

Injury and Asthma Among Youth Less Than 20 Years of Age on Minority Farm Operations in the United States, 2000

Volume II: Hispanic National Data



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FOREWORD

In 1996, NIOSH began the Childhood Agricultural Injury Prevention Initiative to prevent farm-related injuries to the millions of youth less than 20 years of age who are exposed to agricultural hazards each year. Youth on farms may be exposed to a wide range of work and non-work-related hazards, including falls, all-terrain vehicles (ATVs), and animals. As a place of work and a place of residence, the farm presents unique challenges for injury prevention.

The NIOSH initiative is based on a comprehensive program of surveillance, research, and partnerships. In keeping with the breadth of the Initiative, the following document presents national data for non-fatal youth injuries on Hispanic farms for 2000. These data, drawn from a special survey of minority farm operators across the U.S., indicate that 366 youth were injured on Hispanic farms during 2000. The causes of these injuries included falls, animals, and vehicles such as ATVs. This document, which is the second in a series of four publications, fills a current data need by providing demographic information on youth exposed to these hazards on Hispanic farm operations.

This document is an important step in understanding the magnitude of youth injuries occurring on Hispanic-operated farms in the U.S. We hope this information will serve as a valuable resource to federal, state and local agencies; health and safety professionals; and farm safety advocates in their efforts to develop focused and coordinated strategies to prevent youth injuries on farms.

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Prevention

Injury and Asthma Among Youth Less Than 20 Years of Age on Minority Farm Operations in the United States, 2000 Volume II: Hispanic National Data

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Public Health Summary

What is the purpose of this document?

This document provides previously unavailable youth demographic, injury and asthma estimates at the national level for youth on Hispanic-operated farms in the U.S. A Hispanic is defined as any person of Spanish, Hispanic, or Latino origin. These data represent the initial step in developing research and prevention programs to reduce the burden of injury and asthma on Hispanic farms in the U.S.

What are the hazards?

According to data from the National Institute for Occupational Safety and Health and the U.S. Department of Agriculture, there were 366 estimated youth less than 20 years of age injured on Hispanic farm operations in the U.S. in 2000. Major causes of these injuries included contact with objects and falls. In addition, there were an estimated 1,299 youth with asthma living on these farms. The injury and asthma estimates reported here should be considered conservative because of the potential for recall bias and other biases in the survey.

How are youth exposed or put at risk?

Exposures to farm hazards are not limited to youth who work on farms. In addition to injuries sustained during work activities, youth may be injured while living on farms, while visiting farms, or when they accompany their working parents or adults into the fields. The farm environment also contains many known triggers for asthma. The injury and asthma hazards these youth encounter may be work or non-work in nature, and make the farm a unique environment for developing prevention strategies.

What recommendations have the federal government made to protect the health of farm youth?

The Fair Labor Standards Act of 1938 (FLSA) and its amendments set standards for child labor in agriculture. However, the FLSA covers only employees whose work involves production of agricultural goods, which will leave the state through interstate commerce. In addition, FLSA regulations do not apply to youth working for their parents or guardian(s) on the family's farm. Youth who work on farms are often not protected by workplace safety and health regulations from the Occupational Safety and Health Administration (OSHA) because these youth frequently work for small operations that are not inspected by OSHA, or because OSHA regulations do not apply to the farm household members. For all youth on farms, there are no protections for injuries from hazards associated with non-work activities, which often expose them to the same hazards as work activities. Given the limited protections for youth on farms, there is a need for states and communities to develop and implement programs to reduce childhood agricultural injuries.

Where can more information be found?

Additional NIOSH documents and information on childhood agricultural injuries or other related topics may be obtained by calling the NIOSH toll-free number (1-800-35-NIOSH; 1-800-356-4674) or visiting the NIOSH homepage http://www.cdc.gov/niosh.

Section I: The Minority Farm Operator Childhood Agricultural Injury Survey

INTRODUCTION

Youth who live on, work on, or visit farms in the United States (U.S.) have been identified as a special population at high risk for non-fatal and fatal injuries [Adekoya and Pratt, 2001; Myers and Hendricks, 2001; Castillo et al., 1999; Rivara, 1997; NCCAIP, 1996]. Since 1996, the National Institute for Occupational Safety and Health (NIOSH) has conducted the Childhood Agricultural Injury Prevention Initiative to promote the reduction of injuries and fatalities to youth on farms in the U.S. [Castillo et al., 1998]. A major component of this initiative is the development of an ongoing surveillance program to track the frequency and incidence of non-fatal injuries and fatalities occurring to the various types of youth exposed to farm hazards.

An initial step in the development of the surveillance program was the completion of a farm operator survey in 1999. NIOSH collaborated with the U.S. Department of Agriculture (USDA), National Agricultural Statistics Service (NASS) to conduct the Childhood Agricultural Injury Survey (CAIS). The results of this survey were released in 2001, and contained both injury and youth demographic estimates for farms in the U.S. [Myers and Hendricks, 2001]. While the CAIS provided a statistically representative picture of the injury experience of youth on farms in the U.S., it did have some limitations. One major limitation of the CAIS was that it did not adequately cover minority operated farms (i.e., farms operated by racial minorities or operators of Hispanic ethnicity). This is due in large part to the small number of minority farms in operation in the U.S. Based on the 1997 Census of Agriculture, minorities accounted for just 3.3% of the nearly 1.91 million farms in the U.S. that year [USDA, 1999].

To address this limitation, NIOSH, through an Interagency Agreement, again collaborated with USDA, NASS to administer the Minority Farm Operator Childhood Agricultural Injury Survey (M-CAIS) in 2001 by using the 1997 Census of Agriculture sampling frame to identify minority farms. Like the CAIS before it, the M-CAIS provides injury and youth demographic estimates at the national and regional level, but the estimates are specific to minority operated farms in the U.S. In addition to injury information, the M-CAIS provides prevalence information on asthma among youth living on minority farms, which should provide unique information for health professionals working in the area of childhood asthma.

This document presents the national M-CAIS results for Hispanic farm operations in an easily accessible statistical abstract format. A Hispanic farm operation includes farms operated by persons of Spanish, Hispanic, or Latino origin. This document includes injuries to all youth on Hispanic-operated farms regardless of the race or ethnicity of the injured youth (i.e., a non-Hispanic youth who worked and was injured on a Hispanic farm would be included in these

statistics). Other documents, in a similar format, provide national data for racial minority farm operations, regional data for racial minority farm operations, and regional data for Hispanic farm operations. Due to the quantity of data, no attempt was made to interpret the results presented. A list of NIOSH documents and publications that do provide interpretation of these and other childhood farm injury data is provided in Appendix A. It is hoped that the data presented here will be used by public health and safety professionals, engineers, and other groups working in the area of childhood farm safety and health to help in their intervention programs and injury control research.

The estimates, prevalence rates, and incidence rates presented in this statistical abstract were calculated by NIOSH and are presented with the approval of USDA, NASS. Access to all M-CAIS data files, or additional estimates from the M-CAIS data, are subject to the approval of USDA, NASS.

METHODS

General Survey Design: The M-CAIS was conducted for NIOSH by USDA, NASS through an Interagency Agreement. The survey was defined as a census of the 49,270 minority farm operations identified in the NASS 1997 Census of Agriculture list. A farm was considered to be eligible for M-CAIS regardless of whether youth were on the farm in 2000. This was necessary to allow for meaningful estimates of both injuries and the number of youth on farms for the various youth populations covered in the survey. Because of confidentiality concerns, racial minority farm operators and Hispanic operators were handled independently. This resulted in a certain number of farms being used to calculate both the racial minority estimates and the Hispanic estimates. In other words, individual operators who reported being a racial minority and of Hispanic ethnicity are represented in both sets of estimates. However, farm operators who are non-Hispanic, regardless of their race, are excluded from the Hispanic estimates. Because of this overlap, it is not possible to add racial and Hispanic estimates together.

The survey used a Computer Assisted Telephone Interview (CATI) survey instrument. The interviews were conducted by 10 NASS calling centers between February and March of 2001. The M-CAIS was conducted in these winter months to increase the response rate of the survey. Participation in the survey was strictly voluntary. The survey instrument (Appendix B) used for the M-CAIS was designed to not exceed one-half hour, with an average response time of seven minutes. Definitions used in the questionnaire and throughout this document are provided in Appendix C.

In addition to the main CATI data collection effort, 5 NASS State offices conducted personal interviews with a sample of 2,088 minority operators that were not contacted during the CATI survey period. The two main reasons these farm operators were not contacted during this period were that the operator was not available even upon repeated contact attempts, or that NASS did not have a working telephone number on file. The 5 States that conducted the personal interviews

were Alabama, Arizona, California, New Mexico, and Texas. These States were selected because they had the largest number of minority farm operations. The personal interviews were conducted during April and May of 2001 with the same survey instrument used in the CATI process.

The data collected for M-CAIS were self-reported by either the female or male head of household. If an injury occurred to a household youth 16-years of age or older, and the youth was available to talk to the NASS enumerator, he or she was asked to answer the injury section of the survey. Information such as youth demographics, the occurrence of an injury, and the characteristics of an injury event were subject to the interpretation of the respondent.

For the survey, a farm was defined as any operation with \$1,000 or more of gross agricultural production within a calendar year, and included both crop and livestock operations. A youth was defined as any person under the age of 20 years. Household youth were defined as all youth who resided on the farm. Hired youth were defined as youth who were hired directly by the farm operator, excluding contract laborers, to work on the farm, but were not household members. Visitors were defined as all other youth who were on the farm, but were not household members or hired workers.

An injury was defined as any condition that resulted in 4 hours or more of restricted activity (e.g., the individual could not perform work or other normal duties, missed work, and/or missed school), or a condition that required professional medical treatment. While the total number of childhood agricultural injuries was requested for the calendar year 2000, descriptive information was collected only for the four most recent injury events. An agricultural work-related injury was defined as any injury meeting the above definition that occurred while performing work on the farm associated with the farm business, including chores. Non-work injuries were defined as injuries occurring on the farm that were not due to farm work. The survey excluded injuries to contractors working for the farm operation, or injuries that occurred to youth off the farm property. The categorical injury variables of "source of injury" and "event or exposure" were coded from narrative injury descriptions using the Bureau of Labor Statistics Occupational Injury and Illness Classification Manual [USDOL, 1992].

Asthma was assessed for household youth only. A household youth was defined as having asthma only if the condition had been diagnosed by a health professional. An asthma attack at work was defined as any attack that occurred while the youth was doing farm work, and required the use of an inhaler or other medical treatment. A professionally treated asthma attack was defined as any attack that required an emergency room visit, hospitalization, or other professional medical attention, beyond the use of an inhaler. A positive response to either the asthma attack at work or the professionally treated asthma attack question indicated that at least one such attack occurred to the youth during 2000. The actual number of either type of attack was not collected. Therefore, these asthma statistics are measures of prevalence only. Finally, the two types of asthma attacks are not mutually exclusive. It is possible that an asthma attack incident occurred

while the youth was doing farm work and that the youth received professional medical treatment for the same attack.

To facilitate the correct matching of injury estimates to youth at risk, specific demographic terms were used for the various combinations of youth populations in the survey (Table 1.1). In this document, "All youth" refers to the sum of all youth categories covered in the survey (i.e., "Household youth," "Hired youth," "Relatives," and "Non-relatives"). "Visiting youth" refers to the combination of "Relatives" and "Non-relatives" that were on the farm in the year 2000. "All working youth" refers to "Working household youth," combined with "Hired youth" and "Working relatives." Finally, "Non-household working youth" refers to the combination of "Hired youth" and "Working relatives."

The racial and Hispanic origin classification for the farm operator and all household youth were set to the racial and Hispanic classification provided on the 1997 Census of Agriculture sampling frame. In addition, "Asians" and "Native Hawaiian or Other Pacific Islanders" were combined into a single Asian category for all analyses. "Other races" was defined in the 1997 Census of Agriculture as persons native to or of ancestry from Mexico, the Caribbean, and Central and South America [USDA, 1999].

Table 1.1 Demographic terms and the specific youth populations they represent for all statistical tables presented in Section II.

				Ter	ms		
							Working
						All	non-
			Household	Visiting		working	household
Y	outh Population	All youth	youth	youth	Relatives	youth	youth
Household	Non-working household youth	X	X				
Housenoid	Working household youth	X	X			X	
	Hired youth	X				X	X
NI 1 1.1	Non-working relatives	X		X	X		
Non-household	Working relatives	X		X	X	X	X
	Non-relatives	X		X			

Estimation Procedures: The estimation procedure for the M-CAIS was developed as a two-step process. The first step involved post-stratifying the CATI and personal interview results to account for farm operators who refused to participate in the survey, or were inaccessible. For the racial minority data, the results were post-stratified by the four farm operator racial categories (Black, Native American, Asian, and "Other") within the nine U.S. geographic regions defined by the U.S. Bureau of the Census (Table 1.2) [US Department of Commerce, 1975]. For the Hispanic data, post-stratification was for the nine geographic regions only. Variance estimates for the survey were derived by applying the unbiased estimators for a stratified simple random sample to these post-stratified data [Cochran, 1977]. The estimators for Hispanic population totals and their corresponding variances are presented in Appendix D. The estimators for racial minority totals and variances are provided in Volume I.

Table 1.2 U.S. Bureau of the Census Geographic Regions of the U.S.

4 Regions	9 Regions
Northeast	New England: Connecticut, Maine, Massachusetts, New Hampshire
	Rhode Island, Vermont
	Mid-Atlantic: New Jersey, New York, Pennsylvania
Mid-West	East North Central: Illinois, Indiana, Michigan, Ohio, Wisconsin West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska North Dakota, South Dakota
South	South Atlantic: Delaware, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, West Virginia
	East South Central: Alabama, Kentucky, Mississippi, Tennessee
	West South Central: Arkansas, Louisiana, Oklahoma, Texas
West	Mountain: Arizona, Colorado, Idaho, Montana, Nevada,
	New Mexico, Utah, Wyoming
	Pacific: Alaska, California, Hawaii, Oregon, Washington

The second step in the estimation process was benchmarking the post-stratified survey results to the published counts for minority-operated farms released in the 1997 Census of Agriculture. The 1997 Census of Agriculture reported 27,717 Hispanic farms. This number includes imputed values for minority farm operations (i.e., some farm operations without ethnicity data for the operator were classified as Hispanic operations based on characteristics of the farm operation or other factors). Since these imputed values caused the published Hispanic farm count (27,717) to be higher than the sampling frame Hispanic farm count (20,789), the benchmarking process was necessary.

Benchmarking was applied to each of the nine geographic regions. Because benchmarking changed each post-stratified population total by a constant, it did not change the relative variance of any post-stratified population estimate. Therefore, the relative variances from the non-benchmarked post-stratified estimates were used to derive the standard errors for all benchmarked population estimates. The equations used to derive benchmarked Hispanic population estimates and variances are provided in Appendix D. The benchmark equations for racial minority population estimates and variances are provided in Volume I.

Incidence and Prevalence Rate Estimates: The injury incidence rates were calculated as the estimated number of injuries at the national level, divided by the appropriate youth estimate at the national level. For work-related injury rates, only working household and working non-household youth were included in the denominator. For non-work-related injury rates, all youth were included in the denominator because it was assumed that all youth could sustain a non-work injury. The overall household youth asthma prevalence rate and the prevalence rate for professionally treated asthma attacks used all household youth as the denominator. The

prevalence rate for asthma attacks while doing farm work used only working household youth in the denominator. All rates are expressed in terms of 1,000 youth potentially exposed.

The variance calculations for the population-based incidence or prevalence rates were estimated using the linear combination of variances for the injury or asthma estimate and the youth estimate as described by Cochran [1977] (Appendix D).

Categorical Frequency Estimates: The frequency estimates for categorical variables from the M-CAIS were based on three types of information: demographic, injury, and asthma. Demographic data included an estimate of household youth, the number of hired youth, and the number of visiting youth for the calendar year 2000. For household youth, estimates by sex, age, and various types of exposure information (e.g., working on the farm, riding a horse) were also calculated. Injury data included information such as whether an injury was work-related or not, the nature of the injury, the source of the injury, the event or exposure leading to the injury, and the body part injured. This information was only collected for the four most recent injuries that occurred on a farm. Asthma data were collected for household youth only, and included prevalence estimates for youth with asthma, youth with at least one asthma attack while doing farm work in 2000, and youth who required professional medical treatment for an asthma attack in 2000.

Frequency tables for the various categories are presented at differing levels of detail because of differing levels of sampling error and minimum case requirements between the various estimates. In all instances, an estimate was required to have 3 or more farms with a non-zero value to be reportable. This was the only restriction placed on injury or asthma estimates from the M-CAIS. Youth estimates were further restricted if the relative standard error of an estimate exceeded 34%. For some tables, youth estimates are reported with relative standard errors above 34% because they were deemed critical to the interpretation of the frequency table. However, no youth estimate is reported with a relative standard error greater than 50%. If an injury or youth estimate was censored because of either of these two criteria, a series of other cells within the table were also censored to prevent obtaining restricted data through subtraction. Where possible, these secondary censored values were targeted at broader categories within a table.

Survey Limitations: There are several limitations to the results presented in this report. The first limitation is the NASS census sampling frame used for the survey. The 1997 Census of Agriculture list does not account for new minority farming operations that were established after 1997. In addition, some minority farm operators may have been left out of the sample because the operator self-selected themselves into non-minority categories for race or ethnicity in the 1997 Census of Agriculture. The extent of self-misclassification in the 1997 Census of Agriculture is unknown. A second limitation is that the recall period for an injury or asthma attack in this survey was up to 15 months. While the definition of an injury or asthma attack was for more severe cases, which may be easier to recall, there is still the possibility that a reportable injury or asthma attack was not remembered by a respondent. A third limitation is that most surveys were

conducted with the female head of household, which may have resulted in an under-reporting of hired youth injuries, especially for larger farming operations with many employees. Fourth, there was no way to verify the accuracy or completeness of the responses given in this survey, which could impart some response bias into the overall results. Fifth, this survey did not include injuries which occurred to youth contract farm workers. Injuries to contract farm workers are being assessed through a separate NIOSH study, and will be provided in a separate report.

A final limitation is the possibility of a bias because of non-response to the telephone survey. Due to the survey design, it was not possible to make a second contact to farm operators who refused to participate in the survey. This did not allow for a follow-back questionnaire to assess these refusals. For non-response due to inaccessibility, the inclusion of 2,088 personal interviews did improve the coverage, but did not eliminate all bias. The post-stratification of the M-CAIS results greatly reduced the impact of the non-response bias.

LAYOUT AND USE OF THE DATA TABLES

The data tables contained within this document are designed to provide the user as much information as possible. However, as with all such documents, the tables are subject to the usual limitations of 2-way or 3-way classification tables, as well as the limitations imposed by printing space. Because of this, no percentages are provided in any of the frequency tables. Rather, the reader is provided the grand total and marginal totals in each table, except for values that are suppressed for reasons of confidentiality.

Frequency Table Layout: Frequency tables generally follow a common layout (Table 1.3). The grand total, A, is displayed as the bottom left data cell. Marginal totals, B, are displayed in the far left data column, and in the bottom row. The grand total and marginal totals are typically shaded in gray. The 2-way variable estimates, C, are presented in the non-highlighted body of the table. The standard errors a, b, and c are provided immediately next to each corresponding estimate.

In addition to the typical row or column marginal values, certain tables may also contain major group, subgroup, and detailed values. Major group and subgroup values occur on most tables involving "Age" and "Type of farming operation." Detailed values are associated with most tables involving "Relationship to the farm," "Source of injury," and "Type of injury event." A major group represents a broad grouping of values for a particular variable, while the subgroup represents either individual values for the variable, or smaller groupings of values for the variable. Detailed values represent the most detailed estimate possible for the specific variable. Major groups are shown in bolded text, while subgroups are shown as indented, non-bolded text beneath major group entries. Detailed entries are provided in indented, italicized text beneath subgroup entries.

Table 1.3 General layout of data tables in Section II. "A" represents the grand table total, "B" the marginal totals, and "C" the two-way variable estimates within the table. The values "a," "b," and "c" are the corresponding standard error estimates of "A," "B," and "C." Bold table entries denote major group estimates for variables, non-bolded entries denote subgroup estimates for variables, and italicized entries denote a detailed estimate for a variable.

	Total [†]		Variable major gr		Variable major gro	Unknown	
Variable 2	Estimate	se	Estimate	se	Estimate	se	Estimate
Variable 2 major group	В	b	C	c	C	c	C
Variable 2 subgroup	В	b	C	c	C	c	C
Variable 2 detailed	B	b	C	c	C	c	C
Variable 2 major group	В	b	C	c	\mathbf{C}	c	C
Variable 2 subgroup	В	b	C	c	C	c	C
Variable 2 detailed	B	b	C	c	C	c	C
Unknown	B b		C	c	C	c	C
Total †	A	a	В	b	В	b	В

[†] Estimates may not add to the total because of rounding.

The following is an example of this layout for the variable "Age," using Table 2.4 on page 19. The major groups for age in the document are "<10 years," "10-15 years," "16-19 years," and "Unknown." In addition to these 4 major age groups, 5 age subgroups exist. Under the major group "10-15 years," there are three subgroups: "10-11 years," "12-13 years," and "14-15 years." For the major group "16-19 years," there are two subgroups: "16-17 years" and "18-19 years." The major groups "<10 years" and "Unknown" have no subgroups.

Collapsed categories: Because of reporting restrictions, not all values may be reported in a table (see discussion of reporting requirements under "Categorical Frequency Estimates" in the Methods section, page 6). In this document, a non-reportable cell is denoted in a table as "***." In some circumstances, values for a variable may be collapsed into a broader category. For example, in Table 2.2, page 17, the subgroup farm types of "Aquaculture" and "Other livestock" farms are collapsed into a single broad category, "All other livestock" farms. Collapsed categories for most variables are footnoted in individual tables. Standard error estimates for these collapsed categories are not provided in the document.

Calculating Percentages within Frequency Tables: Percentage distributions from these tables may be calculated at the table level, row marginal level, column marginal level, and for subgroups within major groups. Using the notation from Table 1.3, table level percentages (T%) can be obtained by dividing any table entry B or C, by the grand table total A. Using Table 2.4 as an example, the table level percentage for household youth less than 10 years of age is:

$$T\%_{\text{household youth} < 10 \text{ years}} = (6.015/17.998)(100) = 33.4\%,$$

meaning 33.4 percent of all household youth are less than 10 years of age. Similarly, the table

level percentage for household males less than 10 years of age is:

$$T\%_{\text{household males}} < 10 \text{ years} = (3.124/17.998)(100) = 17.4\%,$$

meaning 17.4 percent of all household youth are males below the age of 10 years.

The row marginal percentages (RM%) involve dividing values of C by the corresponding row marginal total, B. Using Table 2.4 again, the row marginal percentage for household males less than 10 years of age is:

$$RM\%_{\text{household males} < 10 \text{ years}} = (3,124/6,015)(100) = 51.9\%,$$

meaning 51.9 percent of all household youth less than 10 years of age are male.

Using the same approach, the column marginal percentage (CM%) for males less than 10 years of age from Table 2.4 is:

$$CM\%_{\text{household males}} \le 10 \text{ years} = (3,124/9,235)(100) = 33.8\%,$$

meaning 33.8 percent of all household males are less than 10 years of age.

When looking at tables with major groups and subgroups, the T% values of the row or column major group marginal cells will add to 100%, except for rounding. The T% values for the row or column subgroup marginal cells will add to the corresponding major group percentage they are beneath, except where subgroup values are suppressed. Using a similar logic, percentages may also be derived for subgroup values within major groups. For example, from Table 2.4, the percentage of household youth 10-11 years of age out of all household youth 10-15 years of age is (1,894/6,589)*100, or 28.7 percent.

Rate Table Layout: The layout for rate tables in this document is similar to that for frequency tables. Rates are provided for the grand total, row marginal values, column marginal values, and where appropriate, the 2-way table values (see "Incidence and Prevalence Rate Estimates" on page 5 of the Methods section for a discussion of how rates were derived). As with frequency tables, standard errors are not provided for rates involving collapsed cells.

