2,342	26.9	1,251	1,442	1,801	2,264	2,799	3,345	3,702	--
SBP Participants	127	2,543	61.5	1,579 ~	1,741 ~	2,048	2,454	2,940	3,458 ~	3,811 ~	--
SBP Nonparticipants	660	2,308	29.4	1,214	1,406	1,766	2,230	2,765	3,311	3,668	--
Middle School Students, Male	386	2,621	36.0	1,581	1,769	2,117	2,556	3,055	3,557	3,883	--
SBP Participants	74	2,710	90.3	1,601 ~	1,792 ~	2,154	2,623	3,171	3,740 ~	4,118 ~	--
SBP Nonparticipants	312	2,601	39.2	1,578 ~	1,765	2,108	2,540	3,028	3,517	3,834 ~	--
Middle School Students, Female	401	2,089	35.4	1,069	1,251	1,587	2,013	2,507	3,023	3,371	--
SBP Participants	53	2,319	72.5	1,591 ~	1,712 ~	1,943 ~	2,248 ~	2,618 ~	3,016 ~	3,288 ~	--
SBP Nonparticipants	348	2,062	39.5	1,004	1,186	1,532	1,983	2,506	3,043	3,394	--
High School Students	795	2,573	32.6	1,285	1,498	1,911	2,458	3,111	3,796	4,254	--
SBP Participants	94	2,905	85.3	1,673 ~	1,899 ~	2,315	2,835	3,419	4,001 ~	4,375 ~	--
SBP Nonparticipants	701	2,536	36.1	1,215	1,429	1,845	2,406	3,085	3,809	4,297	--
High School Students, Male	385	3,071	35.5	2,029	2,224	2,578	3,017	3,505	3,990	4,301	--
SBP Participants	51	3,188	84.4	2,303 ~	2,464 ~	2,761 ~	3,132 ~	3,555 ~	3,984 ~	4,265 ~	--
SBP Nonparticipants	334	3,054	42.4	1,907	2,117	2,502	2,986	3,532	4,080	4,435	--
High School Students, Female	410	2,107	38.5	1,011	1,193	1,544	2,011	2,565	3,145	3,531	--
SBP Participants	43	2,441	84.8	1,580 ~	1,749 ~	2,050 ~	2,411 ~	2,799 ~	3,171 ~	3,404 ~	--
SBP Nonparticipants	367	2,078	41.2	981	1,160	1,509	1,976	2,536	3,130	3,528	--
Secondary School Students	1,582	2,479	21.5	1,270	1,474	1,864	2,377	2,984	3,616	4,036	--
SBP Participants	221	2,717	38.2	1,867 ~	2,025	2,314	2,671	3,070	3,467	3,722 ~	--
SBP Nonparticipants	1,361	2,446	23.8	1,214	1,419	1,813	2,336	2,959	3,614	4,052	--
Secondary School Students, Male	771	2,890	27.0	1,787	1,987	2,356	2,821	3,349	3,882	4,228	--
SBP Participants	125	2,951	53.2	2,057 ~	2,225 ~	2,530	2,906	3,323	3,735 ~	4,001 ~	--
SBP Nonparticipants	646	2,880	30.9	1,731	1,937	2,319	2,804	3,358	3,920	4,287	--
Secondary School Students, Female	811	2,099	26.3	1,035	1,215	1,560	2,013	2,544	3,095	3,460	--
SBP Participants	96	2,370	59.1	1,520 ~	1,673 ~	1,957	2,316	2,724	3,137 ~	3,406 ~	--
SBP Nonparticipants	715	2,072	28.4	996	1,176	1,523	1,981	2,522	3,085	3,458	--

¹ The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

AI = Adequate Intake.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

TABLE L.33

USUAL DAILY SODIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Sodium Intakes (mg)										UL ¹			
	N	Mean	SE	Percentiles						AI	UL	% Above	SE	
				5	10	25	50	75	90					95
By Age/Gender Group														
6 to 8 Years ²	343	3,125	42.4	1,998	2,211	2,586	3,042	3,570	4,140	4,537	1,200	1,900	96.5 ~	3.47
SBP Participants	75	3,161	70.5	2,258 ~	2,424 ~	2,728	3,107	3,535	3,966 ~	4,247 ~	1,200	1,900	>97 ~	
SBP Nonparticipants	268	3,113	49.9	1,946 ~	2,166	2,551	3,024	3,572	4,166	4,582 ~	1,200	1,900	95.8 ~	4.24
9 to 13 Years	953	3,411	29.3	2,149	2,368	2,774	3,298	3,924	4,597	5,060	1,500	2,200	94.0	2.99
SBP Participants	182	3,678	60.6	2,470 ~	2,701	3,111	3,607	4,166	4,743	5,130 ~	1,500	2,200	>97 ~	
SBP Nonparticipants	771	3,347	32.9	2,099	2,314	2,707	3,219	3,850	4,545	5,028	1,500	2,200	92.9	3.55
9 to 13 Years, Male	469	3,561	33.7	2,504	2,693	3,043	3,487	3,998	4,525	4,873	1,500	2,200	>97 ~	
SBP Participants	99	3,706	91.6	2,409 ~	2,634 ~	3,057	3,603	4,242	4,911 ~	5,359 ~	1,500	2,200	>97 ~	
SBP Nonparticipants	370	3,529	35.5	2,541	2,717	3,044	3,459	3,937	4,430	4,756	1,500	2,200	>97 ~	
9 to 13 Years, Female	484	3,259	41.7	1,955	2,192	2,621	3,156	3,780	4,450	4,914	1,500	2,200	89.8	4.51
SBP Participants	83	3,646	58.8	2,802 ~	2,980 ~	3,282	3,627	3,986	4,333 ~	4,556 ~	1,500	2,200	>97 ~	
SBP Nonparticipants	401	3,177	47.2	1,865	2,100	2,523	3,057	3,693	4,396	4,896	1,500	2,200	87.1	4.92
14 to 18 Years	1,018	3,584	39.2	1,863	2,163	2,714	3,419	4,266	5,204	5,868	1,500	2,300	86.9	3.04
SBP Participants	124	4,226	116.6	2,535 ~	2,794 ~	3,304	4,011	4,911	5,928 ~	6,651 ~	1,500	2,300	>97 ~	
SBP Nonparticipants	894	3,507	40.5	1,817	2,112	2,658	3,356	4,185	5,085	5,713	1,500	2,300	85.6	3.34
14 to 18 Years, Male	506	4,293	48.9	2,721	3,005	3,521	4,171	4,928	5,731	6,280	1,500	2,300	>97 ~	
SBP Participants	71	4,623	156.9	2,858 ~	3,138 ~	3,681	4,421	5,342	6,363 ~	7,077 ~	1,500	2,300	>97 ~	
SBP Nonparticipants	435	4,242	51.3	2,692	2,975	3,490	4,134	4,875	5,645	6,162	1,500	2,300	>97 ~	
14 to 18 Years, Female	512	2,922	40.3	1,600	1,846	2,287	2,831	3,453	4,110	4,558	1,500	2,300	74.5	4.40
SBP Participants	53	3,566	132.3	2,223 ~	2,449 ~	2,879 ~	3,444 ~	4,119 ~	4,839 ~	5,328 ~	1,500	2,300	93.6 ~	8.88
SBP Nonparticipants	459	2,867	40.7	1,596	1,832	2,258	2,782	3,380	4,005	4,429	1,500	2,300	73.1	4.88
All Students	2,314	3,404	21.3	1,995	2,239	2,683	3,269	3,977	4,740	5,270	--	--	91.8	1.89
SBP Participants	381	3,625	49.2	2,304	2,538	2,962	3,499	4,143	4,860	5,373	--	--	>97 ~	
SBP Nonparticipants	1,933	3,358	23.2	1,950	2,191	2,633	3,224	3,940	4,694	5,213	--	--	90.4	2.19
All Students, Male	1,143	3,746	28.8	2,384	2,624	3,064	3,626	4,293	5,016	5,520	--	--	>97	
SBP Participants	218	3,770	69.2	2,354 ~	2,590	3,041	3,636	4,352	5,119	5,643 ~	--	--	>97 ~	
SBP Nonparticipants	925	3,739	30.8	2,413	2,649	3,081	3,630	4,275	4,964	5,437	--	--	>97	
All Students, Female	1,171	3,067	25.8	1,800	2,035	2,454	2,972	3,575	4,217	4,658	--	--	85.9	2.87
SBP Participants	163	3,417	64.0	2,227 ~	2,453	2,852	3,337	3,891	4,478	4,880 ~	--	--	>97 ~	
SBP Nonparticipants	1,008	3,008	27.7	1,752	1,984	2,397	2,911	3,512	4,155	4,597	--	--	83.8	3.14
By School Type														
Elementary School Students	732	3,327	31.6	2,137	2,345	2,726	3,219	3,810	4,443	4,881	--	--	96.4	2.64
SBP Participants	160	3,487	73.8	2,139 ~	2,376	2,820	3,389	4,048	4,725 ~	5,171 ~	--	--	>97 ~	
SBP Nonparticipants	572	3,279	35.3	2,119	2,316	2,682	3,168	3,754	4,383	4,816	--	--	95.8	3.25

