### APPENDIX C

**NUTRITION EDUCATION OBSERVATION FORMS** 

#### Individual Session -- Prenatal Visit

### SESSION IDENTIFICATION

Site Code		Obser	ver Code	
Date of Observation	_           Month Day Year	_		
Start Time	_ _ :  _	End Time	_   _   :   _	_ _
Type of Visit	Certification			
Client Risk Status	High			
Risk Factors	Teen (≤ 19 years Old)	2 3 4 5	Complications- Smoking Substance abus Inadequate diet Not Ascertaine	hs
Provider Type  Introduction	Registered Dietitian	2 3		
ALTIKODOCTION				

	Yes	No
Counselor introduces self (name; not just "title")		
Counselor has a name tag for identification		!
Counselor provides general overview of session		

Individual Session -- Prenatal Visit (continued)

### ASSESSMENT DATA

	Obtained by WIC Staff	Self-report	Medical Record	Not Obtained	Not Applicable
24-hour recall					
Food frequency					
Current weight					
Prepregnancy weight					
Height					
Food likes/dislikes					
Allergies/intolerances					

### TOPICS COVERED

	Assessed	Discussed	Written Material	Video	Not Covered
DIET AND PREGNANCY	·				
Foods/nutrients low in participant's diet					
Recommended weight gain (total lbs. and/or lbs. per week or trimester)					
Participant's relative rate of weight gain					
Managing common problems of pregnancy (N&V, heartburn, constipation)					
Importance of adequate iron intake for prevention of anemia			·		
Effects of smoking					
Effects of alcohol and drugs					
Effects of caffeine					
Importance of regular prenatal care					
Prenatal vitamin and mineral supplement recommendations					
Importance of consulting doctor prior to taking over-the- counter or prescription drugs					
Other (specify):				, , , ,	

Individual Session -- Prenatal Visit (continued)

	Assessed	Discussed	Written Material	Video	Not Covered
BREASTFEEDING					
Infant feeding preference					1
Benefits of breastfeeding					
Management of common breastfeeding problems (e.g. sore nipples, engorgement, milk supply)					
Breastfeeding techniques/positions					
Breastfeeding in the hospital					
Breastfeeding support services/programs (e.g. La Leche League)					
Breast pumps					
Combining breastfeeding and bottle feeding					
Returning to work or school while breastfeeding					
Infant growth spurts and increased breastfeeding demand					
Nipple confusion					
Importance of ample fluids					
Effects of alcohol and other drugs on breastfed infant					
Importance of consulting doctor before taking any over- the-counter or prescription drugs				:	
AIDS/HIV and contraindication for breastfeeding		į			
Other (specify):					

BREASTFEEDING PROMOTION	Yes	No	N/A
Counselor advocates breastfeeding			
Counselor remains supportive and non-judgmental if participant indicates preference for bottlefeeding			
Counselor investigates participant's beliefs about potential barriers to breastfeeding			
Counselor investigates family/friends support of breastfeeding			
Counselor addresses participant's concerns about breastfeeding in a supportive manner			

Individual Session -- Prenatal Visit (continued)

WIC PROGRAM/FOODS	Assessed	Discussed	Written Material	Video	Not Covered
Logistics of WIC voucher issuance and use					
Identification of WIC foods					 
Supplemental nature of WIC food package					
Rationale for WIC foods (major nutrients)					
Other (specify):	_				
:	_				

SPECIFIC RECOMMENDATIONS:		
1.	4	
2.	5	
3.	6	

### Individual Session -- Prenatal Visit (continued)

### EDUCATIONAL AIDS/MATERIALS

	Yes	No
Bulletin boards, flipcharts, posters		
Food packages		·
Food demonstrations and/or tasting		
Videos		
Other (specify:)		

	No. Reviewed During Session	No. Provided to Take Home
Books		
Brochures, pamphlets, handouts		
Recipes		
Other written material (specify:)		

Participant was provided with written materials in appropriate language:

F	\II												1
N	Aos	st											2
S	on	ıe				٠							3
ì	Non	e											4
N	I/A				_								5

### Individual Session -- Prenatal Visit (continued)

VIDEOS (ONLY)			
Title/Topic			
Start Time  _ _ :    End Time  _ _	_1:1_1_1		
Participant was attentive to video:	,		
Consistently       1         Sometimes       2         Rarely       3         Never       4			
Discussion of video was provided:			
Yes			
ENVIRONMENT		٠	
Number of children present			
	Yes	No	N/A
Space is private enough so that others cannot easily overhear conversation			
Temperature is comfortable: not too warm or too cold			
Noise level is low enough that participants can converse easily without straining	g or		

distraction

Toys or other activities are available for children

Session is interrupted more than once by children

Session is interrupted more than once by telephone or other clinic staff

### Individual Session -- Prenatal Visit (continued)

### REFERRALS

	Yes	No
AFDC		
AIDS testing, counseling, treatment		
Alcohol or drug cessation program		
Day care/child care		
Dentist		
EFNEP		
English as a second language or the GED		
Family counseling and crisis intervention		
Family planning/Planned Parenthood		
Food pantry/food bank		
Food Stamps		
Head Start or other child development program		
Housing assistance		
Immunizations		
Job training		
La Leche League or other breastfeeding support program		
Lamaze or other childbirth class		
Legal aid		
Medicaid		
Medical doctor for routine medical care		
Nutrition counseling (outside of WIC)		
Prenatal care		
Smoking cessation program		
Well baby clinic/child health care		
Other (specify):		

## NUTRITION EDUCATION OBSERVATION CHECKLIST Individual Session -- Prenatal Visit (continued)

### STAFF/PARTICIPANT INTERACTION

	Yes	No	N/A
Counselor provides positive feedback about current dietary intake			
Counselor discusses all risk factors			
Counselor investigates potential barriers to recommended behaviors			<u> </u>
Counselor investigates participant's willingness to make behavior changes			<u> </u>
Counselor investigates participant's understanding of a majority of key concepts		-	
Counselor works cooperatively with participant to negotiate goals for behavior change/improvement			
Counselor offers specific and appropriate ideas on how to implement most or all recommended behaviors			
Counselor provides opportunity for questions			
Participant asks questions or initiates line of discussion more than two times		ļ +	
Counselor addresses participant's questions or concerns in a supportive manner			
Counselor maintains a non-judgmental attitude at all times			
Only if Followup Visit: Counselor elicits information about specific behaviors with reference to goals identified in previous session			

#### COMMENTS:

### Group Session or Class -- Prenatal Visit

### SESSION IDENTIFICATION

Site Code		Observer Code		
Date of Observation	_          Month Day Year	_1		
Start Time	_ _ :	End time  _ _ :		
Type of Visit	Certification			
Group Risk Status	High	2		
Provider Type	Registered Dietitian	2 3		
Attendance Expected attendance: Actual attendance:	_ _   _ _	Topic/Class Name:		· .
Introduction				
Group leader introdu	uces self (name; not just "title")		Yes	No
Group leader has a r	name tag for identification			
Group leader provide	es general overview of session	•		

Group Session -- Prenatal Visit (continued)

### TOPICS COVERED

	Assessed	Discussed	Written Material	Video	Not Covered
DIET AND PREGNANCY					
Recommended diet for pregnancy (general)					
Recommended weight gain (total lbs. and/or lbs. per week or trimester)					
Managing common problems of pregnancy (N&V, heartburn, constipation)					
Importance of adequate iron intake for prevention of anemia					
Effects of smoking					
Effects of alcohol and drugs					
Effects of caffeine					
Importance of regular prenatal care					
Prenatal vitamin and mineral supplement recommendations					
Importance of consulting doctor prior to taking over- the-counter or prescription drugs					
Other (specify):					

## Group Session -- Prenatal Visit (continued)

	Assessed	Discussed	Written Material	Video	Not Covered
BREASTFEEDING					
Infant feeding preference					
Benefits of breastfeeding					! 
Management of common breastfeeding problems (e.g. sore nipples, engorgement, milk supply)					
Breastfeeding techniques/positions					
Breastfeeding in the hospital					
Breastfeeding support services/programs (e.g. La Leche League)				ļ	
Breast pumps					
Combining breastfeeding and bottle feeding					
Returning to work or school while breastfeeding				i	
Infant growth spurts and increased breastfeeding demand					
Nipple confusion					
Importance of ample fluids					
Effects of alcohol and other drugs on breastfed infant					
Importance of consulting doctor before taking any over- the-counter or prescription drugs					-
AIDS/HIV and contraindication for breastfeeding					
Other (specify):				:	

BREASTFEEDING PROMOTION	Yes	No	N/A
Group leader advocates breastfeeding			
Group leader remains supportive and non-judgmental if participant(s) indicate preference for bottlefeeding			
Group leader investigates participants' beliefs about potential barriers to breastfeeding			
Group leader investigates family/friends support of breastfeeding			
Group leader addresses participants' questions or concerns about breastfeeding in a supportive manner			