Comparison to Other Public Health Data: Readers are asked to use care in comparing the results provided in this document to those reported from other public health data sets. Readers should review carefully the definitions, methods, and limitations presented in this document before making comparisons to other published reports, or studies.

The data provided in this document are derived using statistical weights, and are reported with standard errors. Confidence intervals can be calculated for any level of confidence by multiplying

the standard error by the appropriate value of "t" from the Students-t distribution (e.g., 1.96 for a 95% confidence interval). It is important that comparisons to other published reports or data take these standard errors or confidence intervals into account.

NATIONAL HIGHLIGHTS FOR HISPANIC FARMS

The following is an overview of the national results of the M-CAIS for Hispanic farm operations. Detailed results with standard errors (se) are presented in Section II.

Survey Response: A total of 49,270 minority farm operations were identified in the 1997 Census of Agriculture sampling list. The number of Hispanic operations identified by the list was 20,789. Of all eligible farms, 36,424 were contacted either by telephone or by a NASS field enumerator. The remaining 12,846 eligible farms were inaccessible. Of the 36,424 farms that were contacted, 9,254 refused to participate, for a responding farm count of 27,170. This resulted in an overall adjusted M-CAIS response rate of 74.6%. The number of Hispanic farms among the respondents was 10,862. These 10,862 were weighted to the 20,789 Hispanic farms on the NASS sampling list and then benchmarked to the 27,717 Hispanic farms published in the 1997 Census of Agriculture (see Estimation Procedures on page 4 for more information).

Youth Demographics: There were an estimated 287,870 (\pm 4,444) youth under the age of 20 years who lived on, worked on, or visited a Hispanic-operated farm in 2000. Youth living in the farm household accounted for an estimated 17,998 (\pm 203) youth. Youth hired directly by the farm accounted for 5,144 (\pm 253) youth and an estimated 264,728 (\pm 4,391) youth were visitors to the farm. Relatives accounted for 124,801 (\pm 1,405) of these visitors. Livestock operations had the greatest number of youth on the farm in 2000 (158,881 \pm 3,114) with crop operations having an estimated 121,654 (\pm 3,448) youth on their operations.

There were an estimated 22,850 (\pm 416) youth under the age of 20 years who did work on Hispanic-operated farms in 2000. These included household youth who performed work on the farm, youth hired directly by the farm, and any non-household relatives who worked on the farm. Livestock operations accounted for the most working youth (13,038 \pm 302). Crop operations accounted for an additional 9,360 (\pm 304) working youth.

Of the 17,998 youth less than 20 years of age living on Hispanic-operated farms, 9,235 (\pm 203) were males and 8,400 (\pm 122) were females. There were 6,015 (\pm 114) household youth under the age of 10 years, 6,589 (\pm 105) between the ages of 10 and 15 years, and 4,969 (\pm 86) between the ages of 16 and 19 years. A total of 7,921 (\pm 131) household youth on all Hispanic farms did farm work during 2000. Also during that year, 5,331 (\pm 115) household youth were reported to have ridden a horse for either work or recreation, 4,871 (\pm 101) operated an ATV for work or recreation, and 4,412 (\pm 90) youth were said to have operated a tractor on the farm.

Injuries to All Youth: There were an estimated 366 (± 23) youth injuries on Hispanic-operated farms in 2000. Of these injuries, 140 (± 14) were work-related and 226 (± 18) were non-work-related. The work-related injury rate for all youth was 6.1 per 1,000 working youth (± 0.6), while the non-work-related injury rate was 0.8 injuries per 1,000 youth (± 0.1). Household youth accounted for the highest number of injuries (259 ± 20), followed by relatives (58 ± 9), visitors that were not relatives (33 ± 7), and hired workers (17 ± 5). Most injuries occurred to males (262 ± 19). Youth less than 10 years of age had the highest number of injuries (131 ± 14), followed by youth 16 and 17 years of age (71 ± 9). For work-related injuries, the highest number occurred to youth 16 to 19 years of age (67 ± 9), followed by youth 14 and 15 years of age (27 ± 6).

The most common source of injury for all youth on Hispanic farms was structures and surfaces. This source, which includes the ground, floors, and fences, accounted for $100 \ (\pm 11)$ of the injuries. The most common type of injury event was a fall (96 ± 11) , while $95 \ (\pm 11)$ injuries were the result of contact with an object. The parts of the body most commonly injured were the leg (58 ± 9) ; arm (56 ± 8) ; or the hand, wrist, and finger (54 ± 8) . Injuries most frequently resulted in cuts (86 ± 11) or fractures (70 ± 9) .

When examined by type of farm, 234 (\pm 19) of the injuries to youth occurred on livestock operations, while 127 (\pm 14) injuries to youth were reported on crop farms. Beef operations had the highest number of youth injuries (141 \pm 14), followed by grain and oil seed farms (47 \pm 9). Although livestock operations experienced the majority of injuries, the difference in injury rates for livestock and crop operations was small: livestock operations had an injury rate of 1.5 per 1,000 youth (\pm 0.1) compared to 1.0 per 1,000 youth (\pm 0.1) on crop operations.

Injuries to Household Youth: There were 259 (\pm 20) household youth injuries on Hispanic farms in 2000. The injury rate for household youth on Hispanic-operated farms was 14.4/1,000 household youth (\pm 1.1). Males accounted for 188 (\pm 16) of these injuries, while 71 (\pm 10) were to females. The rate of injury for males was 20.3 per 1,000 household youth (\pm 1.8), which was more than twice the injury rate for females (8.5 per 1,000 household youth \pm 1.2). Household youth less than 10 years of age were estimated to have the highest number of injuries (84 \pm 11), followed by household youth age 14 and 15 years (57 \pm 9), and household youth 16 and 17 years of age (46 \pm 8).

There were $114 (\pm 12)$ work-related injuries to household youth on Hispanic farms, for a corresponding work-related injury rate of 14.3 per 1,000 working household youth (± 1.6). The highest number of these work-related injuries were found for household youth 16 to 19 years of age (48 ± 8). The age group with the highest work-related injury rate among household youth was 16 to 19 years of age (16/1,000 working household youth ± 2.6), followed by youth 14 and 15 years of age (14.9/1,000 working household youth ± 3.6).

As was seen for all youth, household youth on livestock operations reported the most injuries (162 \pm 15), followed by crop operations (92 \pm 12). By specific type of farm, beef operations had the

highest number of youth injuries (90 ±11), followed by grain and oil seed operations (38 ±8). Unlike the injury rates seen for all youth where the injury rates for livestock and crop operations were similar, household youth on livestock operations had an injury rate one and one-half times that of those on crop operations (17.9 per 1,000 household youth ±1.7 and 11.3 per 1,000 household youth ±1.5, respectively). Household youth on sheep and goat operations had the highest injury rate (74.9 per 1,000 household youth ±20.8). This rate was more than five times the overall rate for household youth. Other types of farms that had an injury rate higher than 20 injuries per 1,000 household youth were: equine operations (34.6 ±8.9) and grain and oil seed operations (22.4 ±4.8).

The most common source of injury for youth living on Hispanic-operated farms was structures and surfaces (62 \pm 8). Contact with objects were the most common injury event (71 \pm 9), followed by falls (65 \pm 9). The parts of the body most commonly injured were the leg (43 \pm 7); the hand, wrist, and finger (41 \pm 7); the arm (38 \pm 7); or the foot, ankle, and toe (38 \pm 7). Injuries most frequently resulted in cuts (63 \pm 9) or fractures (49 \pm 8).

Asthma Among Household Youth: An estimated 1,299 (\pm 44) household youth living on Hispanic farm operations were reported as having been diagnosed with asthma. Of these youth, 403 (\pm 25) reportedly experienced at least one asthma attack while doing farm work during 2000, while 250 (\pm 18) experienced at least one asthma attack serious enough to require professional medical attention. The overall asthma prevalence rate for these household youth was 72 cases per 1,000 household youth (\pm 2.6). Males had a higher prevalence rate at 86 cases per 1,000 household youth (\pm 3.8), while females had a prevalence rate of 60 cases per 1,000 household youth (\pm 3.1).

The number of household youth reported to have asthma was somewhat higher on livestock operations (665 cases ± 32) than on crop farms (584 cases ± 30). The prevalence rates, however, were statistically identical for livestock and crop operations (74 cases/1,000 household youth ± 3.7 and 72 cases/1,000 household youth ± 3.9 , respectively). The number of household youth who reportedly experienced one or more asthma attacks while doing farm work during 2000 was also higher on livestock operations (206 youth with work-related attacks ± 18) than on crop farms (179 youth with work-related attacks ± 17). However, crop farms had the highest rate of household youth with one or more asthma attacks while doing farm work (57 youth with work-related attacks/1,000 working household youth ± 5.6) when compared to livestock operations (45 youth with work-related attacks/1,000 household youth ± 4).

REFERENCES

Adekoya N, Pratt SG [2001]. Fatal unintentional farm injuries among persons less than 20 years of age in the United States: geographic profiles. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and

- Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2001-131
- Castillo DN, Hard DL, Myers JR, Pizatella T, Stout NA [1998]. A national childhood agricultural injury prevention initiative. J Agric Saf Health, Special Issue (1):183-191.
- Castillo DN, Adekoya N, Myers JR [1999]. Fatal work-related injuries in the agricultural production and services sectors among youth in the United States. J Agromedicine, 6(3):27-42.
- Cochran WG [1977]. Sampling techniques, 3rd ed. New York, NY: J Wiley and Sons.
- Myers JR, Hendricks KJ [2001]. Injuries among youth on farms in the United States, 1998. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2001-154.
- NCCAIP [1996]. Children and agriculture: opportunities for safety and health—a national action plan. Marshfield, WI: National Committee for Childhood Agricultural Injury Prevention.
- Rivara F [1997]. Fatal and nonfatal farm injuries to children and adolescents in the United States, 1990-1993. Inj Prev 3:190-194.
- USDA [1999]. 1997 Census of agriculture United States summary and State data, volume 1, geographic area series, part 51. Washington, DC: U.S. Department of Agriculture, National Agricultural Statistics Service.
- USDOL [1992]. Occupational injury and illness classification manual. Washington, DC: U.S. Department of Labor, Bureau of Labor Statistics.
- US Department of Commerce [1975]. The methods and materials of demography: vol. I. Washington, DC: Shryock, Siegal, and Associates.

Section II: National Demographic, Injury, and Asthma Estimates for Youth Less Than 20 Years of Age on Hispanic Farm Operations

Table 2.1 National estimate of Hispanic farms from the 1997 Census of Agriculture by business status, 2000

	Total	
Status	Estimate	se
In business	24,513	59
Out of business	3,205	59
Total [†]	27,717	

[†] Estimates may not add to the total because of rounding.

Table 2.2 National estimates of all youth less than 20 years of age on Hispanic farms by relationship to the farm and type of farm, 2000

	Tota	ıl [†]	Household	Youth	Hired Yo	outh	Visiting	Youth	Relati	ves	Non-Re	latives
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate	se
All crop	121,654	3,448	8,109	146	3,207	240	110,338	3,391	49,060	965	61,277	3,027
Grain and oil seed	30,145	1,732	1,691	68	384	41	28,070	1,707	12,588	525	15,482	1,441
Tobacco	4,094	544	238	26	90	18	3,766	533	1,700	181	2,066	442
Cotton	4,977	755	350	33	89	16	4,538	745	2,078	207	2,460	614
Vegetable and melon	9,593	1,140	881	54	419	59	8,293	1,119	3,210	280	5,083	1,051
Fruit, nut, and berry	31,237	1,552	2,366	78	1,263	158	27,607	1,512	12,608	<i>45</i> 6	15,000	1,339
Nursery and floriculture	11,340	1,736	703	46	339	61	10,297	1,718	2,277	8	8,020	1,664
Other crop	30,269	1,346	1,879	76	623	153	27,767	1,300	14,599	568	13,167	1,008
All livestock	158,881	3,114	9,037	156	1,921	90	147,922	3,057	71,569	1,147	76,353	2,539
Beef	113,888	2,634	6,558	132	1,241	74	106,089	2,588	54,832	1,004	51,256	2,142
Dairy	13,437	1,037	817	59	296	31	12,324	1,001	5,000	366	7,325	811
Hog	3,290	504	202	27	108	25	2,980	483	1,249	177	1,730	366
Sheep and goat	6,828	621	341	30	85	20	6,402	607	3,161	272	3,241	446
Equine	14,349	1,094	646	42	98	19	13,604	1,070	4,380	306	9,224	907
Poultry and egg	3,293	432	202	27	42	12	3,049	422	1,479	192	1,570	275
All other livestock*	3,796		270		52		3,478		1,468		2,007	
Unknown	7,336		851		16		6,468		4,171		2,297	
Total †	287,870	4,444	17,998	203	5,144	253	264,728	4,391	124,801	1,405	139,927	3,886

[†] Estimates may not add to the total because of rounding.
* All other livestock includes "Aquaculture" and "Other livestock" farms.

Table 2.3 National estimates of all working youth less than 20 years of age on Hispanic farms by relationship to the farm and type of farm, 2000

			Working		Working	Working Non-				
	Total	†	Household	l Youth	Household	l Youth	Hired Youth		Working Relatives	
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate	se
All crop	9,360	304	3,154	84	6,207	280	3,207	240	3,000	141
Grain and oil seed	1,790	93	814	44	976	76	384	41	592	61
Tobacco	301	36	112	17	190	28	90	18	100	22
Cotton	300	33	116	15	184	28	89	16	95	18
Vegetable and melon	1,027	93	305	28	723	84	419	59	304	52
Fruit, nut, and berry	2,809	187	750	40	2,059	177	1,263	158	796	77
Nursery and floriculture	622	72	185	21	437	64	339	61	98	17
Other crop	2,509	189	872	45	1,637	174	623	153	1,015	82
All livestock	13,038	302	4,590	105	8,448	269	1,921	90	6,526	246
Beef	9,335	245	3,125	85	6,211	216	1,241	74	4,970	197
Dairy	1,382	128	511	43	871	114	296	31	575	105
Hog	347	51	138	20	209	44	108	25	101	31
Sheep and goat	568	84	224	24	344	77	85	20	259	74
Equine	893	74	377	31	516	62	98	19	418	58
Poultry and egg	281	41	116	20	165	31	42	12	123	27
All other livestock*	231		99		132		52		81	
Unknown	452		178		274		16		258	
Total †	22,850	416	7,921	131	14,928	383	5,144	253	9,784	283

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[†] Estimates may not add to the total because of rounding.
* All other livestock includes "Aquaculture" and "Other livestock" farms.

Table 2.4 National estimates of **household youth** less than 20 years of age on Hispanic farms by sex and age, 2000

	Total	t	Male	;	Fema	Unknown	
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	6,015	114	3,124	73	2,886	69	5
10-15 years	6,589	105	3,349	70	3,236	69	5
10-11 years	1,894	48	1,031	36	861	33	3
12-13 years	2,232	52	1,141	37	1,088	37	3
14-15 years	2,463	56	1,177	39	1,286	40	0
16-19 years	4,969	86	2,704	61	2,260	56	5
16-17 years	2,818	59	1,492	44	1,323	41	3
18-19 years	2,151	52	1,212	39	937	34	3
Unknown	425		58		18		349
Total [†]	17,998	203	9,235	129	8,400	122	364

[†] Estimates may not add to the total because of rounding.

Table 2.5 National estimates of **household youth** less than 20 years of age on Hispanic farms by sex and type of farm, 2000

	Total [†]		Male	;	Femal	Unknown	
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	8,109	146	4,269	92	3,790	85	51
Grain and oil seed	1,691	68	869	41	819	41	3
Tobacco	238	26	129	17	109	15	0
Cotton	350	33	200	21	150	20	0
Vegetable and melon	881	54	475	35	379	28	27
Fruit, nut, and berry	2,366	78	1,223	49	1,134	45	10
Nursery and floriculture	703	46	323	26	369	28	12
Other crop	1,879	76	1,050	49	830	43	0
All livestock	9,037	156	4,679	96	4,328	93	30
Beef	6,558	132	3,371	80	3,172	79	16
Dairy	817	59	429	35	388	3	0
Hog	202	27	100	17	99	15	3
Sheep and goat	341	30	190	20	146	16	5
Equine	646	42	318	26	321	24	7
Poultry and egg	202	27	119	18	83	14	0
All other livestock*	270		152		119		0
Unknown	851		287		281		282
Total [†]	17,998	203	9,235	129	8,400	122	364

[†] Estimates may not add to the total because of rounding.

^{*} All other livestock includes "Aquaculture" and "Other livestock" farms.

Table 2.6 National estimates of household youth less than 20 years of age on Hispanic farms by age and type of farm, 2000

	Total	†	<10 year	ars	10-11 ye	ars	12-13 ye	ars
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se
All crop	8,109	146	2,805	78	935	33	992	35
Grain and oil seed	1,691	68	537	35	173	15	215	16
Tobacco	238	26	84	15	35	7	36	7
Cotton	350	33	163	20	36	7	43	8
Vegetable and melon	881	54	329	28	95	10	101	11
Fruit, nut, and berry	2,366	78	811	39	323	19	291	18
Nursery and floriculture	703	46	272	25	81	10	77	10
Other crop	1,879	76	610	39	193	16	229	17
All livestock	9,037	156	3,037	85	919	35	1,134	39
Beef	6,558	132	2,282	73	709	31	838	33
Dairy	817	59	275	31	61	9	92	12
Hog	202	27	62	14	26	6	30	6
Sheep and goat	341	30	96	15	21	5	43	8
Equine	646	42	164	18	68	10	74	10
Poultry and egg	202	27	73	13	19	6	27	6
All other livestock*	270		86		15		30	
Unknown	851		173		40		107	
Total [†]	17,998	203	6,015	114	1,894	48	2,232	52

	14-15 y€	ears	16-17 years		18-19 years		Unknown
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	1,134	38	1,190	38	974	35	80
Grain and oil seed	245	17	272	19	225	17	25
Tobacco	25	6	28	6	31	7	0
Cotton	47	18	55	8	8	3	0
Vegetable and melon	115	12	119	12	93	11	29
Fruit, nut, and berry	316	19	308	18	315	19	2
Nursery and floriculture	84	10	112	13	65	9	12
Other crop	304	21	296	19	236	18	11
All livestock	1,256	41	1,539	46	1,104	38	50
Beef	892	35	1,046	38	765	32	28
Dairy	102	13	167	16	120	13	0
Hog	21	5	38	7	23	5	3
Sheep and goat	57	9	76	10	44	8	5
Equine	116	13	113	13	97	12	14
Poultry and egg	19	5	38	7	27	6	0
All other livestock*	50		61		28		0
Unknown	74		89		74		295
Total †	2,463	56	2,818	59	2,151	52	425

[†] Estimates may not add to the total because of rounding.
* All other livestock includes "Aquaculture" and "Other livestock" farms.

Table 2.7 National estimates of **household youth** less than 20 years of age on Hispanic farms by age, sex, and type of farm, 2000

<10 years										
	Total	†	Male		Femal	е	Unknown			
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate			
All crop	2,805	78	1,508	51	1,292	46	5			
Grain and oil seed	537	35	298	24	237	24	3			
Tobacco	84	15	48	5	36	7	0			
Cotton	163	20	90	13	73	12	0			
Vegetable and melon	329	28	194	19	135	15	0			
Fruit, nut, and berry	811	39	421	25	388	24	2			
Nursery and floriculture	272	25	131	15	141	15	0			
Other crop	610	39	327	25	284	23	0			
All livestock	3,037	85	1,545	53	1,492	51	0			
Beef	2,282	73	1,135	45	1,147	44	0			
Dairy	275	31	159	20	117	16	0			
Hog	62	14	28	7	34	9	0			
Sheep and goat	96	15	52	9	44	9	0			
Equine	164	18	76	10	88	12	0			
Poultry and egg	73	13	43	8	31	8	0			
All other livestock*	86		53		33		0			
Unknown	173		71		102		0			
Total †	6,015	114	3,124	73	2,886	69	5			

		10-	15 years				
	Total	Ť	Male	!	Femal	е	Unknown
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	3,061	74	1,613	49	1,446	47	2
Grain and oil seed	632	34	309	21	323	23	0
Tobacco	95	14	52	10	43	8	0
Cotton	126	16	74	10	52	9	0
Vegetable and melon	311	24	160	15	151	15	0
Fruit, nut, and berry	930	40	498	28	430	24	2
Nursery and floriculture	242	21	127	14	115	14	0
Other crop	725	39	393	26	332	24	0
All livestock	3,308	78	1,612	50	1,694	51	3
Beef	2,438	67	1,191	43	1,245	44	3
Dairy	255	24	113	15	142	16	0
Hog	76	13	38	8	39	8	0
Sheep and goat	121	16	69	11	52	9	0
Equine	258	23	119	15	139	16	0
Poultry and egg	64	12	35	8	29	7	0
All other livestock*	96		48		48		0
Unknown	220		124		96		0
Total †	6,589	105	3,349	70	3,236	69	5
							Continued

Table 2.7 National estimates of **household youth** less than 20 years of age on Hispanic farms by age, sex, and type of farm, 2000 (Continued)

16-19 years									
	Total [†]		Male		Female		Unknown		
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate		
All crop	2,163	57	1,117	39	1,044	37	2		
Grain and oil seed	497	28	243	18	254	19	0		
Tobacco	59	10	29	6	31	7	0		
Cotton	62	9	36	7	26	6	0		
Vegetable and melon	212	18	119	14	93	11	0		
Fruit, nut, and berry	623	29	304	20	316	20	2		
Nursery and floriculture	178	18	65	10	113	13	0		
Other crop	533	29	322	22	211	17	0		
All livestock	2,643	66	1,504	47	1,136	42	3		
Beef	1,810	54	1,033	39	775	35	3		
Dairy	287	26	158	18	130	16	0		
Hog	61	10	34	8	27	6	0		
Sheep and goat	120	14	69	10	51	8	0		
Equine	211	19	119	14	92	12	0		
Poultry and egg	65	10	41	8	24	6	0		
All other livestock*	89		51		38		0		
Unknown	163		83		81		0		
Total †	4,969	86	2,704	61	2,260	56	5		

[†] Estimates may not add to the total because of rounding.

Table 2.8 National estimates of **household youth** less than 20 years of age on Hispanic farms by work status and sex, 2000

	Total [†]		Workir	Working		Non-Working	
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	9,235	129	4,843	91	4,372	88	20
Female	8,400	122	3,076	74	5,311	96	12
Unknown	364		2		35		327
Total [†]	17,998	203	7,921	131	9,717	148	360

[†] Estimates may not add to the total because of rounding.

^{*} All other livestock includes "Aquaculture" and "Other livestock" farms.

Table 2.9 National estimates of **household youth** less than 20 years of age on Hispanic farms by work status and age, 2000

	Total [†]		Workir	ng	Non-Working		Unknown
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	6,015	114	1,099	45	4,910	100	5
10-15 years	6,589	105	3,778	80	2,809	68	3
10-11 years	1,894	48	886	33	1,008	35	0
12-13 years	2,232	52	1,282	40	947	35	3
14-15 years	2,463	56	1,610	45	854	33	0
16-19 years	4,969	86	3,010	67	1,944	53	15
16-17 years	2,818	59	1,794	48	1,014	36	10
18-19 years	2,151	52	1,216	39	930	34	5
Unknown	425		34		54		336
Total †	17,998	203	7,921	131	9,717	148	360

[†] Estimates may not add to the total because of rounding.

