CONSEQUENCES OF AGRICULTURE INJURIES

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LIST OF ABBREVIATIONS

CI	Confidence Interval
NASS	National Agricultural Statistics Service
NIOSH	National Institute for Occupational Safety and Health
OR	Odds Ratio
OSHA	Occupational Safety and Health Administration
RR	Rate Ratio
USDA	United States Department of Agriculture

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CONSEQUENCES OF AGRICULTURE INJURIES

ABSTRACT

Importance

Agriculture is among the most hazardous industries in the United States (US). However, long-term health-related, psychosocial and economic consequences of agricultural injuries have not been adequately studied. Understanding the total injury problem and consequences in this occupation is essential to the development of prevention and control strategies.

Objectives

The objectives of this study were to: 1) determine if injuries incurred by children on agricultural operations result in measurable physical, psychosocial, and economic burden to children, family members, and the overall agricultural operation; 2) determine if physical, psychosocial, and economic consequences of agricultural injury are compounded by burdens from non-agricultural injury and other health conditions.

Methods

The study involved a cohort of agricultural operation households in Minnesota, Wisconsin, North Dakota, South Dakota, and Nebraska. A random sample of 6,400 operations was selected for each state (total n=32,000), from the US Department of Agriculture (USDA), National Agricultural Statistics Service's (NASS), Master List Frame of Farming Operations. Interviews were administered using a computer assisted telephone interview (CATI) data collection instrument. Eligibility involved: 1) having an associated household that included at least one child <20 years of age as of January 1, 2007; 2) actively farming or ranching or had land in the Conservation Reserve Program (CRP); and 3) produced or had annual sales of agricultural goods of at least $1,000 in the previous year,

Baseline data were collected from eligible households, in early 2007. Telephone interviews enabled injury data collection for all household members for the two six-month periods in 2007; six-month follow up interviews enabled identification of longer-term consequences of injuries ascertained in injury interviews #1 and #2, respectively. Evaluation Interviews (n=4) were conducted one and two years after each injury interview; this involved families of all youth reporting eligible injuries and those with youth who did not report injuries. Controls were randomly sampled from all eligible controls in households with an injured child (ratio, 3:1). Data collection for Evaluation Interviews was comparable to Baseline Interviews, enabling identification of changes between baseline and long-term follow-up periods, comparing households with injured children to those with non-injured children.

Analyses, pertinent to incidence, identified injury rates (e.g., per 1,000 operations, 1,000 persons, and 100,000 hours of work). Extensive descriptive analyses were conducted on short-term consequences of injury. Multivariate analyses enabled determination of potential long-term physical, psychosocial and economic consequences of injuries to children through comparisons of follow-up evaluations with baseline data on health status (physical and psychosocial) and economic status between households with injured and non-injured children. All multivariate models incorporated adjustments for within-household correlation. Potential selection bias was controlled by inversely weighting observed responses with probabilities of response among non-respondents, estimated as a function of characteristics available from the NASS database; probability of eligibility was estimated for these same characteristics.

Results

A total of 3,489 operations met the eligibility criteria; 1,459 agricultural operations completed the baseline questionnaire; 6,205 persons were followed through the study.

There were 578 injury events reported for the full 12-month injury reporting period; 259 events related to agricultural activities that occurred on one's own or someone else's agricultural operation and 318 were related to non-agricultural activities. The overall injury rate for agricultural operations was 121.5 injury events per 1,000 persons per year, two times higher for males (163.0) than females (79.6) and comparable

between participants ≥20 (124.6) and those <20 years of age (118.6). Injuries incurred by children, versus adults, were treated more frequently at emergency departments.

A total of 100 case households and 366 control households were selected for evaluation interviews. Children with severe injuries were more likely to require medical care at one and two years after the injury-reporting periods; long-term increases in health care costs from baseline were also associated with injured children. A long-term decrease in health-related quality of life, measured by the HUI-3, was associated with child injury. Case households with severely injured children were more likely to have household members who lost work time due to a child's injuries, illnesses or health conditions at both one and two years following the injury reporting periods.

Conclusions

This study addressed a serious deficiency in knowledge about long-term consequences of agricultural injuries. Important changes in physical, emotional, and economic characteristics were identified for injured children and other household members. It is possible that some long-term changes in personal and household characteristics may not be directly related to the initial injury event reported during the first year of data collection. As shown in previous studies, prior experiences with injury are strongly associated with subsequent injury events, suggesting that there may be individuals at increased risk due to the environments in which they live and work. These results serve as a basis for development of prevention and control efforts to prevent long-term risk of injury and associated consequences.

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SECTION I

Significant Findings

The primary aim of this study was to determine if injuries incurred by children on agricultural operations result in measurable physical, psychosocial, and economic burden to children, family members, and the overall agricultural operation.

A total of 1,459 operations agreed to participate in the study and completed the full baseline interview. Of these, 1,176 were interviewed about injuries that occurred during the first six months of 2007; 1,047 subsequently responded to questions about injuries occurring during the second six months. For the 12 months, 578 injury events were reported; 259 events related to *agricultural activities* on one's own or someone else's agricultural operation and 318 events related to *non-agricultural activities*. The overall injury rate, per 1,000 persons per year, for agricultural operations was 121.5 injury events -- two times higher for males (163.0) than females (79.6) and comparable between those ≥20 (124.6) and those <20 years of age (118.6). For events *related to agriculture*, the overall rate was 53.9, 3.5 times higher for males versus females (84.3; 23.6), and 3.7 times higher for those ≥20 versus <20 years of age (85.1; 23.1).

The rate for injury events related to activities *other than agriculture* was 66.7 per 1,000 persons per year; by gender, rates were 78.1 and 55.1 for males and females, respectively. By age group, the trend was reversed – 3.7 times higher rate for children than adults (95.0; 38.2). Moreover, when *accounting for hours worked on the operations*, the agriculture-related injury event rates for females and males were similar (5.3 and 6.3 per 100,000 hours); female children, versus adults had a lower rate (4.4 versus 8.3 events per 100,000 hours).

The most commonly reported injury types for *agricultural activity-related* injury events for children were bruise/contusion (28%), cut/laceration/scratch (16%), fracture/dislocation (11%, and sprain/strain (10%); for adults, sprain/strain (29%), bruise/contusion (21%) and cut/laceration/scratch (14%) were most common. For *non-agricultural activity-related* injury events, most commonly reported injury types for children were fracture/dislocation (31%), sprain/strain (26%) and cut/laceration/scratch (14%); for adults, sprain/strain (31%), fracture/dislocation (20%), and bruise/contusion (18%) were most common.

Agricultural activity-related injuries among adults and children (35%, 34%) were most frequently treated at doctors' offices and hospital emergency departments (22%, 31%); 22% and 5% of adults' and children's injuries were treated at chiropractors' offices. Both *agricultural and non-agricultural* injuries among children were treated more frequently at hospital emergency departments (31%, 36%) than were adult injuries (22%, 23%); one- fourth of all agricultural activity-related injury events, incurred by adults and children, required no treatment.

Over 30% of *agricultural activity-related* injuries among adults and children resulted in restricted activities for one to less than seven days; 7% and 15% resulted in no restricted activities. For *non-agricultural activity-related* injuries, restricted activity of 3+ months was three times higher for adults than children (16%; 5%).

Comparing consequences of *agricultural and non-agricultural activity-related* injuries to children between those occurring within the six-month injury reporting period, and those in the six-months following the injury reporting period, the following consequences were significantly reduced in frequency: health care professional treatment; persistent problems; surgeries; missed ≥1 school days; restricted activity for ≥7days. Interestingly, out of pocket expenses of $500+ for medical care of *non-agricultural* activity-related injuries, incurred by children, increased in frequency from the short-term (19%) to the near short-term (25%).

A total of 100 case households and 366 control households were selected for follow-up interviews at one and two years after the first injury-reporting period. Corresponding numbers for the second injury-reporting period were 115 case and 413 control households. Among case households, 117 and 122 children reported injury events in the first and second injury-reporting periods. Among both case and control

households, 899 and 1048 children, respectively, reported no injury for the first and second injury-reporting periods.

Multivariate analyses addressed various outcomes of interest, measured at the household level and for individual children at one and two years after each injury reporting period. Case households with children who reported severe injuries, resulting in restricted activity of ≥7 days, were more likely to have household members who missed days of agricultural-related work/chores due to a child's injuries, illnesses or health conditions at one year follow-up.

Case households with children reporting severe injuries that resulted in ≥7 days restricted activity, were associated with higher odds of visiting a doctor or other health care provider or receiving a health care treatment at both one and two years follow-up; no associations were found between child injuries and increases in out-of-pocket medical expenses at the one- and two-year follow-up time points. Injuries among children were associated with increases in *Other Health Care and Total Health Care* costs between baseline and one and two years following each injury reporting period. Child injuries were also associated with an increase in *Emergency Department* costs between baseline and the two-year follow-up.

Injured, versus non-injured, children were more likely to feel sad more frequently one year after the injury reporting period. The Health Utilities Index-3 (HUI-3) measured health status and health-related quality of life for all children five to <20 years old. Children with reported injuries showed a decrease in the multi-attribute HUI-3 score at one-month and at one-year after the injury reporting period; they were also associated with a decrease in the single attribute HUI-3 utility score for emotion at the same time points. A decreased score for cognition at one and two years following the injury reporting period was associated with being injured. Scores for pain were decreased among injured children at all three post-injury period evaluation time points.

Translation of Findings

This study is one of the first to address a serious deficiency in knowledge about the long-term consequences and overall burden associated with agricultural injuries. Important long-term changes in physical, emotional, and economic characteristics were identified, not only for injured children, but also for other household members. It is important to note that these long-term changes in personal and household characteristics may not be directly related to the initial injury event reported during the first year of data collection. As shown in previous studies, prior experiences with injury are strongly associated with subsequent injury events, a finding that suggests there may be individuals who are at greater risk due to the environments in which they live and work.

Outcomes/Impact

This study identified several long-term consequences associated with injuries incurred by children on agricultural operations. Identifying types of agricultural operation environments in which prevention and control efforts can decrease long-term risk and consequences of injuries to children is an important step towards reducing the burden that these injuries place on agricultural families, the agricultural operations, and on society, in general.

SECTION II – Scientific Report

Background

Agriculture, involving approximately 1,823,000 full-time workers (NIOSH, 2012), has consistently been identified as one of the most hazardous industries in the United States (US), with mortality and morbidity rates similar only to the industries of mining and construction. In 2010, the rate of fatal occupational injuries was nine times greater for agriculture than for all industries combined (26.9 versus 3.0 per 100,000 full-time equivalent workers). Additionally, there were 100,000 medically consulted injuries related to agricultural work, versus five million for all industries combined in the US, accounting for a rate 1.5 times greater, based on million hours worked (National Safety Council [NSC], 2012). However, there are serious limitations in both fatal and non-fatal data, including incompleteness of case identification and lack of indication whether or not the event occurred at work.