## Group Session -- Prenatal Visit (continued)

WIC PROGRAM/FOODS	Assessed	Discussed	Written Material	Video	Not Covered
Logistics of WIC voucher issuance and use					
Identification of WIC foods					
Supplemental nature of WIC food package					
Rationale for WIC foods (major nutrients)					
Other (specify):					

SPECIFIC RECOMMENDATIONS:	
1	4
2	5
3	6

### EDUCATIONAL AIDS/MATERIALS

Recipes

Other written material (specify:)

		Yes	No
Bulletin boards, flipcharts, posters			
Food demonstrations and/or tasting			
Food packages			
Videos		:	
Other (specify;)			
	No. Reviewed During Session		rovided to ce Home
Books			
Brochures, pamphlets, handouts			

All	session	participants	could	speak	and	understand	English:
			Yes				1
			No				2

Participants were provided with written materials in appropriate language:

All									1
Most .									2
Some									3
None									4
N/A									5

Unable to ascertain . . . . . . . 3

VIDEOS (ONLY) Title/Topic	•	· · · · · · · · · · · · · · · · · · ·	_
Start Time	_ _ : _	End time	_ _ : _ _
In general, partic	cipants were attentive to video:		
	Consistently       1         Sometimes       2         Rarely       3         Never       4		
Discussion of vi	deo was provided:		
	Yes		
ENVIRONMENT			

Number of children present |\_|

	Yes	No	N/A
Space is private enough so that others cannot easily overhear conversation			
Temperature is comfortable: not too warm or too cold			
Noise level is low enough that participants can converse easily without straining or distraction			
Toys or other activities are available for children			
Session is interrupted more than once by children			
Session is interrupted more than once by telephone or other clinic staff			

### REFERRALS

	Yes	No
AFDC		
AIDS testing, counseling, treatment		
Alcohol or drug cessation program		
Day care/child care		
Dentist		
EFNEP		
English as a second language or the GED		
Family counseling and crisis intervention		
Family planning/Planned Parenthood		
Food pantry/food bank		
Food Stamps		
Head Start or other child development program		
Housing assistance		
Immunizations		
Job training		
La Leche League or other breastfeeding support program		
Lamaze or other childbirth class		
Legal aid		
Medicaid		
Medical doctor for routine medical care		
Nutrition counseling (outside of WIC)		
Prenatal care		
Smoking cessation program		
Well baby clinic/child health care		
Other (specify):		

Group Session -- Prenatal Visit (continued)

### STAFF/PARTICIPANT INTERACTION

	Yes	No	N/A
Group leader investigates potential barriers to recommended behaviors			
Group leader investigates participants' willingness to make behavior changes			
Group leader investigates participants' understanding of a majority of key concepts			<u> </u>
Group leader offers specific and appropriate ideas on how to implement most or all recommended behaviors			
Group leader provides opportunity for questions			
Participants ask questions or initiate line of discussion more than two times			
Group leader maintains a non-judgmental attitude at all times			
Group leader addresses questions or concerns raised by participants in a supportive manner			
One or more interactive activities are used			
Only if Followup Visit: Group leader elicits information about specific behaviors with reference to goals identified in previous session			:

### **COMMENTS:**

### Individual Session -- Postpartum Visit

### Session Identification

Site Code		Observer Code
Date of Observation	_        Month Day Year	
Start Time	_ :    End Ti	me  _ _ :
Type of Visit	(Re-) Certification - Mom only 1 Certification - Infant 2 Certification - Combination 3	Followup - Mom only
Client Risk Status	High	
Risk Factors	MomOverweight1Underweight2Low Hgb./Hct.3Teen ( $\leq$ 19 years old)4Complications-past preg5Smoking6Substance abuse7Not Ascertained8Breastfeeding9Other (Specify)	Infant Low weight/length.  Low length/age.  Low weight/age.  Not Ascertained.  Breastfeeding.  Other (Specify)
Provider Type	Registered Dietitian	

### Individual Session -- Postpartum Visit (continued)

### INTRODUCTION

	Yes	No
Counselor introduces self (name; not just "title")		
Counselor has a name tag for identification		
Counselor provides general overview of session		

### ASSESSMENT DATA

MOTHER	Obtained by WIC Staff	Self- report	Medical Record	Not Obtained	Not Applicable
24-hour recall					
Food frequency					
Current weight					
Prepregnancy weight					
Weight at delivery					
Height					
Food likes/dislikes					
Allergies/intolerances					

INFANT	Obtained by WIC Staff	Self- report	Medical Record	Not Obtained	Not Applicable
24-hour recall					
Food frequency					
Birthweight					
Birth length	,				
Current weight					
Current length					
Food likes/dislikes					
Allergies/intolerances					

### Individual Session -- Postpartum Visit (continued)

### TOPICS COVERED

BREASTFEEDING	Assessed	Discussed	Written Material	Video	Not Covered
Benefits of breastfeeding					
Management of common breastfeeding problems (e.g. sore nipples, engorgement, milk supply)					
Breastfeeding techniques/positions					
Breastfeeding support services/programs (e.g. La Leche League)					
Breast pumps					
Combining breastfeeding and bottle feeding					
Returning to work or school while breastfeeding					
Infant growth spurts and increased breastfeeding demand					
Nipple confusion			·		
Importance of ample fluids					
Effects of alcohol and other drugs on breastfed infant	1				
Importance of consulting doctor before taking any over- the-counter or prescription drugs					
Effects of smoking on infant					
Effects of caffeine on infant					
AIDS/HIV and contraindication for breastfeeding					
Other (specify):					i i

BREASTFEEDING PROMOTION	Yes	No	N/A
Counselor advocates breastfeeding			
Counselor remains supportive and non-judgmental if participant indicates desire to switch to breastfeeding			
Counselor investigates participant's beliefs about potential barriers to breastfeeding		-	
Counselor investigates family/friends support of breastfeeding			
Counselor addresses participant's concerns about breastfeeding in a supportive manner			

TOPICS COVERED

### Individual Session -- Postpartum Visit (continued)

MOTHER	Assessed	Discussed	Written Material	Video	Not Covered
Recommended healthy diet (general)				•	
Foods/nutrients low in participant's diet					
Participant's current weight relative to IBW standards					
Weight loss/weight control plan					
Need for iron supplementation for at least 2 months postpartum					
Smoking/effect of second hand smoking on baby					
Importance of postpartum check up with doctor					
Other (specify):					
INFANT	Assessed	Discussed	Written Material	Video	Not Covered
Infant feeding practices					
Infant's rate of growth		,		· 	
Formula preparation and storage					
Infant bottle syndrome					
Infant/toddler growth and development					
Introduction of solid foods - timing and pattern	,				
Introduction of cup					
Iron fortified formula - rationale and importance					
Other (specify):					
WIC PROGRAM/FOODS	Assessed	Discussed	Written Material	Video	Not Covered
Logistics of voucher issuance and use					
Identification of WIC foods					
Supplemental nature of WIC food package					
Rationale for WIC foods (major nutrients)					
Other (specify):					

SPECIFIC RECOMMENDATIONS

### Individual Session -- Postpartum Visit (continued)

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· 6		
Educational Aids/Materials		
	Yes	No
Bulletin boards, flipcharts, posters		
Food packages		
Food demonstrations and/or tasting		
Videos		
Other (specify):		
	No. Reviewe	No.
	No. Reviewe During	d Provided to Take
		d Provided
Books	During	d Provided to Take
Books Brochures, pamphlets, handouts	During	d Provided to Take
	During	d Provided to Take
Brochures, pamphlets, handouts Recipes	During Session	d Provided to Take

### Individual Session -- Postpartum Visit (continued)

VIDEOS (ONLY)				
Title/Topic				
Start Time  _ _ :	End Time   _ :	111		
Participant was attentive to video:	Consistently       1         Sometimes       2         Rarely       3         Never       4			
Discussion of video was provided:	Yes			
ENVIRONMENT  Number of infants present	Number of children present			
		Yes	No	N/A
Space is private enough so that other	rs cannot easily overhear conversation			
Temperature is comfortable: not too	warm or too cold			
Noise level is low enough that partidistraction	cipants can converse easily without straining	or		

Toys or other activities are available for children

Session is interrupted more than once by children

Session is interrupted more than once by telephone or other clinic staff

### Individual Session -- Postpartum Visit (continued)

### REFERRALS

	Yes	No
AFDC		
AIDS testing, counseling, treatment		
Alcohol or drug cessation program		
Day care/child care		
Dentist		
EFNEP		
English as a second language or the GED		
Family counseling and crisis intervention		
Family planning/Planned Parenthood		
Food pantry/food bank		
Food Stamps		
Head Start or other child development program		
Housing assistance		
Immunizations		
Job training		
La Leche League or other breastfeeding support program		
Legal aid		
Medicaid		
Medical doctor for routine medical care		
Nutrition counseling (outside of WIC)		
Smoking cessation program		
Well baby clinic/child health care		
Other (specify):		