Table 2.10 National estimates of **household youth** less than 20 years of age on Hispanic farms by age, work status, and sex, 2000

<10 years										
	Total	t	Workir	ng	Non-Wor	Non-Working				
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate			
Male	3,124	73	661	32	2,461	64	3			
Female	2,886	69	439	25	2,444	62	3			
Unknown	5		0		5		0			
Total [†]	6,015	114	1,099	45	4,910	100	5			
10-15 years										
	Total [†]		Workir	Working		Non-Working				
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate			
Male	3,349	70	2,177	57	1,169	41	3			
Female	3,236	69	1,601	50	1,635	49	0			
Unknown	5		0		5		0			
Total [†]	6,589	105	3,778	80	2,809	68	3			
			16-19 years							
	Total	†	Working		Non-Working		Unknown			
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate			
Male	2,704	61	1,979	52	717	32	3			
Female	2,260	56	1,031	38	1,222	41	8			
Unknown	5		0		5		0			
Total [†]	4,969	86	3,010	67	1,944	53	15			

[†] Estimates may not add to the total because of rounding.

Table 2.11 National estimates of **household youth** less than 20 years of age on Hispanic farms by whether they rode a horse and sex, 2000

	Total	t	Rode a Hor	se: Yes	Rode a Hor	Unknown	
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	9,235	129	2,675	70	6,535	101	25
Female	8,400	122	2,652	71	5,736	101	12
Unknown	364		5		15		344
Total [†]	17,998	203	5,331	115	12,285	170	382

[†] Estimates may not add to the total because of rounding.

Table 2.12 National estimates of **household youth** less than 20 years of age on Hispanic farms by whether they rode a horse and age, 2000

	Total	†	Rode a Hors	se: Yes	Rode a Hor	se: No	Unknown
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	6,015	114	1,450	53	4,557	99	8
10-15 years	6,589	105	2,331	66	4,253	85	5
10-11 years	1,894	48	697	30	1,194	38	3
12-13 years	2,232	52	721	31	1,509	44	3
14-15 years	2,463	56	914	35	1,550	44	0
16-19 years	4,969	86	1,533	49	3,421	72	15
16-17 years	2,818	59	897	34	1,911	49	10
18-19 years	2,151	52	636	29	1,510	44	5
Unknown	425		17		54		353
Total †	17,998	203	5,331	115	12,285	170	382

[†] Estimates may not add to the total because of rounding.

Table 2.13 National estimates of **household youth** less than 20 years of age on Hispanic farms by age, whether they rode a horse, and sex, 2000

			<10 years				
	Total	t	Rode a Hors	se: Yes	Rode a Hor	se: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	3,124	73	723	34	2,396	65	5
Female	2,886	69	727	33	2,156	59	3
Unknown	5		0		5		0
Total [†]	6,015	114	1,450	53	4,557	99	8
			10-15 years				
	Total	†	Rode a Hors	se: Yes	Rode a Hor	se: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	3,349	70	1,106	42	2,238	57	5
Female	3,236	69	1,225	44	2,010	54	0
Unknown	5		0		5		0
Total [†]	6,589	105	2,331	66	4,253	85	5
			16-19 years				
	Total	t	Rode a Hors	se: Yes	Rode a Hor	se: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	2,704	61	836	34	1,860	51	8
Female	2,260	56	697	32	1,556	46	8
Unknown	5		0		5		0
Total [†]	4,969	86	1,533	49	3,421	72	15

[†] Estimates may not add to the total because of rounding.

Table 2.14 National estimates of **household youth** less than 20 years of age on Hispanic farms by whether they drove an all-terrain vehicle (ATV) and sex, 2000

	Total	Total [†]		Drove an ATV: Yes		Drove an ATV: No		
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate	
Male	9,235	129	2,909	69	5,366	100	960	
Female	8,400	122	1,960	58	5,565	100	874	
Unknown	364		3		13		349	
Total [†]	17,998	203	4,871	101	10,944	160	2,183	

[†] Estimates may not add to the total because of rounding.

Table 2.15 National estimates of **household youth** less than 20 years of age on Hispanic farms by whether they drove an all-terrain vehicle (ATV) and age, 2000

	Total	†	Drove an AT	V: Yes	Drove an A	TV: No	Unknown
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	6,015	114	595	31	3,686	81	1,735
10-15 years	6,589	105	2,347	63	4,235	87	8
10-11 years	1,894	48	572	27	1,319	41	3
12-13 years	2,232	52	789	32	1,438	43	5
14-15 years	2,463	56	986	36	1,478	44	0
16-19 years	4,969	86	1,930	54	3,024	68	15
16-17 years	2,818	59	1,096	37	1,709	47	13
18-19 years	2,151	52	834	33	1,315	41	2
Unknown	425		0		0		0
Total †	17,998	203	4,871	101	10,944	160	2,183

[†] Estimates may not add to the total because of rounding.

Table 2.16 National estimates of **household youth** less than 20 years of age on Hispanic farms by age, whether they drove an all-terrain vehicle (ATV), and sex, 2000

			<10 years				
	Total	t	Drove an Al	V: Yes	Drove an A	TV: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	3,124	73	358	22	1,878	54	889
Female	2,886	69	237	18	1,803	52	846
Unknown	5		0		5		0
Total †	6,015	114	595	31	3,686	81	1,735
			10-15 years				
	Total	t	Drove an ATV: Yes [Drove an ATV: No		Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	3,349	70	1,308	43	2,035	56	5
Female	3,236	69	1,039	40	2,194	57	3
Unknown	5		0		5		0
Total †	6,589	105	2,347	63	4,235	87	8
			16-19 years				
	Total	t	Drove an Al	V: Yes	Drove an A	TV: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	2,704	61	1,243	41	1,453	47	8
Female	2,260	56	684	31	1,568	47	8
Unknown	5		3		2		0
Total [†]	4,969	86	1,930	54	3,024	68	15

[†] Estimates may not add to the total because of rounding.

Table 2.17 National estimates of **household youth** less than 20 years of age on Hispanic farms by whether they drove a tractor and sex, 2000

	Total	†	Drove a Trac	Drove a Tractor: Yes Drove a Tractor: No					
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate		
Male	9,235	129	3,146	18	5,132	94	957		
Female	8,400	122	1,265	46	6,260	103	874		
Unknown	364		0		15		349		
Total [†]	17,998	203	4,412	90	11,406	156	2,180		

[†] Estimates may not add to the total because of rounding.

Table 2.18 National estimates of **household youth** less than 20 years of age on Hispanic farms by whether they drove a tractor and age, 2000

	Total	†	Drove a Trac	Unknown			
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	6,015	114	205	18	4,076	85	1,735
10-15 years	6,589	105	1,916	55	4,666	87	8
10-11 years	1,894	48	356	21	1,555	44	3
12-13 years	2,232	52	610	38	1,617	45	5
14-15 years	2,463	56	970	35	1,493	43	0
16-19 years	4,969	86	2,291	58	2,665	62	13
16-17 years	2,818	59	1,249	40	1,559	45	10
18-19 years	2,151	52	1,042	36	1,106	37	2
Unknown	425		0		0		0
Total [†]	17,998	203	4,412	90	11,406	156	2,180

 $[\]mbox{\dag}$ Estimates may not add to the total because of rounding.

Table 2.19 National estimates of **household youth** less than 20 years of age on Hispanic farms by age, whether they drove a tractor, and sex, 2000

			<10 years				
	Total	t	Drove a Trac	ctor: Yes	Drove a Trac	ctor: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	3,124	73	149	16	2,087	56	889
Female	2,886	69	56	9	1,984	55	846
Unknown	5		0		5		0
Total [†]	6,015	114	205	19	4,076	85	1,735
			10-15 years				
	Total	t	Drove a Trac	ctor: Yes	Drove a Trac	ctor: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	3,349	70	1,296	43	2,047	55	5
Female	3,236	69	620	30	2,613	61	3
Unknown	5		0		5		0
Total [†]	6,589	105	1,916	55	4,666	87	8
			16-19 years				
	Total	t	Drove a Trac	ctor: Yes	Drove a Trac	ctor: No	Unknown
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	2,704	61	1,701	49	998	37	5
Female	2,260	56	590	29	1,663	48	8
Unknown	5		0		5		0
Total [†]	4,969	86	2,291	58	2,665	62	13

 $[\]mbox{\dag}$ Estimates may not add to the total because of rounding.

Table 2.20 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and relationship to the farm, 2000

	Total	†	Male		Femal	e
Relationship to Farm	Estimate	se	Estimate	se	Estimate	se
Household youth	259	20	179	16	71	10
Hired youth	17	5	***		***	
Visiting youth	91	11	***		***	
Relatives	58	9	41	7	17	4
Non-relatives	33	7	***		***	
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.21 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and relationship to the farm, 2000

	Total	†	<10 years		10-15 ye	10-15 years		16-19 years	
Relationship to Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Household youth	259	20	84	11	111	12	60	9	3
Hired youth	17	5	0		***		***		0
Visiting youth	91	11	46	8	***		***		2
Relatives	58	9	38	7	***		***		0
Non-relatives	33	7	8	3	15	4	7	3	2
Total [†]	366	23	131	14	136	13	94	11	5

[†] Estimates may not add to the total because of rounding.

Table 2.22 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and relationship to the farm, 2000

	Total [†]		Working		Non-Wor	king
Relationship to Farm	Estimate	se	Estimate	se	Estimate	se
Household youth	259	20	114	12	145	14
Hired youth	17	5	***		***	
Visiting youth	91	11	***		***	
Relatives	58	9	12	4	46	8
Non-relatives	33	7	***		***	
Total [†]	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

Table 2.23 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and Hispanic origin, 2000

	Total	†	Male)	Female	
Hispanic Origin	Estimate	se	Estimate	se	Estimate	se
Hispanic	289	21	216	17	74	10
Non-Hispanic	77	10	46	8	30	6
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.24 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and Hispanic origin, 2000

	Total	†	<10 years		10-15 years		16-19 years		Unknown
Hispanic Origin	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Hispanic	289	21	99	12	116	12	71	9	3
Non-Hispanic	77	10	31	7	20	5	23	5	2
Total [†]	366	23	131	14	136	13	94	11	5

[†] Estimates may not add to the total because of rounding.

Table 2.25 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and Hispanic origin, 2000

	Total	†	Workir	ng	Non-Working	
Hispanic Origin	Estimate se		Estimate	se	Estimate	se
Hispanic	289	21	124	13	165	15
Non-Hispanic	77	10	16	5	61	9
Total †	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

Table 2.26 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and age, 2000

	Total	†	Male)	Femal	e
Age	Estimate	se	Estimate	se	Estimate	se
<10 years	131	14	92	11	39	7
10-15 years	136	13	95	11	41	7
10-11 years	32	6	22	5	10	3
12-13 years	45	7	27	6	17	5
14-15 years	60	9	46	8	14	5
16-19 years	94	11	70	10	24	5
16-17 years	71	9	47	8	24	5
18-19 years	23	5	23	5	0	
Unknown	5		5		0	
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

Table 2.27 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and age, 2000

	Total	†	Workir	ng	Non-Wor	Non-Working	
Age	Estimate se		Estimate	se	Estimate	se	
<10 years	131	14	16	5	115	13	
10-15 years	136	13	55	9	81	10	
10-11 years	32	6	10	3	22	5	
12-13 years	45	7	18	5	27	5	
14-15 years	60	9	27	6	33	6	
16-19 years	94	11	67	9	27	6	
16-17 years	71	9	***		***		
18-19 years	23	5	***		***		
Unknown	5		3		3		
Total [†]	366	23	140	14	226	18	

[†] Estimates may not add to the total because of rounding.

Table 2.28 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and type of farm, 2000

	Total	†	Male	!	Femal	е
Type of Farm	Estimate	se	Estimate	se	Estimate	se
All crop	127	14	90	12	37	7
Grain and oil seed	47	9	35	8	12	4
Fruit, nut, and berry	25	5	***		***	
All other crop*	55		***		***	
All livestock	234	19	167	15	67	9
Beef	141	14	98	11	43	8
Dairy	16	5	***		***	
Hog	13	4	***		***	
Sheep and goat	31	8	***		***	
Equine	26	6	15	4	11	4
All other livestock**	8		***		***	
Unknown	5		5		0	
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.29 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and type of farm, 2000

	Total	†	<10 yea	ars	10-15 y€	ears	16-19 ye	ears
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se
All crop	127	14	46	8	53	8	26	6
Grain and oil seed	47	9	18	5	20	5	10	3
Fruit, nut, and berry	25	5	10	3	***		***	
All other crop*	55		18		***		***	
All livestock	234	19	85	11	83	10	63	9
Beef	141	14	54	9	55	8	30	6
Dairy	16	5	***		***		7	3
Hog	13	4	***		***		8	3
Sheep and goat	31	8	10	4	8	4	13	4
Equine	26	6	10	4	***		***	
All other livestock**	8		0		***		***	
Unknown	5		0		0		5	
Total †	366	23	131	14	136	13	94	11

[†] Estimates may not add to the total because of rounding.

Table 2.30 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and type of farm, 2000

	Total	†	Workir	ng	Non-Wor	king
Type of Farm	Estimate	se	Estimate	se	Estimate	se
All crop	127	14	38	7	90	11
Grain and oil seed	47	9	14	4	33	7
Fruit, nut, and berry	25	5	***		***	
All other crop*	55		***		***	
All livestock	234	19	100	12	134	14
Beef	141	14	50	8	91	11
Dairy	16	5	***		***	
Hog	13	4	***		***	
Sheep and goat	31	8	18	6	12	4
Equine	26	6	14	5	12	4
All other livestock**	8		***		***	
Unknown	5		3		2	
Total †	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.31 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and type of injury, 2000

	Total	t	Male	:	Fema	Female		
Type of Injury	Estimate	se	Estimate	se	Estimate	se		
Scrape, abrasion	37	7	29	6	8	3		
Bruise, contusion	51	8	38	7	13	4		
Sprain, strain	23	5	13	4	10	3		
Broken bone, fracture	70	9	44	8	25	6		
Cut, laceration	86	11	63	9	23	6		
Puncture, stab, jab	8	3	***		***			
Burn, blister, scald	18	5	***		***			
Multiple injuries	35	6	22	5	13	4		
All other injuries*	40		30		10			
Total [†]	366	23	262	19	104	12		

[†] Estimates may not add to the total because of rounding.

Table 2.32 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and type of injury, 2000

	Total [†]		<10 year	ars	10-15 ye	ears	16-19 ye	ears
Type of Injury	Estimate	se	Estimate	se	Estimate	se	Estimate	se
Scrape, abrasion	37	7	***		***		13	4
Bruise, contusion	51	8	20	5	20	5	10	4
Sprain, strain	23	5	0		10	4	12	4
Broken bone, fracture	70	9	26	6	31	6	7	3
Cut, laceration	86	11	38	7	33	6	15	4
Puncture, stab, jab	8	3	***		***		***	
Burn, blister, scald	18	5	10	3	***		***	
Multiple injuries	35	6	7	3	17	5	10	3
All other injuries*	40		10		12		18	
Total [†]	366	23	131	14	136	13	94	11

[†] Estimates may not add to the total because of rounding.

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.33 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and type of injury, 2000

	Total	†	Workir	ng	Non-Wor	king
Type of Injury	Estimate	se	Estimate	se	Estimate	se
Scrape, abrasion	37	7	11	4	25	6
Bruise, contusion	51	8	16	5	35	7
Sprain, strain	23	5	13	4	10	3
Broken bone, fracture	70	9	16	5	54	8
Cut, laceration	86	11	34	7	52	8
Puncture, stab, jab	8	3	***		***	
Burn, blister, scald	18	5	8	3	10	3
Multiple injuries	35	6	23	5	12	4
All other injuries*	40		***		***	
Total [†]	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

Table 2.34 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and body part injured, 2000

	Total	†	Male	!	Femal	е
Body Part Injured	Estimate	se	Estimate	se	Estimate	se
Head, skull	51	8	32	6	19	5
Face	37 7		***		***	
Shoulder, chest, back	25	6	15	4	10	3
Arm	56	8	38	7	18	5
Hand, wrist, fingers	54	8	39	7	15	4
Leg	58	9	46	8	13	4
Foot, ankle, toes	43	7	28	6	15	5
Multiple body parts	22	5	***		***	
All other body parts*	21		13		8	
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.35 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and body part injured, 2000

	Total	†	<10 year	ars	10-15 years		16-19 years	
Body Part Injured	Estimate	se	Estimate	se	Estimate	se	Estimate	se
Head, skull	51	8	22	5	19	5	10	3
Face	37	7	18	5	8	3	11	4
Shoulder, chest, back	25	6	***		***		13	4
Arm	56	8	26	6	***		***	
Hand, wrist, fingers	54	8	19	5	10	4	22	5
Leg	58	9	18	5	25	5	15	4
Foot, ankle, toes	43	7	8	3	24	5	10	4
Multiple body parts	22	5	10	3	***		***	
All other body parts*	21		***		***		***	
Total [†]	366	23	131	14	136	13	94	11

[†] Estimates may not add to the total because of rounding.

Table 2.36 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and body part injured, 2000

	Total [†]		Workir	ng	Non-Working	
Body Part Injured	Estimate	se	Estimate	se	Estimate	se
Head, skull	51	8	19	5	32	6
Face	37	7	14	5	23	5
Shoulder, chest, back	25	6	13	4	12	4
Arm	56	8	8	3	49	8
Hand, wrist, fingers	54	8	28	6	26	6
Leg	58	9	26	6	33	6
Foot, ankle, toes	43	7	13	4	30	6
Multiple body parts	22	5	8	3	14	4
All other body parts*	21		13		8	
Total [†]	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

Table 2.37 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by body part injured and type of injury, 2000

Body Part InjuredType of InjuryEstimateseHead, skullAll injury types518Scrape, abrasion73Bruise, contusion134Cut, laceration205Multiple injuries83FaceAll injury types377Scrape, abrasion124Cut, laceration124Shoulder, chest, backAll injury types256Bruise, contusion83Sprain, strain73ArmAll injury types568Fracture387Hand, wrist, fingersAll injury types548Cut, laceration205Multiple injuries73LegAll injury types589Bruise, contusion185Cut, laceration134Multiple injuries73Foot, ankle, toesAll injury types437Fracture124Cut, laceration83Multiple body partsAll injury types225Cut, laceration73All other body parts*All injury types21Total †All injury types36623			Total	
Scrape, abrasion 7 3 Bruise, contusion 13 4 Cut, laceration 20 5 Multiple injuries 8 3 Face All injury types 37 7 Scrape, abrasion 12 4 Cut, laceration 12 4 Cut, laceration 12 4 Cut, laceration 12 4 Shoulder, chest, back All injury types 25 6 Bruise, contusion 8 3 Sprain, strain 7 3 Arm All injury types 56 8 Fracture 38 7 Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21	Body Part Injured	Type of Injury	Estimate	se
Bruise, contusion	Head, skull	All injury types	51	8
Cut, laceration 20 5 Multiple injuries 8 3 Face All injury types 37 7 Scrape, abrasion 12 4 Cut, laceration 12 4 Shoulder, chest, back All injury types 25 6 Bruise, contusion 8 3 Sprain, strain 7 3 Arm All injury types 56 8 Fracture 38 7 Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts		Scrape, abrasion	7	3
Multiple injuries		Bruise, contusion	13	4
Face All injury types 37 7 Scrape, abrasion 12 4 Cut, laceration 12 4 Shoulder, chest, back All injury types 25 6 Bruise, contusion 8 3 Sprain, strain 7 3 Arm All injury types 56 8 Fracture 38 7 Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3		Cut, laceration	20	
Scrape, abrasion			8	3
Cut, laceration 12 4	Face	All injury types	37	7
Shoulder, chest, back All injury types 25 6 Bruise, contusion 8 3 Sprain, strain 7 3 Arm All injury types 56 8 Fracture 38 7 Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Scrape, abrasion	12	4
Bruise, contusion 8 3 Sprain, strain 7 3 3 Arm All injury types 56 8 Fracture 38 7 Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21 State of the property of the pr		Cut, laceration	12	4
Sprain, strain 7 3	Shoulder, chest, back	All injury types	25	6
Arm All injury types 56 8 Fracture 38 7 Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Bruise, contusion	8	3
Fracture 38 7		Sprain, strain	7	3
Hand, wrist, fingers All injury types 54 8 Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21	Arm	All injury types	56	8
Cut, laceration 20 5 Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Fracture	38	7
Multiple injuries 7 3 Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21	Hand, wrist, fingers	All injury types	54	8
Leg All injury types 58 9 Bruise, contusion 18 5 Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Cut, laceration	20	5
Bruise, contusion		Multiple injuries	7	
Cut, laceration 13 4 Multiple injuries 7 3 Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21	Leg	All injury types	58	9
Multiple injuries 7 3		Bruise, contusion	18	5
Foot, ankle, toes All injury types 43 7 Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Cut, laceration	13	4
Fracture 12 4 Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Multiple injuries	7	3
Cut, laceration 8 3 Multiple body parts All injury types 22 5 Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21	Foot, ankle, toes	All injury types	43	7
Multiple body partsAll injury types225Cut, laceration73Multiple injuries73All other body parts*All injury types21		Fracture	12	4
Cut, laceration 7 3 Multiple injuries 7 3 All other body parts* All injury types 21		Cut, laceration	8	
Multiple injuries 7 3 All other body parts* All injury types 21	Multiple body parts	2 2 2 1	22	5
All other body parts* All injury types 21		•	7	
±			7	3
Total [†] All injury types 366 23	All other body parts*	All injury types	21	
	Total †	All injury types	366	23

[†] Estimates may not add to the total because of rounding.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

Table 2.38 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and source of injury, 2000

	Total	t	Male	;	Fema	le
Source of Injury [‡]	Estimate	se	Estimate	se	Estimate	se
Chemicals (0)	10	3	***		***	
Containers (1)	10	3	10	3	0	
Machinery (3)	15	4	***		***	
Agricultural Machinery (31)	13	4	***		***	
Parts/Materials (4)	28	6	***		***	
Fasteners (42)	8	3	***		***	
Vehicle Parts (48)	15	4	***		***	
Trailers (483)	15	4	***		***	
Persons/Animals/Plants/Minerals (5)	75	10	42	7	33	6
Animals (51)	55	8	28	6	28	6
Cattle (5152)	10	3	***		***	
Dogs (5153)	8	3	8	3	0	
Horses (5154)	20	5	***		***	
Plants/Trees (58)	14	5	***		***	
Structures and Surfaces (6)	100	11	70	10	30	6
Floors/Walkways/Ground (62)	81	10	58	9	23	5
Building Floor (6221)	10	4	***		***	
Ground (623)	68	10	48	8	21	5
Other Structural Elements (63)	15	4	***		***	
Fences (632)	10	3	***		***	
Tools/Instruments/Equipment (7)	26	6	15	4	10	4
Nonpowered Handtools (71)	16	5	8	3	8	3
Knives (7124)	10	3	***		***	
Vehicles (8)	65	9	51	8	14	5
Highway Vehicles (82)	10	3	10	3	0	
Nonpowered Highway Vehicles (83)	7	3	***		***	
Bicycles (8312)	7	3	***		***	
Off-Road Vehicles (84)	35	7	26	6	10	4
All Terrain Vehicle (841)	25	6	15	4	10	4
Off-Road Vehicles n.e.c.* (849)	8	3	8	3	0	
Industrial Vehicles (85)	13	4	***		***	
Tractors (853)	13	4	***		***	
Other and Unknown Sources**	32		***		***	
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.39 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and source of injury, 2000