A variety of efforts have been undertaken to identify the magnitude of the agricultural injury problem, with varying degrees of success. Many have focused on fatalities; however, existing data also infer a nonfatal injury problem despite the generally limited data sources (Aherin and Riessenberg, 1978; Carlson et al., 2006; 2009; Erkal et al., 2008; 2009; Ferguson et al., 2005; Gerberich et al., 1990; 1991; 1993; 1996; 1998; 2001; 2003; 2004; Gunderson et al., 1989; Hard and Gerberich, 2002; Kurszewski et al., 2006; Larson-Bright et al., 2007; 2009; Lee et al., 1996; Mongin et al, 2007; Paulson et al., 2006; Rivara, 1997; Stallones, 1989; 1990; 1990; Stueland et al., 1991; Welsch et al., 1989; Williams et al., 2010; 2010). The majority of literature pertinent to agricultural injuries is based on case-series or hospital and emergency department-based data, which represent only small proportions of agricultural injury events and should be interpreted with caution (Gerberich et al., 1991; 1992; 1993; 1996, 2000; 2003; 2004; Layde et al., 1996). Results of these investigations generally focus on a particular mode of injury or the identification of specific sources of injury. While hospital records may enable identification of specific diagnoses and treatments, there are also many limitations of these data for the study of incidence or short- and long-term outcomes of injury. These include the problems of confidentiality, as well as inadequate information on the circumstances surrounding the event and the long-term consequences of the event, together with a bias toward the more severe injuries (Gerberich et al., 1990). Records from emergency departments, outpatient facilities, and primary care practitioners have even greater limitations, including accessibility, unless they are linked to a major data base; operation of such data bases is extremely difficult and, consequently, very rare.

In order to collect meaningful injury data, it is essential to have complete enumeration of the numerator, including the nonfatal injuries, in addition to adequate denominator data, which enables identification of rates for the population at risk, together with relevant consequences data (Gerberich et al., 1990; 1991; Conroy et al., 1991). Utilization of an active rather than passive reporting system enhances the likelihood of identifying complete data (Vogt et al., 1983; Thacker et al., 1986).

Incidence of agricultural injury among children and adults

In addition to the estimated 1,823,000 full-time workers, it has also been projected that over one million children and adolescents under 20 years of age resided on farms in 2009, with about 519,000 of these youth performing work on the operations; reportedly, an additional 230,000 children and adolescents were hired to work on U.S. farms in 2009 (NIOSH, 2012).

The incidence of agricultural injuries is difficult to calculate, compared with most other industries, as there is no national database that collects population-based information pertinent to nonfatal and fatal injuries among both children and adults. As an example, private households, operations with fewer than 11 employees, and the self-employed, all of which are common in the agricultural industry, are excluded from the Bureau of Labor Statistics' (BLS) data collection system, which is based on OSHA 200 Logs; therefore, it is difficult to assess the occurrence of nonfatal and fatal agricultural injuries for the entire agricultural industry. However, the published rate of occupational injury for the agricultural industry consistently ranks it among the top three hazardous industries in the US (NSC, 2012) and other industrialized countries (Notkola

et al., 1987; Harrison et al., 1989; Solomon, 2002).

In national databases as well as population-based studies, adults generally have higher rates of injury events per person than children (Gerberich et al., 2003; 2004), with fatality rates peaking among those older than 65 years (Myers and Hard, 1995). However, compared with other industries, children are at an unusually high risk of agricultural activity-related occupational injury because of the proximity between the family household and the agricultural operation (Wilk, 1993), and because of the common use of child labor for agricultural tasks (U.S. Department of Labor, 2000). In Kentucky, it was found that nearly 55% of males, and 38% of females, between five and 18 years of age, who lived on family operations, spent at least 180 days per year participating in agricultural work (Browning et al., 2003). From a survey of rural high schools in Minnesota, it was reported that 45% of male students, and 21% of female students, were involved in agricultural work of some kind (Parker et al., 2002) while a survey of rural middle schools in Texas indicated that nearly six percent of male students were working in agricultural settings (Weller et al., 2003).

Data relating to the consequences of agricultural injury among children are still sparse. National data indicated that, between 1995 and 2002, an average of 113 youth less than 20 years of age died annually from agricultural-related injuries; these occurred, primarily, to youth 16-19 years of age (34%). In 2009, an estimated 16,100 children also incurred nonfatal injuries (NIOSH, 2012). Population-based surveys of rural regions of the US have helped to further illuminate the injury problem. In the Regional Rural Injury Study - I (RRIS-I; Gerberich et al., 1993; 1998; 2001) and Regional Rural Injury Study – II (RRIS-II; Gerberich et al., 2003; 2004; Kurszewski et al., 2006; Larson-Bright et al., 2007; 2009; Mongin et al., 2007; Paulson et al., 2006; Williams et al., 2010; 2010), as well as other studies (Cogbill et al., 1991; Nordstrom et al., 1995; Pickett et al., 1999; Pratt et al., 1992), it has been reported that adults, generally, have higher rates of injury events per 1,000 persons than children. However, in contrast to the rates calculated per 1,000 persons, data from the RRIS-I demonstrated a very different picture when determining rates according to the number of hours worked on the family agricultural operation. In this case, children appeared to experience much higher rates of agricultural injury per 100,000 hours worked than adults. Rasmussen et al., (2000) also found that, when rates were calculated according to hours worked, children were at a higher risk of injury than adults. Similar results were reported for the Regional Rural Injury Study – II (RRIS-II; Gerberich et al., 2003; 2004), where children had rates similar to those of adults, based on number of hours worked. However, these results were interpreted with caution due to the inclusion in the numerator of participants who may have been bystanding, and, therefore, not working, on the agricultural operation. To help reduce the bias caused by this limitation, hours of agricultural work were summed for the members of a household and used as a measure of exposure. From this perspective, there was a detectable pattern of increasing injury rates with increasing hours of household agricultural work, even among the youngest age groups.

Gender appears to be a key factor in the risk of injury among children. Across studies, males of all ages reportedly experienced a greater proportion of fatal and non-fatal injuries than females (Stallones, 1990; Cogbill et al., 1991; Stueland et al., 1991; Pratt et al., 1992; Gerberich et al., 1993; 2003; 2004; Pickett et al., 1999; Browning et al., 2003). However, the reported gender difference may be a result of differences in the amounts of exposure; when the agricultural injury rates were calculated based on hours worked, rather than by persons at risk, in the RRIS-I and RRIS-II, males and females were found to have similar rates of agriculture-related injury (Gerberich et al., 1993; 2003; 2004). These distinctions in injury rates, based on the hours of exposure time, versus persons at risk, emphasize the need for comprehensive, population-based incidence and outcomes data, pertinent to these injuries.

Short- and long-term physical consequences of agricultural injury

An estimated 3.3 percent of the US population aged 18-69 years experiences injury-related disability (Guerrero et al., 1999); based on 2010 data, 12% of the total US population incurred a medically-consulted injury (“disability” connotation changed; NSC, 2012). Agricultural workers are known to be at a higher risk

than other workers for many short- and long-term physical disabilities, including hearing loss, arthritis, amputations, and chronic musculoskeletal disorders such as back pain, numbness, white finger, and other orthopedic impairments (Brackbill et al., 1994; Stål et al., 1996; Park et al., 2001). Previous estimates of permanently disabling injury in the agricultural population have ranged from two to four percent (Jansson, 1987; Pftiser and Hofmeister, 1969). However, it was also estimated that nearly half of the reported serious injuries for the agricultural industry result in permanent disabilities (Merchant, 1991). The prevalence of short- and long-term disability among the agricultural population is widely underestimated, for reasons that include: 90-95% of US agricultural operations are exempt from Occupational Safety and Health Administration (OSHA) regulations (Baker et al., 1992); and, 2) the majority of operations are not covered by Workers' Compensation (WC) insurance and are, therefore, excluded from WC databases (NSC, 2012).

Data from the National Health Interview Survey (NHIS), a population-based household survey conducted by the National Center for Health Statistics, Center for Disease Control and Prevention, have been used to provide better estimates of disability rates than other national databases. An analysis of this survey (Brackbill et al., 1994) showed the age-adjusted prevalence risk ratios for disabilities such as amputations and arthritis to be 2.8 and 1.4 times higher, respectively, among farmers/ranchers than all other employed respondents. Additionally, those between the ages of 35 and 49 were found to have more than a twofold excess of arthritis than other workers of the same age group.

A few hospital-based and population-based studies have analyzed the prevalence of physical disabilities among the agricultural population. A study of 739 hospitalized patients in Wisconsin found that permanent disability, which resulted from injuries associated with common agricultural hazards such as cornpickers (62%), power take-offs (45%), tractors (20%), and animals (7%), was expected for 22% of the patients (Cogbill et al., 1991). A clinic-based study in Denmark found that one-third of the hospitalized agricultural injuries to the hand involved traumatic amputations and lacerations, and that most of these injuries resulted in some permanent disability (Hansen and Carstensen, 1999). A population-based study of female agricultural workers in Sweden compared self-reports of disability among those who milked, those who did not milk, and non-agricultural workers (Stål et al., 1996). Symptoms such as multilocal pain, aches, and overall discomfort, affecting the neck and upper extremities, were reported more commonly among the agricultural than non-agricultural workers; approximately 6% of those who reported these symptoms were unable to work during the 12 months preceding the interview.

Results of the RRIS-I and RRIS-II (Gerberich et al., 1993; 2003; 2004) indicated that short-term disability was a common outcome for a proportion of agricultural injuries. For the RRIS-I, it was reported that 83% of agricultural injury events resulted in some level of restriction of normal activity. Of these, nearly 37% reported restricted activity for 7 days or more, and 19% were restricted for one month or more. Furthermore, 25% of all agricultural injury events resulted in persistent problems, including pain (50%), numbness (13%), and decreased range of motion (5%). Permanent disabilities were reported for 0.5% of the injury events. For children less than 20 years of age, it was found that 58% of injury events resulted in restricted activity for less than one week, 17% were restricted from one week to less than one month, and 17% were restricted for one month or more. In the RRIS-II, restriction from normal activities for a period of seven days or more was reported for 29% of the injuries among adults as well as children. At the time of the RRIS-II interview, 23% and 8% of adults and children, respectively, reported persistent problems, which included various residual symptoms such as pain or restricted movement, as well as permanent consequences.