### Individual Session -- Postpartum Visit (continued)

### STAFF/PARTICIPANT INTERACTION

	Yes	No	N/A
Counselor provides positive feedback about current dietary intake			
Counselor provides positive feedback about current infant feeding practices			
Counselor discusses all risk factors			
Counselor investigates potential barriers to recommended behaviors			
Counselor investigates participant's willingness to make behavior changes			
Counselor investigates participant's understanding of a majority of key concepts			
Counselor works cooperatively with participant to negotiate goals for behavior change/improvement			
Counselor offers specific and appropriate ideas on how to implement most or all recommended behaviors			
Counselor provides opportunity for questions			
Participant asks questions or initiates line of discussion more than two times			
Counselor addresses questions or concerns raised by participant in a supportive manner			
Counselor maintains a non-judgmental attitude at all times			
Only if Followup Visit: Counselor elicits information about specific behaviors with reference to goals identified in previous session			

#### **COMMENTS:**

### Group Session or Class -- Postpartum Visit

### SESSION IDENTIFICATION

Site Code		Observer Code		
Date of Observation	Month Day Yea	_     ar		
Start Time	_ _ : _	End time	_1:1_1_1	
Type of Visit	(Re-) Certification - Mom Certification - Infant Certification - Combination Followup - Mom only Followup - Infant only Followup - Combination .			
Group Risk Status	High	2		
Provider Type	Registered Dietitian  Nutritionist (not RD)  Paraprofessional  Other (Specify)			
Attendance Expected attendance: Actual attendance: INTRODUCTION	_ _   _ _	Topic/Class N	Name:	
			Yes	No
Group leader introduce	es self (name; not just "title")		,	
Group leader has a nar	ne tag for identification			
Group leader provides	general overview of session			

## Group Session -- Postpartum Visit (continued)

### TOPICS COVERED

BREASTFEEDING	Assessed	Discussed	Written Material	Video	Not Covered
Benefits of breastfeeding					
Management of common breastfeeding problems (e.g. sore nipples, engorgement, milk supply)					
Breastfeeding techniques/positions					
Breastfeeding support services/programs (e.g. La Leche League)					
Breast pumps					
Combining breastfeeding and bottle feeding					
Returning to work or school while breastfeeding					·
Infant growth spurts and increased breastfeeding demand					
Nipple confusion	-				
Importance of ample fluids		·			
Effects of alcohol and other drugs on breastfed infant					
Importance of consulting doctor before taking any over- the-counter or prescription drugs					
Effects of smoking on infant					
Effects of caffeine on infant			:		
AIDS/HIV and contraindication for breastfeeding			i		· · · · · · · · · · · · · · · · · · ·
Other (specify):			į	!	
	:		1		

BREASTFEEDING PROMOTION	Yes	! No	N/A
Group leader advocates breastfeeding		!	
Group leader remains supportive and non-judgmental if participant indicates desire to switch to breastfeeding			
Group leader investigates participants' beliefs about potential barriers to breastfeeding			
Group leader investigates family/friends support of breastfeeding			
Group leader addresses participants' concerns about breastfeeding in a supportive manner			:

## Group Session -- Postpartum Visit (continued)

MOTHER	Assessed	Discussed	Written Material	Video	Not Covered
Recommended healthy diet (general)					
Weight loss/weight control plan					
Need for iron supplementation for at least 2 months postpartum					
Smoking/effect of second-hand smoke on baby					
Importance of postpartum check up with doctor	·				
Other (specify):					
INFANT ·	Assessed	Discussed	Written Material	Video	Not Covered
Infant feeding practices					
Formula preparation and storage					
Infant bottle syndrome					
Infant/toddler growth and development					
Introduction of solid foods - timing and pattern	;				
Introduction of cup					
Iron fortified formula - rationale and importance	i ,			j	
Other (specify):	:				
WIC PROGRAM/FOODS	Assessed	Discussed	Written Material	Video	Not Covered
Logistics of voucher issuance and use				!	•
Identification of WIC foods					
Supplemental nature of WIC food package		1			
Rationale for WIC foods (major nutrients)					
Other (specify):					

PECIFIC RECOMMENDAT	<u>CIONS</u>			
	4. <u></u>			
	5			
	6			<del></del>
	·			
DUCATIONAL AIDS/MAT	<u>CERIALS</u>			
			Yes	No
Bulletin boards, flipchar	rts, posters			
Food packages				
Food demonstrations an	d/or tasting			
Videos				
Other (specify:)				
		No. Reviewed	No. Pr	ovided to
		During Session	Tak	e Home
Books				
Brochures, pamphlets, l	nandouts			
Recipes				
Other written material	(specify:)			
		A		
		•		
All session participants co	ould speak and understand English:			
	Yes			
	Unable to ascertain			
•				
Participants were provide	d with written materials in appropriate language:			
management was provide	All 1			
	Most		÷	
	Some			
	Not Applicable			

VIDEOS (ONLY				
Title/Topic				
Start Time	_ _ : _  End time  _ : _	_11		
In general, par	ticipants were attentive to video:			
	Consistently       1         Sometimes       2         Rarely       3         Never       4			
Discussion of	video was provided:			·
	Yes			
ENVIRONMEN	<u>.</u>			
Number of inf	ants present  _  Number of children present  _			
		Yes	No	N/A
Space is priv	vate enough so that others cannot easily overhear conversation	t l		
Temperature	is comfortable: not too warm or too cold			
Noise level distraction	is low enough that participants can converse easily without straining or			
Toys or other	er activities are available for children			
Session is in	nterrupted more than once by children			
Session is in	nterrupted more than once by telephone or other clinic staff			

### REFERRALS

	Yes	No
AFDC		
AIDS testing, counseling, treatment		
Alcohol or drug cessation program		
Day care/child care		
Dentist		
EFNEP	,	
English as a second language or the GED		
Family counseling and crisis intervention		
Family planning/Planned Parenthood		
Food pantry/food bank		
Food Stamps		
Head Start or other child development program		
Housing assistance		
Immunizations		
Job training		
La Leche League or other breastfeeding support program		
Legal aid		
Medicaid		
Medical doctor for routine medical care		
Nutrition counseling (outside of WIC)		
Smoking cessation program		
Well baby clinic/child health care		
Other (specify):		

### STAFF/PARTICIPANT INTERACTION

	Yes	No	N/A
Group leader investigates potential barriers to recommended behaviors			
Group leader investigates participants' willingness to make behavior changes			
Group leader investigates participants' understanding of a majority of key concepts			
Group leader offers specific and appropriate ideas on how to implement most or all recommended behavior changes			
Group leader provides opportunity for questions			
Participants ask questions or initiate line of discussion more than two times			
Group leader maintains a non-judgmental attitude at all times			
Group leader addresses questions or concerns raised by participants in a supportive manner			
One or more interactive activities are used			
Only if Followup Visit: Group leader elicits information about specific behaviors with reference to goals identified in previous session			

### **COMMENTS:**

### APPENDIX D

SUPPLEMENTARY EXHIBITS

Exhibit D.1
Reasons for Non-Response: Prenatal Survey

SOUTHEAST	Sit	e 1	Site 2	
	Percent of Baseline Sample	Percent of Prenatal Non-responders	Percent of Baseline Sample	Percent of Prenatal Non-responders
Ineligible for prenatal survey				
Early delivery <sup>1</sup>	9%	45%	12%	65%
Terminated pregnancy <sup>2</sup>	4	21	4	24
Other <sup>3</sup>	0	1	0	1
Not interviewed				
Uniocatable <sup>4</sup>	5	28	1	3
Refusal	0	0	1	3
Moved out of area	1	5	1	4
MOUNTAIN PLAINS	Site	e 1	Site	e 2
	Percent of Baseline Sample	Percent of Prenatal Non-responders	Percent of Baseline Sample	Percent of Prenatal Non-responders
Ineligible for prenatal survey				- Tron roopenders
Early delivery <sup>1</sup>	4%	24%	6%	30%
Terminated pregnancy <sup>2</sup>	5	31	8	37
Other <sup>3</sup>	0	1	1	5
Not interviewed			·	Ü
Unlocatable <sup>4</sup>	5	28	2	8
Refusal	2	9	2	10
Moved out of area	1	6	2	11
MIDWEST	Site	1	Site 2	
	Percent of Baseline Sample	Percent of Prenatal Non-responders	Percent of Baseline Sample	Percent of Prenatal Non-responders
Ineligible for prenatal survey				
Early delivery <sup>1</sup>	13%	47%	8%	37%
Terminated pregnancy <sup>2</sup>	6	21	8	37
Other <sup>3</sup>	0	1	1	3
Not interviewed			·	<u> </u>
Unlocatable <sup>4</sup>	6	20	2	9
Refusal	2	5	0	1
Moved out of area	2	6	3	12

<sup>&</sup>lt;sup>1</sup>Delivered before Prenatal survey was attempted (generally between 32 and 36 weeks gestation).