TABLE L.33

USUAL DAILY SODIUM INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Sodium Intakes (mg)										UL ¹		
	N	Mean	SE	Percentiles						AI	UL	% Above	SE
				5	10	25	50	75	90				
By School Type													
Elementary School Students, Male	372	3,454	44.6	2,249	2,464	2,855	3,350	3,936	4,572	5,016	--	--	>97 ~
SBP Participants	93	3,532	91.3	2,259 ~	2,484 ~	2,903	3,439	4,059	4,697 ~	5,119 ~	--	--	>97 ~
SBP Nonparticipants	279	3,428	54.3	2,184 ~	2,400	2,796	3,307	3,922	4,602	5,085 ~	--	--	96.8 ~ 4.50
Elementary School Students, Female	360	3,198	40.1	2,092	2,306	2,676	3,124	3,634	4,178	4,556	--	--	95.9 ~ 4.10
SBP Participants	67	3,426	117.7	2,019 ~	2,270 ~	2,737	3,332	4,012	4,705 ~	5,157 ~	--	--	>97 ~
SBP Nonparticipants	293	3,144	41.8	2,101 ~	2,302	2,652	3,075	3,556	4,067	4,420 ~	--	--	95.7 ~ 4.99
Middle School Students	787	3,229	33.4	1,915	2,144	2,567	3,112	3,765	4,465	4,941	--	--	87.9 4.21
SBP Participants	127	3,439	54.0	2,541 ~	2,706 ~	3,008	3,384	3,810	4,240 ~	4,522 ~	--	--	>97 ~
SBP Nonparticipants	660	3,196	37.8	1,840	2,078	2,515	3,074	3,739	4,462	4,965	--	--	85.8 4.48
Middle School Students, Male	386	3,532	35.5	2,500	2,690	3,037	3,470	3,959	4,453	4,775	--	--	>97 ~
SBP Participants	74	3,652	85.9	2,565 ~	2,752 ~	3,112	3,583	4,120	4,648 ~	4,977 ~	--	--	>97 ~
SBP Nonparticipants	312	3,506	36.7	2,540 ~	2,720	3,047	3,453	3,907	4,362	4,656 ~	--	--	>97 ~
Middle School Students, Female	401	2,957	48.2	1,607	1,846	2,282	2,838	3,497	4,214	4,714	--	--	77.5 4.77
SBP Participants	53	3,126	119.2	1,908 ~	2,114 ~	2,505 ~	3,018 ~	3,629 ~	4,275 ~	4,711 ~	--	--	86.6 ~ 16.20
SBP Nonparticipants	348	2,936	55.0	1,521	1,768	2,222	2,801	3,496	4,268	4,814	--	--	74.8 4.50
High School Students	795	3,659	47.6	1,833	2,149	2,729	3,472	4,375	5,392	6,123	--	--	86.8 3.10
SBP Participants	94	4,378	154.2	2,527 ~	2,791 ~	3,324	4,093	5,116	6,321 ~	7,202 ~	--	--	>97 ~
SBP Nonparticipants	701	3,580	48.9	1,789	2,100	2,674	3,410	4,293	5,264	5,949	--	--	85.6 3.43
High School Students, Male	385	4,436	66.1	2,634	2,953	3,534	4,271	5,150	6,118	6,800	--	--	>97 ~
SBP Participants	51	4,831	283.2	2,482 ~	2,790 ~	3,426 ~	4,388 ~	5,741 ~	7,417 ~	8,685 ~	--	--	>97 ~
SBP Nonparticipants	334	4,380	67.9	2,608	2,928	3,510	4,241	5,094	6,002	6,623	--	--	>97 ~
High School Students, Female	410	2,946	46.7	1,586	1,838	2,290	2,846	3,489	4,174	4,647	--	--	74.7 4.65
SBP Participants	43	3,718	136.5	2,439 ~	2,662 ~	3,080 ~	3,618 ~	4,246 ~	4,900 ~	5,338 ~	--	--	96.8 ~ 7.85
SBP Nonparticipants	367	2,881	47.0	1,579	1,821	2,255	2,790	3,404	4,053	4,497	--	--	73.1 5.13
Secondary School Students	1,582	3,485	29.2	1,887	2,164	2,675	3,332	4,120	4,990	5,604	--	--	87.6 2.54
SBP Participants	221	3,890	67.3	2,522 ~	2,747	3,177	3,752	4,451	5,209	5,731 ~	--	--	>97 ~
SBP Nonparticipants	1,361	3,428	31.3	1,826	2,104	2,618	3,279	4,068	4,932	5,538	--	--	86.1 2.75
Secondary School Students, Male	771	4,067	37.5	2,587	2,850	3,334	3,948	4,667	5,431	5,953	--	--	>97 ~
SBP Participants	125	4,215	104.4	2,656 ~	2,904 ~	3,384	4,038	4,851	5,751 ~	6,380 ~	--	--	>97 ~
SBP Nonparticipants	646	4,039	40.4	2,564	2,830	3,316	3,930	4,640	5,385	5,888	--	--	>97 ~
Secondary School Students, Female	811	2,950	33.2	1,603	1,847	2,290	2,843	3,489	4,182	4,661	--	--	75.8 3.31
SBP Participants	96	3,400	67.1	2,422 ~	2,604 ~	2,935	3,345	3,806	4,267 ~	4,566 ~	--	--	>97 ~
SBP Nonparticipants	715	2,903	35.5	1,557	1,800	2,241	2,794	3,441	4,139	4,623	--	--	73.7 3.40

L.70

¹ Standard error not displayed when percentage is less than 3 or greater than 97.
² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.
 ~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.
 Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.
 AI = Adequate Intake; UL = Tolerable Upper Intake Level.

TABLE L.34

USUAL DAILY ZINC INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Zinc Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By Age/Gender Group													
6 to 8 Years ²	343	10.9	0.20	6.2	7.0	8.4	10.3	12.6	15.5	17.6	4.0	<3 ~	
SBP Participants	75	10.4	0.38	5.4 ~	6.3 ~	8.0	10.1	12.5	14.8 ~	16.2 ~	4.0	<3 ~	
SBP Nonparticipants	268	10.8	0.22	6.2 ~	7.0	8.4	10.2	12.6	15.4	17.5 ~	4.0	<3 ~	
9 to 13 Years	953	11.5	0.11	7.0	7.7	9.2	11.0	13.3	15.8	17.6	7.0	5.2 ~	3.25
SBP Participants	182	12.2	0.23	8.1 ~	8.8	10.1	11.7	13.9	16.4	18.1 ~	7.0	<3 ~	
SBP Nonparticipants	771	11.3	0.12	6.8	7.5	8.9	10.8	13.1	15.6	17.4	7.0	6.1 ~	4.08
9 to 13 Years, Male	469	12.4	0.12	8.5	9.2	10.5	12.1	14.0	16.0	17.3	7.0	<3 ~	
SBP Participants	99	12.9	0.39	7.7 ~	8.6 ~	10.3	12.4	15.0	17.9 ~	20.1 ~	7.0	<3 ~	
SBP Nonparticipants	370	12.3	0.12	8.8	9.4	10.6	12.1	13.7	15.4	16.5	7.0	<3 ~	
9 to 13 Years, Female	484	10.5	0.16	6.1	6.8	8.1	9.9	12.2	14.9	17.0	7.0	11.9 ~	5.31
SBP Participants	83	11.0	0.37	6.1 ~	7.0 ~	8.5	10.5	13.0	15.6 ~	17.2 ~	7.0	10.1 ~	17.30
SBP Nonparticipants	401	10.3	0.18	5.8	6.5	7.8	9.6	12.0	14.8	17.0	7.0	15.0 ~	5.71
14 to 18 Years	1,018	12.1	0.16	5.3	6.3	8.4	11.3	15.0	19.0	21.8	--	18.5	3.44
SBP Participants	124	13.3	0.43	6.7 ~	7.7 ~	9.9	12.7	16.1	19.7 ~	22.2 ~	--	11.5 ~	12.40
SBP Nonparticipants	894	12.0	0.18	4.9	6.0	8.1	11.1	14.9	19.2	22.1	--	21.1	3.23
14 to 18 Years, Male	506	14.9	0.22	8.0	9.1	11.3	14.2	17.8	21.5	24.1	8.5	7.1 ~	5.00
SBP Participants	71	14.7	0.52	8.6 ~	9.6 ~	11.5	14.1	17.2	20.5 ~	22.8 ~	8.5	5.0 ~	23.70
SBP Nonparticipants	435	14.9	0.27	7.3	8.5	10.9	14.1	18.1	22.4	25.4	8.5	9.9 ~	4.79
14 to 18 Years, Female	512	9.6	0.15	4.7	5.5	7.0	9.1	11.6	14.2	16.0	7.3	28.0	4.74
SBP Participants	53	11.1	0.42	6.4 ~	7.2 ~	8.9 ~	11.0 ~	13.3 ~	15.3 ~	16.5 ~	7.3	10.5 ~	22.50
SBP Nonparticipants	459	9.4	0.16	4.6	5.4	6.9	9.0	11.4	14.0	15.8	7.3	29.6	4.78
All Students	2,314	11.6	0.08	6.2	7.1	8.7	10.9	13.7	16.8	19.1	--	8.7	1.71
SBP Participants	381	12.1	0.16	7.8	8.6	10.0	11.8	13.9	16.1	17.6	--	<3 ~	
SBP Nonparticipants	1,933	11.4	0.10	5.9	6.8	8.5	10.7	13.6	17.0	19.4	--	10.5	1.96
All Students, Male	1,143	13.0	0.11	7.7	8.6	10.3	12.5	15.1	18.0	20.0	--	3.2 ~	1.91
SBP Participants	218	12.7	0.18	8.9 ~	9.6	10.8	12.4	14.3	16.3	17.6 ~	--	<3 ~	
SBP Nonparticipants	925	13.1	0.13	7.5	8.5	10.2	12.5	15.3	18.4	20.6	--	4.0 ~	2.44
All Students, Female	1,171	10.2	0.10	5.6	6.4	7.8	9.7	12.0	14.6	16.5	--	13.8	2.61
SBP Participants	163	11.1	0.19	7.5 ~	8.2	9.3	10.8	12.6	14.5	15.6 ~	--	3.1 ~	5.37
SBP Nonparticipants	1,008	10.0	0.11	5.4	6.1	7.6	9.4	11.8	14.5	16.5	--	16.1	2.79
By School Type													
Elementary School Students	732	11.2	0.13	6.5	7.3	8.7	10.7	13.0	15.8	17.8	--	4.0 ~	1.71
SBP Participants	160	11.9	0.29	6.9 ~	7.7	9.3	11.4	14.0	16.8 ~	18.7 ~	--	<3 ~	
SBP Nonparticipants	572	11.0	0.15	6.4	7.1	8.6	10.4	12.8	15.5	17.5	--	4.5 ~	2.23

TABLE L.34

USUAL DAILY ZINC INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Zinc Intakes (mg)										EAR ¹		
	N	Mean	SE	Percentiles						EAR	% Below	SE	
				5	10	25	50	75	90				95
By School Type													
Elementary School Students, Male	372	11.8	0.17	7.0	7.9	9.4	11.4	13.7	16.2	17.8	--	<3	~
SBP Participants	93	12.1	0.32	7.9 ~	8.6 ~	9.9	11.7	13.8	16.2 ~	17.8 ~	--	<3	~
SBP Nonparticipants	279	11.7	0.20	6.9 ~	7.7	9.3	11.3	13.7	16.1	17.7 ~	--	3.4	~ 2.96
Elementary School Students, Female	360	10.6	0.18	6.4	7.1	8.3	10.0	12.2	14.8	16.9	--	5.9	~ 2.83
SBP Participants	67	11.3	0.34	7.3 ~	8.1 ~	9.4	11.0	13.1	15.1 ~	16.4 ~	--	<3	~
SBP Nonparticipants	293	10.4	0.19	6.4 ~	7.0	8.2	9.8	11.9	14.4	16.4 ~	--	5.6	~ 3.43
Middle School Students	787	11.2	0.14	6.1	7.0	8.6	10.7	13.3	16.2	18.4	--	11.1	~ 4.87
SBP Participants	127	11.1	0.27	6.7 ~	7.5 ~	8.9	10.7	12.9	15.1 ~	16.5 ~	--	7.6	~ 10.60
SBP Nonparticipants	660	11.3	0.16	6.0	6.8	8.5	10.6	13.4	16.5	18.7	--	12.1	~ 5.32
Middle School Students, Male	386	13.0	0.19	7.8	8.6	10.3	12.4	15.0	17.9	20.0	--	3.2	~ 5.00
SBP Participants	74	12.3	0.48	6.4 ~	7.4 ~	9.3	11.8	14.7	17.8 ~	19.9 ~	--	9.8	~ 8.28
SBP Nonparticipants	312	13.1	0.22	8.0 ~	8.8	10.4	12.6	15.2	18.1	20.2 ~	--	<3	~
Middle School Students, Female	401	9.7	0.15	5.6	6.3	7.6	9.3	11.4	13.6	15.2	--	18.6	~ 7.81
SBP Participants	53	9.3	0.18	7.3 ~	7.7 ~	8.4 ~	9.2 ~	10.1 ~	11.0 ~	11.5 ~	--	6.5	~ 36.40
SBP Nonparticipants	348	9.7	0.17	5.3	6.1	7.5	9.3	11.5	13.9	15.6	--	20.5	~ 7.58
High School Students	795	12.4	0.19	5.4	6.4	8.6	11.5	15.3	19.5	22.4	--	17.7	~ 3.77
SBP Participants	94	14.0	0.53	7.0 ~	8.1 ~	10.3	13.3	17.0	20.9 ~	23.6 ~	--	10.1	~ 15.10
SBP Nonparticipants	701	12.2	0.21	5.0	6.0	8.2	11.3	15.2	19.6	22.7	--	20.3	~ 3.55
High School Students, Male	385	15.2	0.25	8.5	9.6	11.8	14.6	18.1	21.7	24.1	--	5.2	~ 5.64
SBP Participants	51	15.5	0.63	9.4 ~	10.4 ~	12.3 ~	14.8 ~	17.9 ~	21.4 ~	23.8 ~	--	<3	~
SBP Nonparticipants	334	15.2	0.30	7.6	8.8	11.2	14.4	18.4	22.6	25.5	--	8.3	~ 5.49
High School Students, Female	410	9.8	0.19	4.5	5.3	7.0	9.2	12.0	14.9	17.0	--	28.6	~ 4.51
SBP Participants	43	11.9	0.56	6.2 ~	7.1 ~	9.1 ~	11.7 ~	14.5 ~	17.0 ~	18.2 ~	--	9.9	~ 19.80
SBP Nonparticipants	367	9.6	0.20	4.4	5.2	6.8	9.0	11.7	14.7	16.6	--	30.0	~ 4.68
Secondary School Students	1,582	11.9	0.12	5.8	6.8	8.6	11.2	14.4	18.0	20.6	--	14.3	~ 3.09
SBP Participants	221	12.5	0.14	9.3 ~	9.9	11.0	12.4	13.9	15.4	16.3 ~	--	<3	~
SBP Nonparticipants	1,361	11.8	0.13	5.5	6.5	8.4	11.0	14.4	18.2	21.0	--	16.5	~ 3.09
Secondary School Students, Male	771	14.3	0.16	8.2	9.2	11.1	13.7	16.8	20.2	22.5	--	4.1	~ 3.76
SBP Participants	125	13.8	0.33	8.5 ~	9.4 ~	11.1	13.4	16.0	18.8 ~	20.6 ~	--	<3	~
SBP Nonparticipants	646	14.4	0.19	7.8	8.9	11.0	13.7	17.1	20.7	23.2	--	5.2	~ 4.16
Secondary School Students, Female	811	9.7	0.12	5.1	5.8	7.3	9.3	11.6	14.2	16.0	--	24.5	~ 4.09
SBP Participants	96	10.5	0.22	7.3 ~	7.9 ~	9.0	10.4	11.9	13.4 ~	14.4 ~	--	3.9	~ 19.80
SBP Nonparticipants	715	9.6	0.13	4.9	5.7	7.2	9.2	11.6	14.2	16.0	--	25.5	~ 4.26