Disability associated with agricultural injury among children is very difficult to elucidate and, therefore, is rarely described in the literature. Workers' Compensation databases include only a very small proportion of children under the age of 18 (about 5%) represented as claimants (Demers and Rosenstock, 1991). Other data sources have been used to estimate that up to 40% of children injured in agricultural settings are

left with a permanent disability (Cogbill et al., 1985; Swanson et al., 1987; Zietlow and Swanson, 1999; Reed and Claunch, 2000); however, complete descriptive and analytical studies, pertinent to children, are insufficient. Because of this, outcomes evaluation research, pertaining to agricultural activity-related disabilities, has been identified as a serious need; this should include increased identification of the potential myriad of consequences for children and adults.

Short- and long-term psychosocial consequences of agricultural injury

Psychosocial consequences of agricultural injuries are likely to be significant, but have not been adequately studied. Those studies that have assessed psychosocial consequences have looked at very limited outcomes and have reported varying results. For example, the population-based study of female milkers, by Stål et al. (1996), measured psychosocial outcomes such as occupational well-being. Results of this study found no relation between reported symptoms of the upper extremities among milkers and the measured factors pertaining to social demands, well-being, and civil status. It has been shown, however, that injuries among members of agricultural households do not solely affect the injured; a study of farmers/ranchers with upper extremity loss found evidence that the impact of the injury was equally devastating to the spouses of the injured persons (Reed and Claunch, 1998). This is not surprising, given that family members are often first on the scene of a serious injury, and must then cope with the extra burden of caregiving in addition to their normal workload, which may include the chores on the operation that are no longer completed by the injured person. Leske and Jiricka (1998) reported that major changes in family structure are necessary to meet the requirements for care of a person with a permanent disability. Studies have also shown that disabling injuries have adverse effects on marital relationships (Rosenberg, 1998).

Short- and long-term economic consequences of agricultural injury

Agricultural injuries are thought to have a large negative impact on agricultural families, the agricultural operations, and on society, in general (Gerberich et al., 1993, 2003), though literature pertaining specifically to the consequences of these injuries is scarce. Societal consequences may be thought of in terms of decreased productivity, disability burden, or Medicaid costs. Economic consequences can be broken down into those sustained by the family of the injured person, or by society in general, and data can be reported in terms of direct costs, such as medical expenses, or indirect costs, such as lost time at work and estimated future time lost.

Several national databases are often used to estimate the societal and economic costs of fatal and nonfatal occupational injuries. The Census of Fatal Occupational Injuries, from the BLS, ranks jobs based on fatality rates. The Annual Survey of Occupational Injuries and Illnesses ranks jobs based on nonfatal injuries and illnesses that result in one or more days of lost work. A limitation of these databases is that they do not account for the distinct costs of fatalities, injuries, and illnesses based on the type of event that caused them; therefore, they provide only a preliminary look at the occupations with the highest injury burden. Occupations need to be ranked, based on an overall measure of risk that combines both fatal and nonfatal injury (Leigh and Miller, 1997).

Leigh et al. (2001) reported agricultural injuries to be a significant contributor to the overall national burden of health and medical costs. Leigh and Miller (1997) conducted a study using BLS data to rank occupations based on the costs of job-related injuries and illnesses using the Human Capital Method (also referred to as the Direct and Indirect Cost Method). This study ranked injuries and illnesses related to agriculture, averaged over 1985 and 1986, as the 25th highest cost of all occupational categories. This study primarily used Workers' Compensation claims data to assess both the direct and indirect costs; therefore, many agricultural workers were systematically excluded from this calculation. As a result, the ranking is likely to be conservative.

Evidence of the consequences of agricultural activity-related injuries has been identified in other bodies of literature, using proxies such as use of medical facilities or loss of work time. From the RRIS-I (Gerberich et al., 1993), it was found that 81% of the injury events reported by members of agricultural households required some type of health care; 6% required hospitalization. Pratt et al. (1992) reported similar results from a population-based study of dairy farmers and workers, where 70% who incurred agricultural activity-related injuries required medical care. Analyses from another study specifically addressed the impact of agricultural injury on agricultural operators, owners, and workers based in Alabama and Mississippi; it was found that the majority of injuries were classified as minor or moderate in severity and required medical attention (McGwin et al., 2000). Additionally, nearly all of the subjects experienced acute residual effects, including pain upon movement; 53% reported persistent pain related to their injury. The RRIS-II (Gerberich et al., 2003; 2004) indicated that children were more likely than adults (29% vs. 18% respectively) to be treated in a hospital emergency department for an agricultural injury. In that study, 79% of the injuries among children required some type of health care.

Measuring the amount of restricted activity, lost work-time, and residual effects provides further insight into the indirect costs of these injuries. However, one must keep in mind that these figures may be influenced by the severity of injuries that occur, the economic status of the injured person, and also by the extent of financial and other pressures to return to work as soon as possible (Solomon, 2002). The RRIS-II found that 14% and 17% of adults' and children's agricultural injuries, respectively, resulted in a period of seven days or more of lost agricultural work time (Gerberich et al., 2003; 2004). Pratt et al. (1992) reported that 31% of such injuries resulted in lost work-time. The study by McGwin et al. (2000) also examined non-medical costs, including lost work time; results indicated that 62% of injured participants were required to take time off from work due to their injury. A study of agricultural injuries in Britain found that the mean number of work days lost was higher for agricultural activity-related injury than for injuries associated with all industries combined (Solomon, 2002). It is clear that agricultural injuries lead to lost production time on the agricultural operation; however, the amount of adult work time lost, on the agricultural operation as well as non-agricultural work, due to children's injuries, has yet to be established as part of the total economic costs.

In summary, there are serious concerns about the occupational injury problem and extensive hazardous exposures experienced by this population. The US Child Labor Laws (US Department of Labor, 2012) prohibit extremely hazardous jobs among children less than 16 years of age, without certification, including the operation of a tractor >20 horsepower, operating or helping to operate machines, including hay balers, forage harvesters, or auger conveyers, and handling or applying chemicals, among many others; however, this does not pertain to children who work on family agricultural operations.

Understanding the total injury problem and consequences in this population is essential to the development of relevant prevention and control strategies. Implementation of the proposed effort was critical in being able to accomplish this level of understanding.

Specific Aims

The primary aim of this study was to determine if injuries incurred by children on agricultural operations result in measurable physical, psychosocial, and economic burden to children, family members, and the overall agricultural operation. The short-term consequences of injuries that were examined included type and location of health care treatment, length of restricted activity, missed school days, and out of pocket medical expenses. The long-term physical, psychosocial, and economic consequences of injuries that were studied included changes in the following: lost work time; school performance; health care use and costs; health-related quality of life; and child behavior.

The secondary aim was to determine if physical, psychosocial, and economic consequences of agricultural injury are compounded by burdens from non-agricultural injury and other health conditions. In

the final methodology for the study, each child's injury status was determined by his/her injury experience, both on and off the agricultural operation. Multivariate models that examined associations between injuries incurred by children and physical, psychosocial, and economic consequences included covariates to adjust for prior health conditions and limitations from prior injuries.

Methods

Overview

This study was designed to serve as a model that will enable identification of the consequences, short-term and long-term, resulting from injuries; these included physical, psychosocial and economic consequences. Data were collected to identify the incidence, types, sources, surrounding circumstances, the consequences of agricultural injuries, and the burden of all injury, on the individual affected, the household, and agricultural operation, overall. Through a research design that involved data collection of key factors prior to and following specific injury data collection, analyses were conducted to identify potential consequences, based on the differences between baseline and follow-up, comparing households with injured children and those without injured children who reside in agricultural operation households in the five-state area of Minnesota, Wisconsin, North Dakota, South Dakota, and Nebraska.

Study Population

According to the United States Department of Agriculture (USDA), National Agricultural Statistics Service (NASS) (2005), there were an estimated 266,500 total agricultural operations in 2004 in the five states addressed in this study that accounted for 12.6% of operations, nationally, with the following breakdown by state: Minnesota - 79,800; Nebraska – 48,300; North Dakota - 30,300; South Dakota – 31,600; Wisconsin - 76,500. There were an estimated 477,320 persons living on these operations (United States Census Bureau, 2000). These states collectively represented a broad range of types of agricultural production and are among the leading agricultural producers in the nation. At the national level, in 2003/2004, participating states comprised: five of the top ten producers of oats; four of the top ten for corn, soybeans, all wheat, spring wheat, sunflower, cattle/calves, and honey producers; three of the top ten for dry edible beans, all hay, all potatoes, sugar beets, flaxseed, cattle/calves on feed, hogs marketed, total cheese, American cheese, and mink pelt producers; and two of the top ten for barley, canola, sweet corn, green peas, milk cows, cattle/calves marketed, hogs and pigs, pig crop, eggs produced, and milk production (Minnesota Agricultural Statistics Service, 2003).

Sampling Frame

The USDA's NASS Master ListFrame of agricultural operations for each state was used as the basis for sampling operations. The Master ListFrame is updated and maintained on a regular basis by individual state NASS offices through cross-checks with lists maintained by other agencies (e.g., permits for feedlot manure disposal maintained by state pollution control agencies and lists of operators, maintained by county agricultural stabilization and conservation service offices, etc.), and through routine interview contacts, conducted by the NASS, once every three years. The USDA NASS Master ListFrame was selected as the most appropriate source of information on agricultural operations since it is managed comparably in each state throughout the US; it was also used in the OATS (Gerberich et al., 2001), RRIS-I, 1990 (Gerberich et al, 1993), and RRIS-II efforts in 1999 and 2001 (Gerberich et al., 2003; 2004) Criteria for inclusion in the sample selected, were: the annual sale of ≥$1,000 dollars of agricultural products or involvement in a Conservation Reserve Program (CRP); farming/ranching during the past year; and having a household that included children less than 20 years of age.

Study Sample

From the NASS Master List Frame, a random sample of 6,400 farming and/or ranching operations was generated for each state included in the study (MN, WI, ND, SD, and NE). This accounted for a total of 32,000 households selected for study from this population. The final sample size was twice the initial

proposed sample size (16,000 operations) due to lower than expected eligibility and participation rates identified during the first month of telephone interviews. Inclusion of additional operations was readily facilitated because USDA NASS always oversamples to accommodate comparable situations.

Definitions

Household members were defined as anyone who was a part of the household for any period of time during the study period, including students away at college, children who resided in multiple households, and those who moved out of the household or died. The definition for injury, used in numerous previous research and data collection efforts, was: any injurious event that met one or more of the following criteria: *restricted normal activities for at least four hours; resulted in loss of consciousness, confusion, or memory loss for any length of time; required professional health care,* including that administered by a doctor, nurse, dentist, chiropractor, or other health care professional. In this study, agricultural-related injuries were defined as those having resulted from any source/vehicle or activity related to an agricultural operation, including such things as transportation on roadways or raising animals for recreational or home use, as well as any injury that took place as a result of standing or playing in areas where farming or ranching activities were taking place.