<sup>&</sup>lt;sup>2</sup>Includes both miscarriages and abortions. (In the two Mountain Plains sites, as well as in the Site 1 Midwest site, terminated pregnancies may include some women who were not actually pregnant at the time of WIC certification. Mountain Plains does not require proof of pregnancy and the Midwest site allows women to participate up to 90 days without proof of pregnancy.

<sup>&</sup>lt;sup>3</sup>Includes: infant given up for adoption or placed in foster care, infant death, respondent death, and woman not certified for WIC.

<sup>&</sup>lt;sup>4</sup>Respondent could not be located for prenatal survey but there was no evidence that respondent had moved out of the area. These respondents were retained in the postpartum survey sample.

Exhibit D.2

Reasons for Non-Response: Postpartum Survey

SOUTHEAST	Site	1	Site 2	
	Percent of Baseline Sample	Percent of Postpartum Non-responders	Percent of Baseline Sample	Percent of Postpartum Non-responders
Ineligible for postpartum survey				
Terminated pregnancy	4%	17%	5%	36%
Other <sup>1</sup>	3	13	1	7
Not interviewed				
Moved out of area	5	18	2	11
Unlocatable	12	49	5	38
Refusal	1	2	1	9
MOUNTAIN PLAINS	Site	e 1	Site	e 2
4	Percent of Baseline Sample	Percent of Postpartum Non-responders	Percent of Baseline Sample	Percent of Postpartum Non-responders
Ineligible for postpartum survey				
Terminated pregnancy	5%	23%	8%	27%
Other <sup>1</sup>	2	8	6	7
Not interviewed				
Moved out of area	2	7	5	17
Unlocatable	12	53	5	20
Refusal	2	9	8	28
MIDWEST	Sit	e 1	Site 2	
	Percent of Baseline Sample	Percent of Postpartum Non-responders	Percent of Baseline Sample	Percent of Postpartum Non-responders
Ineligible for postpartum survey				
Terminated pregnancy	6%	21%	9%	46%
Other <sup>1</sup>	6	4	4	3
Not interviewed				
Moved out of area	5	17	3	15
Unlocatable	14	50	5	23
Refusal	2	8	3	13

<sup>&</sup>lt;sup>1</sup>Includes: infant given up for adoption or placed in foster care, infant death, respondent death, and woman not certified for WIC.

Exhibit D.3

Characteristics of Baseline Sample and Analytic Samples (Mean Values)

			Analytic Samples			
	Baseline Sample	Baseline Survey, Prenatal Survey, and Abstract	Baseline Survey, Postpartum Survey, and Abstract	All Surveys		
Age						
Under 18	0.1	0.1	0.1	0.1		
Over 35	0.1	0.1	0.1	0.1		
Race						
Black	0.2	0.2	0.2	0.2		
Hispanic	0.3	0.3	0.3	0.3		
Other	0.1	0.0	0.0	0.0		
Marital Status						
Currently married	0.4	0.4	0.4	0.4		
Previously married	0.1	0.1	0.1	0.1		
Employment Status						
Employed	0.3	0.3	0.3	0.3		
Employed full-time	0.1	0.1	0.1	0.1		
Education						
Less than 12th grade	0.4	0.4	0.4	0.4		
Some college	0.3	0.3	0.3	0.3		
Currently in school	0.2	0.2	0.2	0.2		
Household Characteristics						
No children	0.4	0.4	0.4	0.4		
More than one child	0.3	0.3	0.3	0.3		
Other adult	0.8	0.9	0.9	0.9		
Receipt of AFDC and Food Stamp Benefits						
Any AFDC	0.2	0.2	0.2	0.2		
Any Food Stamps	0.4	0.4	0.3	0.3		

Exhibit D.3 (continued)

		Analytic Samples			
	Baseline Sample	Baseline Survey, Prenatal Survey, and Abstract	Baseline Survey, Postpartum Survey, and Abstract	All Surveys	
Household Income					
Less than 50 percent of poverty	0.4	0.4	0.4	0.4	
Greater than 130 percent of poverty	0.2	0.2	0.2	0.2	
Pregnancy History					
Previous pregnancy	0.6	0.6	0.6	0.6	
First trimester enrollee	0.4	0.4	0.4	0.4	
Third trimester enrollee	0.1	0.1	0.1	0.1	
No prenatal care	0.2	0.2	0.2	0.2	
Previous WIC Experience					
Yes	0.4	0.4	0.4	0.4	

Note: All values in exhibit represent means of dichotomous variables with, unless otherwise specified, values of zero for no and one for yes.

Exhibit D.4

Topics Covered in Observed Prenatal Nutrition Education Contacts: Southeast Sites

	SOUTHEAST				
	Site	<u> </u>	Site	2	
	Number	Covered			
Topic	Certifications (n = 8)	Follow-ups <sup>1</sup> (n = 5)	Certifications (n = 8)	Follow-ups (n = 7)	
WIC foods					
How to use WIC vouchers	8	1	7	0	
Foods you can get with WIC vouchers	8	1	8	0	
Supplemental nature of WIC food package					
Rationale for WIC foods (major nutrients)	8	1	8	3	
Prenatal Issues					
Types and amounts of food to eat while pregnant	7	6	8	7	
Importance of prenatal care	1	3	0	4	
Recommended weight gain	7	4	8	7	
Participant's relative rate of weight gain	6	6	1	4	
Dealing with complications of pregnancy	5	4	1	3	
Need to consuit physician before taking over-the-counter medications	4	2	4	1	
Effects of alcohol and drugs	2	2	8	6	
Effects of smoking	3	2	8	6	
Effects of caffeine	1	4	6	6	
mportance of prenatal vitamin and mineral supplements	7	5	8	6	
ron: intake, food sources, absorption	7	5	8	6	
Other issues <sup>2</sup>	0	0	0	5	

	SOUTHEAST				
-	Site	e 1	Site	2	
_	Number of Contacts in Which Topic Was Covered				
Торіс	Certifications (n = 8)	Follow-ups <sup>1</sup> (n = 5)	Certifications (n = 8)	Follow-ups (n = 7)	
Breastfeeding					
Benefits of breastfeeding	7	1	7	0	
Importance of adequate fluids while breastfeeding	1	0	0	0	
Dealing with common breastfeedin breastfeeding problems	1	0	5	0	
Breastfeeding supports services <sup>4</sup>	1	0	7	1	
Breastfeeding techniques/positions	6	0	Ο	0	
Combining breastfeeding and bottle feeding <sup>3</sup>	7	0	7	0	
Infant growth spurts and increased breastfeeding demand	1	0	0	Ο	
Effects of alcohol, smoking, and other drugs on breastfed infant	0	Ο	1	0	
Need to consult physician before taking over-the-counter medications	0	0	0	0	
Infant feeding preference	5	1	7	. 1	
Breastfeeding in the hospital	5	0	1	0	
Other issues <sup>5</sup>	0	0	1	0	

<sup>&</sup>lt;sup>1</sup>Includes high-risk participants only. Low-risk participants receive newsletter in conjunction with voucher pick-up.

<sup>&</sup>lt;sup>2</sup>Includes controlling appetite, dealing with allergies, increasing fluids, exercise, posture, and sodium intake.

<sup>&</sup>lt;sup>3</sup>Includes returning to work/school, breast pumps, and nipple confusion

<sup>&</sup>lt;sup>4</sup>Includes peer counseling, breastfeeding classes, lactation consultants, La Leche League, and other breastfeeding support services.

<sup>&</sup>lt;sup>5</sup>Includes AIDS/HIV and contraindications for breastfeeding.

Exhibit D.5

Topics Covered in Prenatal Nutrition Education Contacts: Mountain Plains

	MOUNTAIN PLAINS					
	Site	1	Site	2		
	Number of Contacts in Which Topic Was Covered					
Торіс	Certifications (n = 8)	Follow-ups (n = 7)	Certifications (n = 8)	Follow-ups (n = 7)		
WIC foods						
How to use WIC vouchers	8	7	7	2		
Foods you can get with WIC vouchers	8	7	8	1		
Supplemental nature of WIC food package	7	0	7	0		
Rationale for WIC foods (major nutrients)	8	0	4	0		
Prenatal issues						
Types and amounts of food to eat while pregnant	8	2	8	2		
Importance of prenatal care	8	4	6	3		
Recommended weight gain	8	3	8	4		
Participant's relative rate of weight gain	0	5	8	7		
Dealing with complications of pregnancy	8	2	8	1		
Need to consult physician before taking over-the-counter medications	8	0	4	0		
Effects of alcohol and drugs	8	4	8	0		
Effects of smoking	8	5	8	2		
Effects of caffeine	8	0	8	0		
Importance of prenatal vitamin and mineral supplements	8	1	8	5		
Iron: intake, food sources, absorption	8	0	3	0		
Other issues <sup>1</sup>	0	0	0	1		

Exhibit D.5 (continued)

	MOUNTAIN PLAINS				
	Site	1	Site	2	
	Number o	of Contacts in V	Which Topic Was Covered		
Topic	Certifications (n = 8)	Follow-ups (n = 7)	Certifications (n = 8)	Follow-ups (n = 7)	
Breastfeeding					
Benefits of breastfeeding	8	0	8	3	
Importance of adequate fluids while breastfeeding	3	0	2	1	
Dealing with common breastfeeding problems	6	0	5	5	
Breastfeeding supports services <sup>2</sup>	3	0	2	3	
Breastfeeding techniques/positions	4	0	3	4	
Combining breastfeeding and bottle feeding <sup>3</sup>	4	0	6	6	
Infant growth spurts and increased breastfeeding demand	0	0	2	2	
Effects of alcohol, smoking, and other drugs on breastfed infant	2	0	6	1	
Need to consult physician before taking over-the-counter medications	0	0 .	3	1	
Infant feeding preference	8	4	8	6	
Breastfeeding in the hospital	0	0	0	3	
Other issues <sup>4</sup>	00	0	0	0	

<sup>&</sup>lt;sup>1</sup>Includes controlling appetite, dealing with allergies, increasing fluids, exercise, posture, and sodium intake.