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE).

Sample includes all students, including those who did not consume a breakfast.

EAR = Estimated Average Requirement.

TABLE L.35

USUAL DAILY FIBER INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Fiber Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	13.9	0.18	8.8	9.8	11.5	13.7	16.0	18.3	19.7	25
SBP Participants	75	14.2	0.39	9.3 ~	10.1 ~	11.7	13.9	16.4	18.9 ~	20.3 ~	25
SBP Nonparticipants	268	13.8	0.21	8.5 ~	9.5	11.4	13.6	16.0	18.2	19.7 ~	25
9 to 13 Years	953	14.2	0.13	8.4	9.4	11.3	13.7	16.5	19.5	21.6	--
SBP Participants	182	15.0	0.34	8.8 ~	9.9	11.9	14.4	17.5	21.0	23.5 ~	--
SBP Nonparticipants	771	14.0	0.14	8.2	9.3	11.2	13.5	16.3	19.1	21.1	--
9 to 13 Years, Male	469	15.0	0.20	8.8	9.9	11.9	14.5	17.5	20.8	23.0	31
SBP Participants	99	16.6	0.63	8.9 ~	10.0 ~	12.2	15.4	19.6	24.7 ~	28.4 ~	31
SBP Nonparticipants	370	14.6	0.21	8.7	9.8	11.7	14.2	17.1	19.9	21.8	31
9 to 13 Years, Female	484	13.3	0.16	8.1	9.1	10.8	12.9	15.4	17.9	19.7	26
SBP Participants	83	13.3	0.21	10.2 ~	10.8 ~	12.0	13.3	14.6	15.7 ~	16.4 ~	26
SBP Nonparticipants	401	13.3	0.19	7.9	8.9	10.7	12.9	15.5	18.2	20.1	26
14 to 18 Years	1,018	14.0	0.17	6.5	7.7	10.1	13.3	17.2	21.3	24.1	--
SBP Participants	124	15.4	0.25	11.2 ~	12.0 ~	13.4	15.2	17.1	19.1 ~	20.4 ~	--
SBP Nonparticipants	894	13.9	0.19	6.2	7.5	9.9	13.1	17.1	21.3	24.1	--
14 to 18 Years, Male	506	16.2	0.20	9.8	11.0	13.1	15.8	18.9	22.0	24.1	38
SBP Participants	71	16.7	0.51	10.6 ~	11.7 ~	13.7	16.3	19.3	22.4 ~	24.5 ~	38
SBP Nonparticipants	435	16.1	0.23	9.1	10.3	12.6	15.6	19.0	22.5	24.9	38
14 to 18 Years, Female	512	12.0	0.23	5.0	6.1	8.3	11.3	14.9	18.9	21.5	26
SBP Participants	53	13.2	0.72	6.5 ~	7.5 ~	9.4 ~	12.2 ~	15.9 ~	20.0 ~	23.0 ~	26
SBP Nonparticipants	459	11.9	0.24	4.9	6.0	8.2	11.2	14.8	18.7	21.4	26
All Students	2,314	14.1	0.09	7.7	8.8	10.9	13.5	16.6	20.0	22.2	--
SBP Participants	381	14.9	0.20	9.3	10.2	12.0	14.4	17.2	20.1	22.1	--
SBP Nonparticipants	1,933	13.9	0.10	7.4	8.5	10.7	13.4	16.5	19.9	22.2	--
All Students, Male	1,143	15.3	0.13	9.1	10.2	12.2	14.8	17.8	20.9	23.0	--
SBP Participants	218	16.1	0.24	11.1 ~	11.9	13.5	15.6	18.1	20.8	22.5 ~	--
SBP Nonparticipants	925	15.1	0.14	8.8	9.9	12.0	14.6	17.6	20.8	22.9	--
All Students, Female	1,171	12.9	0.12	6.7	7.8	9.9	12.4	15.4	18.5	20.5	--
SBP Participants	163	13.2	0.26	8.2 ~	9.2	10.8	12.9	15.2	17.5	19.0 ~	--
SBP Nonparticipants	1,008	12.8	0.14	6.5	7.7	9.7	12.4	15.4	18.6	20.7	--
By School Type											
Elementary School Students	732	14.4	0.12	9.4	10.4	12.0	14.1	16.4	18.8	20.3	--
SBP Participants	160	14.9	0.37	8.4 ~	9.5	11.5	14.2	17.5	21.1 ~	23.6 ~	--
SBP Nonparticipants	572	14.2	0.13	9.4	10.4	12.0	14.0	16.2	18.4	19.9	--

TABLE L.35

USUAL DAILY FIBER INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Fiber Intakes (g) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	15.0	0.22	8.7	9.8	11.9	14.6	17.7	20.8	22.8	--
SBP Participants	93	15.9	0.57	8.9 ~	10.0 ~	12.1	15.0	18.8	23.1 ~	26.2 ~	--
SBP Nonparticipants	279	14.7	0.24	8.7 ~	9.8	11.9	14.4	17.2	20.0	21.8 ~	--
Elementary School Students, Female	360	13.7	0.12	10.2	10.9	12.1	13.6	15.1	16.7	17.7	--
SBP Participants	67	13.4	0.28	9.8 ~	10.5 ~	11.8	13.3	14.9	16.5 ~	17.4 ~	--
SBP Nonparticipants	293	13.8	0.13	10.3 ~	11.0	12.2	13.6	15.2	16.8	17.8 ~	--
Middle School Students	787	13.0	0.16	6.8	7.8	9.8	12.4	15.6	18.9	21.3	--
SBP Participants	127	14.0	0.26	9.8 ~	10.5 ~	11.9	13.7	15.7	17.8 ~	19.2 ~	--
SBP Nonparticipants	660	12.9	0.18	6.5	7.6	9.6	12.3	15.4	18.9	21.2	--
Middle School Students, Male	386	14.0	0.22	8.0	9.0	10.9	13.4	16.3	19.6	21.9	--
SBP Participants	74	15.1	0.34	10.8 ~	11.6 ~	13.0	14.8	16.8	18.9 ~	20.3 ~	--
SBP Nonparticipants	312	13.7	0.25	7.7 ~	8.7	10.6	13.1	16.1	19.4	21.7 ~	--
Middle School Students, Female	401	12.1	0.21	6.1	7.1	9.1	11.6	14.7	17.9	19.9	--
SBP Participants	53	12.4	0.32	8.9 ~	9.6 ~	10.7 ~	12.2 ~	13.8 ~	15.5 ~	16.5 ~	--
SBP Nonparticipants	348	12.1	0.24	5.8	6.9	8.9	11.6	14.8	18.2	20.3	--
High School Students	795	14.2	0.20	6.5	7.7	10.1	13.4	17.5	21.8	24.7	--
SBP Participants	94	15.8	0.56	8.7 ~	9.8 ~	12.0	15.0	18.8	23.0 ~	25.9 ~	--
SBP Nonparticipants	701	14.0	0.21	6.4	7.6	10.0	13.3	17.3	21.5	24.4	--
High School Students, Male	385	16.6	0.22	10.3	11.5	13.6	16.2	19.2	22.3	24.2	--
SBP Participants	51	17.7	0.57	12.2 ~	13.1 ~	14.8 ~	17.1 ~	19.9 ~	23.0 ~	25.2 ~	--
SBP Nonparticipants	334	16.5	0.24	10.0	11.2	13.3	16.1	19.2	22.3	24.3	--
High School Students, Female	410	12.0	0.27	4.8	5.9	8.2	11.2	14.9	19.1	22.0	--
SBP Participants	43	13.0	0.95	5.5 ~	6.5 ~	8.6 ~	11.8 ~	16.0 ~	21.1 ~	24.9 ~	--
SBP Nonparticipants	367	11.9	0.28	4.8	5.9	8.2	11.2	14.8	18.9	21.7	--
Secondary School Students	1,582	13.7	0.13	6.7	7.9	10.1	13.0	16.6	20.5	23.2	--
SBP Participants	221	14.9	0.26	9.4 ~	10.4	12.1	14.4	17.1	20.1	22.1 ~	--
SBP Nonparticipants	1,361	13.6	0.14	6.5	7.7	9.9	12.9	16.5	20.4	23.1	--
Secondary School Students, Male	771	15.5	0.16	9.1	10.2	12.3	15.0	18.1	21.5	23.8	--
SBP Participants	125	16.4	0.41	10.2 ~	11.2 ~	13.1	15.7	18.9	22.5 ~	25.0 ~	--
SBP Nonparticipants	646	15.4	0.18	8.7	9.8	12.0	14.8	18.2	21.6	23.9	--
Secondary School Students, Female	811	12.1	0.17	5.4	6.5	8.6	11.4	14.9	18.6	21.0	--
SBP Participants	96	12.7	0.45	6.8 ~	7.7 ~	9.5	12.0	15.0	18.4 ~	20.8 ~	--
SBP Nonparticipants	715	12.0	0.18	5.3	6.4	8.5	11.3	14.8	18.6	21.0	--

¹ The AI is for total fiber (dietary and functional). Intakes include only dietary fiber, so true total fiber intakes are underestimated. The AIs used in this table are based on a standard of 14 grams of fiber/1,000 kilocalories using median energy intakes assessed in national survey data. Table 36 shows fiber consumption on a gram per 1,000 kilocalorie basis, compared to the 14 gram/1,000 kilocalorie standard.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes. ~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

AI = Adequate Intake.