	Total	†	<10 year	ars	10-15 ye	ears	16-19 ye	ears	Unknown
Source of Injury [‡]	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Chemicals (0)	10	3	7	3	***		***		0
Containers (1)	10	3	0		***		***		0
Machinery (3)	15	4	8	3	0		7	3	0
Agricultural Machinery (31)	13	4	8	3	***		***		0
Parts/Materials (4)	28	6	8	3	10	3	10	4	0
Fasteners (42)	8	3	0		***		***		0
Vehicle Parts (48)	15	4	8	3	***		***		0
Trailers (483)	15	4	8	3	***		***		0
Persons/Animals/Plants/Minerals (5)	75	10	20	5	21	5	34	7	0
Animals (51)	55	8	18	5	18	5	20	5	0
Cattle (5152)	10	3	***		***		***		0
Dogs (5153)	8	3	8	3	0		0		0
Horses (5154)	20	5	***		10	4	***		0
Plants/Trees (58)	14	5	***		***		11	4	0
Structures and Surfaces (6)	100	11	45	8	40	7	13	4	2
Floors/Walkways/Ground (62)	81	10	38	7	33	6	8	3	2
Building Floor (6221)	10	4	***		***		0		0
Ground (623)	68	10	30	6	28	6	8	3	2
Other Structural Elements (63)	15	4	***		***		***		0
Fences (632)	10	3	***		***		***		0
Tools/Instruments/Equipment (7)	26	6	***		***		10	3	0
Nonpowered Handtools (71)	16	5	***		***		7	3	0
Knives (7124)	10	3	***		***		7	3	0
Vehicles (8)	65	9	15	4	43	7	7	3	0
Highway Vehicles (82)	10	3	***		***		***		0
Nonpowered Highway Vehicles (83)	7	3	***		***		***		0
Bicycles (8312)	7	3	***		***		***		0
Off-Road Vehicles (84)	35	7	***		30	6	***		0
All Terrain Vehicle (841)	25	6	***		22	5	***		0
Off-Road Vehicles n.e.c.* (849)	8	3	***		8	3	***		0
Industrial Vehicles (85)	13	4	***		***		***		0
Tractors (853)	13	4	***		***		***		0
Other and Unknown Sources**	32		16		10		8		3
Total [†]	366	23	131	14	136	13	94	11	5

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.40 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and source of injury, 2000

	Total	†	Worki	ng	Non-Wor	king
Source of Injury [‡]	Estimate	se	Estimate	se	Estimate	se
Chemicals (0)	10	3	***		***	
Containers (1)	10	3	10	3	0	
Machinery (3)	15	4	***		***	
Agricultural Machinery (31)	13	4	***		***	
Parts/Materials (4)	28	6	18	5	10	3
Fasteners (42)	8	3	***		***	
Vehicle Parts (48)	15	4	8	3	8	3
Trailers (483)	15	4	8	3	8	3
Persons/Animals/Plants/Minerals (5)	75	10	37	7	37	7
Animals (51)	55	8	23	5	32	6
Cattle (5152)	10	3	***		***	
Dogs (5153)	8	3	0		8	3
Horses (5154)	20	5	13	4	7	3
Plants/Trees (58)	14	5	14	5	0	
Structures and Surfaces (6)	100	11	16	5	84	10
Floors/Walkways/Ground (62)	81	10	8	3	73	10
Building Floor (6221)	10	4	0		10	4
Ground (623)	68	10	8	3	60	9
Other Structural Elements (63)	15	4	8	3	7	3
Fences (632)	10	3	***		***	
Tools/Instruments/Equipment (7)	26	6	13	4	13	4
Nonpowered Handtools (71)	16	5	***		***	
Knives (7124)	10	3	10	3	0	
Vehicles (8)	65	9	15	4	50	8
Highway Vehicles (82)	10	3	***		***	
Nonpowered Highway Vehicles (83)	7	3	0		7	3
Bicycles (8312)	7	3	0		7	3
Off-Road Vehicles (84)	35	7	***		***	
All Terrain Vehicle (841)	25	6	***		***	
Off-Road Vehicles n.e.c.* (849)	8	3	0		8	3
Industrial Vehicles (85)	13	4	***		***	
Tractors (853)	13	4	***		***	
Other and Unknown Sources**	32		16		21	
Total [†]	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.41 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by sex and type of injury event, 2000

	Total	†	Male	;	Fema	le
Type of Injury Event [‡]	Estimate	se	Estimate	se	Estimate	se
Contact With Objects (0)	95	11	72	10	22	5
Contact With Object Unspecified (00)	11	4	11	4	0	
Struck Against Object (01)	23	5	13	4	10	4
Against Stationary Object (012)	18	5	10	4	8	3
Struck by Object (02)	41	7	34	7	7	3
Struck by Slipping Handheld Object (0232)	10	3	***		***	
Caught in Objects (03)	17	4	***		***	
Caught in Running Machinery (031)	8	3	8	3	0	
Caught in Objects n.e.c.* (039)	10	3	***		***	
Falls (1)	96	11	68	10	28	6
Fall to Lower Level (11)	66	9	45	8	20	5
Fall to Lower Level n.e.c.* (119)	60	9	40	7	20	5
Fall on Same Level (13)	26	6	18	5	8	3
Fall to Floor/Walkway/Ground (131)	16	5	***		***	
Bodily Reaction/Exertion (2)	10	3	10	3	0	
Exposure to Substances/Environments (3)	23	5	15	4	7	3
Contact With Temperature Extremes (32)	10	3	***		***	
Contact With Hot Objects/Substance (323)	10	3	***		***	
Exposure Caustic/Allergenic Substance (34)	13	4	***		***	
Transportation Events (4)	71	10	53	8	17	5
Nonhighway Events (42)	68	9	50	8	17	5
Vehicle Struck Stationary Object (422)	11	4	0		11	4
Fall From Moving Vehicle (4231)	23	5	***		***	
Overturn (4233)	15	4	15	4	0	
Loss of Control (4234)	7	3	***		***	
Assaults and Violent Acts (6)	40	7	20	5	20	5
Assault by Animal (63)	40	7	20	5	20	5
Nonvenomous Bites (631)	8	3	8	3	0	
Assault by Animal n.e.c.* (639)	33	6	13	4	20	5
Other and Unknown Events**	32		24		8	
Total [†]	366	23	262	19	104	12

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.42 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by age and type of injury event, 2000

	Total	†	<10 year	ars	10-15 ye	ears	16-19 ye	ears	Unknown
Type of Injury Event [‡]	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Contact With Objects (0)	95	11	27	6	22	5	46	8	0
Contact With Object Unspecified (00)	11	4	***		***		***		0
Struck Against Object (01)	23	5	8	3	***		***		0
Against Stationary Object (012)	18	5	8	3	***		***		0
Struck by Object (02)	41	7	13	4	7	3	21	5	0
Struck by Slipping Handheld Object (0232)	10	3	***		***		7	3	0
Caught in Objects (03)	17	4	***		***		10	3	0
Caught in Running Machinery (031)	8	3	***		***		***		0
Caught in Objects n.e.c.* (039)	10	3	***		***		***		0
Falls (1)	96	11	40	7	41	7	13	4	2
Fall to Lower Level (11)	66	9	25	6	27	6	10	3	2
Fall to Lower Level n.e.c.* (119)	60	9	23	5	25	5	10	3	0
Fall on Same Level (13)	26	6	***		11	4	***		0
Fall to Floor/Walkway/Ground (131)	16	5	***		8	3	***		0
Bodily Reaction/Exertion (2)	10	3	***		***		***		0
Exposure to Substances/Environments (3)	23	5	12	4	***		***		0
Contact With Temperature Extremes (32)	10	3	8	3	***		***		0
Contact With Hot Objects/Substance (323)	10	3	8	3	***		***		0
Exposure Caustic/Allergenic Substance (34)	13	4	***		***		***		0
Transportation Events (4)	71	10	***		48	8	***		0
Nonhighway Events (42)	68	9	***		48	8	***		0
Vehicle Struck Stationary Object (422)	11	4	***		8	3	***		0
Fall From Moving Vehicle (4231)	23	5	***		18	5	***		0
Overturn (4233)	15	4	***		13	4	***		0
Loss of Control (4234)	7	3	***		***		***		0
Assaults and Violent Acts (6)	40	7	17	5	11	4	12	4	0
Assault by Animal (63)	40	7	17	5	11	4	12	4	0
Nonvenomous Bites (631)	8	3	8	3	0		0		0
Assault by Animal n.e.c.* (639)	33	6	10	3	11	4	12	4	0
Other and Unknown Events**	32		16		5		8		3
Total [†]	366	23	131	14	136	13	94	11	5

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.43 National estimates of **injuries to all youth** less than 20 years of age on Hispanic farms by work status and type of injury event, 2000

	Total	†	Workir	ng	Non-Wo	rking
Type of Injury Event [‡]	Estimate	se	Estimate	se	Estimate	se
Contact With Objects (0)	95	11	64	9	30	6
Contact With Object Unspecified (00)	11	4	***		***	
Struck Against Object (01)	23	5	11	4	13	4
Against Stationary Object (012)	18	5	8	3	10	4
Struck by Object (02)	41	7	31	6	11	4
Struck by Slipping Handheld Object (0232)	10	3	10	3	0	
Caught in Objects (03)	17	4	***		***	
Caught in Running Machinery (031)	8	3	8	3	0	
Caught in Objects n.e.c.* (039)	10	3	***		***	
Falls (1)	96	11	16	5	80	10
Fall to Lower Level (11)	66	9	8	3	58	9
Fall to Lower Level n.e.c.* (119)	60	9	8	3	53	8
Fall on Same Level (13)	26	6	8	4	17	4
Fall to Floor/Walkway/Ground (131)	16	5	***		***	
Bodily Reaction/Exertion (2)	10	3	***		***	
Exposure to Substances/Environments (3)	23	5	***		***	
Contact With Temperature Extremes (32)	10	3	***		***	
Contact With Hot Objects/Substance (323)	10	3	***		***	
Exposure Caustic/Allergenic Substance (34)	13	4	***		***	
Transportation Events (4)	71	10	24	6	47	7
Nonhighway Events (42)	68	9	24	6	44	7
Vehicle Struck Stationary Object (422)	11	4	***		***	
Fall From Moving Vehicle (4231)	23	5	***		***	
Overturn (4233)	15	4	8	3	7	3
Loss of Control (4234)	7	3	0		7	3
Assaults and Violent Acts (6)	40	7	18	5	22	5
Assault by Animal (63)	40	7	18	5	22	5
Nonvenomous Bites (631)	8	3	0		8	3
Assault by Animal n.e.c.* (639)	33	6	18	5	14	4
Other and Unknown Events**	32		11		21	
Total [†]	366	23	140	14	226	18

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.44 National estimates of injuries to household youth less than 20 years of age on Hispanic farms by sex and age, 2000

	Total	†	Male		Femal	е
Age	Estimate	se	Estimate	se	Estimate	se
<10 years	84	11	58	9	26	6
10-15 years	111	12	83	11	28	6
10-11 years	24	5	17	4	7	3
12-13 years	30	6	20	5	10	3
14-15 years	57	9	46	8	11	4
16-19 years	60	9	43	7	17	4
16-17 years	46	8	29	6	17	4
18-19 years	15	4	15	4	0	
Unknown	3		3		0	
Total †	259	19	188	16	71	10

[†] Estimates may not add to the total because of rounding.

Table 2.45 National estimates of injuries to household youth less than 20 years of age on Hispanic farms by work status and age, 2000

	Total [†]		Workir	ng	Non-Working	
Age	Estimate	se	Estimate	se	Estimate	se
<10 years	84	11	16	5	68	10
10-15 years	111	12	47	8	64	9
10-11 years	24	5	7	3	17	4
12-13 years	30	6	15	4	15	4
14-15 years	57	9	24	6	33	6
16-19 years	60	9	48	8	12	4
16-17 years	46	8	***		***	
18-19 years	15	4	***		***	
Unknown	3		3		0	
Total †	259	19	114	12	145	14

[†] Estimates may not add to the total because of rounding.

*** Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.46 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by sex and type of farm, 2000

	Total	†	Male		Femal	е
Type of Farm	Estimate	se	Estimate	se	Estimate	se
All crop	92	12	64	10	28	6
Grain and oil seed	38	8	31	7	7	3
Fruit, nut, and berry	15	4	***		***	
All other crop*	39		***		***	
All livestock	162	15	119	13	43	8
Beef	90	11	65	9	25	6
Dairy	13	4	***		***	
Sheep and goat	26	7	***		***	
Equine	22	6	15	4	7	3
All other livestock**	11		***		***	
Unknown	5		5		0	
Total †	259	19	188	16	71	10

[†] Estimates may not add to the total because of rounding.

Table 2.47 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by age and type of farm, 2000

	Total	†	<10 ye	ars	10-15 ye	ears	16-19 ye	ears	Unknown
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	92	12	33	6	46	8	12	4	0
Grain and oil seed	38	8	13	4	18	5	7	3	0
Fruit, nut, and berry	15	4	7	3	***		***		0
All other crop*	39		13		***		***		0
All livestock	162	15	51	9	66	9	43	7	3
Beef	90	11	25	6	43	7	20	5	3
Dairy	13	4	***		***		***		0
Sheep and goat	26	7	7	4	8	4	10	4	0
Equine	22	6	10	4	***		***		0
All other livestock**	11		***		***		***		0
Unknown	5		0		0		5		0
Total †	259	19	84	11	111	12	60	9	3

[†] Estimates may not add to the total because of rounding.

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.48 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by work status and type of farm, 2000

	Total	t	Workir	ng	Non-Wor	king
Type of Farm	Estimate	se	Estimate	se	Estimate	se
All crop	92	12	29	6	63	10
Grain and oil seed	38	8	12	4	26	6
Fruit, nut, and berry	15	4	***		***	
All other crop*	39		***		***	
All livestock	162	15	82	11	80	11
Beef	90	11	43	7	48	8
Dairy	13	4	***		***	
Sheep and goat	26	7	16	5	10	4
Equine	22	6	11	4	12	4
All other livestock**	11		***		***	
Unknown	5		3		2	
Total †	259	19	114	12	145	14

[†] Estimates may not add to the total because of rounding.

Table 2.49 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by sex and type of injury, 2000

	Total	†	Male		Femal	е
Type of Injury	Estimate	se	Estimate	se	Estimate	se
Scrape, abrasion	15	4	***		***	
Bruise, contusion	39	7	31	6	8	3
Sprain, strain	18	5	***		***	
Broken bone, fracture	49	8	31	6	18	5
Cut, laceration	63	9	48	8	15	4
Puncture, stab, jab	8	3	8	3	0	
Burn, blister, scald	10	3	10	3	0	
Multiple injuries	27	6	15	4	13	4
All other injuries*	30		20		10	
Total [†]	259	19	188	16	71	10

[†] Estimates may not add to the total because of rounding.

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.50 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by age and type of injury, 2000

	Total	†	<10 years		10-15 ye	ears	16-19 ye	ears	Unknown
Type of Injury	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Scrape, abrasion	15	4	8	3	***		***		0
Bruise, contusion	39	7	18	5	***		***		0
Sprain, strain	18	5	0		10	4	8	3	0
Broken bone, fracture	49	8	13	4	26	6	7	3	3
Cut, laceration	63	9	28	6	25	5	10	3	0
Puncture, stab, jab	8	3	***		***		***		0
Burn, blister, scald	10	3	***		***		***		0
Multiple injuries	27	6	7	3	13	4	7	3	0
All other injuries*	30		***		***		15		0
Total [†]	259	19	84	11	111	12	60	9	3

[†] Estimates may not add to the total because of rounding.

Table 2.51 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by work status and type of injury, 2000

-	Total	†	Workir	ng	Non-Wor	king
Type of Injury	Estimate	se	Estimate	se	Estimate	se
Scrape, abrasion	15	4	***		***	
Bruise, contusion	39	7	13	4	25	6
Sprain, strain	18	5	10	4	8	3
Broken bone, fracture	49	8	16	5	33	6
Cut, laceration	63	9	26	6	37	7
Puncture, stab, jab	8	3	***		***	
Burn, blister, scald	10	3	***		***	
Multiple injuries	27	6	20	5	7	3
All other injuries*	30		13		17	
Total [†]	259	19	114	12	145	14

[†] Estimates may not add to the total because of rounding.

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.52 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by sex and body part injured, 2000

	Total	†	Male	!	Femal	le
Body Part Injured	Estimate	se	Estimate	se	Estimate	se
Head, skull	21	5	12	4	8	4
Face	20	5	20	5	0	
Shoulder, chest, back	23	5	15	4	7	3
Arm	38	7	27	6	11	4
Hand, wrist, fingers	41	7	29	6	13	4
Leg	43	7	33	6	10	4
Foot, ankle, toes	38	7	26	6	12	4
Multiple body parts	15	4	***		***	
All other body parts*	21		***		***	
Total [†]	259	19	188	16	71	10

[†] Estimates may not add to the total because of rounding.

Table 2.53 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by age and body part injured, 2000

	Total	†	<10 years		10-15 ye	ears	16-19 ye	ears	Unknown
Body Part Injured	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Head, skull	21	5	10	3	11	4	0		0
Face	20	5	10	3	***		***		0
Shoulder, chest, back	23	5	***		***		10	4	0
Arm	38	7	***		18	5	***		0
Hand, wrist, fingers	41	7	14	4	10	3	14	4	3
Leg	43	7	10	4	20	5	13	4	0
Foot, ankle, toes	38	7	8	3	22	5	8	3	0
Multiple body parts	15	4	***		***		***		0
All other body parts*	21		***		13		***		0
Total †	259	19	84	11	111	12	60	9	3

[†] Estimates may not add to the total because of rounding.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.54 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by work status and body part injured, 2000

	Total	†	Workir	ng	Non-Wor	king
Body Part Injured	Estimate	se	Estimate	se	Estimate	se
Head, skull	21	5	11	4	10	3
Face	20	5	***		***	
Shoulder, chest, back	23	5	10	4	12	4
Arm	38	7	8	3	30	6
Hand, wrist, fingers	41	7	23	5	18	5
Leg	43	7	23	6	20	5
Foot, ankle, toes	38	7	13	4	25	6
Multiple body parts	15	4	***		***	
All other body parts*	21		13		7	
Total [†]	259	19	114	12	145	14

[†] Estimates may not add to the total because of rounding.

Table 2.55 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by body part injured and type of injury, 2000

		Total	
Body Part Injured	Type of Injury	Estimate	se
Head, skull	All injury types	21	5
	Cut, laceration	10	3
	Multiple injuries	8	3
Face	All injury types	20	5
	Cut, laceration	10	3
Shoulder, chest, back	All injury types	23	5
	Bruise, contusion	8	3
Arm	All injury types	38	7
	Fracture	26	6
Hand, wrist, fingers	All injury types	41	7
	Cut, laceration	15	4
Leg	All injury types	43	7
	Bruise, contusion	15	4
	Cut, laceration	13	4
Foot, ankle, toes	All injury types	38	7
	Fracture	12	4
	Cut, laceration	8	3
Multiple body parts	All injury types	15	4
	Multiple injuries	7	3
All other body parts*	All injury types	21	
Total †	All injury types	259	19
	J. J. 1910		

[†] Estimates may not add to the total because of rounding.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

Table 2.56 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by sex and source of injury, 2000

	Total	†	Male		Femal	е
Source of Injury [‡]	Estimate	se	Estimate	se	Estimate	se
Containers (1)	10	3	10	3	0	
Machinery (3)	13	4	***		***	
Agricultural Machinery (31)	11	4	***		***	
Parts/Materials (4)	14	4	***		***	
Vehicle Parts (48)	8	3	***		***	
Trailers (483)	8	3	***		***	
Persons/Animals/Plants/Minerals (5)	45	7	17	5	28	6
Animals (51)	35	6	12	4	22	5
Cattle (5152)	10	3	***		***	
Horses (5154)	18	5	***		***	
Plants/Trees (58)	8	3	***		***	
Structures and Surfaces (6)	62	9	50	8	13	4
Floors/Walkways/Ground (62)	50	8	40	7	10	3
Building Floor (6221)	10	4	***		***	
Ground (623)	37	7	***		***	
Other Structural Elements (63)	10	3	***		***	
Fences (632)	8	3	***		***	
Tools/Instruments/Equipment (7)	23	5	15	4	8	3
Nonpowered Handtools (71)	16	5	8	3	8	3
Knives (7124)	10	3	***		***	
Vehicles (8)	55	9	46	8	10	4
Highway Vehicles (82)	10	3	10	3	0	
Nonpowered Highway Vehicles (83)	7	3	***		***	
Bicycles (8312)	7	3	***		***	
Off-Road Vehicles (84)	28	6	20	5	7	4
All Terrain Vehicle (841)	20	5	13	4	7	4
Off-Road Vehicles n.e.c.* (849)	8	3	8	3	0	
Industrial Vehicles (85)	11	4	11	4	0	
Tractors (853)	11	4	11	4	0	
Other and Unknown Sources**	37		29		8	
Total [†]	259	19	188	16	71	10

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Chemicals," "Furniture and Fixtures," "Other Sources," and "Unknown Sources"

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.57 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by age and source of injury, 2000

	Total	†	<10 year	ars	10-15 ye	ears	16-19 ye	ears	Unknown
Source of Injury [‡]	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Containers (1)	10	3	***		7	3	***		0
Machinery (3)	13	4	8	3	***		***		0
Agricultural Machinery (31)	11	4	8	3	***		***		0
Parts/Materials (4)	14	4	***		***		***		0
Vehicle Parts (48)	8	3	***		***		***		0
Trailers (483)	8	3	***		***		***		0
Persons/Animals/Plants/Minerals (5)	45	7	***		21	5	***		0
Animals (51)	35	6	***		18	5	12	4	0
Cattle (5152)	10	3	***		***		***		0
Horses (5154)	18	5	***		10	4	***		0
Plants/Trees (58)	8	3	***		***		***		0
Structures and Surfaces (6)	62	9	30	6	25	5	8	3	0
Floors/Walkways/Ground (62)	50	8	25	6	20	5	***		0
Building Floor (6221)	10	4	***		***		***		0
Ground (623)	37	7	17	5	***		***		0
Other Structural Elements (63)	10	3	***		***		***		0
Fences (632)	8	3	***		***		***		0
Tools/Instruments/Equipment (7)	23	5	***		***		10	3	0
Nonpowered Handtools (71)	16	5	***		***		7	3	0
Knives (7124)	10	3	***		***		7	3	0
Vehicles (8)	55	9	***		38	7	***		0
Highway Vehicles (82)	10	3	***		***		***		0
Nonpowered Highway Vehicles (83)	7	3	***		***		***		0
Bicycles (8312)	7	3	***		***		***		0
Off-Road Vehicles (84)	28	6	***		25	6	***		0
All Terrain Vehicle (841)	20	5	***		17	4	***		0
Off-Road Vehicles n.e.c.* (849)	8	3	0		8	3	0		0
Industrial Vehicles (85)	11	4	***		***		***		0
Tractors (853)	11	4	***		***		***		0
Other and Unknown Sources**	37		15		10		8		3
Total [†]	259	19	84	11	111	12	60	9	3

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Chemicals," "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.58 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by work status and source of injury, 2000

	Total	†	Workir	ng	Non-Wor	king
Source of Injury [‡]	Estimate	se	Estimate	se	Estimate	se
Containers (1)	10	3	10	3	0	
Machinery (3)	13	4	***		***	
Agricultural Machinery (31)	11	4	***		***	
Parts/Materials (4)	14	4	***		***	
Vehicle Parts (48)	8	3	***		***	
Trailers (483)	8	3	***		***	
Persons/Animals/Plants/Minerals (5)	45	7	31	6	14	4
Animals (51)	35	6	23	5	12	3
Cattle (5152)	10	3	***		***	
Horses (5154)	18	5	***		***	
Plants/Trees (58)	8	3	8	3	0	
Structures and Surfaces (6)	62	9	10	4	52	8
Floors/Walkways/Ground (62)	50	8	***		***	
Building Floor (6221)	10	4	0		10	4
Ground (623)	37	7	***		***	
Other Structural Elements (63)	10	3	***		***	
Fences (632)	8	3	***		***	
Tools/Instruments/Equipment (7)	23	5	13	4	10	4
Nonpowered Handtools (71)	16	5	***		***	
Knives (7124)	10	3	***		***	
Vehicles (8)	55	9	13	4	42	7
Highway Vehicles (82)	10	3	***		***	
Nonpowered Highway Vehicles (83)	7	3	0		7	3
Bicycles (8312)	7	3	0		7	3
Off-Road Vehicles (84)	28	6	***		***	
All Terrain Vehicle (841)	20	5	***		***	
Off-Road Vehicles n.e.c.* (849)	8	3	0		8	3
Industrial Vehicles (85)	11	4	***		***	
Tractors (853)	11	4	***		***	
Other and Unknown Sources**	37		16		21	
Total [†]	259	19	114	12	145	14