Data Collection

Initial contact with the farm households selected for the study was made after the first of January 2007. This consisted of an introductory mailing (**Appendix A**), followed by a brief screening/participation interview (**Appendix B**), attempted for the 32,000 households to determine eligibility and request participation in the study. The mailing included a letter of introduction from the respective USDA state NASS offices, as well as a letter from the study investigators, explaining the project in more detail. Subsequent to the mailing, telephone calls to administer the screening/participation interviews, were attempted to the selected households by USDA NASS interviewers who were specially trained and supervised by research team members; telephone interviews were primarily facilitated from a NASS interviewing facility in Kentucky; USDA NASS call centers in Oklahoma and Montana also contributed to baseline interview completion after expansion of the original sample size. Interviewing was implemented using Computer-Assisted Telephone Interviews (CATI) data collection instruments. The timing of each of the individual study interviews is summarized in **Figure 1**.

Screening Interview

Screening interviews began in February 2007 and were used to determine eligibility and solicit participation. If the agricultural operation had an associated household that included at least one child 19 years of age or younger as of January 1, 2007, was actively farming or ranching and produced or had annual sales of agricultural goods of at least $1,000 in the previous year, or had land in the Conservation Reserve Program (CRP) on which household members were working, as of January 1, 2007, the household was asked to participate in the study. Operations that did not meet these eligibility criteria were excluded from the study. Details of the subsequent telephone interviews that would be involved as a participant, as well as rights regarding participation and informed consent, based on federal guidelines for protecting human subjects in research, were addressed in the initial mailing as well as during the screening/participation interview. Contacted households were offered the opportunity, regardless of study eligibility or participation, to be included in a drawing for a $100 U.S. Savings Bond (Series EE). Each household had a minimum opportunity of 1 in 32 to receive one of the 1,000 savings bonds that were available.

Baseline Interview

Once eligibility was established, and there was agreement to participate, consent was obtained to continue immediately (or with a call-back) with the Baseline Interview; this interview enabled collection of household demographic information, agricultural operation characteristics, health quality status/disability

information (physical, psychosocial, economic), and data specific to characteristics and behaviors of the children/youth (**Appendix C**).

Following the Baseline Interview, comprehensive packets of information were sent to each participating household prior to the two injury interviews. This packet contained: 1) cover letters from the respective state USDA NASS offices and from the study investigators; 2) a log to maintain ongoing information pertinent to injury occurrences during the specified six-month reporting period, according to the injury definition; and 3) telephone interview information cards that were designed to facilitate the interviewing process. (Refer to **Appendix D.)**

Injury Interviews

Two Injury Interviews (**Appendix E**) were implemented to collect injury data for all household members for the two six-month periods in 2007. Contacts to the participating operation households for injury interviews #1 and #2 started in August 2007 and February 2008, respectively, to collect injury-related data for the first and second six-month periods in 2007 (**Figure 1**).

Follow-Up/Evaluation Interviews

Six-month follow up interviews were administered, starting in February 2008 and August 2008 to identify the longer-term consequences of injuries ascertained in injury interviews #1 and #2, respectively. Four Evaluation Interviews (**Appendices F and G**), conducted at one- and two-years after each injury interview, were conducted in August 2008, February 2009, August 2009, and February 2010 (**Figure 1**). The households of all youth who reported eligible injuries during the injury ascertainment period, and a sample of households with all children at risk of sustaining injury, but did not report an injury during the study period, were re-contacted for the follow-up evaluations. Three control households were sampled at random from all eligible controls for each household with an injured child. Data collection for the Evaluation Interviews was comparable to that collected in the Baseline Interview, enabling identification of changes between baseline and long-term follow-up periods, comparing households with injured children to those with non-injured children.

Data collected to examine long-term consequences of injuries

In addition to demographics pertinent to the household members, and the agricultural operation characteristics, specific data were collected at baseline and follow-up pertinent to the children/youth that address various physical, psychosocial and behavioral characteristics. These characteristics included: height/weight; specific grade in school; school performance; agricultural activities; behavioral characteristics; and parental monitoring/strictness/perceptions of hazards. Of further importance, was the data collection pertinent to health status-quality of life and disability with consideration of physical, psychosocial and economic status measures that may affect not only the injured children but, also, the family and operation. Key measures for the study included: existing disability and chronic conditions for adults and children; health care utilization; health-related quality of life and general quality of life; lost work time to care for ill or injured children; social consequences of children's injury or health conditions on the family, measured at baseline, and at follow-up.

Pre-existing Disability and Illness*:* Both adults and children were assessed at baseline and evaluation interviews for pre-existing disability and/or limitations associated with injury/illness and whether or not the limitations were the result of an injury related to agricultural work. All household members were asked about recent stress levels and whether or not they had any of the following diagnosed health or medical problems: asthma; heart-related problems; diabetes; hearing problems; vision problems.

Health-Related Quality of Life (HRQL) and Disability*:* The Health Utilities Index-Mark 3 (HUI-3) was used to assess the HRQL and disability of the key respondent, and by proxy interview, their children, and all other adults. The HUI-3 utilizes a 4-week recall period. This measure includes a health-status classification system and a preference-based scoring formula that was originally developed for the 1990 Statistics

Canada Ontario Health Survey; data on population norms are available. It has eight attributes (vision, hearing, speech, ambulation, dexterity, emotion, cognition and pain) with five to six levels per attribute. As described by the developers, a multiplicative multi-attribute utility function translates the categorical data on health status into interval scale attribute utility scores (reflecting the morbidity in that dimension of health status) and overall HRQL utility scores reflecting global quality of life (Feeny et al, 1999). Single attribute utility scores are defined on a scale such that the worst level has a score of 0.0 and the best level has a score of 1.0. For the multi-attribute score for overall HRQL, 0.0 = dead and 1.0 = perfect health.

Quality of Life*:* A one-item measure of global quality of life, a person's overall judgment of their current quality of life scored from 0 (the worst possible life overall) to 10 (the best possible life overall) (Midlife in the United States (MIDUS), Brim et al., 2004) was used for the key respondent, and by proxy, for their children, and all other adults.

Parental Impact and Family Function*:* three measures including Parental Impact-Emotional, Parental Impact-Time, and Family Activities were asked of the parent to assess the impact of the child's injury or health condition on the family. Each of these measures is taken from the Child Health Questionnaire (CHQ) (Landgraf et al., 1996). The CHQ was designed to meet the needs of large-population-based studies and was derived and empirically tested beginning in 1995. Reliability coefficients and norms for all measures from the CHQ are available for the general US population and by child gender:

Parental Impact-Emotional*:* a two-item measure of the degree to which a parent experiences emotional worry/concern as a result of a child's physical and/or psychosocial health, using a four-week recall period.

Parental Impact-Time*:* a two-item measure of the degree to which a parent experiences limitations in time available for personal needs due to a child's physical and/or psychosocial health using a four-week recall period.

Family Activities*:* a two-item measure of the degree to which the child's health limits and interrupts family activities or is a source of family tension, using a four-week recall period.

Key Respondents

The female head of household was the preferred key respondent for the collection of operation related data, socio-demographic information on the members of the household as well as the identification of any injury events incurred by persons associated with the agricultural operations and respective households (Gerberich et al., 1991; 1993; 2003; 2004). If there was no female head of household or she was unavailable the male head of household became the preferred key respondent for all aspects of the data collection.

Interviewer Training and Quality Control

The USDA Agricultural Statistics Service interviewers are highly experienced in conducting telephone surveys that focus on agricultural topics. As a result, they are familiar with agricultural terminology and are experienced in interviewing farmers/ranchers and associated household members. The interviewer training manuals, developed for RRIS-II, were revised for use in the current effort (**Appendix J**). These manuals were used as the basis for interviewer training as well as serving as a reference for them. Based on training procedures, developed in RRIS-II, special interviewer training programs were conducted by key personnel who focused on the nature and purpose of the project, the overall project protocol, and on the specific use of the interview instruments. Following NIH guidelines, USDA staff were trained and certified on the use of human subjects in research. Training also placed particular emphasis on the process used to identify subjects who were injured during the study period and to obtain accurate information on these events. Interviewer training included classroom instruction, demonstration of the CATI instrument, and system, and practice interviews using pre-established scenario scripts. In addition, the interviewing process was

monitored by USDA Agricultural Statistics Service supervisory staff, in concert with the project coordinator and study investigators.

Data Processing

The majority of coding and data entry was incorporated into the interview process as part of the CATI instrument. This system also enabled immediate identification of inappropriate or out-of-range responses so that clarifications could be made during the course of the interviews.

Variables related to the nature of the injury and the characteristics of the injury event, including source and mechanism, were recorded in a narrative fashion and coded later, using the International Classification of Diseases–Tenth Revision, External Cause codes. Project management information for items such as the disposition and status of interviews was provided by the data management capabilities of the CATI system. De-identified data files generated by the CATI system were transferred to the University of Minnesota research team for data processing and analyses. Project staff was responsible for ongoing management of the data files and for developing comprehensive computer programs for conducting analyses of the respective project components.

Analyses

The primary goals of this effort were to identify the short- and long-term physical disability, psychosocial, and economic consequences resulting from injuries incurred among children ≤19 years of age who resided in agricultural operation households. A portion of the analyses, pertinent to incidence, focused on the calculation of injury rates (e.g., per 1,000 operations, 1,000 persons, and 100,000 hours of work), based on age and gender and characteristics of the events (e.g., source/vehicle, restricted time, etc.). Extensive descriptive analyses were conducted on the consequences of injury, including identification of health care required, restriction from various types of activities, persistent problems/permanent disability and relevant costs, including out-of-pocket health care costs for household members. Relevant data collected on adults was used for descriptive (rate calculations) and analytic purposes and to control for potential confounding. For estimation of annual risks and rates of injury, and for comparing risks among subgroups of interest, logistic and Poisson regressions were used with appropriate adjustment for unit correlation and non-response (see Bias Evaluation and Statistical Adjustments section).

Most importantly, through the unique research design, multivariate analyses were utilized to determine potential physical, psychosocial and economic consequences of both injury experience and the total injury burden through comparisons of the follow-up evaluations with the baseline data on health status (physical and psychosocial) and economic status between households with injured and non-injured persons. Important metrics included differences in the baseline-adjusted measures, between the injured and the non-injured, which was estimable at each of the four post-injury evaluation time points. For example, for the HUI, the resulting difference profile was adjusted for relevant confounders, and examined not only at specific time points, but in its integrated form as well. Potential confounders included: age; gender; history of previous injuries; limitations; and other factors. A confounder-selection strategy using causal diagrams, and relevant directed acyclic graphs (DAGs) was employed for each causal contrast of interest and to guide estimation of specific effects as suggested by the work of Greenland et al. (1999), and as illustrated by Hernan et al. (2002). This strategy, which enables the most appropriate variable selection for the multivariate model analysis, has been used by the investigators in previous analyses (Gerberich et al., 2002; 2003; 2004; 2005).