<sup>&</sup>lt;sup>2</sup>Includes peer counseling, breastfeeding classes, lactation consultants, La Leche League, and other breastfeeding support services.

<sup>&</sup>lt;sup>3</sup>Includes returning to work/school, breast pumps, and nipple confusion.

<sup>&</sup>lt;sup>4</sup>Includes AIDS/HIV and contraindications for breastfeeding.

Exhibit D.6

Topics Covered in Prenatal Nutrition Education Contacts: Midwest Sites

	MIDWEST			
	Site 1	Site 2		
	Number of Contacts in Which Topic Was Covered			
Торіс	Certifications (n = 8)	Certifications (n = 12)		
WIC foods				
How to use WIC vouchers	5	12		
Foods you can get with WIC vouchers	5	12		
Supplemental nature of WIC food package	2	0		
Rationale for WIC foods (major nutrients)	1	1		
Prenatal Issues				
Types and amounts of food to eat while pregnant	8	11		
Importance of prenatal care	6	9		
Recommended weight gain	7	11		
Participant's relative rate of weight gain	7	11		
Dealing with complications of pregnancy	8	11		
Need to consult physicain before taking over- the-counter medications	7	4		
Effects of alcohol and drugs	8	10		
Effects of smoking	8	11		
Effects of caffeine	4	8		
Importance of prenatal vitamin and mineral supplements	8	8		
lron: intake, food sources, absorption	8	8		
Other issues <sup>1</sup>	4	0		

	MIDWEST			
	Site 1	Site 2		
	Number of Contacts in Which Topic Was Cov			
Торіс	Certifications (n = 8)	Certifications (n = 12)		
Breastfeeding				
Benefits of breastfeeding	7	9		
Importance of adequate fluids while breastfeeding	1	4		
Dealing with common breastfeeding problems	0	2		
Breastfeeding supports services <sup>2</sup>	0	5		
Breastfeeding techniques/positions	1	5		
Combining breastfeeding and bottle feeding <sup>3</sup>	1	8		
Infant growth spurts and increased breastfeeding demand	0	1		
Effects of alcohol, smoking, and other drugs on breastfed infant	1	0		
Need to consult physician before taking over- the-counter medications	1	1		
Infant feeding preference	7	11		
Breastfeeding in the hospital	2	1		
Other issues <sup>4</sup>	1	0		

Note: Data not reported for follow-up contacts because so few were observed (2 in Site 1 and 3 in Site 2).

<sup>&</sup>lt;sup>1</sup>Includes controlling appetite, dealing with allergies, increasing fluids, exercise, posture, and sodium intake.

<sup>&</sup>lt;sup>2</sup>Includes peer counseling, breastfeeding classes, lactation consultants, La Leche League, and other breastfeeding support services.

<sup>&</sup>lt;sup>3</sup>Includes returning to work/school, breast pumps, and nipple confusion.

<sup>&</sup>lt;sup>4</sup>Includes AIDS/HIV and contraindications for breastfeeding.

Exhibit D.7

Topics Covered in Observed Postpartum Nutrition Education Contacts: Southeast Sites

		SOUTH	EAST			
	Site 1		Site	2		
	Number of Contacts in Which Topic Was Covered					
Торіс	Certifications (n = 7)	Follow-ups (n = 0)	Certifications $(n=7)$	Follow-ups (n = 4)		
WIC foods						
How to use WIC vouchers	3	N/A	3	0		
Foods you can get with WIC vouchers	3	N/A	5	0		
Supplemental nature of WIC food package	3	N/A	3	0		
Rationale for WIC foods (major nutrients)	1	N/A	5	0		
Maternal health and nutrition						
Recommended healthy diet	6	N/A	4	0		
Weight loss/weight control plan		N/A	3	0		
Importance of postpartum check up with doctor	1	N/A	2	0		
Smoking/effect of second-hand smoke on baby	0	N/A	3	O		
Iron intake, absorption, and supplementation	4	N/A	<u>4</u> .	0		
Exercise/posture	Ó	N/A	2	0		
Other issues¹	0	N/A	1	0		
Infant feeding						
mportance of iron-fortified formula	4	N/A	5	4		
ntroducing solid foods	र्य	N/A	5	4		
Avoiding bottle caries <sup>2</sup>	4.	N/A	0	0		

	SOUTHEAST					
	Sit	e 1	Site	2		
•	Number of Contacts in Which Topic Was Covered					
Торіс	Certifications (n = 7)	Follow-ups (n = 0)	Certifications (n = 7)	Follow-ups (n = 4)		
Infant feeding (continued)						
Current infant feeding practices/ recommendations	4	N/A	5	4		
Formula preparation and storage	4	N/A	5	4		
Allergies/food intolerances	0	N/A	4	4		
Infant's rate of growth	4	N/A	5	4		
Infant/toddler growth and development	4	N/A	5	4		
Immunizations/medical care	2	N/A	0	3		
Prevention of lead poisoning	2	N/A	0	0		
Shaken baby syndrome	4	N/A	0	0		
Other issues <sup>3</sup>	0	N/A	0	1		
Breastfeeding						
Benefits of breastfeeding	5	N/A	2	1		
Importance of adequate fluids while breastfeeding	1	N/A	0	0		
Dealing with typical breastfeeding problems	1	N/A	1	0		
Breastfeeding support services <sup>4</sup>	1	N/A	1	0		
Breastfeeding techniques/positions	5	N/A	0	0		
Combining breastfeeding and bottle feeding <sup>5</sup>	2	N/A	1	0		
Infant growth spurts and increased breastfeeding demand	0	N/A	2	1		

## SOUTHEAST Site 1 Site 2 Number of Contacts in Which Topic Was Covered Certifications Follow-ups Certifications Follow-ups Topic (n = 7)(n = 0)(n = 7)(n=4)Breastfeeding (continued) Effects of alcohol, smoking, 0 N/A 2 1 caffeine, and other drugs on breastfed infant Need to consult doctor before N/A 2 taking any over-the-counter medications Other issues<sup>6</sup> 0 N/A 0 0

<sup>&</sup>lt;sup>1</sup>Includes appetite, allergies, increasing fluids, sodium intake, and finishing up prenatal supplements.

<sup>&</sup>lt;sup>2</sup>Includes introduction of cup and appropriate use of bottle.

<sup>&</sup>lt;sup>3</sup>Includes medications, giving water to infants, fluoride sources, holding baby during feedings, making own baby foods, and information on bowel movements and other health risks.

<sup>&</sup>lt;sup>4</sup>Includes peer counseling, breastfeeding classes, Lactation Consultants, La Leche League, and other breastfeeding support services.

<sup>&</sup>lt;sup>5</sup>Includes returning to work/school, breast pumps, and nipple confusion.

<sup>&</sup>lt;sup>6</sup>Includes AIDS/HIV and contraindication of breastfeeding, weaning and nursing an older child.