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Chemicals," "Furniture and Fixtures," "Other Sources," and "Unknown Sources"

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.59 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by sex and type of injury event, 2000

	Total	†	Male	!	Fema	le
Type of Injury Event [‡]	Estimate	se	Estimate	se	Estimate	se
Contact With Objects (0)	71	9	53	8	18	5
Contact With Object Unspecified (00)	7	3	7	3	0	
Struck Against Object (01)	16	5	***		***	
Against Stationary Object (012)	13	4	***		***	
Struck by Object (02)	30	6	23	5	7	3
Struck by Slipping Handheld Object (0232)	10	3	***		***	
Caught in Objects (03)	15	4	***		***	
Caught in Running Machinery (031)	8	3	8	3	0	
Caught in Objects n.e.c.* (039)	7	3	***		***	
Falls (1)	65	9	50	8	15	4
Fall to Lower Level (11)	43	7	33	6	10	3
Fall to Lower Level n.e.c.* (119)	38	7	28	6	10	3
Fall on Same Level (13)	17	4	***		***	
Fall to Floor/Walkway/Ground (131)	7	3	7	3	0	
Bodily Reaction/Exertion (2)	10	3	10	3	0	
Exposure to Substances/Environments (3)	12	4	***		***	
Contact With Temperature Extremes (32)	7	3	***		***	
Contact With Hot Objects/Substance (323)	7	3	***		***	
Transportation Events (4)	54	9	41	7	13	5
Nonhighway Events (42)	54	9	41	7	13	5
Vehicle Struck Stationary Object (422)	11	4	0		11	4
Fall From Moving Vehicle (4231)	18	5	18	5	0	
Overturn (4233)	11	4	***		***	
Loss of Control (4234)	7	3	***		***	
Assaults and Violent Acts (6)	23	5	8	3	15	4
Assault by Animal (63)	23	5	8	3	15	4
Assault by Animal n.e.c.* (639)	23	5	8	3	15	4
Other and Unknown Events**	24		19		6	
Total [†]	259	19	188	16	71	10

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.60 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by age and type of injury event, 2000

	Total	†	<10 yea	ars	10-15 ye	ears	16-19 ye	ears	Unknown
Type of Injury Event [‡]	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
Contact With Objects (0)	71	9	22	6	19	5	30	6	0
Contact With Object Unspecified (00)	7	3	***		***		***		0
Struck Against Object (01)	16	5	***		***		***		0
Against Stationary Object (012)	13	4	***		***		***		0
Struck by Object (02)	30	6	***		***		15	4	0
Struck by Slipping Handheld Object (0232)	10	3	***		***		7	3	0
Caught in Objects (03)	15	4	***		***		7	3	0
Caught in Running Machinery (031)	8	3	***		***		***		0
Caught in Objects n.e.c.* (039)	7	3	***		***		***		0
Falls (1)	65	9	30	6	25	6	10	3	0
Fall to Lower Level (11)	43	7	18	5	18	5	8	3	0
Fall to Lower Level n.e.c.* (119)	38	7	15	4	15	4	8	3	0
Fall on Same Level (13)	17	4	10	3	***		***		0
Fall to Floor/Walkway/Ground (131)	7	3	***		***		***		0
Bodily Reaction/Exertion (2)	10	3	***		***		***		0
Exposure to Substances/Environments (3)	12	4	7	3	***		***		0
Contact With Temperature Extremes (32)	7	3	***		***		***		0
Contact With Hot Objects/Substance (323)	7	3	***		***		***		0
Transportation Events (4)	54	9	12	4	41	7	***		0
Nonhighway Events (42)	54	9	12	4	41	7	***		0
Vehicle Struck Stationary Object (422)	11	4	***		8	3	***		0
Fall From Moving Vehicle (4231)	18	5	***		15	4	***		0
Overturn (4233)	11	4	0		11	4	***		0
Loss of Control (4234)	7	3	***		***		***		0
Assaults and Violent Acts (6)	23	5	***		11	4	***		0
Assault by Animal (63)	23	5	***		11	4	***		0
Assault by Animal n.e.c.* (639)	23	5	***		11	4	***		0
Other and Unknown Events**	24		8		5		8		3
Total [†]	259	19	84	11	111	12	60	9	3

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses. * "n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.61 National estimates of **injuries to household youth** less than 20 years of age on Hispanic farms by work status and type of injury event, 2000

	Total	t	Workir	ng	Non-Wor	king
Type of Injury Event [‡]	Estimate	se	Estimate	se	Estimate	se
Contact With Objects (0)	71	9	48	8	23	5
Contact With Object Unspecified (00)	7	3	***		***	
Struck Against Object (01)	16	5	8	3	8	3
Against Stationary Object (012)	13	4	***		***	
Struck by Object (02)	30	6	22	5	8	3
Struck by Slipping Handheld Object (0232)	10	3	10	3	0	
Caught in Objects (03)	15	4	***		***	
Caught in Running Machinery (031)	8	3	8	3	0	
Caught in Objects n.e.c.* (039)	7	3	***		***	
Falls (1)	65	9	13	4	52	8
Fall to Lower Level (11)	43	7	8	3	36	7
Fall to Lower Level n.e.c.* (119)	38	7	8	3	30	6
Fall on Same Level (13)	17	4	***		***	
Fall to Floor/Walkway/Ground (131)	7	3	0		7	3
Bodily Reaction/Exertion (2)	10	3	***		***	
Exposure to Substances/Environments (3)	12	4	***		***	
Contact With Temperature Extremes (32)	7	3	***		***	
Contact With Hot Objects/Substance (323)	7	3	***		***	
Transportation Events (4)	54	9	19	5	35	6
Nonhighway Events (42)	54	9	19	5	35	6
Vehicle Struck Stationary Object (422)	11	4	***		***	
Fall From Moving Vehicle (4231)	18	5	***		***	
Overturn (4233)	11	4	***		***	
Loss of Control (4234)	7	3	0		7	3
Assaults and Violent Acts (6)	23	5	***		***	
Assault by Animal (63)	23	5	***		***	
Assault by Animal n.e.c.* (639)	23	5	***		***	
Other and Unknown Events**	24		11		13	
Total [†]	259	19	114	12	145	14

[†] Estimates may not add to the total because of rounding.

[‡] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.62 National estimates of **injury rates for all youth** less than 20 years of age on Hispanic farms by work status and relationship to the farm, 2000

	Tota	I	Working		Non-Woi	rking
Relationship to Farm	Rate/1000 se R		Rate/1000	se	Rate/1000	se
Household youth	14.38	1.10	14.39	1.53	8.06	0.78
Hired youth	3.25	0.98	***		***	
Visiting youth	0.34	0.04	***		***	
Relatives	0.46	0.07	1.23	0.41	0.37	0.06
Non-relatives	0.23	0.05	***		***	
Total	1.27	0.08	6.14	0.61	0.78	0.06

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.63 National estimates of **injury rates for all youth** less than 20 years of age on Hispanic farms by work status and type of farm, 2000

	Tota	l	Worki	ing	Non-Wo	rking
Type of Farm	Rate/1000	se	Rate/1000	se	Rate/1000	se
All crop	1.04	0.12	4.02	0.78	0.74	0.09
Grain and oil seed	1.57	0.30	8.04	2.22	1.08	0.23
Fruit, nut, and berry	0.81	0.18	***		***	
All other crop*	0.91		***		***	
All livestock	1.47	0.12	7.68	0.91	0.84	0.09
Beef	1.24	0.13	5.39	0.85	0.80	0.10
Dairy	1.17	0.35	***		***	
Hog	4.07	1.45	***		***	
Sheep and goat	4.47	1.23	32.06	10.78	1.80	0.66
Equine	1.78	0.45	15.34	5.20	0.82	0.29
All other livestock**	1.10		***		***	
Total	1.27	0.08	6.14	0.61	0.78	0.06

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.64 National estimates of **injury rates for all youth** less than 20 years of age on Hispanic farms by work status and type of injury, 2000

	Tota	Total		ng	Non-Working		
Type of Injury	Rate/1000	se	Rate/1000	se	Rate/1000	se	
Scrape, abrasion	0.13	0.02	0.50	0.19	0.09	0.02	
Bruise, contusion	0.18	0.03	0.68	0.20	0.12	0.02	
Sprain, strain	80.0	0.02	0.56	0.18	0.03	0.01	
Broken bone, fracture	0.24	0.03	0.69	0.20	0.19	0.03	
Cut, laceration	0.30	0.04	1.49	0.29	0.18	0.03	
Puncture, stab, jab	0.03	0.01	***		***		
Burn, blister, scald	0.06	0.02	0.35	0.14	0.03	0.01	
Multiple injuries	0.12	0.02	0.99	0.23	0.04	0.01	
All other injuries*	0.14		***		***		
Total	1.27	0.08	6.14	0.61	0.78	0.06	

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

Table 2.65 National estimates of **injury rates for all youth** less than 20 years of age on Hispanic farms by work status and body part injured, 2000

	Tota		Workii	ng	Non-Wo	rking
Body Part Injured	Rate/1000	se	Rate/1000	se	Rate/1000	se
Head, skull	0.18	0.03	0.83	0.23	0.11	0.02
Face	0.13	0.02	0.60	0.20	0.08	0.02
Shoulder, chest, back	0.09	0.02	0.56	0.18	0.04	0.01
Arm	0.20	0.03	0.33	0.13	0.17	0.03
Hand, wrist, fingers	0.19	0.03	1.23	0.26	0.09	0.02
Leg	0.20	0.03	1.12	0.25	0.11	0.02
Foot, ankle, toes	0.15	0.03	0.56	0.18	0.10	0.02
Multiple body parts	0.08	0.02	0.33	0.13	0.05	0.01
All other body parts*	0.07		0.59		0.03	
Total	1.27	0.08	6.14	0.61	0.78	0.06

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.66 National estimates of **injury rates for all youth** less than 20 years of age on Hispanic farms by work status and source of injury, 2000

	Tota	nl	Worki	ng	Non-Wo	rking
Source of Injury [†]	Rate/1000	se	Rate/1000	se	Rate/1000	se
Chemicals (0)	0.03	0.01	***		***	
Containers (1)	0.03	0.01	0.42	0.14	0.00	
Machinery (3)	0.05	0.02	***		***	
Agricultural Machinery (31)	0.05	0.01	***		***	
Parts/Materials (4)	0.10	0.02	0.80	0.22	0.03	0.01
Fasteners (42)	0.03	0.01	***		***	
Vehicle Parts (48)	0.05	0.02	0.34	0.14	0.03	0.01
Trailers (483)	0.05	0.02	0.34	0.14	0.03	0.01
Persons/Animals/Plants/Minerals (5)	0.26	0.03	1.64	0.32	0.13	0.02
Animals (51)	0.19	0.03	1.01	0.24	0.11	0.02
Cattle (5152)	0.03	0.01	***		***	
Dogs (5153)	0.03	0.01	0.00		0.03	0.01
Horses (5154)	0.07	0.02	0.57	0.18	0.03	0.01
Plants/Trees (58)	0.05	0.02	0.63	0.21	0.00	
Structures and Surfaces (6)	0.35	0.04	0.69	0.20	0.29	0.04
Floors/Walkways/Ground (62)	0.28	0.04	0.35	0.15	0.25	0.03
Building Floor (6221)	0.04	0.01	0.00		0.04	0.01
Ground (623)	0.24	0.03	0.35	0.15	0.21	0.03
Other Structural Elements (63)	0.05	0.01	0.34	0.14	0.02	0.01
Fences (632)	0.03	0.01	***		***	
Tools/Instruments/Equipment (7)	0.09	0.02	0.55	0.17	0.05	0.01
Nonpowered Handtools (71)	0.05	0.02	***		***	
Knives (7124)	0.03	0.01	0.44	0.15	0.00	
Vehicles (8)	0.23	0.03	0.67	0.19	0.17	0.03
Highway Vehicles (82)	0.03	0.01	***		***	
Nonpowered Highway Vehicles (83)	0.02	0.01	0.00		0.02	0.01
Bicycles (8312)	0.02	0.01	0.00		0.02	0.01
Off-Road Vehicles (84)	0.12	0.02	***		***	
All Terrain Vehicle (841)	0.09	0.02	***		***	
Off-Road Vehicles n.e.c.* (849)	0.03	0.01	0.00		0.03	0.01
Industrial Vehicles (85)	0.04	0.01	***		***	
Tractors (853)	0.04	0.01	***		***	
Other and Unknown Sources**	0.11		0.70		0.07	
Total	1.27	0.08	6.14	0.61	0.78	0.06

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.67 National estimates of **injury rates for all youth** less than 20 years of age on Hispanic farms by work status and type of injury event, 2000

	Tota	I	Worki	ng	Non-Wo	rking
Type of Injury Event †	Rate/1000	se	Rate/1000	se	Rate/1000	se
Contact With Objects (0)	0.33	0.04	2.82	0.40	0.11	0.02
Contact With Object Unspecified (00)	0.04	0.01	***		***	
Struck Against Object (01)	0.08	0.02	0.46	0.17	0.04	0.01
Against Stationary Object (012)	0.06	0.02	0.34	0.14	0.04	0.01
Struck by Object (02)	0.14	0.03	1.34	0.27	0.04	0.01
Struck by Slipping Handheld Object (0232)	0.03	0.01	0.43	0.15	0.00	
Caught in Objects (03)	0.06	0.02	***		***	
Caught in Running Machinery (031)	0.03	0.01	0.33	0.13	0.00	
Caught in Objects n.e.c.* (039)	0.03	0.01	***		***	
Falls (1)	0.33	0.04	0.70	0.21	0.28	0.04
Fall to Lower Level (11)	0.23	0.03	0.33	0.13	0.20	0.03
Fall to Lower Level n.e.c.* (119)	0.21	0.03	0.33	0.13	0.18	0.03
Fall on Same Level (13)	0.09	0.02	0.37	0.16	0.06	0.02
Fall to Floor/Walkway/Ground (131)	0.05	0.02	***		***	
Bodily Reaction/Exertion (2)	0.03	0.01	***		***	
Exposure to Substances/Environments (3)	0.08	0.02	***		***	
Contact With Temperature Extremes (32)	0.03	0.01	***		***	
Contact With Hot Objects/Substance (323)	0.03	0.01	***		***	
Exposure Caustic/Allergenic Substance (34)	0.04	0.01	***		***	
Transportation Events (4)	0.25	0.03	1.03	0.25	0.16	0.03
Nonhighway Events (42)	0.24	0.03	1.03	0.25	0.15	0.02
Vehicle Struck Stationary Object (422)	0.04	0.02	***		***	
Fall From Moving Vehicle (4231)	0.08	0.02	***		***	
Overturn (4233)	0.05	0.02	0.36	0.15	0.02	0.01
Loss of Control (4234)	0.03	0.01	0.00		0.03	0.01
Assaults and Violent Acts (6)	0.14	0.02	0.79	0.21	0.08	0.02
Assault by Animal (63)	0.14	0.02	0.79	0.21	0.08	0.02
Nonvenomous Bites (631)	0.03	0.01	0.00		0.03	0.01
Assault by Animal n.e.c.* (639)	0.11	0.02	0.79	0.21	0.05	0.01
Other and Unknown Events**	0.11		0.48		0.07	
Total	1.27	0.08	6.14	0.61	0.78	0.06

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.68 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by sex and age, 2000

	Tota	1	Male		Fema	le
Age	Rate/1000	se	Rate/1000	se	Rate/1000	se
<10 years	13.99	1.84	18.62	2.83	9.01	2.03
10-15 years	16.91	1.88	24.89	3.24	8.67	1.84
10-11 years	12.86	2.77	16.39	4.19	8.66	3.48
12-13 years	13.51	2.72	17.62	4.35	9.23	3.22
14-15 years	23.11	3.52	39.39	6.67	8.21	2.95
16-19 years	12.15	1.73	15.98	2.73	7.58	1.95
16-17 years	16.24	2.68	19.19	4.12	12.95	3.33
18-19 years	6.78	1.88	12.03	3.35	0.00	
Total	14.38	1.09	20.32	1.77	8.48	1.19

Table 2.69 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by work status and age, 2000

	Total		Working		Non-Wor	king
Age	Rate/1000	se	Rate/1000	se	Rate/1000	se
<10 years	13.99	1.84	14.31	4.17	11.38	1.67
10-15 years	16.91	1.88	12.43	2.22	9.78	1.32
10-11 years	12.86	2.77	8.44	3.34	8.91	2.28
12-13 years	13.51	2.72	12.07	3.49	6.58	1.83
14-15 years	23.11	3.52	14.92	3.61	13.36	2.59
16-19 years	12.15	1.73	15.95	2.57	2.48	0.76
16-17 years	16.24	2.68	***		***	
18-19 years	6.78	1.88	***		***	
Total	14.38	1.09	14.34	1.58	8.07	0.80

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.70 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by sex and type of farm, 2000

	Tota	ıl	Male	е	Fema	le
Type of Farm	Rate/1000	se	Rate/1000	se	Rate/1000	se
All crop	11.30	1.48	14.94	2.32	7.35	1.65
Grain and oil seed	22.43	4.79	35.24	8.73	8.90	3.49
Fruit, nut, and berry	6.21	1.70	***		***	
All other crop*	9.62		***		***	
All livestock	17.94	1.72	25.39	2.73	10.02	1.80
Beef	13.79	1.74	19.42	2.76	7.88	1.88
Dairy	16.16	5.32	***		***	
Sheep and goat	74.93	20.75	***		***	
Equine	34.57	8.89	46.87	13.86	23.11	9.34
All other livestock**	15.86		***		***	
Total	14.38	1.09	20.32	1.77	8.48	1.19

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

Table 2.71 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by age and type of farm, 2000

	Tota	al	<10 ye	ears	10-15 y	ears	16-19 y	ears/
Type of Farm	Rate/1000	se	Rate/1000	se	Rate/1000	se	Rate/1000	se
All crop	11.30	1.48	11.90	2.33	14.99	2.62	5.70	1.74
Grain and oil seed	22.43	4.79	24.34	7.94	27.91	8.34	14.54	5.59
Fruit, nut, and berry	6.22	1.69	8.96	3.34	***		***	
All other crop*	9.62		8.92		***		***	
All livestock	17.94	1.72	16.72	2.95	19.81	2.86	16.26	2.77
Beef	13.79	1.74	10.91	2.60	17.45	2.96	11.09	2.75
Dairy	16.16	5.32	***		***		***	
Sheep and goat	74.93	20.75	77.31	41.27	63.92	35.22	87.11	32.19
Equine	34.57	8.89	58.69	24.38	***		***	
All other livestock**	15.86		***		***		***	
Total	14.38	1.09	13.99	1.84	16.91	1.88	12.15	1.73

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

^{**} All other livestock includes "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{**} All other livestock includes "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.72 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by work status and type of farm, 2000

	Tota	al	Work	ing	Non-Wo	rking
Type of Farm	Rate/1000	se	Rate/1000	se	Rate/1000	se
All crop	11.30	1.48	9.20	1.99	7.72	1.18
Grain and oil seed	22.43	4.79	14.91	4.48	15.25	3.73
Fruit, nut, and berry	6.21	1.70	***		***	
All other crop*	9.62		***		***	
All livestock	17.94	1.72	17.86	2.32	8.87	1.18
Beef	13.79	1.74	13.73	2.34	7.25	1.21
Dairy	16.16	5.32	***		***	
Sheep and goat	74.93	20.75	70.03	24.71	29.03	12.39
Equine	34.57	8.89	28.01	10.30	18.24	6.42
All other livestock**	15.86		***		***	
Total	14.38	1.09	14.34	1.58	8.07	0.80

^{*} All other crop includes "Tobacco," "Cotton," "Vegetable and melon," "Nursery and floriculture," and "Other crop" farms.

Table 2.73 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by sex and type of injury, 2000

	Tota	I	Male	•	Fema	le
Type of Injury	Rate/1000	se	Rate/1000	se	Rate/1000	se
Scrape, abrasion	0.86	0.25	***		***	
Bruise, contusion	2.15	0.39	3.30	0.67	0.97	0.41
Sprain, strain	1.00	0.27	***		***	
Broken bone, fracture	2.71	0.44	3.35	0.68	2.12	0.56
Cut, laceration	3.50	0.50	5.16	0.86	1.83	0.52
Puncture, stab, jab	0.45	0.19	0.87	0.37	0.00	
Burn, blister, scald	0.56	0.19	1.09	0.38	0.00	
Multiple injuries	1.52	0.31	1.57	0.43	1.52	0.48
All other injuries*	1.64		2.16		1.15	
Total	14.38	1.09	20.32	1.77	8.48	1.19

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{**} All other livestock includes "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.74 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by age and type of injury, 2000

	Total		<10 years		10-15 ye	ears	16-19 ye	ears
Type of Injury	Rate/1000	se	Rate/1000	se	Rate/1000	se	Rate/1000	se
Scrape, abrasion	0.86	0.25	1.35	0.57	***		***	
Bruise, contusion	2.15	0.39	2.95	0.78	***		***	
Sprain, strain	1.00	0.27	0.00		1.58	0.56	1.53	0.61
Broken bone, fracture	2.71	0.44	2.15	0.68	3.88	0.86	1.48	0.56
Cut, laceration	3.50	0.50	4.68	1.06	3.76	0.82	2.02	0.70
Puncture, stab, jab	0.45	0.19	***		***		***	
Burn, blister, scald	0.56	0.19	***		***		***	
Multiple injuries	1.52	0.31	1.22	0.48	1.91	0.59	1.48	0.58
All other injuries*	1.64		***		***		3.02	
Total	14.38	1.09	13.99	1.84	16.91	1.88	12.15	1.73

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

Table 2.75 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by work status and type of injury, 2000

	Tota	I	Workir	ng	Non-Wor	king
Type of Injury	Rate/1000	se	Rate/1000	se	Rate/1000	se
Scrape, abrasion	0.86	0.25	***		***	
Bruise, contusion	2.15	0.39	1.67	0.54	1.41	0.31
Sprain, strain	1.00	0.27	***		***	
Broken bone, fracture	2.71	0.44	1.99	0.58	1.83	0.35
Cut, laceration	3.50	0.50	3.25	0.73	2.07	0.39
Puncture, stab, jab	0.45	0.19	***		***	
Burn, blister, scald	0.56	0.19	***		***	
Multiple injuries	1.52	0.31	2.53	0.62	0.40	0.15
All other injuries*	1.64		1.60		0.94	
Total	14.38	1.09	14.34	1.58	8.07	0.80

^{*} All other injuries includes "Dislocation," "Traumatic rupture," "Crushed," "Amputation," "Nerve injury," and "Other injury."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.76 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by sex and body part injured, 2000

	Tota		Male	;	Fema	le
Body Part Injured	Rate/1000	Rate/1000 se Rate/1000 se Rate		Rate/1000	se	
Head, skull	1.14	0.28	1.33	0.40	0.98	0.42
Face	1.09	0.27	2.13	0.03	0.00	
Shoulder, chest, back	1.27	0.29	1.67	0.48	0.89	0.35
Arm	2.11	0.38	2.97	0.61	1.25	0.45
Hand, wrist, fingers	2.29	0.40	3.10	0.66	1.49	0.47
Leg	2.40	0.41	3.57	0.69	1.21	0.42
Foot, ankle, toes	2.10	0.39	2.77	0.61	1.47	0.51
Multiple body parts	0.82	0.23	***		***	
All other body parts*	1.16		***		***	
Total	14.38	1.09	20.32	1.77	8.48	1.19

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

Table 2.77 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by age and body part injured, 2000