Logistic regression models were used to examine differences in bivariate outcomes from baseline to one-year and two-year post-injury evaluations, between households with injured children and those without. Cumulative logit models were used to determine differences in ordinal outcomes between injured and non-injured children at one- and two-years after the injury reporting periods. The HUI-3 utility scores were collected at three time points post injury-reporting period: one month; one-year; and two-years. Mixed

models were employed to evaluate the impact of injuries on HUI-3 scores, over time, using a repeated measures design. For the continuous responses obtained from the HUI-3 and differences in HUI-3, the mixed effects, hierarchical model provides a natural interpretive framework (e.g., every household has its average expected HUI_3 score).

Managing Health System Cost Data

Health care services costs were extracted for patients ages 0 through 19 years of age, for fiscal year 2007 (July 1, 2006 through June 30, 2007), from Miller-Dwan Medical Center, St. Mary's Medical Center, and Duluth Clinic, all based in Duluth, MN. Data for each encounter contained ICD-9CM disease and injury codes (hospital, emergency department, clinic and urgent care), ICD-9CM procedure codes (hospital and emergency department), and CPT codes (clinic and urgent care), which were classified into categories for: Examination, Follow-up examination, Illness, Injury, Allergy, Mental Health, Dental, Surgery, Immunizations/shots, Other treatment/procedures, Therapy, Laboratory testing, X-ray, Other radiologic testing (MRI, CATSCAN, Sonogram or ultrasound), Other diagnostic tests. Encounter data were then combined to create individual episodes of care, such as combining laboratory charges associated with an ancillary department with same day pediatrics well-child examination charges and same day pediatrics department immunization charges. Episode facility was then coded as Clinic, Urgent Care, Emergency Department, Hospital Outpatient, Hospital Inpatient, and Therapy.

Hospital inpatient data: were collapsed into four categories to match those in the RRIS-III interview: Operation or surgical procedure, Treatment or therapy (not including surgery), Diagnostic tests only, and all others. Mean cost per day was computed for each category, with same day discharge treated as one day of care. Because the RRIS-III hospitalization interview also asked a single question about whether an emergency department visit preceded the hospitalization, the cost of emergency department care had to be included when appropriate. Initial analysis identified the fact that mean overall cost of emergency department care was significantly higher for older children, so mean cost of emergency department care was computed for those 0 years, 1-4 years, 5-9 years, 10-14 years and 15-19 years, for use in hospitalization cost computations.

Emergency data: Because the RRIS-III interview collected detailed emergency department visit data for numerous services (Laboratory tests, X-rays, Other radiologic tests [MRI, CATSCAN, Sonogram or ultrasound], Other diagnostic test(s), Other treatment, and Surgical procedures), a linear regression analysis was performed on the health care services emergency department episodes cost of care data to identify the base cost of emergency department episodes, as well as the added cost associated with each of the identified services.

Therapy: RRIS-III therapy service utilization was collected and managed only as aggregate counts across types of therapy, including speech, physical therapy, occupational therapy, psychological counseling, and others. Because of the wide range of types of services included in this category, the median cost of all Therapy episodes, across all therapy services, was computed.

Other Health Care: Again, to mirror the level of detail collected within the RRIS-III interview, data associated with care provided by other health care providers were classified into the following categories: Well child and general examination, Immunizations and shots, Walk-in or Urgent care center, Free-standing surgical center (substituted hospital outpatient surgery), Diagnosis and treatment, Follow-up or post-operative visit, Dental, and Other health care visits. Mean cost per episode of care was computed for each *category.*

Computing Health Care Costs

Hospital inpatient data: Each reported hospitalization was reviewed for classification into one of the four categories: Operation or surgical procedure, Treatment or therapy (not including surgery), Diagnostic tests only, and all others. Total cost of hospitalization was computed by multiplying mean FY07 cost for the

identified category by the reported number of days hospitalized. If a pre-hospitalization emergency department visit was reported, the FY07 mean emergency department cost associated with the subject's age group at the beginning of the interview period was added. Aggregate cost of hospitalizations was computed by summing the cost of all subject hospitalizations within the interview period.

Emergency department data (not preceding hospitalization): Each reported emergency department visit was reviewed for classification of all services received during the visit: Laboratory tests, X-rays, Other radiologic tests (MRI, CATSCAN, Sonogram or ultrasound), Other diagnostic test(s), Other treatment, and Surgical procedure. Total cost of emergency department visits was computed by taking the FY07 base cost of emergency department episodes and adding the FY07 cost associated with each of the identified services. Aggregate cost of emergency department visits was computed by summing the cost of all subject emergency department visits within the interview period.

Therapy data: Total number of identified therapy visits for the interview period was multiplied by the identified median FY07 cost of therapy visits.

Other health care provider data: Each reported other health care provider visit was reviewed for classification into one of the eight categories: Well child and general examination, Immunizations and shots, Walk-in or Urgent care center, Free-standing surgical center (including hospital outpatient surgery), Diagnosis and treatment, Follow-up or post-operative visit, Dental, and Other health care visits. Total cost of other health care was set to the mean FY07 cost for the identified category. Aggregate cost of other health care was computed by summing the cost of all other health care received by the subject within the interview period.

Bias Evaluation and Statistical Adjustments

Measurement Error/Information

An important consideration in any epidemiologic study is the assessment of measurement error. Measurement error is thought by methodologists to be one of the most serious threats to the validity of epidemiologic study results because it can result in a large amount of bias (Maldonado, 1993; Greenland, 1994; Copeland et al., 1977; Dosemeci et al., 1990; Gilbert, 1991; Flegal et al., 1991; Wacholder et al., 1991).

It was anticipated that there was a potential for measurement error in the reporting of both injury events and baseline and follow-up data on Demographics and Health Status/Disability; this potential problem was addressed in several ways. Firstly, we aggressively minimized errors in reporting of these data. Secondly, we conducted a validation substudy to estimate the degree of measurement error due to self-reporting of physical injury. Finally, we included sensitivity analyses to assess the likely magnitude of bias due to self-reporting of exposures. While it is not technically possible to fully "correct" risk estimates for bias due to measurement error (Greenland and Kleinbaum, 1983), sensitivity analyses were incorporated using methods similar to those of Greenland and Kleinbaum (1983), Kleinbaum et al. (1982), and Drews and Greenland (1990).

The medical validation of reported injuries is important to evaluate the error in injury self-reporting, so that the extent of bias due to this error can be assessed. Although there was no comprehensive database with medical care records available for the total population, unlike that used in the Olmsted Agriculture Trauma Study (OATS, Gerberich et al., 1990), the following modification was employed for the current effort: 444 participants were included; 222 injured children and 222 non-injured children. Letters explaining the study and the subject's right to refuse participation were mailed to each participant's address by the USDA-NASS office in Saint Paul, Minnesota; a consent form that enabled release of the injury information to the study staff and a stamped, pre-addressed return envelope were also enclosed (**Appendix H**). The medical persons/sources to be identified were physicians, dentists, chiropractors, clinics, hospitals, and emergency departments, as appropriate. Upon receipt of the signed consent form, each medical care

person/source was sent a letter by the research staff at the University of Minnesota along with a copy of the consent form and a one-page questionnaire asking about any health care contacts by the person for injuries during a specified period that spanned at least six months on either side of the reported/potential event. These procedures allowed us to review the regular sources of health care used by both injured and non-injured persons to identify the effect of false negatives and false positives on the estimates of the incidence of injuries.

Adjustments for Non-Response and Multi-Level Correlation

Estimations and inferences for parameters such as the mean annual rate of injury (incidence), or the mean difference in HUI between subgroups (consequences), requires consideration of several issues in light of the study design. Non-response, uncertain eligibility, and unit correlation at the household and subject level are discussed below.

Household Non-Response

Potential bias can be introduced into the estimates based on the large proportion of non-participants among those households sampled and on the unknown eligibility among these non-respondents. Approaches were incorporated to correct for some of this bias. The database from which the sample was drawn was the USDA Master List Frame of active agricultural operations in the targeted five-state area. In addition to state, it contains information on type of operation and annual revenue associated with most of the operations. To the extent that household non-response varies by these characteristics, inversely weighting the respondents' data by the observed response fractions corrects for this bias (Horvitz and Thompson, 1952). In addition to the traditional Horvitz and Thomson adjustments, an additional adjustment for unknown eligibility was applied to correct for bias accounting for differential eligibility in the non-responders (Mongin, 2001), subject to certain assumptions about the response and eligibility probabilities in this population.

Longitudinal Non-Response

Basic HRQL data were collected on all youths, and relevant households through Baseline, and Evaluation/Follow-Up Interviews #1, #2, #3, and #4. These are longitudinal data, with the potential for non-response at any of these occasions. Rather than restrict the analysis to those with complete sets of data, mixed effect, hierarchical models incorporated all of the observed responses to maximize the use of this information for estimation of key parameters of interest (Laird and Ware, 1982; Lindstrom and Bates, 1988, 1990).

Within-Household and Within-Subject Correlation

For the continuous data arising from the HUI-3 (consequences), the mixed effects models with the appropriate adjustments for non-response were used (Laird and Ware, 1982; Lindstrom and Bates, 1988, 1990) to adjust for repeated measures on single subjects. For the binary incidence data, estimating parameters such as the annual risk of (at least one) injury requires procedures that have been found to be more robust to the small amount of information available to estimate hierarchical parameters, such as the component variances. Instead of mixed effects models, the Generalized Estimating Equations (GEE) approach works well in this case (Liang and Zeger, 1986; Zeger and Liang, 1986; Zeger, et al, 1988). For estimation of incidence rates, a GEE model for the correlation of injury counts within household was used, modeling each count as a realization of a Poisson random variable, incorporating subject-level as well as household-level correlation, while providing a robust computational procedure (SAS, 2000).

Savings Bonds

During the first six months of 2011 (and following completion of all data collection), households were randomly selected from among those that had agreed to participate in the drawing for the series EE U.S. savings bond ($100 denomination) during the first study interview. Selected households were sent Savings Bond application forms (**Appendix I**) that requested the name of the person to receive the bond and his/her

social security number (federal requirement to process the application). Households were oversampled with the goal of awarding the savings bond to the first 1,000 persons to return an application form. The information on these forms was used to complete the official EE U.S. savings bond applications forms, available from the U.S. Treasury. Completed forms were then mailed to the Federal Reserve Bank of Minneapolis for processing.