Exhibit D.8

Topics Covered in Observed Postpartum Nutrition Education Contacts: Mountain Plains Sites

		MOUNTA	IN PLAINS	
-	Site	e 1	Site	2
	Number	of Contacts in V	Vhich Topic Was C	overed
Горіс	Certifications (n = 8)	Follow-ups (n = 7)	Certifications (n = 8)	Follow-ups (n = 7)
WIC foods				
How to use WIC vouchers	8	7	5	2
Foods you can get with WIC vouchers	7	7	7	3
Supplemental nature of WIC food package	0	1	4	1
Rationale for WIC foods (major nutrients)	1	0	3	O
Maternal health and nutrition				
Recommended healthy diet	5	1	7	3
Weight loss/weight control plan	5	1	8	2
mportance of postpartum check up with doctor	2	0	5	1
Smoking/effect of second-hand smoke on baby	5	0	8	1
lron intake, absorption, and supplementation	3	0	7	1
Exercise/posture	0	0	1	0
Other issues <sup>1</sup>	0	0	1	0
nfant feeding				
Importance of iron-fortified formula	1	1	0	2
ntroducing solid foods	5	1	6	3
Avoiding bottle caries <sup>2</sup>	1	1	4	1

		MOUNTA	IN PLAINS	
	Site	e 1	Site	. 2
	Number	of Contacts in V	Which Topic Was C	overed
Торіс	Certifications (n = 8)	Follow-ups (n = 7)	Certifications (n = 8)	Follow-ups (n = 7)
Infant feeding (continued)				
Current infant feeding practices/ recommendations	7	3	6	3
Formula preparation and storage	1	O	ζį	1
Allergies/food intolerances	O	0	0	0
Infant's rate of growth	6	3	6	2
Infant/toddler growth and development	5	3	1	1
Immunizations/medical care	0	0	0	0
Prevention of lead poisoning	0	0	0	0
Shaking baby syndrome	0	0	0	0
Other issues <sup>3</sup>	0	0	1	0
Breastfeeding				
Benefits of breastfeeding	1	0	1	0
Importance of adequate fluids while breastfeeding	0	0	0	0
Dealing with typical breastfeeding problems	0	O	0	0
Breastfeeding support services <sup>4</sup>	0	0	0	0
Breastfeeding techniques/positions	0	0	0	0
Combining breastfeeding and bottle feeding <sup>5</sup>	0	0	0	0
Infant growth spurts and increased breastfeeding demand	0	0	0	0

		MOUNTA	IN PLAINS	
	Site	1	Site	2
	Number	of Contacts in V	Vhich Topic Was C	overed
Topic	Certifications (n = 8)	Follow-ups (n = 7)	Certifications (n = 8)	Follow-ups (n = 7)
Breastfeeding (continued)				
Effects of alcohol, smoking, caffeine, and other drugs on breastfed infant	0	0	2	0
Need to consult doctor before taking any over-the-counter medications	0	0	0	0
Other issues <sup>6</sup>	O	0	O	0

<sup>&</sup>lt;sup>1</sup>Includes appetite, allergies, increasing fluids, sodium intake, and finishing up prenatal supplements.

<sup>&</sup>lt;sup>2</sup>Includes introduction of cup and appropriate use of bottle.

<sup>&</sup>lt;sup>3</sup>Includes medications, giving water to infants, fluoride sources, holding baby during feedings, making own baby foods, and information on bowel movements and other health risks.

<sup>&</sup>lt;sup>4</sup>Includes peer counseling, breastfeeding classes, Lactation Consultants, La Leche League, and other breastfeeding support services.

<sup>&</sup>lt;sup>5</sup>Includes returning to work/school, breast pumps, and nipple confusion.

<sup>&</sup>lt;sup>6</sup>Includes AIDS/HIV and contraindication of breastfeeding, weaning and nursing an older child.

Exhibit D.9

Topics Covered in Postpartum Nutrition Education Contacts: Midwest Sites

	MID	WEST
_	Site 1	Site 2
	Number of Contacts in V	Vhich Topic Was Covered
Торіс	Certifications (n = 6)	Certifications (n = 10)
WIC foods		
How to use WIC vouchers	4	10
Foods you can get with WIC vouchers	2	10
Supplemental nature of WIC food package	0	2
Rationale for WIC foods (major nutrients)	3	1
Maternal health and nutrition		
Recommended healthy diet	6	10
Weight loss/weight control plan	1	4
Importance of postpartum check up with doctor	0	4
Smoking/effect of second-hand smoke on baby	1	3
Iron intake, absorption, and supplementation	4	4
Exercise/posture	0	0
Other issues <sup>1</sup>	0	1
Infant feeding		
Importance of iron-fortified formula	3	6
Introducing solid foods	0	2
Avoiding bottle caries <sup>2</sup>	0	0
Current infant feeding practices/ recommendations	5	6
Formula preparation and storage	1	4
Allergies/food intolerances	1	6
Infant's rate of growth	2	4
Infant/toddler growth and development	0	1

	MIDV	VEST
	Site 1	Site 2
	Number of Contacts in V	hich Topic Was Covered
Topic	Certifications (n = 6)	Certifications (n = 10)
Infant feeding (continued)		
Immunizations/medical care	0	0
Prevention of lead poisoning	0	1
Shaking baby syndrome	0	1
Other issues <sup>3</sup>		
Breastfeeding		
Benefits of breastfeeding	1	O
Importance of adequate fluids while breastfeeding		0
Dealing with typical breastfeeding problems	0	0
Breastfeeding support services <sup>4</sup>	1	O
Breastfeeding techniques/positions	0	0
Combining breastfeeding and bottle feeding <sup>5</sup>	2	0
Infant growth spurts and increased breastfeeding demand	0	0
Effects of alcohol, smoking, caffeine, and other drugs on breastfed infant	0	0
Need to consult doctor before taking any over-the-counter medications	0	0
Other issues <sup>6</sup>	0	0

Data not reported for follow-up contacts because so few were observed (2 in Site 1 and 3 in Site 2). Note:

<sup>&</sup>lt;sup>1</sup>Includes appetite, allergies, increasing fluids, sodium intake, and finishing up prenatal supplements.

<sup>&</sup>lt;sup>2</sup>Includes introduction of cup and appropriate use of bottle.

<sup>&</sup>lt;sup>3</sup>Includes medications, giving water to infants, fluoride sources, holding baby during feedings, making own baby foods, and information on bowel movements and other health risks.

<sup>&</sup>lt;sup>4</sup>Includes peer counseling, breastfeeding classes, Lactation Consultants, La Leche League, and other breastfeeding support services.

<sup>&</sup>lt;sup>5</sup>Includes returning to work/school, breast pumps, and nipple confusion.

<sup>&</sup>lt;sup>6</sup>Includes AIDS/HIV and contraindication of breastfeeding, weaning and nursing an older child.

Exhibit D.10

Participant Reports of Information and Advice Received from WIC Staff: Southeast Sites

		SOUTI	HEAST	
	s	ite 1	s	ite 2
Topic	Prenatal (n = 324)	Postpartum <sup>1</sup> (n = 301)	Prenatal (n = 329)	Postpartum <sup>1</sup> (n = 344)
WIC Foods				
How to use WIC vouchers	91.7%	98.3%	95.4%	96.5%
Foods you can get with WIC vouchers	94.8	98.0	93.9	97.3
Prenatal Issues				
Types and amounts of food to eat while pregnant	94.4	97.4	85.7	96.5
How to get more halite in your diet <sup>2</sup>	88.9	96.0	24.3	46.5
Importance of prenatal care	88.3	N/A	83.9	N/A
Weight gain during pregnancy	89.8	N/A	70.2	N/A
Dealing with complications of pregnancy <sup>3</sup>	76.9	N/A	54.1	N/A
Need to consult physician before taking over-the- counter medications	81.5	N/A	78.7	N/A
Effects of alcohol, smoking, caffeine and other drugs	86.4	N/A	87.8	N/A
Importance of prenatal vitamin and iron pills	87.7	N/A	83.9	N/A
Chewing gums to avoid while pregnant <sup>2</sup>	36.1	N/A	5.5	N/A
Breastfeeding/Infant Feeding				
Benefits of breastfeeding	86.7	N/A	89.4	N/A
Importance of adequate fluids while breastfeeding	72.8	93.7	58.4	83.5
Importance of glucose intake while breastfeeding <sup>2</sup>	56.8	88.8	28.9	61.6
Dealing with typical breastfeeding problems <sup>4</sup>	54.6	87.3	49.5	76.8
Importance of iron-fortified formula	61.4	90.8	71.8	91.1
Introducing solid foods	48.8	88.2	51.7	85.4
Avoiding bottle caries	58.3	91.1	66.9	90.8
Breastfeeding support services	46.0	81.8	83.9	93.0
Other issues	3.4	4.0	1.8	8.4

N/A = Topics included in prenatal survey only.

 $<sup>^{1}\</sup>text{May}$  includes information received any time between certification and four-to-six months postpartum.

<sup>&</sup>lt;sup>2</sup>"Nonsense" item inserted to get some idea of how carefully respondents answered questions.

<sup>&</sup>lt;sup>3</sup>Issues such as nausea, vomiting, heartburn and constipation.

<sup>&</sup>lt;sup>4</sup>Issues such as sore nipples, infants who won't latch on, and planning breastfeeding around normal daily activities.