	Total		<10 year	ars 10-15		ears	16-19 ye	ears
Body Part Injured	Rate/1000	se	Rate/1000	se	Rate/1000	se	Rate/1000	se
Head, skull	1.14	0.28	1.64	0.56	1.61	0.58	0.00	
Face	1.09	0.27	1.63	0.56	***		***	
Shoulder, chest, back	1.27	0.29	***		***		2.07	0.73
Arm	2.11	0.38	***		2.70	0.72	***	
Hand, wrist, fingers	2.29	0.40	2.29	0.75	1.52	0.53	2.91	0.80
Leg	2.40	0.41	1.68	0.59	3.06	0.75	2.59	0.81
Foot, ankle, toes	2.10	0.39	1.34	0.55	3.33	0.75	1.58	0.65
Multiple body parts	0.82	0.23	***		***		***	
All other body parts*	1.16		***		2.01		***	
Total	14.38	1.09	13.99	1.84	16.91	1.88	12.15	1.73

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.78 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by work status and body part injured, 2000

	Tota		Workir	ng	Non-Wor	king
Body Part Injured	Rate/1000	se	Rate/1000	se	Rate/1000	se
Head, skull	1.14	0.28	1.36	0.49	0.54	0.18
Face	1.09	0.27	***		***	
Shoulder, chest, back	1.27	0.29	1.32	0.47	0.69	0.21
Arm	2.11	0.38	0.95	0.38	1.69	0.34
Hand, wrist, fingers	2.29	0.40	2.88	0.67	1.02	0.27
Leg	2.40	0.41	2.95	0.70	1.10	0.27
Foot, ankle, toes	2.10	0.39	1.61	0.50	1.39	0.33
Multiple body parts	0.82	0.23	***		***	
All other body parts*	1.16		1.69		0.42	
Total	14.38	1.09	14.34	1.58	8.07	0.80

^{*} All other body parts includes "Neck," "Abdomen," "Pelvic region," "Internal injury," and "Other body parts." *** Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.79 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by sex and source of injury, 2000

	Tota	ıl	Male)	Fema	le
Source of Injury †	Rate/1000	se	Rate/1000	se	Rate/1000	se
Containers (1)	0.54	0.18	1.04	0.34	0.00	
Machinery (3)	0.72	0.23	***		***	
Agricultural Machinery (31)	0.58	0.21	***		***	
Parts/Materials (4)	0.77	0.25	***		***	
Vehicle Parts (48)	0.46	0.19	***		***	
Trailers (483)	0.46	0.19	***		***	
Persons/Animals/Plants/Minerals (5)	2.52	0.41	1.88	0.49	3.33	0.70
Animals (51)	1.93	0.36	1.35	0.42	2.65	0.61
Cattle (5152)	0.53	0.17	***		***	
Horses (5154)	0.99	0.26	***		***	
Plants/Trees (58)	0.45	0.19	***		***	
Structures and Surfaces (6)	3.45	0.49	5.37	0.86	1.49	0.46
Floors/Walkways/Ground (62)	2.77	0.45	4.32	0.79	1.18	0.41
Building Floor (6221)	0.56	0.20	***		***	
Ground (623)	2.07	0.39	***		***	
Other Structural Elements (63)	0.55	0.19	***		***	
Fences (632)	0.42	0.17	***		***	
Tools/Instruments/Equipment (7)	1.28	0.30	1.65	0.47	0.92	0.38
Nonpowered Handtools (71)	0.87	0.25	0.87	0.36	0.92	0.38
Knives (7124)	0.56	0.19	***		***	
Vehicles (8)	3.08	0.48	4.96	0.82	1.16	0.48
Highway Vehicles (82)	0.56	0.19	1.09	0.37	0.00	
Nonpowered Highway Vehicles (83)	0.40	0.15	***		***	
Bicycles (8312)	0.40	0.15	***		***	
Off-Road Vehicles (84)	1.54	0.35	2.20	0.54	0.88	0.45
All Terrain Vehicle (841)	1.11	0.30	1.36	0.42	0.88	0.45
Off-Road Vehicles n.e.c.* (849)	0.43	0.18	0.85	0.35	0.00	
Industrial Vehicles (85)	0.59	0.21	1.15	0.41	0.00	
Tractors (853)	0.59	0.21	1.15	0.41	0.00	
Other and Unknown Sources**	1.76		2.83		0.66	
Total	14.38	1.09	20.32	1.77	8.48	1.19

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Chemicals," "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

	Tota	ıl	<10 ye	ars	10-15 y	ears	16-19 ye	ears
Source of Injury †	Rate/1000	se	Rate/1000	se	Rate/1000	se	Rate/1000	se
Containers (1)	0.54	0.18	***		1.10	0.42	***	
Machinery (3)	0.72	0.23	1.36	0.57	***		***	
Agricultural Machinery (31)	0.58	0.21	1.36	0.57	***		***	
Parts/Materials (4)	0.77	0.25	***		***		***	
Vehicle Parts (48)	0.46	0.19	***		***		***	
Trailers (483)	0.46	0.19	***		***		***	
Persons/Animals/Plants/Minerals (5)	2.52	0.41	***		3.15	0.80	***	
Animals (51)	1.93	0.36	***		2.68	0.71	***	
Cattle (5152)	0.53	0.17	***		***		***	
Horses (5154)	0.99	0.26	***		1.55	0.55	***	
Plants/Trees (58)	0.45	0.19	***		***		***	
Structures and Surfaces (6)	3.45	0.49	4.94	1.06	3.75	0.81	1.54	0.62
Floors/Walkways/Ground (62)	2.77	0.45	4.11	0.97	***		***	
Building Floor (6221)	0.56	0.20	***		***		***	
Ground (623)	2.07	0.39	2.84	0.82	***		***	
Other Structural Elements (63)	0.55	0.19	***		***		***	
Fences (632)	0.42	0.17	***		***		***	
Tools/Instruments/Equipment (7)	1.28	0.30	***		***		2.02	0.70
Nonpowered Handtools (71)	0.87	0.25	***		***		1.49	0.59
Knives (7124)	0.56	0.19	***		***		1.49	0.59
Vehicles (8)	3.08	0.48	***		5.81	1.05	***	
Highway Vehicles (82)	0.56	0.19	***		***		***	
Nonpowered Highway Vehicles (83)	0.40	0.15	***		***		***	
Bicycles (8312)	0.40	0.15	***		***		***	
Off-Road Vehicles (84)	1.54	0.35	***		3.83	0.84	***	
All Terrain Vehicle (841)	1.11	0.30	***		2.65	0.68	***	
Off-Road Vehicles n.e.c.* (849)	0.43	0.18	0.00		1.19	0.49	0.00	
Industrial Vehicles (85)	0.59	0.21	***		***		***	
Tractors (853)	0.59	0.21	***		***		***	
Other and Unknown Sources**	1.76		1.74		1.55		1.63	
Total	14.38	1.09	13.99	1.84	16.91	1.88	12.15	1.73

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Chemicals," "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.81 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by work status and source of injury, 2000

	Tota	I	Worki	ng	Non-Wo	rking
Source of Injury †	Rate/1000	se	Rate/1000	se	Rate/1000	se
Containers (1)	0.54	0.18	1.22	0.40	0.00	
Machinery (3)	0.72	0.23	***		***	
Agricultural Machinery (31)	0.58	0.21	***		***	
Parts/Materials (4)	0.77	0.25	***		***	
Vehicle Parts (48)	0.46	0.19	***		***	
Trailers (483)	0.46	0.19	***		***	
Persons/Animals/Plants/Minerals (5)	2.52	0.41	3.93	0.80	0.79	0.22
Animals (51)	1.93	0.36	2.90	0.68	0.65	0.19
Cattle (5152)	0.53	0.17	***		***	
Horses (5154)	0.99	0.26	***		***	
Plants/Trees (58)	0.45	0.19	1.02	0.43	0.00	
Structures and Surfaces (6)	3.45	0.49	1.28	0.45	2.89	0.45
Floors/Walkways/Ground (62)	2.77	0.45	***		***	
Building Floor (6221)	0.56	0.20	0.00		0.56	0.20
Ground (623)	2.07	0.39	***		***	
Other Structural Elements (63)	0.55	0.19	***		***	
Fences (632)	0.42	0.17	***		***	
Tools/Instruments/Equipment (7)	1.28	0.30	1.60	0.50	0.58	0.20
Nonpowered Handtools (71)	0.87	0.25	***		***	
Knives (7124)	0.56	0.19	***		***	
Vehicles (8)	3.08	0.48	1.65	0.53	2.36	0.39
Highway Vehicles (82)	0.56	0.19	***		***	
Nonpowered Highway Vehicles (83)	0.40	0.15	0.00		0.40	0.15
Bicycles (8312)	0.40	0.15	0.00		0.40	0.15
Off-Road Vehicles (84)	1.54	0.35	***		***	
All Terrain Vehicle (841)	1.11	0.30	***		***	
Off-Road Vehicles n.e.c.* (849)	0.43	0.18	0.00		0.43	0.18
Industrial Vehicles (85)	0.59	0.21	***		***	
Tractors (853)	0.59	0.21	***		***	
Other and Unknown Sources**	1.76		2.02		0.87	
Total	14.38	1.09	14.34	1.58	8.07	0.80

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Sources includes "Chemicals," "Furniture and Fixtures," "Other Sources," and "Unknown Sources."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.82 National estimates of **injury rates for household youth** less than 20 years of age on Hispanic farms by sex and type of injury event, 2000

	Tota	ıl	Male	•	Fema	le
Type of Injury Event †	Rate/1000	se	Rate/1000	se	Rate/1000	se
Contact With Objects (0)	3.95	0.52	5.78	0.88	2.11	0.56
Contact With Object Unspecified (00)	0.41	0.17	0.81	0.32	0.00	
Struck Against Object (01)	0.89	0.26	***		***	
Against Stationary Object (012)	0.74	0.24	***		***	
Struck by Object (02)	1.69	0.34	2.49	0.58	0.89	0.36
Struck by Slipping Handheld Object (0232)	0.55	0.19	***		***	
Caught in Objects (03)	0.82	0.23	***		***	
Caught in Running Machinery (031)	0.42	0.17	0.82	0.33	0.00	
Caught in Objects n.e.c.* (039)	0.40	0.15	***		***	
Falls (1)	3.61	0.51	5.40	0.87	1.79	0.51
Fall to Lower Level (11)	2.39	0.40	3.57	0.69	1.20	0.42
Fall to Lower Level n.e.c.* (119)	2.10	0.37	2.99	0.62	1.20	0.42
Fall on Same Level (13)	0.96	0.25	***		***	
Fall to Floor/Walkway/Ground (131)	0.40	0.16	0.79	0.30	0.00	
Bodily Reaction/Exertion (2)	0.54	0.18	1.05	0.35	0.00	
Exposure to Substances/Environments (3)	0.68	0.21	***		***	
Contact With Temperature Extremes (32)	0.41	0.16	***		***	
Contact With Hot Objects/Substance (323)	0.41	0.16	***		***	
Transportation Events (4)	2.99	0.48	4.42	0.77	1.53	0.56
Nonhighway Events (42)	2.99	0.48	4.42	0.77	1.53	0.56
Vehicle Struck Stationary Object (422)	0.59	0.25	0.00		1.26	0.53
Fall From Moving Vehicle (4231)	0.99	0.26	1.92	0.51	0.00	
Overturn (4233)	0.59	0.21	***		***	
Loss of Control (4234)	0.40	0.15	***		***	
Assaults and Violent Acts (6)	1.27	0.30	0.84	0.35	1.80	0.51
Assault by Animal (63)	1.27	0.30	0.84	0.35	1.80	0.51
Assault by Animal n.e.c.* (639)	1.27	0.30	0.84	0.35	1.80	0.51
Other and Unknown Events**	1.35		2.02		0.66	
Total	14.38	1.09	20.32	1.77	8.48	1.19

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

^{**} Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.83 National estimates of injury rates for household youth less than 20 years of age on Hispanic farms by age and type of injury event, 2000

	Tota	l	<10 ye	ars	10-15 ye	ears	16-19 y	ears
Type of Injury Event [†]	Rate/1000	se	Rate/1000	se	Rate/1000	se	Rate/1000	se
Contact With Objects (0)	3.95	0.52	3.64	0.93	2.95	0.71	5.98	1.19
Contact With Object Unspecified (00)	0.41	0.17	***		***		***	
Struck Against Object (01)	0.89	0.26	***		***		***	
Against Stationary Object (012)	0.74	0.24	***		***		***	
Struck by Object (02)	1.69	0.34	***		***		2.97	0.83
Struck by Slipping Handheld Object (0232)	0.55	0.19	***		***		1.49	0.59
Caught in Objects (03)	0.82	0.23	***		***		1.45	0.55
Caught in Running Machinery (031)	0.42	0.17	***		***		***	
Caught in Objects n.e.c.* (039)	0.40	0.15	***		***		***	
Falls (1)	3.61	0.51	4.94	1.06	3.82	0.84	2.02	0.69
Fall to Lower Level (11)	2.39	0.40	2.95	0.78	2.69	0.71	1.53	0.61
Fall to Lower Level n.e.c.* (119)	2.10	0.37	2.48	0.69	2.31	0.66	1.53	0.61
Fall on Same Level (13)	0.96	0.25	1.61	0.55	***		***	
Fall to Floor/Walkway/Ground (131)	0.40	0.16	***		***		***	
Bodily Reaction/Exertion (2)	0.54	0.18	***		***		***	
Exposure to Substances/Environments (3)	0.68	0.21	1.23	0.49	***		***	
Contact With Temperature Extremes (32)	0.41	0.16	***		***		***	
Contact With Hot Objects/Substance (323)	0.41	0.16	***		***		***	
Transportation Events (4)	2.99	0.48	2.04	0.62	6.29	1.11	0.00	
Nonhighway Events (42)	2.99	0.48	2.04	0.62	6.29	1.11	0.00	
Vehicle Struck Stationary Object (422)	0.59	0.25	***		1.23	0.52	***	
Fall From Moving Vehicle (4231)	0.99	0.26	***		2.32	0.66	***	
Overturn (4233)	0.59	0.21	0.00		1.61	0.58	0.00	
Loss of Control (4234)	0.40	0.15	***		***		***	
Assaults and Violent Acts (6)	1.27	0.30	***		1.60	0.57	***	
Assault by Animal (63)	1.27	0.30	***		1.60	0.57	***	
Assault by Animal n.e.c.* (639)	1.27	0.30	***		1.60	0.57	***	
Other and Unknown Events**	1.35		1.33		0.80		1.63	
Total	14.38	1.09	13.99	1.84	16.91	1.88	12.15	1.73

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

* "n.e.c." is an abbreviation for "not elsewhere classified."

** Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

*** Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.84 National estimates of injury rates for household youth less than 20 years of age on Hispanic farms by work status and type of injury event, 2000

	Tota	I	Worki	ng	Non-Wo	king
Type of Injury Event [†]	Rate/1000	se	Rate/1000	se	Rate/1000	se
Contact With Objects (0)	3.95	0.52	6.05	0.97	1.29	0.30
Contact With Object Unspecified (00)	0.41	0.17	***		***	
Struck Against Object (01)	0.89	0.26	1.02	0.43	0.45	0.18
Against Stationary Object (012)	0.74	0.24	***		***	
Struck by Object (02)	1.69	0.34	2.83	0.65	0.45	0.18
Struck by Slipping Handheld Object (0232)	0.55	0.19	1.25	0.43	0.00	
Caught in Objects (03)	0.82	0.23	***		***	
Caught in Running Machinery (031)	0.42	0.17	0.96	0.38	0.00	
Caught in Objects n.e.c.* (039)	0.40	0.15	***		***	
Falls (1)	3.61	0.51	1.61	0.51	2.90	0.45
Fall to Lower Level (11)	2.39	0.40	0.95	0.38	1.97	0.37
Fall to Lower Level n.e.c.* (119)	2.10	0.37	0.95	0.38	1.68	0.34
Fall on Same Level (13)	0.96	0.25	***		***	
Fall to Floor/Walkway/Ground (131)	0.40	0.16	0.00		0.40	0.16
Bodily Reaction/Exertion (2)	0.54	0.18	***		***	
Exposure to Substances/Environments (3)	0.68	0.21	***		***	
Contact With Temperature Extremes (32)	0.41	0.16	***		***	
Contact With Hot Objects/Substance (323)	0.41	0.16	***		***	
Transportation Events (4)	2.99	0.48	2.39	0.66	1.93	0.35
Nonhighway Events (42)	2.99	0.48	2.39	0.66	1.93	0.35
Vehicle Struck Stationary Object (422)	0.59	0.25	***		***	
Fall From Moving Vehicle (4231)	0.99	0.26	***		***	
Overturn (4233)	0.59	0.21	***		***	
Loss of Control (4234)	0.40	0.15	0.00		0.40	0.15
Assaults and Violent Acts (6)	1.27	0.30	***		***	
Assault by Animal (63)	1.27	0.30	***		***	
Assault by Animal n.e.c.* (639)	1.27	0.30	***		***	
Other and Unknown Events**	1.35		1.39		0.74	
Total	14.38	1.09	14.34	1.58	8.07	0.80

[†] Categories based on the Bureau of Labor Statistics Occupational Injury and Illness Coding Structure (OIICS). OIICS codes are provided in parentheses.

^{* &}quot;n.e.c." is an abbreviation for "not elsewhere classified."

** Other and Unknown Events includes "Fires and Explosions," "Other Events," and "Unknown Events."

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.85 National estimates of **asthma among household youth** less than 20 years of age on Hispanic farms by sex, 2000

	Asthm	а	No Asth	ma	Unknown
Sex	Estimate	se	Estimate	se	Estimate
Male	793	34	8,409	122	33
Female	506	25	7,874	118	20
Unknown	0		22		341
Total [†]	1,299	44	16,305	193	394

[†] Estimates may not add to the total because of rounding.

Table 2.86 National estimates of **asthma among household youth** less than 20 years of age on Hispanic farms by age, 2000

	Asthm	а	No Asth	ma	Unknown
Age	Estimate	se	Estimate	se	Estimate
<10 years	319	21	5,686	110	10
10-15 years	524	26	6,047	100	18
10-11 years	139	13	1,752	46	3
12-13 years	194	15	2,026	50	13
14-15 years	191	15	2,270	53	3
16-19 years	454	24	4,501	81	15
16-17 years	279	19	2,529	56	10
18-19 years	174	15	1,972	50	5
Unknown	2		71		351
Total [†]	1,299	44	16,305	193	394

[†] Estimates may not add to the total because of rounding.

Table 2.87 National estimates of **asthma among household youth** less than 20 years of age on Hispanic farms by sex and age, 2000

	Total [†]		Male		Femal	е
Age	Estimate	se	Estimate	se	Estimate	se
<10 years	319	21	211	17	108	12
10-15 years	524	26	300	20	224	17
10-11 years	139	13	96	11	43	7
12-13 years	194	15	114	12	80	10
14-15 years	191	15	90	11	101	11
16-19 years	454	24	280	19	174	15
16-17 years	279	19	161	14	118	12
18-19 years	174	15	118	12	56	8
Unknown	2		2		0	
Total †	1,299	44	793	34	506	25

[†] Estimates may not add to the total because of rounding.

Table 2.88 National estimates of **asthma among household youth** less than 20 years of age on Hispanic farms by sex and type of farm, 2000

	Total		Male		Femal	e
Type of Farm	Estimate	se	Estimate	se	Estimate	se
All crop	584	30	345	23	239	17
Grain and oil seed	101	11	59	8	42	7
Tobacco	22	6	13	5	9	3
Cotton	28	7	21	6	7	3
Vegetable and melon	54	9	29	7	25	5
Fruit, nut, and berry	188	17	111	13	77	9
Nursery and floriculture	53	10	28	7	25	6
Other crop	137	15	85	11	52	8
All livestock	665	32	410	24	255	18
Beef	495	27	302	21	194	16
Dairy	29	6	16	5	13	4
Hog	17	6	7	3	10	3
Sheep and goat	47	9	36	8	10	4
Equine	46	9	28	6	18	5
All other livestock*	30		20		10	
Unknown	50		38		13	
Total [†]	1,299	44	793	34	506	25

[†] Estimates may not add to the total because of rounding.

Table 2.89 National estimates of **asthma among household youth** less than 20 years of age on Hispanic farms by age and type of farm, 2000

	Total	†	<10 yea	ars	10-15 ye	ears	16-19 ye	ars	Unknown
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	584	30	125	13	256	18	201	16	2
Grain and oil seed	101	11	17	4	39	7	45	8	0
Tobacco	22	6	***		13	5	***		0
Cotton	28	7	***		23	6	***		0
Vegetable and melon	54	9	21	6	13	4	18	5	2
Fruit, nut, and berry	188	17	44	7	80	10	64	9	0
Nursery and floriculture	53	10	15	5	18	5	21	6	0
Other crop	137	15	23	5	71	10	43	8	0
All livestock	665	32	181	17	246	18	238	18	0
Beef	495	27	137	14	191	16	168	15	0
Dairy	29	6	***		***		19	5	0
Hog	17	6	***		***		7	3	0
Sheep and goat	47	9	15	5	10	4	21	6	0
Equine	46	9	14	5	19	5	12	4	0
All other livestock*	30		***		15		***		0
Unknown	50		13		22		15		0
Total †	1,299	44	319	21	524	26	454	24	2

[†] Estimates may not add to the total because of rounding.

^{*} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{*} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.90 National estimates of **household youth** less than 20 years of age diagnosed with asthma reporting 1 or more **asthma attacks while doing farm work** by sex on Hispanic farms, 2000

	Total	Total [†]		Attack at Work		No Attack at Work	
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	793	34	225	18	313	21	255
<u>Female</u>	506	25	178	16	207	16	122
Total [†]	1,299	44	403	25	520	29	376

[†] Estimates may not add to the total because of rounding.

Table 2.91 National estimates of **household youth** less than 20 years of age diagnosed with asthma reporting 1 or more **asthma attacks while doing farm work** by age on Hispanic farms, 2000

	Total	†	Attack at Work		No Attack a	t Work	Unknown
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	319	21	58	9	89	12	171
10-15 years	524	26	162	14	201	16	161
10-11 years	139	13	33	6	44	7	62
12-13 years	194	15	63	9	68	9	63
14-15 years	191	15	66	9	89	10	36
16-19 years	454	24	183	16	229	17	41
16-17 years	279	19	114	12	132	13	33
18-19 years	174	15	69	9	98	11	8
Unknown	2		0		0		2
Total [†]	1,299	44	403	25	520	29	376

[†] Estimates may not add to the total because of rounding.

Table 2.92 National estimates of **household youth** less than 20 years of age diagnosed with asthma reporting 1 or more **asthma attacks while doing farm work** by type of farm on Hispanic farms, 2000

	Total	t	Attack at	Work	No Attack a	t Work	Unknown
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	584	30	179	17	225	19	179
Grain and oil seed	101	11	41	7	28	6	33
Tobacco	22	6	***		***		8
Cotton	28	7	13	5	15	5	0
Vegetable and melon	54	9	13	5	17	4	24
Fruit, nut, and berry	188	17	52	10	87	11	49
Nursery and floriculture	53	10	7	3	15	7	31
Other crop	137	15	***		***		35
All livestock	665	32	206	18	278	21	181
Beef	495	27	144	15	209	19	142
Dairy	29	6	***		***		8
Hog	17	6	***		***		0
Sheep and goat	47	9	21	6	16	5	10
Equine	46	9	15	5	20	6	11
All other livestock*	30		7		12		5
Unknown	50		18		17		15
Total [†]	1,299	44	403	25	520	29	376

[†] Estimates may not add to the total because of rounding.

Table 2.93 National estimates of **household youth** less than 20 years of age diagnosed with asthma reporting 1 or more **asthma attacks requiring professional medical attention** by sex on Hispanic farms, 2000

	Total	†	Medical Attention		No Medical A	Unknown	
Sex	Estimate	se	Estimate	se	Estimate	se	Estimate
Male	793	34	153	15	640	29	0
Female	506	25	98	11	406	23	2
Total †	1,299	44	250	18	1,046	38	2

[†] Estimates may not add to the total because of rounding.