Results

Response Rates

Among the total 32,000 agricultural operations sampled, contact was made with 23,828 (74.5%) (**Table1**). Among the contacted operations: 14,360 (60.3%) were identified as not eligible, based on the study participation eligibility criteria; there was a known refusal rate of 32.7%; a total of 3,489 operations (14.6%) met the eligibility criteria. Of the eligible operations, 1,514 (43.4%) agreed to participate in the study.

Study Population

A total of 1,459 agricultural operations completed the baseline questionnaire. From these, 6,205 persons were followed through the study.

Slightly more than half (n=3,160; 50.9%) of the participants were less than 20 years of age. The highest proportions of participants were between the ages of 45 and 55 (19.5%), 35 and 45 (17.5%), and 15 and 19 (16.3%), while the smallest proportions were between the ages of 55 and 64 (3.3%), 20 and 24 (2.4%), and those 65 years or older (0.6%). Males accounted for a slightly higher proportion (50.7%) of participants than females (49.3%).

The majority (98.4%) of the participants identified themselves as Caucasian. The population was distributed through the five-state region of Minnesota (20.5%), Nebraska (19.8%), North Dakota (19.4%), South Dakota (20.4%), and Wisconsin (19.9%). When asked about the number of hours worked on their operation during the six-months prior to baseline (July 1st to December 31st, 2006), most (41.0%) reported working between one and twenty hours per week on their operation, while 28.2% reported working less than one hour, and 12.6% between 20 and 40 hours. Many participants (n=1,047; 16.9%) reported working more than 40 hours per week on their own operation.

Of the participants, 20 years of age and older (n=3,045), 29.6% had graduated from high school or obtained a graduate education degree (GED), 33.1% had completed some post-high school education (including technical school or some college), and 33.8% were college graduates or had engaged in post-graduate studies; only 3.1% were not high school graduates. Of those over the age of 16 years (n=3,849), 73.0% were married or living as married, while 24.4% had never been married, 1.7% were separated, divorced, or widowed.

Injury Rates

There were 578 injury events reported for the full 12-month injury-reporting period. These included 259 events related to agricultural activities on one's own or someone else's agricultural operation and 318 events were related to non-agricultural activities. Injury rates are presented in **Table 2**. The overall injury rate for the agricultural operations was 121.5 injury events per 1,000 persons per year, two times higher for males (163.0) than females (79.6), and comparable between participants aged 20 and older (124.6) and those <20 years of age (118.6). For events related to agriculture the rate was 53.9 events per 1,000 persons per year, 3.5 times higher for males (84.3) than for females (23.6), and 3.7 times higher for those 20+ years of age (85.1) compared to those <20 (23.1). The rate for injury events, related to activities other than agriculture, was 66.7 per 1,000 persons per year; the difference between genders was not as pronounced (78.1 and 55.1 per 1,000 persons for males and females, respectively); the trend for adults versus children was reversed with the rate among those <20 years of age (95.0 per 1,000 persons per year) being 3.7 times higher than the rate among those 20+ (38.2). Adults aged 55 to 64 years, and 65 years or older, had the highest rate of agricultural injury (126.2 and 120.5 injury events per 1,000 persons per year) while adults aged 55-64 years, and children aged 15-19 years, had the highest rate of non-agricultural injury (156.6 and 155.1 injury events per 1,000 persons per year).

By state, South Dakota was associated with the highest rate per 1,000 persons per year of overall injury events (153.0) while North Dakota had the lowest overall rate (106.0). For agricultural-specific injury

events, the rate of injury events was highest in South Dakota (70.7) and lowest in Minnesota (43.0). The rate of non-agricultural injury was highest in South Dakota (80.6) and lowest in North Dakota (51.5).

Injury event rates were calculated among different types of farming/ranching operations. Participants who lived on operations, where the primary enterprise was sheep, had the highest rate per 1,000 persons per year of agriculture related injury events (103.5); the lowest rate was on operations where the primary enterprise was a conservation reserve program (CRP) (13.3).

Regarding education status among adults, aged 20 years or older, those who had some high school but did not graduate had the highest rate of non-agricultural injury (85.0 injury events per 1,000 persons per year), while those whose highest education was high school graduate had the highest rate of agricultural injury (115.8). Those with a post graduate/professional school education had the lowest rate of agricultural injury (57.7) while those who were college graduates had the lowest rate of non-agricultural injury (20.6).

Differences in rates of injury, according to marital status, were also identified. Participants who were never married had an agricultural injury event rate per 1,000 persons per year (39.7) that was less than half the rate for those who were married/living as married or separated/divorced/widowed. For non-agricultural related injuries, however, those who were never married demonstrated the highest rate (85.1), more than twice that for those who were married/living as married (36.4).

Participants, who, at baseline, reported limitations, including pain, discomfort, or restricted activity as a result of previous injury had an agricultural injury event rate that was 4.8 times higher than the rate among those with no reported limitations; the rate for non-agricultural injury was 2.2 times higher).

Rates of agricultural-related injury appeared to be directly associated with the number of hours worked on their own farming or ranching operation per week. There was an increase in agricultural injury rate with each increase in 20-hour increment in farming/ranching hours worked per week. For <1, 1-20, 21-40, 41-60, and >60 hours worked, there were respective increasing rates per 1,000 persons per year (7.8, 36.1, 90.1, 137.9, and 165.2).

Injury Rates per Hours Worked

Rates of farming/ranching-related injury events, based on number of hours worked per year on the participants' own operation, are presented in **Table 3**. For several personal characteristics, comparisons of rates, for events per 100,000 hours worked, yielded results different from those using per-person rates. When accounting for hours worked on the operation, participants who worked on operations where swine was the primary enterprise had the lowest rate of agricultural injury (3.3). Also, when adjusted for hours worked on the operation, the agriculture-related injury event rate for females (5.3), was closer to that for males (6.3), and female adults (20+ years of age) had lower rates than female children (8.3 versus 4.4). Participants with a post graduate/professional school education had the highest injury rate (8.9), as did those who were never married (6.4). In contrast to per-person injury event rates, injury rates adjusted for hours worked were lower among participants who worked 21-40 hours per week (7.2 events per 100,000 hours) than among participants who worked 61-80 hours per week (4.7).

Characteristics and Consequences of Injury Events

Sources/Vehicles of Injury Events

As shown in **Figure 2**, animals were the primary source of agricultural activity-related injuries among both children below 20 years of age (41%) and adults 20 years and above (38%). For children, the majority of non-agricultural activity-related injury events were related to sports/recreation (63%), followed by motor vehicles (14%) (**Figure 3**); for adults, sports/recreation (14%), other non-farm work (14%), and motor vehicles (13%) were the most frequent sources.

Month/Season Associated With Injury Events

For those <20 years of age, the greatest frequencies of agriculture-related events were identified in the months of May, June, and July (18%, 18%, and 15%); by season, Spring (28%) and Summer (38%) were associated with the highest frequencies. For those 20+ years of age, Spring (32%), Summer (32%), as well

as Autumn (21%), were associated with the greatest frequencies, likely reflecting the respective activities of planting and harvesting (**Figure 4**).

For non-agricultural activity-related events (**Figure 5**), December had the highest frequency for children (14%), while June had the highest frequency for adults (16%). By season, Autumn (30%) was the most frequent among those <20 years of age and Summer (35%) was the most frequent for those 20+ years of age.

Anatomical Locations of Injuries

For children, ≤19 years of age, the arm/elbow/wrist (15%), finger(s)/thumb (15%) and foot/heel (15%) were the most commonly reported injured body parts among agriculture-related injury events (**Figure 6**). For adults, the back (20%), leg (12%) and spinal cord/spine (11%) were the most frequently injured body parts. Among non-agricultural activity-related injury events (**Figure 7**), the most commonly reported injured body parts for children were the arm/elbow/wrist (16%), ankle (16%) and knee (11%); for adults it was the arm/elbow/wrist (14%), back (12%), and knee (9%).

Types of Injury

For children, ≤19 years of age, the most commonly reported types of injury among agriculture-related injury events (**Figure 8**) were bruise/contusion (28%), cut/laceration/scratch (16%), fracture/dislocation (11%) and sprain/strain (10%); for adults, it was sprain/strain (29%), bruise/contusion (21%) and cut/laceration/scratch (14%). Among non-agricultural activity-related injury events (**Figure 9**), the most commonly reported types of injury for children were fracture/dislocation (31%), sprain/strain (26%) and cut/laceration/scratch (14%); for adults it was sprain/strain (31%), fracture/dislocation (20%), and bruise/contusion (18%).

Location of Health Care Received

Respectively, agricultural activity-related injuries were most frequently treated at doctors' offices for adults and children (35%, 34%), followed by hospital emergency departments (22%, 31%) (**Figure 10**; 22% of the injuries to adults were treated at a chiropractor's office (5% of child injuries). Both agricultural and non-agricultural injuries among children (**Figures 10, 11**) were treated more frequently at hospital emergency departments (31%, 36%) than were adult injuries (22%, 23%). Almost a fourth of all agricultural activity-related injury events incurred by both adults and children resulted in no treatment.

Restriction of Normal Activities

Over 30% of agricultural activity-related injuries among adults and children resulted in restricted activities for one to less than seven days (**Figure 12**). Only 7% of agricultural injuries among children resulted in no restriction of activities, less than half that of adults (15%). The frequency of non-agricultural activity-related injuries (**Figure 13**) that resulted in 3+ months of restricted activity was three times higher for adults (16%) than for children (5%).

Comparing injury event consequences between short-term follow-up periods

When comparing consequences of agricultural and non-agricultural injuries to children between those that occurred within the six-month injury reporting period and those in the six-months following the injury reporting period (**Figures 14 and 15**), the following consequences were all significantly reduced in frequency: treatment by a health care professional; persistent problems; operations/surgeries; missed ≥1 days from school; and restricted activity for ≥7 days. Interestingly, out of pocket expenses of $500+ for medical care of non-agricultural injuries incurred by children increased in frequency from the short-term (19%) to the near short-term (25%). Consequences of agricultural and non-agricultural injuries to adults were also compared between short-term follow-up periods (**Figures 16 and 17**). Frequencies of treatment by a health care professional, persistent problems, and restricted activity for ≥7 days were 1.5 to 2 times higher within the six-month injury reporting period compared to those in the six-months following the injury reporting period.

Comparing long-term characteristics between case and control households and between injured and non-injured children

A total of 100 case households and 366 control households were selected for follow-up interviews at one- and two-years following the first injury-reporting period. The corresponding selected households for the second injury-reporting period were 115 case households and 413 control households. Among case households there were 117 children with reported injury events in the first injury-reporting period and 122 injured children reported for the second period. Among both case and control households, there were 899 and 1048 non-injured children reported for the injury-reporting periods one and two, respectively.