Exhibit D.11

Participant Reports of Information and Advice Received from WIC Staff: Mountain Plains Sites

		MOUNTAI	N PLAINS	
	s	ite 1	s	ite 2
Topic	Prenatal (n = 333)	Postpartum <sup>1</sup> (n = 310)	Prenatal (n = 237)	Postpartum <sup>1</sup> (n = 218)
WIC Foods				
How to use WIC vouchers	98.8%	99.7%	94.1%	98.0%
Foods you can get with WIC vouchers	99.7	100.0	97.9	100.0
Prenatal Issues				
Types and amounts of food to eat while pregnant	96.1	98.6	96.2	98.8
How to get more halite in your diet <sup>2</sup>	35.4	46.1	24.1	42.6
Importance of prenatal care	86.8	N/A	89.9	N/A
Weight gain during pregnancy	92.5	N/A	92.8	N/A
Dealing with complications of pregnancy <sup>3</sup>	74.8	N/A	66.7	N/A
Need to consult physician before taking over-the-counter medications	79.0	N/A	82.7	N/A
Effects of alcohol, smoking, caffeine and other drugs	88.0	N/A	92.4	N/A
Importance of prenatal vitamin and iron pills	87.1	N/A	85.7	N/A
Chewing gums to avoid while pregnant <sup>2</sup>	9.0	N/A	7.2	N/A
Breastfeeding/Infant Feeding				
Benefits of breastfeeding	94.0	N/A	94.9	N/A
Importance of adequate fluids while breastfeeding	71.5	86.8	74.7	90.0
Importance of glucose intake while breastfeeding <sup>2</sup>	36.0	54.2	40.5	59.4
Dealing with typical breastfeeding problems <sup>4</sup>	51.7	71.6	70.5	84.7
Importance of iron-fortified formula	62.5	81.4	61.2	85.9
Introducing solid foods	39.0	69.3	40.5	77.5
Avoiding bottle caries	61.3	85.7	73.4	90.8
Breastfeeding support services	52.2	71.4	59.1	80.7
Other issues	3.3	11.5	3.4	12.4

N/A = Topics included in prenatal survey only.

<sup>&</sup>lt;sup>1</sup>May includes information received any time between certification and four-to-six months postpartum.

<sup>&</sup>lt;sup>2</sup>"Nonsense" item inserted to get some idea of how carefully respondents answered questions.

<sup>&</sup>lt;sup>3</sup>Issues such as nausea, vomiting, heartburn and constipation.

<sup>&</sup>lt;sup>4</sup>Issues such as sore nipples, infants who won't latch on, and planning breastfeeding around normal daily activities.

Exhibit D.12

Participant Reports of Information and Advice Received from WIC Staff: Midwest Sites

		MIDV	VEST	
	5	Site 1	Si	te 2
Торіс	Prenatal (n = 216)	Postpartum <sup>1</sup> (n = 216)	Prenatal (n = 233)	Postpartum <sup>1</sup> (n = 239)
WIC Foods				
How to use WIC vouchers	92.6%	97.6%	92.7%	96.8%
Foods you can get with WIC vouchers	93.5	97.6	93.6	98.4
Prenatal Issues				
Types and amounts of food to eat while pregnant	88.9	96.4	87.6	97.2
How to get more halite in your diet <sup>2</sup>	23.2	30.2	26.2	42.5
Importance of prenatal care	88.0	N/A	88.0	N/A
Weight gain during pregnancy	69.0	N/A	67.8	N/A
Dealing with complications of pregnancy <sup>3</sup>	58.8	N/A	55.8	N/A
Need to consult physician before taking over-the- counter medications	75.9	N/A	79.4	N/A
Effects of alcohol, smoking, caffeine and other drugs	88.4	N/A	88.4	N/A
Importance of prenatal vitamin and iron pills	83.8	N/A	81.1	N/A
Chewing gums to avoid while pregnant <sup>2</sup>	6.9	N/A	4.3	N/A
Breastfeeding/Infant Feeding				
Benefits of breastfeeding	87.5	N/A	90.1	N/A
Importance of adequate fluids while breastfeeding	60.2	73.8	61.4	78.6
Importance of glucose intake while breastfeeding <sup>4</sup>	35.7	49.6	39.1	61.1
Dealing with typical breastfeeding problems <sup>5</sup>	44.4	59.5	47.6	67.1
Importance of iron-fortified formula	65.7	88.1	47.2	84.5
Introducing solid foods	45.8	72.6	26.2	66.3
Avoiding bottle caries	68.5	89.3	60.1	92.5
Breastfeeding support services	60.7	67.1	77.7	90.1
Other issues	6.5	11.5	3.9	7.1

N/A = Topics included in prenatal survey only.

<sup>&</sup>lt;sup>1</sup>May includes information received any time between certification and four-to-six months postpartum.

<sup>&</sup>lt;sup>2</sup>"Nonsense" item inserted to get some idea of how carefully respondents answered questions.

<sup>&</sup>lt;sup>3</sup>Issues such as nausea, vomiting, heartburn and constipation.

<sup>&</sup>lt;sup>4</sup>Issues such as sore nipples, infants who won't latch on, and planning breastfeeding around normal daily activities.

Participant Reports of Knowledge Gained from WIC Program

	SOUTHEAST	EAST	MOUNTAIN PLAINS	N PLAINS	MIDWEST	EST
Knowledge gained from WIC	Site 1	Site 2	Site 1	Site 2	Site 1	Site 2
Prenatal Survey	(n = 324)	(n = 329)	(n = 333)	(n = 310)	(n = 216)	(n = 216)
Healthy eathing during pregnancy	26.2%	16.1%	30.6%	28.3%	18.5%	%6.6
Breastfeeding	8.3	17.0	10.8	23.2	14.3	12.4
Feeding infants/children	7.7	2.1	3.0	5.5	5.6	5.1
Infant care/health	0.0	0.0	0.0	0.0	0.0	0.0
Healthy practices during pregnancy	2.2	2.4	5.1	0.4	2.8	1.3
Food sources for specific nutrient(s)	0.3	2.4	1.2	0.4	1.4	2.6
How WIC works (vouchers, etc.)	7.5	2.4	1.2	1.3	3.2	2.6
Where to get needed services	0.0	0.0	0.0	0.4	1.9	2.1
Other	0.4	2.1	9.0	3.4	3.2	3.8
Postpartum Survey	(n = 301)	(n = 344)	(n = 237)	(n = 218)	(n = 233)	(n = 239)
Healthy eathing during pregnancy	29.6%	18.0%	31.0%	22.0%	19.4%	14.2%
Breastfeeding	6.3	14.2	10.0	14.7	11.1	13.0
Feeding infants/children	29.6	6.9	10.7	14.7	6.5	12.6
Infant care/health	12.3	1.7	2.9	1.8	6.0	3.3
Healthy practices during pregnancy	0.7	0.9	2.6	1.4	0.0	4.0
Food sources for specific nutrient(s)	0.3	4.1	1.0	1.8	1.9	1.3
How WIG works (vouchers, etc.)	1.0	1.4	1.6	0.5	0.4	1.3
Where to get needed services	0.0	0.0	0.0	0.0	0.5	0.0
Other	1.3	2.3	1.9	2.8	4.2	1.7

Note: Items listed reflect topic areas mentioned by two percent or more of respondents in any site in either prenatal or postpartum surveys.

Exhibit D.14

Participant Suggestions for Nutrition Education Improvement

	SOUTHEAST	-HEAST	MOUNTA	MOUNTAIN PLAINS	MIDWEST	VEST
Suggestion	Site 1	Site 2	Site 1	Site 2	Site 1	Site 2
Prenatal Survey	(n = 324)	(n = 329)	(n = 333)	(n = 310)	(n = 216)	(n = 216)
None	95.7%	%9.06	87.1%	88.2%	88.4%	85.0%
Improve content or delivery	1.9	6.4	7.5	3.0	2.8	1.7
More personal contact	6.0	4.0	2.7	4.6	2.8	1.7
Increase awareness/opportunities	9.0	1.2	1.2	4.0	2.3	3.0
More/different written materials	0.0	0.3	3.0	2.1	2.3	3.4
Other	1.5	3.0	3.0	1.7	1.4	1.3
Postpartum Survey	(n = 301)	(n = 344)	(n = 237)	(n = 218)	(n = 233)	(n = 239)
None	96.7%	88.7%	84.2%	89.0%	86.6%	81.2%
Improve content or delivery	2.0	7.0	9.4	6.0	5.6	5.9
More personal contact	0.0	2.0	1.9	0.0	6.0	2.5
Increase awareness/opportunities	1.0	9.0	1.9	0.0	2.8	1.7
More/different written materials	0.0	9.0	2.9	3.2	4.6	4.6
Other	1.0	4.7	3.5	1.8	0.5	4,6

Note: Percentages may not sum to 100 because respondents could make more than one suggestion.