TABLE L.36

USUAL DAILY FIBER INTAKES PER 1,000 KILOCALORIES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Fiber Intakes (g/1,000 kcal) ¹										AI
	N	Mean	SE	Percentiles							
				5	10	25	50	75	90		
By Age/Gender Group											
6 to 8 Years ²	343	7.1	0.07	5.1	5.5	6.2	7.0	7.9	8.9	9.5	14
SBP Participants	75	7.0	0.16	5.1 ~	5.4 ~	6.0	6.8	7.8	8.9 ~	9.6 ~	14
SBP Nonparticipants	268	7.1	0.08	5.1 ~	5.5	6.2	7.1	8.0	8.9	9.4 ~	14
9 to 13 Years	953	6.8	0.04	5.0	5.3	6.0	6.7	7.6	8.5	9.1	14
SBP Participants	182	6.7	0.09	5.0 ~	5.3	5.8	6.6	7.5	8.4	9.0 ~	14
SBP Nonparticipants	771	6.8	0.04	5.1	5.4	6.0	6.7	7.6	8.4	9.0	14
9 to 13 Years, Male	469	6.8	0.05	5.1	5.4	6.0	6.7	7.5	8.4	8.9	14
SBP Participants	99	7.0	0.19	4.5 ~	5.0 ~	5.7	6.7	8.1	9.6 ~	10.6 ~	14
SBP Nonparticipants	370	6.7	0.04	5.5	5.7	6.2	6.7	7.2	7.7	8.1	14
9 to 13 Years, Female	484	6.9	0.05	5.1	5.5	6.0	6.7	7.6	8.4	9.0	14
SBP Participants	83	6.4	0.08	5.2 ~	5.4 ~	5.8	6.3	6.8	7.4 ~	7.7 ~	14
SBP Nonparticipants	401	7.0	0.07	5.0	5.3	6.0	6.8	7.8	8.8	9.5	14
14 to 18 Years	1,018	6.6	0.06	4.0	4.4	5.3	6.3	7.6	9.0	9.9	14
SBP Participants	124	6.3	0.13	4.4 ~	4.7 ~	5.2	6.1	7.1	8.2 ~	9.0 ~	14
SBP Nonparticipants	894	6.6	0.06	3.9	4.4	5.3	6.3	7.6	9.0	10.0	14
14 to 18 Years, Male	506	6.2	0.05	4.5	4.8	5.4	6.1	7.0	7.8	8.4	14
SBP Participants	71	6.2	0.15	4.4 ~	4.7 ~	5.2	6.0	6.9	7.9 ~	8.6 ~	14
SBP Nonparticipants	435	6.3	0.06	4.5	4.8	5.4	6.2	7.0	7.8	8.4	14
14 to 18 Years, Female	512	6.9	0.11	3.6	4.2	5.2	6.5	8.1	10.0	11.3	14
SBP Participants	53	6.5	0.22	4.4 ~	4.7 ~	5.4 ~	6.3 ~	7.4 ~	8.7 ~	9.6 ~	14
SBP Nonparticipants	459	6.9	0.12	3.5	4.1	5.2	6.5	8.2	10.1	11.5	14
All Students	2,314	6.8	0.03	4.6	5.0	5.7	6.6	7.7	8.8	9.5	14
SBP Participants	381	6.7	0.07	4.8	5.1	5.7	6.5	7.5	8.6	9.3	14
SBP Nonparticipants	1,933	6.8	0.04	4.6	5.0	5.7	6.7	7.7	8.9	9.6	14
All Students, Male	1,143	6.7	0.04	4.9	5.2	5.8	6.6	7.4	8.3	8.8	14
SBP Participants	218	6.9	0.12	4.5 ~	4.9	5.6	6.6	7.9	9.3	10.4 ~	14
SBP Nonparticipants	925	6.6	0.03	5.1	5.4	5.9	6.5	7.3	7.9	8.4	14
All Students, Female	1,171	6.9	0.05	4.4	4.9	5.7	6.7	7.9	9.3	10.2	14
SBP Participants	163	6.4	0.04	5.6 ~	5.8	6.1	6.4	6.8	7.1	7.4 ~	14
SBP Nonparticipants	1,008	7.0	0.06	4.3	4.8	5.7	6.7	8.1	9.5	10.5	14
By School Type											
Elementary School Students	732	7.1	0.05	5.0	5.3	6.0	6.9	8.0	9.0	9.7	14
SBP Participants	160	6.9	0.12	4.9 ~	5.2	5.8	6.7	7.7	8.9 ~	9.8 ~	14
SBP Nonparticipants	572	7.1	0.06	5.0	5.3	6.1	7.0	8.0	9.1	9.8	14

TABLE L.36

USUAL DAILY FIBER INTAKES PER 1,000 KILOCALORIES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Fiber Intakes (g/1,000 kcal) ¹										AI
	N	Mean	SE	Percentiles						95	
				5	10	25	50	75	90		
By School Type											
Elementary School Students, Male	372	7.1	0.09	4.6	5.1	5.9	6.8	8.0	9.4	10.2	14
SBP Participants	93	7.2	0.20	4.7 ~	5.1 ~	5.8	6.9	8.2	9.8 ~	10.9 ~	14
SBP Nonparticipants	279	7.0	0.09	4.7 ~	5.1	5.9	6.8	8.0	9.1	9.8 ~	14
Elementary School Students, Female	360	7.1	0.07	5.3	5.6	6.2	7.0	7.9	8.7	9.3	14
SBP Participants	67	6.4	0.07	5.5 ~	5.7 ~	6.0	6.4	6.8	7.2 ~	7.5 ~	14
SBP Nonparticipants	293	7.2	0.08	5.3 ~	5.7	6.3	7.1	8.1	9.0	9.6 ~	14
Middle School Students	787	6.5	0.04	4.9	5.2	5.7	6.4	7.2	8.0	8.6	14
SBP Participants	127	6.5	0.09	5.0 ~	5.3 ~	5.8	6.4	7.1	7.9 ~	8.4 ~	14
SBP Nonparticipants	660	6.6	0.05	4.8	5.2	5.7	6.5	7.3	8.1	8.6	14
Middle School Students, Male	386	6.4	0.04	5.3	5.5	5.9	6.3	6.8	7.3	7.6	14
SBP Participants	74	6.5	0.19	4.3 ~	4.7 ~	5.3	6.2	7.3	8.6 ~	9.5 ~	14
SBP Nonparticipants	312	6.3	0.02	5.8 ~	5.9	6.1	6.3	6.6	6.8	7.0 ~	14
Middle School Students, Female	401	6.7	0.07	4.6	5.0	5.7	6.6	7.6	8.6	9.3	14
SBP Participants	53	6.6	0.15	5.0 ~	5.3 ~	5.8 ~	6.5 ~	7.3 ~	8.1 ~	8.6 ~	14
SBP Nonparticipants	348	6.7	0.09	4.4	4.8	5.6	6.6	7.7	8.9	9.6	14
High School Students	795	6.5	0.07	3.9	4.3	5.2	6.3	7.5	8.9	9.9	14
SBP Participants	94	6.3	0.19	4.1 ~	4.4 ~	5.0	6.0	7.2	8.7 ~	9.8 ~	14
SBP Nonparticipants	701	6.5	0.07	3.9	4.3	5.2	6.3	7.6	8.9	9.9	14
High School Students, Male	385	6.2	0.05	4.6	4.9	5.5	6.1	6.9	7.6	8.1	14
SBP Participants	51	6.3	0.24	4.2 ~	4.5 ~	5.1 ~	6.0 ~	7.2 ~	8.6 ~	9.5 ~	14
SBP Nonparticipants	334	6.2	0.06	4.6	4.9	5.4	6.1	6.9	7.6	8.1	14
High School Students, Female	410	6.8	0.13	3.4	4.0	5.1	6.4	8.0	10.0	11.5	14
SBP Participants	43	6.3	0.29	4.0 ~	4.3 ~	5.0 ~	5.9 ~	7.3 ~	8.8 ~	10.0 ~	14
SBP Nonparticipants	367	6.8	0.14	3.4	4.0	5.1	6.4	8.1	10.1	11.6	14
Secondary School Students	1,582	6.5	0.04	4.3	4.7	5.4	6.4	7.4	8.6	9.3	14
SBP Participants	221	6.4	0.08	4.7 ~	5.0	5.5	6.3	7.1	8.1	8.7 ~	14
SBP Nonparticipants	1,361	6.5	0.04	4.3	4.7	5.4	6.4	7.5	8.6	9.4	14
Secondary School Students, Male	771	6.3	0.03	4.9	5.1	5.6	6.2	6.9	7.5	7.9	14
SBP Participants	125	6.4	0.14	4.3 ~	4.7 ~	5.3	6.1	7.2	8.5 ~	9.3 ~	14
SBP Nonparticipants	646	6.3	0.03	5.0	5.3	5.7	6.2	6.8	7.3	7.7	14
Secondary School Students, Female	811	6.8	0.07	4.0	4.5	5.3	6.5	7.9	9.4	10.6	14
SBP Participants	96	6.5	0.09	5.2 ~	5.4 ~	5.8	6.4	7.0	7.6 ~	8.0 ~	14
SBP Nonparticipants	715	6.8	0.08	3.8	4.3	5.3	6.5	8.0	9.6	10.8	14

¹ The AI is for total fiber (dietary and functional). Intakes include only dietary fiber, so true total fiber intakes are underestimated. The age- and gender-specific AIs used in Table 35 are based on an assumption of 14 grams of fiber/1,000 kilocalories using median energy intakes in national survey data. This table shows fiber consumption on a gram per 1,000 kilocalories basis, compared to the 14 gram/1,000 kilocalorie standard.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes. ~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

AI = Adequate Intake.