Lost Work by Household Members

Logistic regression models were used to measure associations between case/control household status and lost-work outcomes (**Table 4**) at one- and two-years after each injury reporting period. Models were adjusted for the baseline measure of the lost-work outcome as well as other relevant covariates. At two years subsequent to the injury reporting periods, case households were over six times more likely than control households to have any household members who were unable to do usual child care or home chores or care for other family members because of time spent caring for an injured or ill child. A subset of case households, having children who incurred serious injuries (resulting in restricted activities of ≥7 days) was also compared to control households for each of the outcomes (**Table 4**). Case households with children who reported severe injuries were more likely to have household members who missed days of work or chores related to the farming or ranching operation due to a child's injuries, illnesses or health conditions at one-year after the injury reporting period.

Health Care Utilization and Costs

Logistic regression was used to measure associations between case/control household status and increases (no to yes versus no change/yes to no) in health care utilization or out-of-pocket medical expenses from baseline to one- and two-years after each injury-reporting period (**Table 5**). Case households, with children who reported severe injuries that resulted in restricted activities of one week or more, were associated with increased utilization of a doctor or other health care provider at both one- and two-years after the injury reporting period. However, no associations were found between case/control household status and increases in out-of-pocket medical expenses at the one- and two-year time points. Associations between child injuries and health care costs were also examined (**Table 6**). Injuries among children were associated with increases in Other Health Care and Total Health Care costs between baseline and one- and two-years after each injury reporting period. Child injuries were also associated with an increase in Emergency Department costs between baseline and the two-year follow-up.

Child Emotional and Behavioral Characteristics

Cumulative logit models were used to determine differences in ordinal outcomes between injured and non-injured children at one- and two-years after the injury reporting periods. These outcomes included behavioral and emotional characteristics that were measured using 4-point and 10-point rating scales (**Table 7**). Models were adjusted for the baseline measure of the outcome as well as other relevant covariates. Child injury status was not associated with frequency ratings for: working hard; completing chores; being irritable; or having low energy. Children who incurred injuries were more likely to feel sad more frequently at one-year after the injury reporting periods compared to non-injured children.

Health Status and Quality of Life

The Health Utilities Index-3 (HUI-3) was used to measure health status and health-related quality of life for all children five to 19 years old. Mean HUI-3 multi-attribute utility scores and HUI-3 single attribute utility scores for vision, hearing, speech, ambulation, dexterity, emotion, cognition, and pain were calculated from responses at one- month, one-year and two-years after each injury reporting period (**Figures 18 to 26**).

Mixed models were used to examine the associations between child injury status and changes in mean HUI-3 utility scores from baseline. Models included the following covariates: age; gender; previous limitations from injury; and prior health conditions. Children with reported injuries were associated with a decrease in the mean multi-attribute HUI-3 score at one-month and at one-year after the injury reporting period (**Table 8**). Injured children were also associated with a decrease in the single attribute HUI-3 utility score for emotion at the same time points. A decreased score for cognition at one- and two-years after the injury reporting period was associated with being injured. The mean utility scores for pain were decreased (more pain was experienced) among injured children at all three-post-injury period evaluation time points.

Health Care Validation Sub-Study

In the health care validation sub-study, permission was requested from the households of 444 children (222 injured and 222 non-injured) to contact health care providers that may have seen the selected children during a time interval that overlapped the study's injury reporting period. A single mailing was sent to all participants and included a consent form, copies of the letter and a form that would be sent to health care providers upon consent, and a form authorizing the USDA NASS office to release the information to the University of Minnesota research team. Responses were received for 22 children (5.0%), including 13 injured and 9 non-injured children, that provided consent to contact 37 health care providers to validate treatment of injuries for each child. A total of 29 clinics (78.4%) returned the form, indicating whether or not an unintentional injury occurred during the specified time period.

Savings Bond Drawing

Three separate mailings of 1,000 packets, each, were sent to randomly selected households who had initially indicated they wished to participate in the U.S. Savings Bond drawing. This mailing was conducted during the first six-months of 2011 to notify them that they had been selected to receive a series EE U.S. savings bond ($100 denomination). While the total response to the total mailing to 3,000 households, was less than 40%, the savings bonds were successfully awarded to the first 1,000 persons to return an application form.

Discussion

Potential Limitations

Within any observational study, there is always a potential for biased results. In this study, every effort was made to minimize potential bias; these efforts are identified below and are further elaborated upon in the methods section.

Potential for:	***Strategies Used to Control:***
• **Recall bias**	- 6-month recall period for injury events - 4-week/6-month recall for long-term consequences - Validation substudy
• **Response bias**	Adjustments: within-household correlation (Liang and Zeger, 1986) and non-response (Mongin, 2001; Horvitz and Thompson, 1952)
• **Misclassification**	Rigorous development and testing of data collection instruments; rigorous training of interviewers; validation and reliability substudies; sensitivity analyses (Rothman and Greenland, 1999)
• **Confounding**	Use of: Conceptual Model; prior study information (RRIS-II); Directed Acyclic Graphs to select confounders (Greenland et al., 1999); application of sensitivity analyses

For the injury data collection portion of the study, subjects were asked to recall specific injury events during two six-month periods. Recall bias is inherent in any study that utilizes interviews to obtain retrospective exposure and/or outcome information. The likelihood for this bias was decreased in the RRIS-

III research efforts by utilizing two six-month recall periods, rather than a 12-month period. This approach was based on the OATS validation data, which suggested using two six-month reporting periods and designating the female head of household as the preferred respondent for the injury and demographic information in order to enhance quality of reporting (Gerberich et al., 1991;1993;2003;2004). In addition, a study that assessed a three-year recall of self-reported injury found that self-reporting is adequate to enumerate injuries occurring in a six-month period (Braun et al., 1994).

Many of the variables used to measure long-term consequences of injuries in the RRIS-III effort had a 4-week recall period, including the HUI-3 that used this recall period to measure the current status of health-related quality of life attributes and to track changes in health over time (Horsman et al., 2003).

Selection bias due to non-response is also a potential concern. Thus, the types of injuries and consequences experienced by those who did not participate in the study are unknown. However, potential selection bias was controlled by inversely weighting observed responses with probabilities of response (Horvitz and Thompson, 1952), estimated as a function of characteristics available from the NASS Master ListFrame. To account for unknown eligibility among non-respondents, probability of eligibility was estimated for these same characteristics (Mongin, 2001).

Another limitation is the potential for misclassification. To minimize this possibility, rigorous development and testing of data collection instruments and pertinent training of interviewers were implemented; validation and sensitivity analyses (Rothman and Greenland, 1998) were also incorporated. Despite low response rates for the validation studies, sensitivity analyses enabled determination of the potential range of effects for key exposures of interest. A low response was not unexpected; the recent heightened sensitivity of the public, pertinent to health care record access, likely contributed to the low response, particularly because they were requested to identify provider names for a specific period of time. Future strategies need to be tested to optimize such validation efforts, with attention to the issues identified, given that procedures similar to those incorporated in this study have been successful in prior studies of other populations (Gerberich et al., 1983; 1987).

With regard to the potential for confounding, this was limited by application of the conceptual and causal models that were based on prior studies (RRIS-I; RRIS-II), conducted by the investigators. The use of DAGs to select confounders (Greenland et al., 1999) would be expected to further minimize this bias. Sensitivity analyses enable further assessment of the quality of the analyses.

Discussion of Key Findings

The overall rates of injuries for this population are lower than those reported in the 2001 RRIS II (Gerberich et al., 2002; 2003) with overall event rates of 124.6 and 118.6 per 1,000 persons per year, for those 20+ and <20, compared to 176.0 and 145.9 in 2001. The population rates for injury events associated with agricultural activity and those related to activities other than agriculture (53.9 and 66.7, respectively) were lower than those reported in the 2001 RRIS II effort (74.6 and 81.4). While rates of agricultural activity-related injury events appear much greater in males than females and those 20+ years versus <20 of age, when 1,000 persons is used, this effect is diminished with the application of 100,000 hours worked in the denominator; also, females have higher rates than males when age groups <20 years are considered. This effect has also been shown in previous studies (Gerberich et al., 1991; 1993; 2002; 2003).

Similar to previous population-based studies, animals were an important source of agriculture-related injury for both major age groups (Boyle, et al., 1997; Cogbill et al., 1985; 1991; Erkal et al., 2008; 2009; Gerberich et al., 1991; 1993; 2003; 2004; Nordstrom et al., 1995; Rasmussen et al., 2000; Stueland et al., 1991). Increased severity of injuries to children, versus adults, was suggested by the finding that injuries incurred by children were treated more frequently at emergency departments than were adult injuries. Most of the direct consequences of injuries reported in this study decreased substantially in frequency between

the short-term (within six-months of the injury) and near short-term (during the six-months after the injury-reporting period).

Multivariate models, with adjustment for relevant covariates, did not show any association between child injuries and increases in out-of-pocket household medical expenses in the longer term. However, children with severe injuries were more likely to have sought medical care at one- and two-years after the injury-reporting periods; long-term increases in health care costs from baseline were also associated with injured children. A long-term decrease in health related quality of life, as measured by the HUI-3, was associated with child injury, thus, increasing the evidence for long-term changes in health outcomes among injured children versus non-injured children in agricultural households. There was some indication of the possible effect of these changes on other household members, as well, with the finding that case households with severely injured children were more likely to have household members who lost work time due to a child's injuries, illnesses or health conditions at both one- and two-years after the injury reporting periods.

Conclusions

This study is one of the first to address a serious deficiency in knowledge about the long-term consequences and overall burden associated with agricultural injuries. Important long-term changes in physical, emotional, and economic characteristics were identified, not only for injured children, but also for other household members due to the children's injuries. It is important to note that these long-term changes in personal and household characteristics may not all be directly related to the initial injury event reported during the first year of data collection. As shown in previous studies (Gerberich et al., 2002; 2003), prior experiences with injury are strongly associated with subsequent injury events, a finding that suggests that some individuals are at greater risk, by virtue of their environments in which there are higher frequencies of hazardous exposures due to the types of operations and associated activities.

When combined with results from previous efforts (Gerberich et al., 2003), that identified potential risk factors for injuries to children on agricultural operations, these results can help to identify types of agricultural operations and farming or ranching environments in which prevention and control efforts can prevent long-term risk of injury and the associated consequences.

PUBLICATIONS AND PRESENTATIONS

Ryan AD, Gerberich SG, Alexander BH, Renier CM. Regional Rural Injury Study Iii: The Roles of Injury Type and Injured Body Part in Determining Short- and Long-Term Consequences of Injuries Among Children on Agricultural Operations. *Presented at the 11th World Conference on Injury Prevention and Safety Promotion*, Wellington, New Zealand, 2012.