Exhibit D.15
Satisfaction with WIC Experiences

SOUTHEAST		ite 1	S	ite 2
	Prenatal Survey (n=324)	Postpartum Survey (n=301)	Prenatal Survey (n=329)	Postpartum Survey (n=344)
The staff was beliefed				
The staff was helpful	14.8%	12.6%	26.4%	33.1%
Strongly agree	79.6	84.7	67.5	63.1
Agree	7 3.0	04.7	07.0	00.1
The staff made me wait too long	2.5	0.3	7.0	7.3
Disagree	79.3	84.0	62.0	55.8
Strongly disagree	19.3	04.0	02.0	33.0
l was respected as an individual		7.0	440	19.8
Strongly agree	9.3	7.6	14.9	
Agree	86.7	90.7	78.1	73.2
Things were explained in a way I could understand		0.3	00.7	22.4
Strongly agree	6.2	9.6	20.7	22.4
Agree	86.4	88.4	76.6	75.9
The staff was warm and friendly				10.0
Strongly agree	9.9	7.0	21.3	19.9
Agree	83.3	89.7	69.9	71.5
My questions were answered				
Strongly agree	5.6	6.3	17.9	17.1
Agree	87.7	91.4	79.0	81.1
I felt satisfied when I left the WIC clinic				
Strongly agree	6.8	6.3	19.2	17.1
Agree	86.1	91.0	75.7	75.9
I felt confused when I left the WIC clinic				
Disagree	4.3	1.3	26.4	26.2
Strongly disagree	79.6	91.4	69.0	70.1
Some of the advice I received contradicted what my doctor told				
me Disagras	3.7	0.0	8.2	4.4
Disagree	76.8	75.8	76.6	71.8
Strongly disagree	7 0.0			
The counselors helped me decide how to feed my baby	3.4	2.0	4.3	4.9
Strongly agree	60.8	83.1	33.4	38.7
Agree	55.0	55.1		=
The information was tailored to my individual needs	5.9	4.0	4.6	2.9
Strongly agree	77.5	93.0	74.5	81.7
Agree	11.5	33.0	14.0	J 1.7
The information was helpful	5.9	7.0	12.5	11.9
Strongly agree				86.0
Agree	89.2	90.7	83.9	00.0

Exhibit D.15 (continued)

MOUNTAIN PLAINS	S	lite 1	Site 2	
	Prenatal Survey (n=333)	Postpartum Survey (n=237)	Prenatal Survey (n=310)	Postpartum Survey (n=218)
The staff was helpful				
Strongly agree	32.1%	34.9%	45.2%	38.1%
Agree	66.4	63.2	53.6	61.5
The staff made me wait too long			00.0	01.0
Strongly disagree	14.7	14.5	17.7	18.8
Disagree	76.6	74.8	76.8	70.6
I was respected as an individual	,	F I y sap	10.0	70.0
Strongly agree	30.3	31.9	38.8	30.3
Agree	69.1	64.8	59.9	67.4
Things were explained in a way I could understand	23.1	0 1.0	00.0	07.4
Strongly agree	30.0	30.6	40.9	31.2
Agree	68.2	68. <b>1</b>	58.2	68.8
The staff was warm and friendly	00.2	00.1	00.2	00.0
Strongly agree	30.3	23.6	37.1	29.8
Agree	67.6	72.3	61.2	29.0 66.5
My questions were answered	01.0	72.0	01.2	00.5
Strongly agree	25.2	26.1	32.5	25.7
Agree	73.3	71.6	67.1	72.9
I felt satisfied when I left the WIC clinic	7 0.0	7 1.0	07.1	12.9
Strongly agree	27.9	28.4	33.3	30.7
Agree	68.5	68.1	65.0	
I felt confused when I left the WIC clinic	00.0	06.1	05.0	66.0
Strongly disagree	26.1	26.8	30.4	07.5
Disagree	69.7	69.0		27.5
Some of the advice I received contradicted what my doctor told me		09.0	67.5	70.2
Strongly disagree	12.3	11.0	11.0	9.2
Disagree	71.2	61.9	66.2	9.2 54.6
The counselors helped me decide how to feed my baby		01.0	00.2	54.0
Strongly agree	3.9	5.2	8.4	4.6
Agree	30.6	36.1	40.1	4.6 54.6
The information was tailored to my individual needs		00.1	70.1	54.0
Strongly agree	7.8	11.3	14.4	10.6
Agree	76.0	75.8	76.4	
The information was helpful	7 0.0	7 0.0	1 0.4	77.5
Strongly agree	15.3	17.1	24.9	16 5
Agree	83.2		73.8	16.5 82.6

Exhibit D.15 (continued)

MIDWEST	Site 1		S	ite 2
ZX.	Prenatal Survey (n=216)	Postpartum Survey (n=233)	Prenatal Survey (n=216)	Postpartun Survey (n=239)
The staff was helpful		40.00/	00.00/	38.9%
Strongly agree	36.6%	42.6%	28.3%	
Agree	61.6	54.2	68.7	60.2
The staff made me wait too long		_		0.0
Strongly disagree	20.4	16.7	9.4	9.6
Disagree	71.3	70.8	76.4	69.5
l was respected as an individual				
Strongly agree	30.1	34.7	22.8	28.9
Agree	68.1	61.6	74.3	68.6
Things were explained in a way I could understand				
Strongly agree	33.3	33.3	26.6	29.7
Agree	65.7	64.3	70.0	68.2
The staff was warm and friendly				
Strongly agree	33.3	36.1	23.6	27.2
Agree	66.7	60.2	72.5	67.8
My questions were answered				
Strongly agree	28.2	34.7	20.2	24.7
Agree	70.4	62.0	78.1	74.5
I felt satisfied when I left the WIC clinic				
Strongly agree	31.5	36.1	24.5	25.5
Agree	65.7	59.7	72.1	71.1
I felt confused when I left the WIC clinic				
Strongly disagree	36.1	30.6	22.8	22.6
	61.1	66.7	74.2	75.7
Disagree Some of the advice I received contradicted what my doctor told				
me Strongly disagree	14.4	8.3	7.3	5.4
Disagree	70.8	55.6	69.1	47.7
The counselors helped me decide how to feed my baby				
Strongly agree	4.2	6.9	3.9	3.8
- ·	32.4	42.6	22.3	32.2
Agree The information was tailored to my individual needs				
	10.7	13.4	9.4	9.6
Strongly agree	74.5	75.5	78.1	83.7
Agree	, 4.0	, 5.5		
The information was helpful	22.7	29.2	15.0	15.9
Strongly agree		66.8	82.8	81.2
Agree	73.2	66.8	8∠.8	81.2

Exhibit D.16

Factor Loadings for Individual Satisfaction Statements

	Factor Load	
Statement	Prenatal Survey	Postpartum Survey
The staff was helpful	.66	.64
The staff made me wait too long	34	35
I was respected as an individual	.70	.75
Things were explained in a way I could understand	.76	.76
The staff was warm and friendly	.79	.77
My questions were answered	.82	.84
I felt satisfied when I left the WIC clinic	.80	.87
I felt confused when I left the WIC clinic	51	56
Some advice I received was different than my Dr's	21	14
The counselors helped me decide how to feed my baby	.13	.18
The information was tailored to my needs	.49	.50
The information was helpful	.60	.65

Exhibit D.17

Regression Coefficients for Model of Satisfaction as a Function of WIC Nutrition Education Experiences: Prenatal Survey

Statement of WIC Experience	Coefficient	Std. Error	
Counselors helped me decide how to feed baby <sup>1</sup>	0.37**	0.03	
Staff did not make wait too long <sup>2</sup>	0.19**	0.02	
Advice was not different from advice given by physician <sup>3</sup>	0.17**	0.02	
Thought written material was useful	0.18**	0.04	
Did not read/receive written materials	0.06	0.06	
Had no outstanding issues to discuss	0.15**	0.03	
Was not referred to other programs/services	-0.06**	0.02	
Met one-on-one with nutritionist	-0.01	0.01	
Met one-on-one with other WIC staff	0.05**	0.01	
Did not learn anything from WIC	-0.03**	0.01	
No longer receiving WIC benefits	-0.00	0.04	

<sup>&</sup>lt;sup>1</sup>Strongly agree with statement.

<sup>&</sup>lt;sup>2</sup>Strongly disagree with statement: "The staff made me wait too long."

<sup>&</sup>lt;sup>3</sup>Strongly disagree with statement: "Some of the advice I received from WIC was different than the advice my doctor gave me."

<sup>\*</sup>Statistically significant at the .05 percent level.

<sup>\*\*</sup>Statistically significant at the .01 percent level.

Exhibit D.18

Regression Coefficients for Model of Satisfaction as a Function of WIC Nutrition Education Experiences: Postpartum Survey

Statement of WIC Experience	Coefficient	Std. Error
Counselors helped me decide how to feed baby <sup>1</sup>	0.39**	0.03
Staff did not make wait too long²	0.27**	0.02
Advice was not different from advice given by physician <sup>3</sup>	0.16**	0.03
Thought written material was useful	0.21**	0.04
Did not read/receive written materials	0.06	0.05
Had no outstanding issues to discuss	0.09**	0.02
Was not referred to other programs/services	-0.04*	0.02
Met one-on-one with nutritionist	-0.03*	0.01
Met one-on-one with other WIC staff	0.03*	0.01
Did not learn anything from WIC	-0.03**	0.01
No longer receiving WIC benefits	-0.01	0.02

<sup>&</sup>lt;sup>1</sup>Strongly agree with statement.

<sup>&</sup>lt;sup>2</sup>Strongly disagree with statement: "The staff made me wait too long."

<sup>&</sup>lt;sup>3</sup>Strongly disagree with statement: "Some of the advice I received from WIC was different than the advice my doctor gave me."

<sup>\*</sup>Statistically significant at the .05 percent level.

<sup>\*\*</sup>Statistically significant at the .01 percent level.

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