^{*} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.94 National estimates of household youth less than 20 years of age diagnosed with asthma reporting 1 or more asthma attacks requiring professional medical attention by age on Hispanic farms, 2000

	Total	†	Medical Att	ention	No Medical A	ttention	Unknown
Age	Estimate	se	Estimate	se	Estimate	se	Estimate
<10 years	319	21	108	12	210	16	0
10-15 years	524	26	83	11	441	24	0
10-11 years	139	13	28	6	111	12	0
12-13 years	194	15	25	5	168	14	0
14-15 years	191	15	30	6	161	14	0
16-19 years	454	24	59	9	393	22	2
16-17 years	279	19	30	6	246	18	2
18-19 years	174	15	28	6	146	13	0
Unknown	2		0		2		0
Total [†]	1,299	44	250	18	1,046	38	2

[†] Estimates may not add to the total because of rounding.

Table 2.95 National estimates of household youth less than 20 years of age diagnosed with asthma reporting 1 or more asthma attacks requiring professional medical attention by type of farm on Hispanic farms, 2000

	Total	t	Attack at	Work	No Attack a	t Work	Unknown
Type of Farm	Estimate	se	Estimate	se	Estimate	se	Estimate
All crop	584	30	108	12	476	26	0
Grain and oil seed	101	11	19	5	82	10	0
Tobacco	22	6	***		***		0
Cotton	28	7	***		***		0
Vegetable and melon	54	9	21	6	33	6	0
Fruit, nut, and berry	188	17	27	6	162	15	0
Nursery and floriculture	53	10	8	3	46	9	0
Other crop	137	15	25	6	112	13	0
All livestock	665	32	129	13	533	28	2
Beef	495	27	105	12	388	24	2
Dairy	29	6	0		29	6	0
Hog	17	6	***		***		0
Sheep and goat	47	9	10	4	37	7	0
Equine	46	9	7	3	39	7	0
All other livestock*	30		***		***		0
Unknown	50		13		38		0
Total [†]	1,299	44	250	18	1,046	38	2

[†] Estimates may not add to the total because of rounding.

^{*} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.
*** Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.96 National estimates of **asthma prevalence rates for household youth** less than 20 years of age on Hispanic farms by sex and age, 2000

	Tota	Total Male Fen		Male		le
Age	Rate/1000	se	Rate/1000	se	Rate/1000	se
<10 years	53.00	3.70	67.57	5.72	37.35	4.14
10-15 years	79.50	4.20	89.50	6.23	69.26	5.31
10-11 years	73.50	7.20	92.99	11.11	50.32	8.78
12-13 years	86.70	7.10	99.82	10.78	73.19	9.21
14-15 years	77.60	6.40	76.42	9.36	78.59	8.92
16-19 years	91.30	5.10	103.41	7.39	76.98	6.70
16-17 years	99.10	7.00	108.06	10.19	89.09	9.43
18-19 years	81.10	7.10	97.67	10.66	59.90	8.55
Total	72.20	2.60	85.86	3.83	60.22	3.13

Table 2.97 National estimates of **asthma prevalence rates for household youth** less than 20 years of age on Hispanic farms by sex and type of farm, 2000

	Tota	al	Male	Male		Female	
Type of Farm	Rate/1000	se	Rate/1000	se	Rate/1000	se	
All crop	71.97	3.92	80.82	5.58	62.98	4.75	
Grain and oil seed	59.74	7.00	67.76	10.23	51.42	9.23	
Tobacco	92.58	28.23	98.38	40.79	85.75	30.95	
Cotton	79.96	21.06	102.45	30.70	49.90	20.73	
Vegetable and melon	61.64	11.27	60.89	15.66	66.92	15.29	
Fruit, nut, and berry	79.59	7.64	90.93	11.18	68.04	8.80	
Nursery and floriculture	75.51	14.97	86.85	21.40	68.06	16.63	
Other crop	72.81	8.52	80.75	11.31	62.77	10.73	
All livestock	73.55	3.74	87.64	5.44	58.84	4.38	
Beef	75.55	4.45	89.57	6.47	61.01	5.27	
Dairy	35.83	8.20	37.99	11.77	33.45	10.54	
Hog	84.67	29.79	74.41	31.59	97.29	35.69	
Sheep and goat	136.83	27.84	190.59	45.26	71.43	26.23	
Equine	70.95	14.23	88.58	21.07	54.98	14.99	
All other livestock*	64.34		42.30		51.43		
Total	72.16	2.58	85.86	3.83	60.22	3.13	

^{*} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

Table 2.98 National estimates of **asthma prevalence rates for household youth** less than 20 years of age on Hispanic farms by age and type of farm, 2000

	Tota	al	<10 ye	ars	10-15 y	ears	16-19 y	ears
Type of Farm	Rate/1000	se	Rate/1000	se	Rate/1000	se	Rate/1000	se
All crop	71.97	3.92	44.42	4.73	83.57	6.33	92.83	7.77
Grain and oil seed	59.74	7.00	31.12	8.07	61.49	11.39	91.48	16.30
Tobacco	92.58	28.23	***		133.13	55.69	***	
Cotton	79.96	21.06	***		179.08	50.45	***	
Vegetable and melon	61.64	11.27	65.04	20.48	40.51	12.78	84.43	23.17
Fruit, nut, and berry	79.59	7.64	54.17	9.11	86.14	11.22	103.19	14.62
Nursery and floriculture	75.51	14.97	54.64	17.64	73.43	20.06	115.42	35.03
Other crop	72.81	8.52	36.88	8.71	98.32	14.71	80.77	14.78
All livestock	73.55	3.74	59.75	5.71	74.22	5.78	89.97	7.06
Beef	75.55	4.45	59.83	6.53	78.27	6.94	***	
Dairy	35.83	8.20	***		***		66.57	19.31
Hog	84.67	29.79	***		***		119.86	51.00
Sheep and goat	136.83	27.84	156.81	56.42	86.10	32.18	177.55	54.40
Equine	70.95	14.23	87.12	33.93	75.20	21.61	57.97	21.51
All other livestock*	64.34		***		95.06		***	
Total	72.16	2.58	53.02	3.68	79.49	4.18	91.28	5.10

^{*} All other livestock includes "Poultry and egg," "Aquaculture," and "Other livestock" farms.

Table 2.99 National estimates of asthma prevalence rates for household youth less than 20 years of age with 1 or more asthma attacks while doing farm work by sex on Hispanic farms, 2000

	Tota	Total				
Sex	Rate/1000	se				
Male	46.46	3.83				
Female	57.74	5.23				
Total	50.82	3.27				

Table 2.100 National estimates of **asthma prevalence rates for household youth** less than 20 years of age with 1 or more **asthma attacks while doing farm work** by age on Hispanic farms, 2000

	Total			
Age	Rate/1000	se		
<10 years	53.10	8.39		
10-15 years	42.78	3.93		
10-11 years	37.34	7.35		
12-13 years	48.85	6.87		
14-15 years	40.94	5.67		
16-19 years	60.69	5.35		
16-17 years	63.61	7.04		
18-19 years	56.38	7.73		
Total	50.82	3.27		

^{***} Estimate is not reportable or is suppressed because of a non-reportable cell.

Table 2.101 National estimates of **asthma prevalence rates for household youth** less than 20 years of age with 1 or more **asthma attacks while doing farm work** by type of farm on Hispanic farms, 2000

Total		
Rate/1000	se	
56.89	5.63	
50.05	9.45	
110.48	44.04	
43.27	16.25	
69.88	13.67	
39.22	15.17	
53.85		
44.80	3.98	
46.23	4.82	
90.88	39.88	
93.47	28.12	
40.33	13.45	
58.30		
50.82	3.27	
	Rate/1000 56.89 50.05 110.48 43.27 69.88 39.22 53.85 44.80 46.23 90.88 93.47 40.33 58.30	

^{*} All other crop includes "Tobacco" and "Other crop" farms.

Table 2.102 National estimates of **asthma prevalence rates for household youth** less than 20 years of age with 1 or more **asthma attacks requiring professional medical attention** by sex on Hispanic farms, 2000

	Total			
Sex	Rate/1000	se		
Male	16.52	1.60		
Female	11.61	1.29		
Total	13.90	1.03		

^{**} All other livestock includes "Dairy," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

Table 2.103 National estimates of asthma prevalence rates for household youth less than 20 years of age with 1 or more asthma attacks requiring professional medical attention by age on Hispanic farms, 2000

	Total			
Age	Rate/1000	se		
<10 years	18.04	2.01		
10-15 years	12.61	1.61		
10-11 years	14.69	3.34		
12-13 years	11.28	2.46		
14-15 years	12.23	2.44		
16-19 years	11.78	1.72		
16-17 years	10.71	2.14		
18-19 years	13.18	2.82		
Total	13.90	1.03		

Table 2.104 National estimates of asthma prevalence rates for household youth less than 20 years of age with 1 or more asthma attacks requiring professional medical attention by type of farm on Hispanic farms, 2000

	Total		
Type of Farm	Rate/1000	se	
All crop	13.32	1.53	
Grain and oil seed	11.45	2.74	
Vegetable and melon	24.14	6.83	
Fruit, nut, and berry	11.32	2.65	
Nursery and floriculture	10.79	4.41	
All other crop*	13.39		
All livestock	14.33	1.47	
Beef	16.05	1.83	
Sheep and goat	29.03	12.39	
Equine	11.05	4.33	
All other livestock**	4.84		
Total	13.90	1.03	

^{*} All other crop includes "Tobacco," "Cotton," and "Other crop" farms.

** All other livestock includes "Dairy," "Hog," "Poultry and egg," "Aquaculture," and "Other livestock" farms.

Appendix A: Bibliography of NIOSH Childhood Agricultural Injury Articles and Documents

Journal and Conference Articles

- Adekoya N, Castillo DN, Myers JR [1998]. Youth agricultural work-related injuries treated in emergency departments--United States, October 1995-September 1997. MMWR, 47(35):733-737.
- Castillo DN, Hard DL, Myers JR, Pizatella T, Stout NA [1998]. A national childhood agricultural injury prevention initiative. J Agric Saf Health, Special Issue (1): 183-191.
- Castillo DN, Adekoya N, Myers JR [1999]. Fatal work-related injuries in the agricultural production and services sectors among youth in the United States, 1992-1996. J Agromedicine, 6(3):27-41.
- Goldcamp EM, Hendricks KJ, Myers JR [2002]. Farm fatalities to youth 1995-1997: a comparison by age groups. National Institute for Farm Safety 2002 Annual Meeting, June 23-27, 2002, Ponte Vedra Beach, FL. Columbia, MO: National Institute for Farm Safety.
- Goldcamp EM, Myers JR, Hendricks KJ, Layne LA [2003]. Non-fatal injuries: an overview of injuries to youth on racial minority operated farms in the United States, 2000. National Institute for Farm Safety 2003 Annual Meeting, June 22-26, 2003, Windsor, Ontario, Canada. Columbia, MO: National Institute for Farm Safety.
- Goldcamp EM, Myers JR, Hendricks KJ, Layne LA [2004]. Nonfatal all-terrain vehicle injuries to youth on farms in the U.S., 2001. National Institute for Farm Safety 2004 Annual Meeting, June 20-24, 2004, Keystone, CO. Columbia, MO: National Institute for Farm Safety.
- Goldcamp EM, Hendricks KJ, Myers JR [2004]. Farm fatalities to youth 1995-2000: a comparison by age groups. J Saf Research, 35(2):151-157.
- Hard DL, Myers JR [2005]. Fatal work-related injuries in the agricultural production sector among youth in the United States, 1992-2002. National Institute for Farm Safety 2005 Annual Meeting, June 19-23, 2005, Wintergreen, VA. Columbia, MO: National Institute for Farm Safety.
- Hendricks KJ, Adekoya N [2001]. Non-fatal animal-related injuries to youth occurring on farms in the United States--1998. National Institute for Farm Safety 2001 Annual Meeting, June 24-27, 2001, Pittsburgh, PA. Columbia, MO: National Institute for Farm Safety.
- Hendricks KJ, Adekoya N [2001]. Non-fatal animal related injuries to youth occurring on farms in the United States, 1998. Injury Prevention, 7(4):307-311.

- Hendricks KJ, Goldcamp EM, Myers JR [2002]. Fatal and non-fatal falls in United States agricultural production for youth less than 20 years old. National Institute for Farm Safety 2002 Annual Meeting, June 23-27, 2002, Ponte Vedra Beach, FL. Columbia, MO: National Institute for Farm Safety.
- Hendricks KJ, Myers JR, Goldcamp EM, Layne LA [2003]. Farm hazards to household youth on minority operated farms in the United States, 2000: exposures and injuries from work, horses, ATVs and tractors. National Institute for Farm Safety 2003 Annual Meeting, June 22-26, 2003, Windsor, Ontario, Canada. Columbia, MO: National Institute for Farm Safety.
- Hendricks KJ, Goldcamp EM, Myers JR [2004]. On-farm falls among youth less than 20-years old in the U.S. J Agric Saf Health, 10(1):27-38.
- Hendricks KJ, Layne LA, Goldcamp EM, Myers JR [2004]. Injuries among youth on farms in the United States, 2001. National Institute for Farm Safety 2004 Annual Meeting, June 20-24, 2004, Keystone, CO. Columbia, MO: National Institute for Farm Safety.
- Hendricks KJ, Myers JR, Layne LA, Goldcamp EM [2005]. Household youth on minority operated farms in the United States, 2000: exposures to and injuries from work, horses, ATVs and tractors. J Saf Research, 36(2):149-157.
- Layne LA, Myers JR, Hendricks KJ, Goldcamp EM [2003]. Demographics and non-fatal injury patterns of youth less than 20 years of age on Hispanic operated farms in the United States, 2000. National Institute for Farm Safety 2003 Annual Meeting, June 22-26, 2003, Windsor, Ontario, Canada. Columbia, MO: National Institute for Farm Safety.
- Myers JR, Adekoya N [2001]. Fatal on-farm injuries among youth 16 to 19 years of age: 1982-1994. J Agric Saf Health, 7(2):101-112.
- Parker DL, Wahl GL, Higgins D [1999]. Childhood work-related agricultural fatalities -- Minnesota, 1994-1997. 1999. MMWR, 48(16):332-335.
- Pollack SH, Struttmann TW, Zwerling C, Lundell J, Johnson W, Etre L, Hanrahan LP, Tierney J, Higgins D [1999]. Deaths among children aged less than or equal to 5 years from farm machinery runovers -- Iowa, Kentucky, and Wisconsin, 1995-1998, and United States, 1990-1995. MMWR, 48(28):605-608.

NIOSH and USDA Numbered Documents

Adekoya N, Pratt SG [2001]. Fatal unintentional farm injuries among persons less than 20 years of age in the United States: Geographic profiles. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2001-131.

- Myers JR [1998]. Injuries among farm workers in the United States--1994. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 98-153.
- Myers JR [2001]. Injuries among farm workers in the United States, 1995. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2001-153.
- Myers JR, Hendricks KJ [2001]. Injuries among youth on farms in the United States, 1998. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2001-154.
- Myers JR, Hendricks KJ, Goldcamp EM, Layne LA [2005]. Injury and asthma among youth less than 20 years of age on minority farm operations in the United States, 2000—volume I: racial minority national data. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2005-147.
- NIOSH [2004]. Injuries to youth on minority farm operations. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-117.
- NIOSH [2004]. Asthma among household youth on minority farm operations. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-118.
- NIOSH [2004]. Worker health chartbook, 2004. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Pub. No. 2004-146.
- NIOSH [2004]. Injuries to youth on Hispanic farm operations. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-157.
- NIOSH [2004]. Asthma among household youth on Hispanic farm operations. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-158.

- NIOSH [2004]. Injuries among youth on farms, 2001. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Pub. No. 2004-172.
- USDA [1999]. 1998 Childhood agricultural injuries. Washington, DC: U.S. Department of Agriculture, National Agricultural Statistics Service, Sp Cr 8 (10-99).
- USDA [2002]. 2000 Childhood agricultural injuries on minority-operated farms. Washington, DC: U.S. Department of Agriculture, National Agricultural Statistics Service, Sp Cr 9 (02).
- USDA [2004]. 2001 Childhood agricultural-related injuries. Washington, DC: U.S. Department of Agriculture, National Agricultural Statistics Service, Sp Cr 9 (1-04).

NIOSH Fatality Assessment and Control Evaluation (FACE) Reports

- NIOSH [1989]. Five family members die after entering manure waste pit on dairy farm. Morgantown, WV: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, FACE Report No. 89-46.
- NIOSH [1998]. 9-year-old child helping with blueberry harvest dies after being run over by cargo truck on field road. Morgantown, WV: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, FACE Report No. 98-15.
- NIOSH [2000]. Sixteen-year-old farmworker dies in a cotton packing machine after being covered with a load of cotton--Georgia. Morgantown, WV: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, FACE Report No. 2000-06.
- NIOSH [2000]. A 15-year-old male farm laborer dies after the tractor he was operating overturned into a manure pit--Pennsylvania. Morgantown, WV: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, FACE Report No. 2000-18.
- NIOSH [2002]. Youth farm worker dies after falling into operating feed grinder/mixer--Ohio. Morgantown, WV: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, FACE Report No. 2002-10.

State Fatality Assessment and Control Evaluation (FACE) Reports

- The University of Iowa [1995]. 12 year old boy dies from a tractor rollover in a roadside ditch. Iowa City, IA: The University of Iowa, Iowa Fatality Assessment and Control Evaluation Program, FACE Investigation No. 95IA009.
- The University of Iowa [1999]. Youth farm worker is killed when he becomes entangled in PTO driveline of an old grinder-mixer. Iowa City, IA: The University of Iowa, Iowa Fatality Assessment and Control Evaluation Program, FACE Investigation No. 99IA003.
- Kentucky Injury Prevention and Research Center [2001]. Youth riding as passenger on tractor killed by overturn. Lexington, KY: Kentucky Injury Prevention and Research Center, Kentucky Fatality Assessment and Control Evaluation Program, FACE Investigation No. 01KY062.
- Michigan State University [2003]. Farm youth died when he became entangled in an unguarded PTO shaft. East Lansing, MI: Michigan State University, Michigan Fatality Assessment and Control Evaluation Program, FACE Investigation No. 03MI052.
- Minnesota Department of Health [1994]. Farm youth dies after being crushed by a "run away" chopper wagon. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 94MN030.
- Minnesota Department of Health [1994]. Farm youth dies after tractor he was driving rolled over on him. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 94MN039.
- Minnesota Department of Health [1994]. Farm youth dies after tractor he was driving rolled over on him. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 94MN041.
- Minnesota Department of Health [1995]. Farm youth dies after being engulfed in corn inside a steel grain bin. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 95MN045.
- Minnesota Department of Health [1995]. Farmer youth dies after being struck by a loader bucket. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 95MN046.
- Minnesota Department of Health [1997]. Farmer youth dies after being run over by a grass seeder. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 97MN038.

- Minnesota Department of Health [2000]. Farm youth dies after falling from and being run over by tractor in Minnesota. Minneapolis, MN: Minnesota Department of Health, Minnesota Fatality Assessment and Control Evaluation Program, FACE Investigation No. 00MN029.
- Missouri Department of Health [1999]. Eleven-year-old farm-boy dies following tractor accident. Jefferson City, MO: Missouri Department of Health, Missouri Fatality Assessment and Control Evaluation Program, FACE Investigation No. 99MO022.
- Nebraska Department of Labor [1998]. Tractor overturn kills temporary worker. Lincoln, NE: Nebraska Department of Labor, Nebraska Workforce Development, Nebraska Fatality Assessment and Control Evaluation Program, FACE Investigation No. 98NE029.
- Nebraska Department of Labor [1999]. Farm youth suffocated in corn bin. Lincoln, NE: Nebraska Department of Labor, Nebraska Workforce Development, Nebraska Fatality Assessment and Control Evaluation Program, FACE Investigation No. 99NE028.
- Oklahoma State Department of Health [1998]. Farm worker dies of burn-related injuries while trapped in a burning hay baler--Oklahoma. Oklahoma City, OK: Oklahoma State Department of Health, Oklahoma Fatality Assessment and Control Evaluation Program, FACE Investigation No. 98OK025.
- Oklahoma State Department of Health [2000]. A 17-year old on a hay hauling crew died from injuries received when he fell from a moving hay truck and was apparently run over by the vehicle's tire in Oklahoma. Oklahoma City, OK: Oklahoma State Department of Health, Oklahoma Fatality Assessment and Control Evaluation Program, FACE Investigation No. 00OK045.
- Washington State Department of Labor and Industries [1999]. Tractor overturn kills 16-year-old farm worker in Washington State. Olympia, WA: Washington State Department of Labor and Industries, Washington Fatality Assessment and Control Evaluation Program, FACE Investigation No. 99WA056.
- Wisconsin Division of Health [2000]. Youth farm worker pinned under overturned horse-drawn manure sled. Madison, WI: Wisconsin Division of Health, Wisconsin Fatality Assessment and Control Evaluation Program, FACE Investigation 00WI025.
- Wyoming Department of Health [1992]. Sheepherder struck by lightning in Wyoming. Laramie, WY: Wyoming Department of Health, Wyoming Fatality Assessment and Control Evaluation Program, FACE Investigation 92WY013.

Appendix B: Minority Farm Operator Childhood Agricultural Injury Survey Questionnaire

2000 Minority Farm Operator Childhood Agricultural Injury Questionnaire

and I am working with the National Agricultural Statistics Service on ehalf of the Centers for Disease Control and Prevention. We are interested in learning more about injuries that ccur on farms operated by minorities. We are asking farm/ranch families for information about their farming perations, as well as information on injuries that occurred on the farm/ranch in the past year. This will take aboutminutes.					
The information you provide will be strictly CONFIDENTIAL. Your Cooperation is VOLUNTARY, and you may refuse to answer any question. This information will be combined with others' to help identify common patterns of injuries on farms and to develop injury prevention and health promotion programs nationwide. Would you help us by answering these questions?					
01 YES [Continue on INT 2] 03 NO [Refuse]					
I assure you that everything you tell us will be kept CONFIDENTIAL.					
Your answers are very important even if you did not have a youth on your farm, or did not have an injury on your farm in the past year. This project will be used to identify how often injuries occur on farms, and what the common patterns are for these injuries. This information will help identify programs for preventing these injuries in the future. Your cooperation will benefit all minority farm/ranch families. Would you please consider helping us?					
 91 YES [Continue on INT 2] 93 NO [Refused] 94 Says not a farm [Continue on Int 1a] 95 Does not speak English 					
Int 1a:					
1. Please answer the following question(s) for the total acres you (Nar	me on Label) operate.				
a. Did you grow any crops or cut hay in 2000	Yes - [Go to Int 2.]	No -[Continue]			
b. Is any of the land in this operation cropland? (Including idle cropland and cropland government programs such as CRP, etc)	Yes - [Go to Int 2.]	No -[Continue]			
c. In 2000 did you have any whole grains, oilseeds, or hay stored on this operation?	Yes - [Go to Int 2.]	No -[Continue]			
d. Do you have facilities for storing whole grains or oilseeds?	Yes - [Go to Int 2.]	No -[Continue]			

e. Do you own or raise any livestock or poultry?