TABLE L.37

USUAL DAILY CHOLESTEROL INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS

	Cholesterol Intakes (mg)										DGA (<300 mg) ¹	
	N	Mean	SE	Percentiles						% Above	SE	
				5	10	25	50	75	90			95
By Age/Gender Group												
6 to 8 Years ²	343	185	3.3	103	117	142	176	218	265	298	4.8 ~	5.9
SBP Participants	75	171	8.3	79 ~	92 ~	120	159	209	266 ~	307 ~	5.6 ~	4.4
SBP Nonparticipants	268	190	3.5	111 ~	124	149	182	222	265	295 ~	4.4 ~	8.6
9 to 13 Years	953	214	1.8	139	152	175	206	244	286	316	7.3 ~	11.5
SBP Participants	182	223	5.5	119 ~	136	170	214	266	322	359 ~	14.6 ~	10.6
SBP Nonparticipants	771	212	1.4	158	168	185	208	234	262	280	<3 ~	
9 to 13 Years, Male	469	236	3.2	146	160	187	224	271	326	365	15.6 ~	22.1
SBP Participants	99	228	8.5	117 ~	134 ~	168	214	273	340 ~	386 ~	17.6 ~	11.9
SBP Nonparticipants	370	238	4.0	144	158	185	223	274	335	381	17.0 ~	26.5
9 to 13 Years, Female	484	192	2.2	120	133	158	188	222	258	281	<3 ~	
SBP Participants	83	220	6.1	137 ~	152 ~	180	215	254	294 ~	319 ~	8.5 ~	24.1
SBP Nonparticipants	401	187	2.2	122	134	156	183	213	244	263	<3 ~	
14 to 18 Years	1,018	230	3.3	96	116	156	212	283	365	424	20.8	3.6
SBP Participants	124	245	8.0	112 ~	136 ~	181	239	300	360 ~	400 ~	25.0 ~	10.9
SBP Nonparticipants	894	227	3.6	94	114	153	208	281	366	427	20.4	3.8
14 to 18 Years, Male	506	283	3.4	174	193	228	274	328	384	422	36.6	8.4
SBP Participants	71	282	7.0	190 ~	209 ~	241	279	320	359 ~	384 ~	36.1 ~	28.5
SBP Nonparticipants	435	283	4.3	160	180	219	271	333	400	446	37.0	7.0
14 to 18 Years, Female	512	180	3.9	68	85	119	165	223	292	343	9.0 ~	3.5
SBP Participants	53	182	12.8	57 ~	76 ~	113 ~	167 ~	234 ~	308 ~	357 ~	11.1 ~	8.5
SBP Nonparticipants	459	180	4.0	69	86	120	165	223	290	341	8.8 ~	3.9
All Students	2,314	213	1.7	110	126	157	199	253	317	365	12.8	3.5
SBP Participants	381	211	4.2	104	121	155	199	254	317	362	12.9 ~	5.3
SBP Nonparticipants	1,933	214	1.8	111	127	158	200	254	317	364	12.8 ~	4.2
All Students, Male	1,143	241	1.5	169	181	205	235	271	307	332	12.2 ~	19.1
SBP Participants	218	225	5.0	125 ~	141	172	215	266	322	360 ~	14.5 ~	10.3
SBP Nonparticipants	925	246	1.3	187	198	218	242	270	298	317	9.4 ~	36.7
All Students, Female	1,171	186	2.1	90	106	136	175	224	278	317	6.8 ~	2.9
SBP Participants	163	192	5.9	90 ~	107	140	182	233	290	331 ~	8.5 ~	6.6
SBP Nonparticipants	1,008	185	2.2	90	106	135	174	222	276	314	6.5 ~	3.2
By School Type												
Elementary School Students	732	210	3.0	111	126	155	195	246	310	358	11.5 ~	6.3
SBP Participants	160	199	5.7	104 ~	120	150	188	236	291 ~	332 ~	8.6 ~	8.5
SBP Nonparticipants	572	211	2.9	123	137	163	199	245	299	339	9.8 ~	11.0

TABLE L.37

USUAL DAILY CHOLESTEROL INTAKES: SBP PARTICIPANTS AND NONPARTICIPANTS- Continued

	Cholesterol Intakes (mg)										DGA (<300 mg) ¹		
	N	Mean	SE	Percentiles						% Above	SE		
				5	10	25	50	75	90			95	
By School Type													
Elementary School Students, Male	372	226	3.7	134	148	176	215	263	319	360	13.7	~	19.4
SBP Participants	93	204	9.2	98	~	113	~	142	186	246	318	~	7.4
SBP Nonparticipants	279	226	4.6	129	~	143	~	172	212	264	325	~	27.0
Elementary School Students, Female	360	196	3.4	109	~	124	~	151	187	230	279	~	6.1
SBP Participants	67	197	8.2	102	~	118	~	148	189	236	287	~	15.7
SBP Nonparticipants	293	195	3.5	113	~	127	~	153	186	227	273	~	7.3
Middle School Students	787	196	2.0	117	~	130	~	156	189	228	269	~	6.5
SBP Participants	127	204	5.1	124	~	137	~	163	197	237	280	~	18.0
SBP Nonparticipants	660	194	2.2	116	~	129	~	155	188	226	267	~	7.0
Middle School Students, Male	386	226	3.2	139	~	153	~	181	217	261	308	~	15.7
SBP Participants	74	239	7.6	148	~	164	~	193	231	277	326	~	39.3
SBP Nonparticipants	312	223	3.5	136	~	151	~	178	214	258	305	~	17.0
Middle School Students, Female	401	169	3.2	80	~	95	~	122	159	205	254	~	4.3
SBP Participants	53	152	4.8	102	~	111	~	127	~	148	~	~	<3
SBP Nonparticipants	348	171	3.6	78	~	93	~	122	161	209	260	~	4.8
High School Students	795	234	3.5	104	~	125	~	164	218	286	363	~	4.7
SBP Participants	94	253	8.6	122	~	147	~	194	250	306	360	~	12.6
SBP Nonparticipants	701	232	3.8	102	~	122	~	161	215	283	363	~	5.0
High School Students, Male	385	290	3.4	192	~	210	~	242	283	330	378	~	10.4
SBP Participants	51	284	6.7	209	~	224	~	252	~	283	~	~	59.1
SBP Nonparticipants	334	291	4.3	180	~	199	~	235	281	337	395	~	8.6
High School Students, Female	410	182	4.0	75	~	92	~	125	169	224	287	~	4.4
SBP Participants	43	202	15.4	58	~	81	~	127	~	190	~	~	9.2
SBP Nonparticipants	367	180	4.1	77	~	94	~	126	168	220	281	~	5.0
Secondary School Students	1,582	218	2.0	109	~	127	~	160	206	262	325	~	4.2
SBP Participants	221	228	5.1	118	~	137	~	173	220	273	329	~	10.9
SBP Nonparticipants	1,361	217	2.2	108	~	125	~	159	204	261	324	~	4.6
Secondary School Students, Male	771	264	1.1	216	~	226	~	242	262	284	304	~	60.9
SBP Participants	125	262	2.1	224	~	232	~	245	261	278	293	~	158.0
SBP Nonparticipants	646	264	1.4	209	~	220	~	239	262	287	312	~	50.8
Secondary School Students, Female	811	176	2.6	77	~	93	~	124	165	216	273	~	3.2
SBP Participants	96	177	7.3	77	~	93	~	125	168	219	272	~	7.5
SBP Nonparticipants	715	176	2.8	77	~	93	~	124	165	216	273	~	3.5

¹ Standard error not displayed when percentage is less than 3 or greater than 97.

² The DRI age group is 4 to 8 years; however, the recall sample does not include 4- and 5-year-olds. This age group is not broken out by gender because of small sample sizes.

~ Estimates may not be reliable due to inadequate cell size or a large coefficient of variation.

Source: School Nutrition Dietary Assessment-III, 24-Hour Dietary Recalls, school year 2004-2005. Weighted tabulations based on first and second 24-hour recalls prepared by Mathematica Policy Research, Inc. Usual intake distributions were determined for each subgroup using the PC version of the Software for Intake Distribution Estimation (PC-SIDE). Sample includes all students, including those who did not consume a breakfast.

DGA = Recommendation from the Dietary Guidelines for Americans.

APPENDIX M

**FOOD SOURCES OF NUTRIENTS: SCHOOL BREAKFAST PROGRAM
PARTICIPANTS AND NONPARTICIPANTS**

TABLE M.1

FOOD SOURCES OF ENERGY, TOTAL FAT, AND SATURATED FAT CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Energy		Total Fat		Saturated Fat	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	13.7	19.6**	10.7	14.6*	2% milk, unflavored	18.3
Sweet rolls, doughnuts, toaster pastries	9.0	7.1	9.5	8.9	Whole milk, unflavored	11.8
2% milk, unflavored	7.8	9.8	7.5	7.1	Condiments and spreads	8.4
Fruit juice, 100%	7.6	7.1	6.6	3.6*	Sweet rolls, doughnuts, toaster pastries	4.6
Pancakes, waffles, French toast	5.2	5.1	6.1	6.7	Cookies, cakes, brownies	4.0
Condiments and spreads	5.0	4.8	5.4	5.9	1% milk, unflavored	3.7
Cookies, cakes, brownies	4.1	2.1*	4.8	7.7**	Breakfast sandwiches	3.5
Whole milk, unflavored	4.0	3.5	3.9	5.8	Pancakes, waffles, French toast	3.1
White bread, rolls, bagels	3.1	2.6	3.3	3.5	Cold cereal	3.1
1% milk, unflavored	2.6	2.1	3.2	4.8	Sausages, hot dogs, cold cuts	3.0
Muffins, sweet/quick breads	2.0	2.0	2.7	0.6*	Eggs	2.9
Breakfast sandwiches	1.9	2.8	2.4	3.0	2% milk, flavored	2.7
Juice drinks (not 100% juice)	1.9	2.8	2.3	0.6	Mexican-style entrees	2.7
Crackers and pretzels	1.0	2.3	2.0	2.7	Pizza and pizza products	2.5
			1.7	2.2	Candy	2.3
			1.0	2.1		
			1.0	2.1		

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.2

FOOD SOURCES OF CARBOHYDRATE AND PROTEIN CONSUMED AT BREAKFAST
BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Carbohydrate		Protein		
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Participants	Nonparticipants	
Cold cereal	19.0	26.2**	2% milk, unflavored	17.5	21.7
Fruit juice, 100%	11.5	10.5	Whole milk, unflavored	7.4	6.4
Sweet rolls, doughnuts, toaster pastries	9.6	7.1	1% milk, unflavored	7.1	5.7
Condiments and spreads	5.5	5.0	Cold cereal	6.9	11.3**
Pancakes, waffles, French toast	5.1	4.8	Pancakes, waffles, French toast	4.3	4.3
2% milk, unflavored	4.6	5.6	Sweet rolls, doughnuts, toaster pastries	4.0	3.1
White bread, rolls, bagels	3.7	3.0	White bread, rolls, bagels	3.5	3.0
Cookies, cakes, brownies	3.6	1.8*	Eggs	3.4	4.4
Juice drinks (not 100% juice)	2.9	4.3	1% milk, flavored	2.9	0.8**
Muffins, sweet/quick breads	2.1	2.0	Breakfast sandwiches	2.8	3.8
Hot cereal	2.1	1.1	Fruit juice, 100%	2.7	2.4
Carbonated sodas	2.0	2.7	Sausages, hot dogs, cold cuts	2.6	2.5
Crackers and pretzels	1.1	2.5	2% milk, flavored	2.4	0.8*
			Pizza and pizza products	2.3	0.4*
			Hot cereal	2.0	1.1
			Mexican-style entrees	2.0	2.7
			Skim or nonfat milk, unflavored	1.4	3.8**

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.3

FOOD SOURCES OF VITAMIN A (RAE), VITAMIN C, AND VITAMIN E CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Vitamin A (RAE)		Vitamin C		Vitamin E	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	27.5	36.8**	69.3	56.3**	12.0	45.8**
2% milk, unflavored	15.9	18.3	11.5	16.3	11.3	7.4*
Sweet rolls, doughnuts, toaster pastries	9.8	6.1*	5.5	13.9**	11.3	6.1*
1% milk, unflavored	6.9	5.1				
Pancakes, waffles, French toast	5.5	5.5			5.7	3.8
Hot cereal	4.9	2.7			5.1	2.0
Whole milk, unflavored	3.6	2.9			4.3	0.9
1% milk, flavored	2.9	0.8**			3.6	3.0
Condiments and spreads	2.9	3.0			3.4	3.1
2% milk, flavored	2.3	0.6*			3.3	1.0
Eggs	2.3	2.7			2.4	2.5
Grain/fruit cereal bars, granola bars	1.5	2.1			2.4	1.1
Skim or nonfat milk, unflavored	1.4	3.6*			2.2	2.0
					2.1	0.3
					2.0	0.2*
					2.0	3.1

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

RAE = Retinol Activity Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.4

FOOD SOURCES OF VITAMIN B₆, VITAMIN B₁₂, AND FOLATE (DFE) CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Vitamin B ₆			Vitamin B ₁₂			Folate (DFE)		
	Percentage Contribution to Lunch Intake			Percentage Contribution to Lunch Intake			Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)
Cold cereal	47.0	60.3**	Cold cereal	40.6	51.9**	Cold cereal	59.7	71.9**	
Fruit juice, 100%	8.0	5.8*	2% milk, unflavored	18.5	18.3	Fruit juice, 100%	6.4	4.8	
Sweet rolls, doughnuts, toaster pastries	5.7	3.1*	Whole milk, unflavored	7.6	5.3	Sweet rolls, doughnuts, toaster pastries	5.3	3.1*	
Pancakes, waffles, French toast	5.6	4.8	1% milk, unflavored	7.0	4.5	White bread, rolls, bagels	3.3	2.3	
2% milk, unflavored	5.0	5.0	Pancakes, waffles, French toast	4.9	4.2	Pancakes, waffles, French toast	2.9	2.5	
Grain/fruit cereal bars, granola bars	3.5	3.3	1% milk, flavored	2.3	0.6**	Hot cereal	2.3	1.0	
Hot cereal	2.8	1.3	Eggs	2.2	2.2	Grain/fruit cereal bars, granola bars	2.1	1.8	
Banana	2.4	1.9	Skim or nonfat milk, unflavored	1.6	3.6*				
Whole milk, unflavored	2.2	1.5							

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

DFE = Dietary Folate Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.5
FOOD SOURCES OF CALCIUM, IRON, AND MAGNESIUM CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Calcium		Iron		Magnesium	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
2% milk, unflavored	24.9	30.0	52.7	66.1**	14.4	24.1**
Whole milk, unflavored	10.4	8.7	7.5	3.8**	13.2	15.5
1% milk, unflavored	10.1	7.8	5.9	4.7	11.3	9.6
Cold cereal	9.3	14.4**	4.6	3.2*	5.3	4.0
Fruit juice, 100%	8.4	7.4	4.3	2.0	5.2	4.3
1% milk, flavored	4.1	1.2**	3.3	2.2	3.8	2.0
Pancakes, waffles, French toast	3.6	3.6			3.7	2.8
2% milk, flavored	3.5	1.0*			3.2	2.7
Skim or nonfat milk, unflavored	2.1	5.5**			2.6	0.7**
					2.3	2.4
					2.3	0.7*
					2.2	1.8
					1.0	2.7**

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.6

FOOD SOURCES OF PHOSPHORUS, POTASSIUM, AND SODIUM CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Phosphorus		Potassium		Sodium	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
2% milk, unflavored	19.5	23.7	20.8	18.8	16.5	23.3*
Cold cereal	8.2	13.9**	18.0	22.6	9.9	9.3
Whole milk, unflavored	8.2	6.9	7.4	6.5	7.1	5.2
Pancakes, waffles, French toast	8.1	8.0	7.2	5.8	5.0	5.9
1% milk, unflavored	7.8	6.1	4.9	9.0**	4.6	3.7
1% milk, flavored	3.5	1.0**	3.4	1.0**	4.1	5.1
Sweet rolls, doughnuts, toaster pastries	3.4	2.6	2.9	0.9*	3.2	1.5*
2% milk, flavored	3.0	0.9*	2.3	1.7	3.2	3.2
Fruit juice, 100%	2.8	2.4	2.2	2.3	3.1	0.5*
Breakfast sandwiches	2.3	3.1	2.1	1.7	2.8	3.7
Hot cereal	2.2	1.2	1.4	4.0**	2.7	3.7
Eggs	2.1	2.8			2.5	2.3
Cookies, cakes, brownies	2.1	0.9			2.3	2.1
Skim or nonfat milk, unflavored	1.6	4.4**			2.3	2.2
Biscuits, croissants, cornbread	1.6	2.3			2.1	1.6
					2.1	1.2
					2.1	1.7
					1.7	5.2

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.7
FOOD SOURCES OF ZINC, CHOLESTEROL, AND DIETARY FIBER CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, ALL STUDENTS

Food Group/Food(s)	Zinc		Cholesterol		Dietary Fiber		
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants
Cold cereal	46.2	58.1 **	29.6	34.0	Cold cereal	24.5	39.4 **
2% milk, unflavored	10.1	10.1	12.4	14.8	Sweet rolls, doughnuts, toaster pastries	7.7	5.4
Whole milk, unflavored	4.1	2.8	6.8	5.7	Pancakes, waffles, French toast	6.4	5.7
1% milk, unflavored	4.0	2.5	6.7	8.4	Hot cereal	5.4	2.7
Sweet rolls, doughnuts, toaster pastries	2.3	1.4 *	6.0	10.6	Fruit juice, 100%	4.7	4.2
Pancakes, waffles, French toast	2.0	1.6	4.3	3.8	White bread, rolls, bagels	4.6	3.3
			4.2	1.2 **	Banana	3.5	3.1
			3.6	2.9	Apple	3.4	4.3
			3.1	2.4	Muffins, sweet/quick breads	3.0	2.5
			3.1	2.8	Whole grain breads and rolls	2.9	3.2
			2.2	1.9	Cookies, cakes, brownies	2.8	1.3 **
			2.0	3.0	1% milk, flavored	2.1	0.4 **
					Mexican-style entrees	1.4	2.6
					Biscuits, croissants, cornbread	1.0	3.0

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.8

FOOD SOURCES OF FOOD ENERGY CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools			Middle Schools			High Schools		
	Percentage Contribution to Breakfast Intake		Food Group/Food(s)	Percentage Contribution to Breakfast Intake		Food Group/Food(s)	Percentage Contribution to Breakfast Intake		
	Participants	Nonparticipants		Participants	Nonparticipants		Participants	Nonparticipants	
Cold cereal	11.7	20.6**	Cold cereal	21.0	18.4	Cold cereal	13.6	19.2	
Sweet rolls, doughnuts, toaster pastries	9.7	7.2	2% milk, unflavored	7.8	8.1	2% milk, unflavored	8.5	8.1	
Fruit juice, 100%	8.1	6.9	Fruit juice, 100%	7.4	6.9	Sweet rolls, doughnuts, toaster pastries	8.4	7.7	
2% milk, unflavored	7.5	12.4*	Sweet rolls, doughnuts, toaster pastries	7.2	5.4	Fruit juice, 100%	6.3	7.4	
Pancakes, waffles, French toast	6.2	8.2	Whole milk, unflavored	5.1	4.3	Breakfast sandwiches	5.3	4.9	
Condiments and spreads	5.4	5.3	Condiments and spreads	4.3	6.3	Condiments and spreads	4.3	3.6	
Cookies, cakes, brownies	4.8	2.2	Pancakes, waffles, French toast	3.6	6.2	Cookies, cakes, brownies	4.0	2.1	
Whole milk, unflavored	4.0	2.6	1% milk, unflavored	3.4	2.9	White bread, rolls, bagels	3.7	3.4	
White bread, rolls, bagels	3.2	1.5*	Muffins, sweet/quick breads	2.7	2.8	Pancakes, waffles, French toast	3.6	1.8	
1% milk, unflavored	2.9	1.5*	Breakfast sandwiches	2.5	1.9	Candy	3.5	1.2*	
2% milk, flavored	2.2	0.9	Biscuits, croissants, combread	2.4	1.4	Whole milk, unflavored	3.2	4.1	
1% milk, flavored	2.1	0.9*	White bread, rolls, bagels	2.2	3.0	Carbonated sodas	2.9	3.0	
Pizza and pizza products	2.0	0.0*	Juice drinks (not 100% juice)	1.9	3.0	Juice drinks (not 100% juice)	2.9	3.1	
Muffins, sweet/quick breads	2.0	2.0	Eggs	1.9	2.3	Mexican-style entrees	2.7	2.0	
Juice drinks (not 100% juice)	1.5	2.5				Breaded/fried chicken products	2.2	0.3	
Crackers and pretzels	1.4	3.8				Grain/fruit cereal bars, granola bars	1.3	2.3	
						1% milk, unflavored	1.0	2.3	

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.10

FOOD SOURCES OF SATURATED FAT CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
2% milk, unflavored	17.6	32.0**	18.2	18.7	20.8	19.5
Whole milk, unflavored	11.7	8.4	14.6	12.2	9.6	12.2
Condiments and spreads	8.6	6.5	8.1	10.5	9.5	9.9
Sweet rolls, doughnuts, toaster pastries	5.0	4.7	5.0	4.2	8.1	7.9
Cookies, cakes, brownies	4.9	2.1	4.6	4.0	5.7	3.0
1% milk, unflavored	4.1	2.4	4.4	3.7	4.2	1.8
2% milk, flavored	3.7	1.9	4.4	3.7	3.5	4.5
Sausages, hot dogs, cold cuts	3.6	3.0	4.3	5.1	3.3	1.9
Pancakes, waffles, French toast	3.6	5.2	2.5	0.0*	3.1	0.4
Eggs	3.0	4.7	2.5	1.7	2.9	4.6
Pizza and pizza products	2.9	0.0*	2.2	0.9	2.5	1.1
Cold cereal	2.7	5.5**	2.2	3.0	1.7	3.3
Mexican-style entrees	1.9	4.3	2.2	2.5	1.7	2.8
Breakfast sandwiches	1.1	2.7	2.1	0.9	1.4	3.3
			Muffins, sweet/quick breads	2.0	2.5	1.4
			Pancakes, waffles, French toast	1.9	3.6	1.4
			Cheese	1.6	2.6	1.3
			Other milk items	1.0	2.6	
			Peanut butter/nuts/seeds/trail mixes	0.5	2.2	
			2% milk, unflavored			
			Whole milk, unflavored			
			Condiments and spreads			
			Breakfast sandwiches			
			1% milk, unflavored			
			Sweet rolls, doughnuts, toaster pastries			
			Cold cereal			
			Eggs			
			Hot dog/com dog			
			Pizza and pizza products			
			Mexican-style entrees			
			Grain/fruit cereal bars, granola bars			
			Sausages, hot dogs, cold cuts			
			Biscuits, croissants, cornbread			
			Muffins, sweet/quick breads			
			Pancakes, waffles, French toast			
			Cheese			
			Other milk items			
			Peanut butter/nuts/seeds/trail mixes			
			2% milk, unflavored			
			Whole milk, unflavored			
			Breakfast sandwiches			
			Condiments and spreads			
			Mexican-style entrees			
			Candy			
			Sweet rolls, doughnuts, toaster pastries			
			Cookies, cakes, brownies			
			Breaded/fried chicken products			
			Cold cereal			
			Pancakes, waffles, French toast			
			Sausages, hot dogs, cold cuts			
			Grain/fruit cereal bars, granola bars			
			1% milk, unflavored			
			Eggs			
			Cheese			