Yes - [Go to Int 2.] No -[Go to conclusion]

Int 2

1.	Hello, may I please speak with the adult female of the household?
	01 YES 03 NOT AVAILABLE. WHEN WOULD BE A GOOD TIME TO CALL BACK?
	Time to call back:
	04 SPOUSE WILL GIVE INFORMATION 05 NO FEMALE HEAD OF HOUSEHOLD
2.	Please verify name and mailing address of this operation. Make corrections (Including the correct operation name) on the label and continue.
	Check box if name and address are verified.
3.	I would like to know how many people live in your household, (INCLUDING yourself, and EXCLUDING temporary visitors)?
	Number of People
4.	How many of the people living in your household are under the age of 20?
	Number Under Age of 20
(If	60 Skip to HOUSEHOLD SUMMARY, Page 3, Question 1)
5.	Where do the youth in your household most often go when they need medical attention? Do they go to a doctor's office, a clinic, an emergency room, an urgent care center, or to some other place?
	01 Doctor's office 02 Clinic
	03 Emergency Room 04 Urgent Care Center
	05 Some other place
	77 Don't know 99 Refused
6.	What kind of health practitioner do the youth in your household usually see, a doctor, a nurse, a nurse practitione (CNP), a physician's assistant (PA), or someone else?
	01 Doctor
	02 Nurse 03 Certified Nurse Practioner
	04 Physician Assistant
	05 Someone else 77 Don't know
	99 Refused

7. The last time any youth (under 20 years of age) in your house paid the majority of the cost? Was it	ast time any youth (under 20 years of age) in your household received professional medical attention, who he majority of the cost? Was it		
01 Paid out of pocket 02 Medicare/Medicaid 03 Public Clinic/No charge 04 Employer paid health plan 05 Individual health plan (self/family) 06 Billed, did not pay 07 Workers' Compensation 08 Other (Specify 77 Don't know 99 Refused)		
HOUSEHOLD SU	JMMARY		
1. ENUM: Respondent's gender?			
01 Male 03 Female			
2. What was your age on your last birthday?			
Age			
3. How many years of schooling have you completed?			
Years of Schooling Completed			
4. What is the highest education level you have achieved? (Check ONLY ONE)			
01 Less than High School 02 High School Diploma 03 Associates, two-year Junior College degree 04 Vocational/Technical School 05 Bachelors Degree 06 Masters Degree 07 Doctorate 08 Professional - MD, JD, DDS, etc. 09 Other (Specify) 77 Don't know 99 Refused			
5. Are you of Spanish, Hispanic or Latino origin or background regardless of race?	such as Mexican, Cuban, or Puerto Rican,		
01 Yes 03 No	77 Don't know 99 Refused		

6. What is your Race? (Mark one or more of the following.)		
	01 White 02 Black or African American 03 American Indian or Alaska Na 04 Native Hawaiian or Other Pac 05 Asian 77 Don't know 99 Refused	ative (Specify tribe) ific Islander
7. Wł	nat is your marital status? (Please ch	eck ONLY ONE.)
	01 Married 02 Widowed 03 Divorced 04 Separated	05 Married, but apart 06 Single, never married 77 Don't know 99 Refused
	ENUM: Ask Questions	8 - 13 if married in Question 7.
8. EN	IUM: Respondent spouse's gender?	
	01 Male 02 Female	
9. WI	nat was your spouse's age on their la	st birthday?
	Age	
10. H	ow many years of schooling has you	r spouse completed?
	Years of Schooling Completed_	
11. W	hat is the highest level of education	your spouse has achieved? (Please check ONLY ONE.)
	01 Less than High School 02 High School Diploma 03 Associates, two-year Junior C 04 Vocational/Technical School 05 Bachelors Degree 06 Masters Degree 07 Doctorate 08 Professional - MD, JD, DDS, 09 Other (Specify:	etc.
	your spouse of Spanish, Hispanic o	r Latino origin or background such as Mexican, Cuban, or Puerto Rican
	01 Yes 03 No	77 Don't know 99 Refused

13. What is the Race of your spouse? (Mark one or more of the following	g.)		
01 White			
02 Black or African American			
03 American Indian or Alaska Native (Specify tribe)		
04 Native Hawaiian or Other Pacific Islander			
05 Asian			
77 Don't know			
99 Refused			
ENUM: If no youth under 20 live in the household, (Int 2 Item 4=0), the Question 1.	hen go to Operation Summary, Page 7,		
ENUM: Ask the following questions for each person under the age of the number reported in Int 2 Item 4.	20 living in your household. Should match		
Now, I would like to ask you some questions about each of the people the age of 20.	e living in your household who are under		
Starting with the oldest child:			
A. What is his/her gender?			
01 Male			
02 Female			
B. What was (his/her) age on (his/her) last birthday?			
Age:			
C. How many years of schooling has (he/she) completed?			
Years of Schooling Completed :			
D. Is (he/she) of Spanish, Hispanic or Latino origin or background such regardless of race?	as Mexican, Cuban, or Puerto Rican,		
01 Yes 77 Don't know			
03 No 99 Refused			
E. What is (his/her) race? (Mark one or more of the following.)			
01 White			
02 Black or African American			
03 American Indian or Alaska Native (Specify tribe)		
04 Native Hawaiian or Other Pacific Islander			
05 Asian			
77 Don't know			
99 Refused			

F. Has (he/she) worked on this farm	in the last year?
01 Yes 03 No	77 Don't know 99 Refused
G. Has (he/she) ridden a horse for w	vork or for recreation in the last year on this farm?
01 Yes 03 No	77 Don't know 99 Refused
H. Has (he/she) driven an all-terrain	vehicle on this farm, either for work or for recreation in the last year?
01 Yes 03 No	77 Don't know 99 Refused
I. Has (he/she) operated a tractor on	this farm in the last year?
01 Yes 03 No	77 Don't know 99 Refused
J. Has (he/she) been diagnosed as ha	aving asthma by a health professional?
01 Yes 03 No	77 Don't know 99 Refused
K. Has (he/she) had a serious asthm professional medical attention in	a attack that required an emergency room visit, hospitalization, or other the last year?
01 Yes 03 No	77 Don't know 99 Refused
L. Has (he/she) had an asthma attack while doing farm work?	k requiring the use of an inhaler, or other medical treatment in the last year
01 Yes 03 No	77 Don't know 99 Refused
ENUM: Repeat A through L for each worksheet for children 2 - 10. Maxi	ch person under the age of 20 living within the household. (Use suppleme from of 10 youth per household).

OPERATION SUMMARY

Next, I have a few questions about your farm or ranch operation.

Considering:

Sales of all crops, livestock, poultry, and livestock products (milk, eggs, etc.) sold in 2000;

The value of product removed for all crops, livestock, and poultry produced under contract in 2000;

Sales of all miscellaneous agricultural products in 2000;

All government agricultural payments received in 2000;

Landlord's share of government payment and crops sold in 2000;

- 1. Was the Gross Value of Sales and the value of all crops, livestock, and poultry still on hand for this farm or ranch in 2000: (Please check ONLY ONE.)
 - 01 Less than \$1,000
 - 02 \$1,000 or more
- 2. Of the farm or ranch income reported, which of these categories represents the largest proportion of the gross income from the operation?
 - 01 Grains and Oil Seeds (Corn, sorghum, small grains, rice, soybeans, dry beans, dry peas, sunflowers, flaxseed, popcorn, grain silage and forage, grains and oil seeds for seed)
 - 02 Tobacco
 - 03 Cotton
 - 04 Vegetables and Melons (Potatoes, sweet potatoes, beets, cabbage, cantaloupes, pumpkins, sweet corn, tomatoes, watermelons, vegetable seed and others)
 - 05 Fruit, Tree Nuts and Berries (Apples, blueberries, cherries, cranberries, grapes, oranges, kiwi fruit, peaches, pears, strawberries, almonds, hazelnuts, pecans, walnuts and others)
 - 06 Nursery, Greenhouse and Floriculture (Cut flowers, potted plants, bedding plants, foliage plants, sod, mushrooms, Christmas trees, bulbs, nursery stock, shrubbery, flower seed and others)
 - 07 Other Crops (Hay, peanuts, sugar beets, sugarcane, mint, hops, grass seed, maple syrup, CRP)
 - 08 Beef Cattle (Beef cattle for breeding stock, fed cattle, stockers and feeders, veal calves)
 - 09 Dairy (milk and other dairy products, sales of dairy animals)
 - 10 Hogs
 - 11 Sheep, Goats, Wool and Mohair
 - 12 Equine (Horses, ponies, mules, donkeys, burros)
 - 13 Poultry and Eggs (Chickens, broilers, eggs, turkeys, ducks, geese, pheasants, poultry products, hatcheries)
 - 14 Aquaculture (Catfish, trout and other finfish, and shellfish)
 - 15 Other Animals (Fur-bearing animals, bees, honey, rabbits, and other animal specialties)
- 3. How many acres are included in this operation?
 - 01 Less than 101
 - 02 101-300
 - 03 301-500
 - 04 501-700
 - 05 701-999
 - 06 More than 1000
 - 07 Don't know
 - 09 Refused

4.	Is this a full-time operation (A full-expenses) or a part-time operation?	full-time operation (A full-time operation is a farm that contributes more than 50% towards family living es) or a part-time operation?			
	01 Full-time 02 Part-time		77 Do 99 Re	on't know fused	
5.		niring farm workers, do you require them to have any type of formal training (e.g., tractor or machinery or certification, pesticide application certification, commercial driver's license)?			achinery
	01 Yes 03 No		77 Do 99 Re	on't know fused	
6. Do you provide safety training for workers on your farm, excluding un-supervised on-the-job training (i.e., training on the proper operation of tools, equipment, or machinery; pesticide safety training; training of propelifting techniques; training on safe work practices)?					
	01 Yes (Specify: 03 No)	77 Do 99 Re	on't know fused	
7.	During 2000, approximately how m youth previously reported in your h				ccluding
Ei	numerator: If there are no hired wo	rkers under the a	ge of 20, the	go to Item 15.	
8.	For each of these workers, please to Latino origin, their race, and wheth as part of their job. (Maximum of 2	er or not they open		er or not they are of Spanish, Hispar or, an ATV, or rode a horse on the fa	
	WORKER:				
	Age:				
	Gender: 01 M	ale 03 Female			
Race: 01 White 02 Black or African American 03 American Indian or Alaska 04 Native Hawaiian or other P 05 Asian 77 Don't know 99 Refused MARK ONE OR MORE			Alaska Nati other Pacifi		
	Operate a tractor on the	s farm? 01 Y 03 N		77 Don't know 99 Refused	
	Operate an ATV on thi	s farm? 01 Y 03 N		77 Don't know 99 Refused	
	Rode a horse on this fa	rm? 01 Y	es	77 Don't know	

03 No

99 Refused

We've already discussed household youth and youth hired to work on your farm. Next, we'd like to ask you about other visitors to your farm and whether or not they may have helped out with work on the farm.

9. How many relatives under the age of 20 visited the farm during 2000, excluding those reported as hired or part of the household? (If none, skip to 11)

Number: ______

of the household? (If none, skip to 11)

Number: _____

10. How many of these relatives performed work on your farm during 2000 (either paid or unpaid)?

Number: _____

11. Excluding hired workers, relatives, or household members, how many other people under the age of 20 visited the farm during 2000, for example, friends of your children?

Number: _____

YOUTH INJURY SUMMARY

Next, I am going to ask you some questions about any injuries to children or adolescents under the age of 20 that occurred on this farm during 2000.

12. During 2000, did anyone on this farm under the age of 20 experience any injuries which required professional medical attention or required at least 4 hours of restricted activity? These injuries include those resulting from farm work, chores, or recreation on the farm/ranch or in the home.

01 Yes 77 Don't know (Go to conclusion)
03 No (Go to conclusion) 99 Refused (Go to conclusion)

13. During 2000, how many injuries occurred on this farm to anyone under the age of 20 which required professional medical attention or required at least 4 hours of restricted activity? These injuries include those resulting from farm work, chores, or recreation on the farm/ranch or in the home.

Number of injuries during 2000:

Now we would like to get some information on each of these injuries, starting with the most recent injury to anyone under the age of twenty. If the same youth had more than one injury during 2000, please provide information on all injury events.

Enumerator Note: If respondent does not want to provide the name of the injured person, please assign a unique identifier (such as "Child A") which will also be used when completing the narrative.

14. Starting with the most recent child/adolescent injury, what is the first name of the injured person?

Name:

15. What was the age of this injured person at the time of the injury?

Age:

- 16. What is the gender of this person?
 - 01 Male
 - 02 Female

17.	. What is the injured person's relationship to farm family?			
	03 Spou	d/Step-Child use or relative	05 Worker 06 Boarder 10 Other (Specify:) (E.g. friend, visiting school youth)	
18.		person of Spanish, Hispanic or I lless of race?	atino origin or background such as Mexican, Cuban, or Puerto	
	01 Yes 03 No		77 Don't know 99 Refused	
19.	What is the in	njured person's Race? (Mark one	or more of the following.)	
	03 Amei	c or African American rican Indian or Alaska Native (Sp re Hawaiian or Other Pacific Islar n t know		
20.	In what mont	th did the injury occur?		
	01 Janua 02 Febru 03 Marc 04 April 05 May 06 June 07 July 08 Augu 09 Septe 10 Octol 11 Nove 12 Dece	aary h ast ember ber ember		
		-	this household, ask to speak to that person. If injured person is under 16 continue interviewing respondent.	
Eni	umerator:	If you are talking to the youth p If you are talking to the origina		
21.	Did the injur	ed person live on the farm?		
	01 Yes (03 No	Go to Question 23)	77 Don't know 99 Refused	
22.	Was the injur	red person visiting the farm at the	time of the injury?	
	01 Yes 03 No		77 Don't know 99 Refused	

	01 Yes 03 No (Go to Question 27)	77 Don't know 99 Refused
24.	At the time of the injury, how many hours pe	r week did (you/the injured person) typically work on the farm?
	01 0-10 02 11-20 03 21-30 04 31-40 05 More than 40 77 Don't know 99 Refused	
25.	Was (your/the injured person's) supervisor in	the immediate area at the time of the injury?
	01 Yes 03 No	77 Don't know 99 Refused
26.	How much experience did (you/the injured pothe injury?	erson) have in performing the task being completed at the time of
27.	01 None 02 Less than 4 hours 03 4 hours to 1 day 04 More than 1 day to 7 days 05 More than 1 week to 4 weeks 06 More than 1 month to 12 months 07 More than 1 year 77 Don't know 99 Refused Where on the farm did the injury occur? 01 Crop field, orchard, nursery 02 Pasture 03 In the farm yard/barn yard 04 Grain storage/silo 05 Farm outbuilding 06 Barn 07 Farm roadway 08 Public roadway 09 In the home 10 Garage	77 Don't know 99 Refused
	11 House yard 12 Driveway/sidewalk 13 Outdoors, general 14 Other: Specify:	

23. Did this injury occur while completing work or doing chores on the farm?

being completed, what equipment was being used or materials being handled, and any other factors you think might be important. [ENUM: PROBE FOR DETAIL]				
Enumerator Note: If injury resulted to continue.	in a fatality, you may term	inate the interview	unless the respondent wishes	
Interviewer Checklist:Location (I (Powered On/Off, Using/Cleaning)				
NIOSH USE ONLY: Source	2nd Source	Event	E-code	
29. What part of the body was injured 01 Head/Skull 02 Face 03 Neck 04 Shoulder/Chest/Back 05 Abdomen 06 Pelvic Region 07 Arm 08 Hand/Wrist/Fingers 09 Leg 10 Foot/Ankle/Toes 11 Internal Injuries 12 Other: (Specify:		apply.)		
77 Don't know				
99 Refused				
30. What type of injury occurred to the	ne(S	Specify Body Part)?	(Please check ALL that apply.)	
01 Scrape/Abrasion 02 Bruise/Contusion 03 Sprain/Strain/Torn Ligam 04 Broken Bone/Fracture 05 Dislocation 06 Cut/Laceration 07 Puncture/Stab/Jab 08 Traumatic Rupture 09 Crushed/Mangled 10 Loss of Body Part/Amput 11 Nerve Injury 12 Burn/Blister/Scald 13 Other (Specify:	ation			

28. Now I would like you to describe how the injury occurred. Include where the injury occurred, what tasks were

31. H	low long were/was (your/the injured person's) r	normal activities restricted as a result of this injury?		
	01 No restrictions 02 Less than one day 03 1 day to less than 7 days 04 7 days to less than 14 days 05 14 days to less than 1 month 06 1 month to less than 3 months 07 3 months or more 77 Don't know 99 Refused			
32. D	oid the injury result in permanent disability?			
	01 Yes 03 No	77 Don't know 99 Refused		
33. H	low would you rate the overall seriousness of the	nis injury? (Read List)		
	01 Minor 02 Moderate 03 Serious 04 Severe 05 Life-threatening 06 Fatal (ENUM: If respondent does not wish to continue, Leave note and terminate interview) 77 Don't know 99 Refused			
34. D	oid this injury require medical attention?			
	01 Yes 03 No (Go to conclusion)	77 Don't know 99 Refused		
35. Where did (you/the injured person) initially receive treatment for this injury?				
	01 Doctor's office or Clinic 02 Hospital Emergency Department 03 Non-emergency Clinic at Hospital 04 Public Clinic 05 Dentist 06 Chiropractor 07 Urgent Care Center 08 At the scene 13 Other (Specify: 77 Don't know 99 Refused			
36. E	oid this injury require admission to the hospital	?		
	01 Yes 03 No (Go to conclusion)	77 Don't know (Go to conclusion) 99 Refused (Go to conclusion)		

37. How long was the hospitalization?		
Total Days:		
	CONCLUSION	

ENUM: If more than one injury was reported in question 13, return to question 14 to collect information for the next most recent injury event (record information for up to four injury events). If no more injury events, then end with the following:

That is all the questions I have for you today. Thank you very much for your time. We hope this information will help us learn more about how to prevent injuries on farms and ranches.

Appendix C: Definitions Used for the Hispanic Farm Operator Childhood Agricultural Injury Survey

Asthma

A positive asthmatic status for a youth that has been diagnosed by a health professional.

Asthma attack at work

An asthma attack that occurred while doing farm work that required the use of an inhaler, or other medical treatment.

Asthma attack requiring professional medical treatment

An asthma attack that required an emergency room visit, hospitalization, or other professional medical attention beyond the use of an inhaler.

Farm

Any operations with \$1,000 or more of gross agricultural production within a calendar year, including both crop and livestock operations.

Hired youth

Youth who were hired directly by the farm operator to work on a farm. These exclude working household youth or contract laborers.

Hispanic

Any person of Spanish, Hispanic, or Latino origin.

Household youth

All youth who resided on a farm.

Injury

Any condition that resulted in 4 hours or more of restricted activity, or a condition that required professional medical treatment.

NASS

National Agricultural Statistics Service - the primary statistical agency of the U.S. Department of Agriculture.

Non-household youth

All youth who did not reside on the farm. This is the combination of hired youth, relatives, and non-relative visiting youth.

Non-household working youth

Youth who worked on the farm, but were not part of the farm household. This is the combination of hired youth and working relatives.

Non-relatives

Youth who were visiting the farm, but not related to the farm family.

Non-work injury

Any injury that occurred on the farm that was not due to farm work, even if the injury occurred in a work area of the farm, or where farm work was ongoing.

Relatives

Youth who were visiting the farm and related to the farm family.

Visiting youth

Other youth who were on the farm, but were not household members or hired workers.

Work

Any activity performed by the youth that has a direct impact on the farming operation as a business, regardless of whether the activity is performed for pay. In general, if the activity is such that the farmer would pay an individual to do this task, or would have to do this task themselves as part of the farming business, then the activity is work-related.

Working household youth

Household youth who worked on the farm.

Working relatives

Relatives who did non-paid work on the farm. Relatives who were hired to work on the farm were classified as hired youth.

Work-related injury

Any injury that occurred while performing work for the farm business.

Youth

Any person under the age of 20 years.

Appendix D: Sampling Estimators Used for the Hispanic Farm Operator Childhood Agricultural Injury Survey

1. Equations to derive the non-benchmarked estimates, y, and variances, v(y), for injury, asthma, or youth for Hispanic farms.

$$y = \sum_{h=1}^{9} \left[\sum_{i=1}^{n_h} \frac{N_h}{n_h} y_{hi} \right] = \sum_{h=1}^{9} y_h$$
 (D.1)

$$v(y) = \sum_{h=1}^{9} \frac{N_h - n_h}{N_h} \sum_{i=1}^{n_h} \frac{(N_h y_{hi} - y_h)^2}{n_h (n_h - 1)} = \sum_{h=1}^{9} v(y_h)$$
 (D.2)

where:

h = regional strata used in post-stratification;

 N_h = number of farms in region h from the NASS sampling list;

 n_h = number of respondents in region h from the survey;

 y_{hi} = value of the variable of interest (i.e., injury, asthma, youth) on farm i in region h from the survey;

 y_h = estimate of variable of interest (i.e., injury, asthma, youth) in region h;

 $v(y_h)$ = sampling variance for the variable of interest (i.e., injury, asthma, youth) in region h.

2. Equations to derive the benchmarked national estimates, $y_{(bm)}$, and variances, $v(y_{(bm)})$, for injury, asthma, or youth for Hispanic farms.

$$y_{(bm)} = \sum_{h=1}^{9} \frac{N_{(bm)h}}{N_h} y_h \tag{D.3}$$

$$v(y_{(bm)}) = \sum_{h=1}^{9} \left(\frac{N_{(bm)h}}{N_h}\right)^2 v(y_h)$$
 (D.4)

where non-benchmarked values are as previously defined in D.1 and D.2, and:

 $N_{(bm)h}$ = number of farms in region h from the published 1997 Census of Agriculture.

Note: For equations D.3 and D.4, each independent outcome of *h* provides the corresponding benchmarked regional estimate for the variable of interest and its variance.

3. Equations to derive the benchmarked national injury incidence or asthma prevalence rate estimates, R, and variances, v(R), for Hispanic farms.

$$R = 1000 \left(\frac{y_{(bm)}}{x_{(bm)}} \right) \tag{D.5}$$

$$v(R) = \frac{1000^2}{n} \left(\frac{1}{\bar{x}_{(bm)}}\right)^2 \left[v(y_{(bm)}) + R^2 v(x_{(bm)}) - 2R \operatorname{cov}(y_{(bm)}, x_{(bm)})\right]$$
(D.6)

where:

 $y_{(bm)}$ = benchmarked national estimate for injury or asthma from the survey;

 $x_{(bm)}$ = benchmarked national estimate for youth at risk from the survey;

 $x_{(bm)}$ = benchmarked national average of youth at risk per farm from the survey;

 $v(y_{(bm)})$ = benchmarked variance for the national injury or asthma estimate from the survey;

 $v(x_{(bm)})$ = benchmarked variance for the national estimate of youth at risk from the survey;

 $cov(y_{(bm)},x_{(bm)})$ = covariance between the benchmarked injury or asthma estimate and the benchmarked estimate of youth at risk from the survey;

n = the number of farms from the NASS sampling frame used to derive the covariance between $y_{(bm)}$ and $x_{(bm)}$.

Alternatively, the variance for *R* can be determined by:

$$v(R) = 1000^{2} R^{2} \left[\left(\frac{\sqrt{v(y_{(bm)})}}{y_{(bm)}} \right)^{2} + \left(\frac{\sqrt{v(x_{(bm)})}}{x_{(bm)}} \right)^{2} - 2 \left(\frac{\operatorname{cov}(y_{(bm)}, x_{(bm)})}{\overline{y}_{(bm)} \overline{x}_{(bm)} n} \right) \right]$$
(D.6.1)

where:

$$\frac{\sqrt{v(y_{(bm)})}}{y_{(bm)}} = \text{relative standard error for } y_{(bm)} \text{ (i.e., injury or asthma);}$$

$$\frac{\sqrt{v(x_{(bm)})}}{x_{(bm)}} = \text{relative standard error for } x_{(bm)} \text{ (i.e., youth at risk)};$$

$$\frac{\text{cov}(y_{(bm)}, x_{(bm)})}{\overline{y_{(bm)}} \overline{x_{(bm)}} n} = \text{relative covariance between } y_{(bm)} \text{ and } x_{(bm)};$$

 $\overline{y}_{(bm)}$ = benchmarked national average for injury or asthma per farm from the survey;

n = the number of farms from the NASS sampling frame used to derive the covariance between $y_{(bm)}$ and $x_{(bm)}$.

Because the relative covariance between the estimated number of injury or asthma cases and the number of youth at risk is typically negligible, the estimate v(R) may be approximated as:

$$v(R) = 1000^{2} R^{2} \left[\left(\frac{\sqrt{v(y_{(bm)})}}{y_{(bm)}} \right)^{2} + \left(\frac{\sqrt{v(x_{(bm)})}}{x_{(bm)}} \right)^{2} \right]$$
 (D.6.2)

Equation D.6.2 was the method used to derive the standard errors for all rates in this document.

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