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

**Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.11

FOOD SOURCES OF CARBOHYDRATE CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	16.1	26.6*	29.4	25.9	18.7	26.0
Fruit juice, 100%	12.3	9.9	11.2	10.6	9.5	11.0
Sweet rolls, doughnuts, toaster pastries	10.4	7.0	7.2	5.3	9.4	8.0
Condiments and spreads	6.2	5.9	4.6	4.8	5.0	4.6
Pancakes, waffles, French toast	6.0	7.6	4.3	6.9	4.7	4.8
2% milk, unflavored	4.4	6.9*	3.8	5.9	4.6	3.3
Cookies, cakes, brownies	4.2	1.9	3.0	4.7	4.6	4.7
White bread, rolls, bagels	3.8	1.7*	2.6	2.8	4.4	4.0
Juice drinks (not 100% juice)	2.3	3.7	2.6	3.6	4.0	1.3*
1% milk, flavored	2.2	0.9*	2.5	2.2	3.7	1.8
Hot cereal	2.2	1.6	2.5	1.9	3.5	1.6
1% milk, unflavored	2.2	1.1*	2.4	2.1	2.5	2.7
Muffins, sweet/quick breads	2.1	2.2			2.2	0.8
Crackers and pretzels	1.6	4.2			1.4	2.5
					Whole grain breads and rolls	1.0
					Banana	2.1
						0.5
						2.3**

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.12
FOOD SOURCES OF PROTEIN CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
2% milk, unflavored	17.0	28.7**	17.2	17.9	19.3	17.2
1% milk, unflavored	8.1	4.3*	9.9	8.6	8.5	6.8
Whole milk, unflavored	7.4	4.9	9.1	7.7	7.4	12.0*
Cold cereal	5.9	11.7**	9.0	7.7	5.9	7.1
Pancakes, waffles, French toast	5.0	7.4	4.7	5.4	4.7	0.6
Sweet rolls, doughnuts, toaster pastries	4.3	3.3	3.4	5.4	4.3	4.0
1% milk, flavored	3.7	1.5*	3.3	2.3	3.8	2.8
Eggs	3.6	4.2	3.2	2.6	3.6	3.1
White bread, rolls, bagels	3.5	1.7	2.8	4.7	3.3	1.4
2% milk, flavored	3.4	1.4	2.7	2.2	2.9	2.9
Sausages, hot dogs, cold cuts	3.1	2.0	2.5	3.5	2.7	5.9
Pizza and pizza products	2.9	0.0*	2.2	0.7	2.5	0.9
Fruit juice, 100%	2.8	2.3	2.1	0.8	2.3	2.6
Unbreaded poultry/meat/fish	2.7	0.0*	1.9	2.1	2.2	2.5
Cookies, cakes, brownies	2.1	0.9	1.3	3.6	1.8	4.0
Mexican-style entrees	1.4	3.5	0.8	2.6	1.3	4.7**
Crackers and pretzels	0.9	3.0	0.5	2.1	1.0	2.1
Skim or nonfat milk, unflavored	0.8	2.0				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.
*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.
**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.14

FOOD SOURCES OF VITAMIN A (RAE) CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	23.6	36.2**	37.7	37.2	29.7	37.1
2% milk, unflavored	15.2	22.0*	15.1	14.9	18.8	16.2
Sweet rolls, doughnuts, toaster pastries	10.3	5.4*	8.3	6.7	11.7	8.0
1% milk, unflavored	7.9	3.6*	6.1	3.9	6.2	1.2*
Pancakes, waffles, French toast	6.5	8.2	4.3	3.4	4.7	0.6
Hot cereal	5.4	4.7	4.1	6.6	3.7	2.2
1% milk, flavored	3.8	1.3*	3.3	4.9	3.0	3.5
Whole milk, unflavored	3.6	2.1	2.9	3.5	2.8	5.8
2% milk, flavored	3.2	1.0	2.7	3.5	2.3	2.2
Condiments and spreads	3.1	2.5	2.3	1.7	2.2	3.2
Eggs	2.4	2.5	2.1	0.6	1.6	4.0
			0.8	2.1	1.3	4.9**
			0.5	2.2	1.2	2.6

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

RAE = Retinol Activity Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.16

FOOD SOURCES OF VITAMIN E CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Sweet rolls, doughnuts, toaster pastries	12.5	6.2	19.9	28.5		15.1
Fruit juice, 100%	11.1	5.1*	13.4	8.1		10.3
Cold cereal	8.7	57.3**	10.1	4.9		8.8
Pancakes, waffles, French toast	7.3	4.8	5.1	5.2		6.9
Peanut butter sandwiches	6.3	0.0	3.8	1.1		6.6
Cookies, cakes, brownies	5.4	2.0	3.5	5.5		5.8
Snack chips (popcorn, potato chips)	4.3	0.6*	3.4	2.9		4.7
Eggs	3.8	2.5	3.3	6.9		3.5
Condiments and spreads	3.7	2.3	2.8	2.4		3.2
Mixtures with pasta or noodle base	3.5	0.6	2.7	2.7		3.1
Pizza and pizza products	2.8	0.0	2.5	2.0		2.9
Muffins, sweet/quick breads	2.7	0.8	2.5	1.6		2.6
2% milk, unflavored	2.2	2.3	2.4	0.0*		2.5
Peanut butter/nuts/seeds/trail mixes	0.9	2.3	2.3	1.9		2.2
			2.3	0.6		2.2
			2.0	7.2		1.8
						2.9
						1.2
						2.5

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.17
FOOD SOURCES OF VITAMIN B₆ CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	41.4	62.0**	61.2	59.1	49.0	59.0
Fruit juice, 100%	8.8	5.1*	6.7	5.7	6.7	6.5
Pancakes, waffles, French toast	7.0	6.9	4.3	4.6	6.6	3.8
Sweet rolls, doughnuts, toaster pastries	6.2	2.6**	3.8	7.1	5.6	4.2
2% milk, unflavored	5.0	6.0	3.3	2.3	3.8	3.7
Grain/fruit cereal bars, granola bars	4.0	3.2	2.5	0.5*	3.5	1.9
Hot cereal	3.2	2.2	2.3	2.0	3.2	0.6
Banana	2.8	0.5**	2.2	1.9	2.3	1.1
1% milk, unflavored	2.3	0.9**	1.5	2.6	1.0	3.9*
Whole milk, unflavored	2.2	1.0*				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.18
FOOD SOURCES OF VITAMIN B₁₂ CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	37.2	53.3**	48.5	47.8	42.0	52.3
2% milk, unflavored	18.6	21.2	15.0	15.4	22.1	16.4
1% milk, unflavored	8.3	3.0**	7.8	6.5	6.6	6.6
Whole milk, unflavored	7.9	3.5*	7.3	6.3	3.5	1.8
Pancakes, waffles, French toast	6.0	6.0	3.4	5.2	3.2	2.0
1% milk, flavored	3.1	0.9*	3.1	5.3	2.9	5.3
2% milk, flavored	2.8	0.8	2.4	2.9	1.6	5.1*
Eggs	2.4	1.9			1.3	2.2
Grain/fruit cereal bars, granola bars	2.1	2.4				

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.19
FOOD SOURCES OF FOLATE (DFE) CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake		Percentage Contribution to Breakfast Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	53.5	74.4**	73.2	69.7	61.4	69.9
Fruit juice, 100%	7.4	4.2*	5.3	5.2	4.9	3.7
Sweet rolls, doughnuts, toaster pastries	6.4	2.8**	3.1	2.5	4.9	5.3
Pancakes, waffles, French toast	3.9	3.5	1.8	3.1	3.8	3.3
White bread, rolls, bagels	3.7	1.2*	1.4	3.8	2.3	0.4
Hot cereal	2.8	1.7			2.2	2.0
Grain/fruit cereal bars, granola bars	2.6	2.4			2.2	1.3

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

DFE = Dietary Folate Equivalents.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.20
FOOD SOURCES OF CALCIUM CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools			Middle Schools			High Schools		
	Percentage Contribution to Breakfast Intake			Percentage Contribution to Breakfast Intake			Percentage Contribution to Breakfast Intake		
	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)
2% milk, unflavored	23.6	35.0*	2% milk, unflavored	23.2	24.3	2% milk, unflavored	31.4	27.1	2% milk, unflavored
1% milk, unflavored	11.2	5.3*	Whole milk, unflavored	12.2	10.4	Whole milk, unflavored	9.5	11.1	Whole milk, unflavored
Whole milk, unflavored	10.2	5.9	1% milk, unflavored	12.0	10.5	Cold cereal	9.2	11.4	Cold cereal
Cold cereal	8.7	18.2**	Cold cereal	11.2	11.6	Fruit juice, 100%	6.7	8.0	Fruit juice, 100%
Fruit juice, 100%	8.7	6.4	Fruit juice, 100%	8.8	8.2	1% milk, unflavored	4.4	9.3	1% milk, unflavored
1% milk, flavored	5.2	1.8*	Skim or nonfat milk, unflavored	4.9	7.6	Other items	3.5	1.3	Other items
2% milk, flavored	4.7	1.7	1% milk, flavored	3.0	0.9	Pancakes, waffles, French toast	3.3	1.5	Pancakes, waffles, French toast
Pancakes, waffles, French toast	4.1	5.1	Pancakes, waffles, French toast	2.4	4.4	Breakfast sandwiches	3.2	3.0	Breakfast sandwiches
Pizza and pizza products	2.1	0.0*	Other milk items	1.1	3.4	Mexican-style entrees	3.0	1.1	Mexican-style entrees
Skim or nonfat milk, unflavored	1.2	2.5				Hot cereal	2.7	0.8	Hot cereal
						Skim or nonfat milk, unflavored	2.1	7.8**	Skim or nonfat milk, unflavored
						Cheese	0.8	2.2	Cheese

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group. Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.22
FOOD SOURCES OF MAGNESIUM CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
2% milk, unflavored	12.7	20.0**	20.6	15.6	16.7	27.4*
Cold cereal	11.8	23.9**	13.3	14.5	14.7	12.1
Fruit juice, 100%	11.8	9.2	11.3	9.7	9.7	9.8
1% milk, unflavored	6.0	3.0*	6.8	6.1	4.4	1.6
Whole milk, unflavored	5.2	3.2	6.6	5.8	4.4	0.8
Sweet rolls, doughnuts, toaster pastries	4.2	2.5	2.8	2.5	4.2	4.7
Hot cereal	4.0	2.9	2.6	4.3	3.1	3.0
Pancakes, waffles, French toast	3.8	4.3	2.3	1.2	2.9	2.4
1% milk, flavored	3.3	1.2*	2.2	3.9	2.8	2.3
2% milk, flavored	3.1	1.2	2.1	0.4*	2.2	1.1
Peanut butter sandwiches	2.6	0.0	2.0	0.7	2.2	0.9
Grain/fruit cereal bars, granola bars	2.4	2.6	1.7	2.4	2.2	2.1
White bread, rolls, bagels	2.2	1.0*	1.6	2.4	2.0	4.1
Biscuits, croissants, cornbread	0.3	3.5	1.2	3.3	1.1	2.3
			0.7	3.6	0.9	3.2**
					0.7	3.0*

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

* Differences between participants and nonparticipants is significantly different from zero at the .05 level.

** Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.23

FOOD SOURCES OF PHOSPHORUS CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
2% milk, unflavored	18.8	29.7*	2% milk, unflavored	18.8	19.8	2% milk, unflavored	22.1	19.6
Pancakes, waffles, French toast	9.3	13.0	Cold cereal	11.3	9.6	Cold cereal	9.2	16.2*
1% milk, unflavored	8.9	4.4*	Whole milk, unflavored	9.9	8.5	Whole milk, unflavored	6.7	8.0
Whole milk, unflavored	8.1	5.0	1% milk, unflavored	9.7	8.5	Breakfast sandwiches	6.4	5.4
Cold cereal	7.0	13.5**	Pancakes, waffles, French toast	6.8	9.0	Pancakes, waffles, French toast	5.6	2.8
1% milk, flavored	4.6	1.6*	Skim or nonfat milk, unflavored	4.0	6.2	Sweet rolls, doughnuts, toaster pastries	3.3	2.9
2% milk, flavored	4.2	1.6	Biscuits, croissants, cornbread	2.9	1.8	Other items	3.2	2.0
Sweet rolls, doughnuts, toaster pastries	3.6	2.5	Eggs	2.9	3.5	1% milk, unflavored	3.1	6.7
Fruit juice, 100%	2.9	2.2	Sweet rolls, doughnuts, toaster pastries	2.7	2.1	Hot cereal	2.9	1.1
Cookies, cakes, brownies	2.5	0.9	Breakfast sandwiches	2.7	2.1	Biscuits, croissants, cornbread	2.6	2.5
Pizza and pizza products	2.3	0.0*	Fruit juice, 100%	2.7	2.4	Mexican-style entrees	2.6	1.6
Eggs	2.2	2.6	1% milk, flavored	2.7	0.8	Fruit juice, 100%	2.4	2.7
Hot cereal	2.2	1.5	Muffins, sweet/quick breads	2.1	2.2	Breaded/fried chicken products	2.4	0.3
Skim or nonfat milk, unflavored	1.0	2.2	Other milk items	0.9	2.8	Skim or nonfat milk, unflavored	1.5	5.6**
Biscuits, croissants, cornbread	0.8	2.3				Eggs	1.2	2.6

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.24
FOOD SOURCES OF POTASSIUM CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
Fruit juice, 100%	21.5	18.5	Fruit juice, 100%	20.3	18.7	2% milk, unflavored	21.6	18.0
2% milk, unflavored	17.0	29.3**	2% milk, unflavored	17.9	19.2	Fruit juice, 100%	18.8	19.2
1% milk, unflavored	7.9	4.3	Whole milk, unflavored	9.3	8.1	Whole milk, unflavored	6.4	7.3
Whole milk, unflavored	7.2	4.9	1% milk, unflavored	9.1	8.2	Cold cereal	5.7	10.6*
1% milk, flavored	4.3	1.6*	Cold cereal	7.1	6.0	Tea and coffee	3.5	1.1
Cold cereal	4.1	8.4**	Skim or nonfat milk, unflavored	3.6	5.9	Breakfast sandwiches	3.3	2.1
2% milk, flavored	3.9	1.7	Banana	2.7	0.6*	1% milk, unflavored	3.0	6.0
Pancakes, waffles, French toast	2.8	2.7	1% milk, flavored	2.6	0.8	Sweet rolls, doughnuts, toaster pastries	2.1	1.8
Banana	2.4	0.7*	Juice drinks (not 100% juice)	1.5	2.3	Hot cereal	2.0	0.8
Sweet rolls, doughnuts, toaster pastries	2.2	1.6	Pancakes, waffles, French toast	1.2	2.1	Skim or nonfat milk, unflavored	1.4	5.0*
Skim or nonfat milk, unflavored	0.8	2.1	Other milk items	1.0	3.0	Banana	1.0	4.4*

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.25
FOOD SOURCES OF SODIUM CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools			Middle Schools			High Schools		
	Percentage Contribution to Lunch Intake			Percentage Contribution to Lunch Intake			Percentage Contribution to Lunch Intake		
	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)	Participants	Nonparticipants	Food Group/Food(s)
Cold cereal	15.0	24.7*	Cold cereal	23.0	22.9	Cold cereal	15.6	22.0	Cold cereal
Pancakes, waffles, French toast	11.7	14.5	Pancakes, waffles, French toast	6.7	10.8	Pancakes, waffles, French toast	11.0	9.3	Breakfast sandwiches
Sweet rolls, doughnuts, toaster pastries	7.7	5.1	Sweet rolls, doughnuts, toaster pastries	5.6	4.0	Pancakes, waffles, French toast	7.4	3.3	Pancakes, waffles, French toast
2% milk, unflavored	4.9	7.1	Biscuits, croissants, cornbread	5.2	2.7	Sweet rolls, doughnuts, toaster pastries	6.7	5.9	Sweet rolls, doughnuts, toaster pastries
White bread, rolls, bagels	4.7	2.1*	Breakfast sandwiches	5.0	3.2	White bread, rolls, bagels	5.4	4.9	White bread, rolls, bagels
Pizza and pizza products	4.0	0.0*	2% milk, unflavored	5.0	5.0	2% milk, unflavored	5.3	5.0	2% milk, unflavored
Cookies, cakes, brownies	3.9	1.6	Condiments and spreads	4.0	4.7	Mexican-style entrees	4.5	2.8	Mexican-style entrees
Sausages, hot dogs, cold cuts	3.1	1.9	Eggs	4.0	4.6	Biscuits, croissants, cornbread	4.2	4.1	Biscuits, croissants, cornbread
Eggs	3.0	3.2	White bread, rolls, bagels	3.3	4.5	Condiments and spreads	3.3	3.7	Condiments and spreads
Condiments and spreads	2.9	2.0	Muffins, sweet/quick breads	3.0	3.1	Cookies, cakes, brownies	2.8	1.6	Cookies, cakes, brownies
Crackers and pretzels	2.5	9.1	1% milk, unflavored	2.7	2.3	Breaded/fried chicken products	2.6	0.5	Breaded/fried chicken products
1% milk, unflavored	2.4	1.1*	Whole milk, unflavored	2.6	2.2	Other items	2.5	1.9	Other items
Muffins, sweet/quick breads	2.4	2.1	Hot dog/corn dog	2.6	0.0*	Hot cereal	2.1	1.3	Hot cereal
Hot cereal	2.2	1.3	Other items	2.4	0.9	Whole milk, unflavored	1.6	2.1	Whole milk, unflavored
Whole milk, unflavored	2.1	1.2	Pizza and pizza products	2.3	1.5	Sausages, hot dogs, cold cuts	1.6	2.5	Sausages, hot dogs, cold cuts
Mexican-style entrees	1.6	2.3	Sandwiches with plain meat or poultry	2.2	1.2	Eggs	1.3	3.8	Eggs
Biscuits, croissants, cornbread	1.5	3.7	Sausages, hot dogs, cold cuts	1.6	2.8	Whole grain breads and rolls	1.2	2.5	Whole grain breads and rolls
Soups	0.6	3.7				Crackers and pretzels	0.1	2.8	Crackers and pretzels
						Tomatoes	0.0	2.3	Tomatoes

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.
^aIncludes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.
 **Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.26

FOOD SOURCES OF ZINC CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools	
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake	
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants
Cold cereal	42.4	63.9**	57.3	52.3	45.5	53.5
2% milk, unflavored	10.4	11.1	8.5	9.4	11.1	9.2
1% milk, unflavored	4.8	1.6**	4.3	3.9	4.1	3.0
Whole milk, unflavored	4.3	1.8*	4.2	3.9	3.3	1.0
Sweet rolls, doughnuts, toaster pastries	2.6	1.2*	1.7	2.1	3.2	3.6
Pancakes, waffles, French toast	2.5	2.3	1.6	2.7	2.2	1.7
Grain/fruit cereal bars, granola bars	2.3	1.4	1.2	2.0	1.9	2.4
1% milk, flavored	2.2	0.6**	0.7	2.2	1.5	3.0
2% milk, flavored	2.0	0.5			0.7	2.4**
					Skim or nonfat milk, unflavored	
					Sweet rolls, doughnuts, toaster pastries	
					Gran/fruit cereal bars, granola bars	
					1% milk, unflavored	
					Skim or nonfat milk, unflavored	

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

TABLE M.27

FOOD SOURCES OF CHOLESTEROL CONSUMED AT BREAKFAST BY SBP PARTICIPANTS AND NONPARTICIPANTS, BY SCHOOL TYPE

Food Group/Food(s)	Elementary Schools		Middle Schools		High Schools			
	Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake		Percentage Contribution to Lunch Intake			
	Participants	Nonparticipants	Participants	Nonparticipants	Participants	Nonparticipants		
Eggs	31.2	32.9	Eggs	38.0	42.8	Breakfast sandwiches	19.7	18.6
2% milk, unflavored	11.9	20.2	2% milk, unflavored	11.8	10.9	Eggs	17.1	30.6
Pancakes, waffles, French toast	7.6	16.1	Breakfast sandwiches	8.8	7.4	2% milk, unflavored	14.4	12.1
Whole milk, unflavored	6.8	4.5	Whole milk, unflavored	8.1	6.1	Mexican-style entrees	8.7	5.6
Cookies, cakes, brownies	5.7	1.2*	Mexican-style entrees	4.3	2.1	Pancakes, waffles, French toast	7.8	2.8
Condiments and spreads	3.9	2.2	1% milk, unflavored	3.8	2.9	Whole milk, unflavored	5.6	6.4
Sausages, hot dogs, cold cuts	3.7	2.4	Condiments and spreads	3.2	3.7	Breaded/fried chicken products	4.9	0.7
1% milk, unflavored	3.6	1.9	Muffins, sweet/quick breads	3.0	2.8	Condiments and spreads	3.1	3.2
Mexican-style entrees	2.9	2.6	Pancakes, waffles, French toast	2.5	6.3	Cookies, cakes, brownies	3.0	1.5
Unbreaded poultry/meat/fish	2.8	0.0*	Sausages, hot dogs, cold cuts	1.7	3.3	Sausages, hot dogs, cold cuts	2.5	2.9
Sweet rolls, doughnuts, toaster pastries	2.6	4.4				1% milk, unflavored	1.2	2.6
Muffins, sweet/quick breads	2.3	1.7				Sweet rolls, doughnuts, toaster pastries	0.4	2.4
2% milk, flavored	2.2	1.1						
Breakfast sandwiches	0.8	3.0						

Source: School Nutrition Dietary Assessment-III, 24-hour Dietary Recalls, school year 2004-2005. Weighted tabulations of single 24-hour recall prepared by Mathematica Policy Research, Inc. Sample excludes students who did not consume a breakfast. Intakes of both SBP participants and nonparticipants include all foods and beverages consumed at breakfast. For SBP participants, this may include, in addition to foods/beverages obtained as part of the reimbursable breakfast, foods/beverages that were brought from home or obtained in school from non-reimbursable sources.

Notes: Table is limited to foods contributing to at least one percent of the nutrient for participants or nonparticipants. See Appendix Table D.1 for a detailed listing of food items included in each group.

*Includes sandwiches with sausage, egg, cheese, ham, or other types of meat on a biscuit, English muffin, bagel, or croissant.

*Differences between participants and nonparticipants is significantly different from zero at the .05 level.

**Differences between participants and nonparticipants is significantly different from zero at the .01 level.