Renier CM, Gerberich SG, Ryan AD, Alexander BH, Church TR, McGovern PM, Masten AS, Mongin SJ. Individual and Household Characteristics Associated with Adult Longitudinal Health Status Assessment: Regional Rural Injury Study-III (RRIS-III*). Presented at the International Society for Quality of Life Research (ISOQOL) 19th Annual Conference*, Budapest, Hungary, 2012.

Alexander BH, Gerberich SG, Ryan AD, Renier CM, Church TR, Masten A, McGovern PM, Mongin SJ. Regional Rural Injury Study III: Short- and Long-Term Work-Related Consequences Associated with Injuries among Children on Agricultural Operations. National Institute for Occupational Safety and Health National Occupational Injury Research Symposium Meeting, Morgantown, West Virginia, October 18-20, 2011.

Renier CM, Gerberich SG, Ryan AD, McGovern PM, Alexander BH, Church TR, Masten AS, Mongin SJ. Health Utilities Index-3 Among Injured Youth Residing in Agricultural Households: Regional Rural Injury Study-III (RRIS-III). *Presented at the International Society for Quality of Life Research (ISOQOL) 18th*

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Gerberich SG, Alexander BH Ryan AD, Renier CM, Church TR, Masten A, McGovern PM, Mongin SJ. Short- and Long-Term Lost Work Time and Household Income Changes Associated with Work-Related Injuries among Children on Agricultural Operations: Regional Rural Injury Study III. *Presented at the 3rd North American Congress of Epidemiology*, Montréal, Quebec, Canada, June 2011. [Presented by BHA]

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Renier CM, Gerberich SG, McGovern PM, Masten AS, Alexander BH, Church TR, Ryan AD, Mongin SJ. Health Utilities Index-3 (Hui-3) Differences among Children Residing in Agricultural Households in a Five-State Region of The United States: Regional Rural Injury Study-III (RRIS-III). *Presented at the International Society for Quality of Life Research (ISOQOL) 15th Annual Conference,* Montevideo, Uruguay, October 2008.

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TABLE 1
Household Participation

	N	%
Sample of Operations	**32,000**	**100.0**
No Contact/Inaccessible	8,172	25.5
Contact Made with Operation	**23,828**	**100.0**
Refused before Qualifying	5,835	24.5
Known – Not Eligible	14,360	60.3
Known – Eligible	3,489	14.6
Other	144	0.6
Known Eligible Operations	**3,489**	**100.0**
Participated	1,514	43.4
Refused after Qualifying	1,960	56.2
Other	15	0.4

TABLE 2
Person and Event Injury Rates† Per 1,000 Persons/Year among Agricultural Operation Household Members

		Agriculture-Related		Non Agriculture-Related		Total	
		Rate	(95% C.I.)	Rate	(95% C.I.)	Rate	(95% C.I.)
	Number Exposed*	Injured persons per 1,000 persons	Events per 1,000 persons††	Injured persons per 1,000 persons	Events per 1,000 persons††	Injured persons per 1,000 persons	Events per 1,000 persons††
Total Population	4,138	54.3 (47.3, 62.4)	53.9 (46.4, 62.7)	67.6 (59.5, 76.7)	66.7 (58.3, 76.3)	121.9 (110.7, 134.0)	121.5 (109.3, 135.1)
State of residence							
Minnesota	908	42.1 (29.4, 59.9)	43.0 (29.6, 62.3)	72.7 (55.4, 94.8)	72.7 (54.7, 96.5)	112.6 (89.7, 140.5)	115.2 (90.9, 146.2)
Nebraska	788	49.6 (36.7, 66.7)	48.2 (35.0, 66.4)	65.8 (49.9, 86.4)	60.1 (45.4, 79.4)	117.3 (95.6, 143.1)	110.3 (88.0, 138.20
North Dakota	839	52.6 (37.8, 72.7)	53.7 (37.4, 77.1)	48.6 (34.6, 67.8)	51.5 (35.6, 74.4)	100.6 (78.1, 128.5)	106.0 (79.3, 141.8)
South Dakota	756	73.3 (56.0, 95.3)	70.7 (53.7, 93.2)	77.4 (59.1, 100.8)	80.6 (60.4, 107.4)	151.6 (124.5, 183.3)	153.0 (124.5, 188.0)
Wisconsin	847	57.8 (41.8, 79.4)	55.6 (38.3, 80.7)	75.7 (56.9, 99.9)	70.1 (52.5, 93.7)	132.3 (107.5, 161.7)	126.0 (101.0, 157.2)
Primary enterprise							
Beef cattle	1445	62.4 (49.7, 78.1)	64.8 (50.6, 82.8)	64.2 (51.8, 79.2)	64.3 (51.1, 80.9)	127.8 (109.2, 149.0)	130.7 (109.2, 156.5)
Dairy cattle	594	64.3 (45.4, 90.4)	65.2 (43.6, 97.6)	63.0 (43.0, 91.4)	58.6 (39.8, 86.5)	128.9 (99.6, 165.1)	124.2 (94.1, 164.0)
Poultry	38	57.6 (19.5, 158.2)	52.6 (18.3, 151.3)			57.4 (18.9, 161.6)	52.5 (17.8, 154.8)
Swine	114	34.9 (13.1, 89.8)	28.3 (10.5, 76.3)	54.5 (26.4, 109.4)	45.6 (22.0, 94.8)	92.2 (49.3, 165.8)	75.1 (39.6, 142.2)
Sheep	60	103.5 (42.1, 232.5)	83.3 (36.8, 188.8)	137.0 (58.4, 288.9)	125.6 (55.6, 283.9)	232.6 (119.7, 403.3)	207.7 (109.5, 394.0)
Other animals (example: horses, etc.)	157	90.6 (46.9, 167.9)	94.6 (49.5, 180.8)	123.2 (74.4, 197.2)	119.1 (73.7, 192.4)	198.8 (132.0, 288.2)	213.0 (140.5, 322.9)
Crops (Field, forage or	1490	44.3	41.8	65.1	64.7	107.8	107.0

specialty crops)		(34.7, 56.4)	(32.5, 53.7)	(52.8, 80.0)	(51.9, 80.6)	(91.6, 126.4)	(90.2, 127.0)
CRP (Conservation Reserve Program)	87	13.3 (1.9, 87.1)	11.0 (1.6, 76.6)	83.6 (39.4, 168.5)	77.9 (37.0, 164.0)	102.6 (47.4, 208.2)	91.4 (43.2, 193.6)
Other	51	6.8 (0.9, 49.6)	6.4 (0.9, 48.0)	82.1 (28.7, 213.1)	108.4 (35.8, 327.7)	89.3 (33.8, 215.9)	115.3 (40.8, 325.8)
Males (total)	2,113	83.9 (71.8, 97.8)	84.3 (71.4, 99.6)	80.6 (69.2, 93.7)	78.1 (66.5, 91.7)	164.2 (147.5, 182.4)	163.0 (144.7, 183.5)
Ages 0-19	1,063	31.5 (22.4, 44.0)	28.6 (19.9, 41.0)	115.1 (96.3, 136.9)	113.0 (93.4, 136.6)	148.1 (126.9, 172.1)	141.9 (119.8, 168.1)
Ages 20+	1,049	135.0 (114.1, 159.0)	138.7 (115.5, 166.5)	46.5 (35.3, 60.9)	43.3 (32.5, 57.6)	179.5 (156.3, 205.4)	183.1 (156.7, 214.1)
Females (total)	2,024	25.2 (18.8, 33.6)	23.6 (17.3, 32.3)	54.4 (44.5, 66.5)	55.1 (44.1, 68.7)	79.0 (66.8, 93.2)	79.6 (66.2, 95.7)
Ages 0-19	1,029	19.3 (11.9, 31.0)	17.7 (10.7, 29.2)	71.8 (56.2, 91.3)	76.8 (58.4, 101.1)	90.8 (72.7, 112.9	95.5 (74.6, 122.3)
Ages 20+	993	31.8 (22.6, 44.6)	29.7 (20.7, 42.8)	36.7 (26.1, 51.4)	33.0 (23.2, 46.9)	67.7 (53.3, 85.7)	64.1 (49.6, 83.0)
Age groups (years)							
0-19	2,093	25.1 (18.8, 33.5)	23.1 (17.0, 31.3)	93.4 (80.5, 108.2)	95.0 (80.7, 111.7)	119.2 (104.4, 135.8)	118.6 (102.5, 137.3)
20+	2,042	84.6 (72.6, 98.4)	85.1 (72.1, 100.4)	41.7 (33.5, 51.7)	38.2 (30.5, 47.9)	124.9 (110.6, 140.9)	124.6 (108.9, 142.6)
0-4	316	9.0 (2.7, 29.9)	7.5 (2.1, 27.3)	61.9 (40.1, 94.4)	58.0 (36.8, 91.5)	72.7 (48.4, 107.7)	66.6 (43.5, 101.9)
5-9	447	16.2 (7.5, 34.9)	11.7 (4.8, 28.4)	69.7 (48.1, 99.9)	66.9 (44.9, 99.7)	85.6 (60.7, 119.4)	78.3 (53.8, 113.9)
10-14	649	25.3 (15.2, 41.9)	22.6 (13.0, 39.3)	101.7 (78.7, 130.3)	103.0 (77.4, 137.0)	127.3 (101.8, 158.0)	126.9 (98.6, 163.3)
15-19	681	39.2 (26.5, 57.6)	39.5 (26.3, 59.2)	116.1 (93.1, 143.8)	124.2 (96.9, 159.2)	155.1 (128.5, 186.0)	162.9 (131.5, 01.7)
20-24	83	20.0 (5.5, 70.2)	26.6 (7.2, 97.8)	101.2 (41.7, 226.0)	98.2 (42.0, 229.4)	127.8 (60.2, 251.2)	128.0 (63.6, 257.6)
25-34	225	71.1 (44.2, 112.5)	87.2 (47.5, 160.0)	32.2 (16.1, 63.6)	27.3 (13.5, 55.5)	97.6 (65.2, 143.5)	114.9 (67.0, 197.0)
35-44	716	84.1 (64.8, 108.4)	80.8 (61.7, 105.9)	38.8 (26.3, 56.9)	35.6 (23.6, 53.7)	125.3 (102.0, 153.1)	119.4 (96.3, 148.2)

45-54	842	87.9 (69.1, 111.1)	85.7 (66.9, 109.9)	41.4 (30.0, 56.8)	39.1 (28.0, 54.5)	126.2 (104.3, 151.9)	125.1 (102.5, 152.8)
55-64	150	131.0 (83.1, 200.5)	126.2 (80.3, 198.3)	34.6 (15.0, 77.8)	29.2 (12.3, 69.3)	156.6 (105.0, 227.2)	154.1 (101.2, 234.7)
65+	26	80.9 (20.5, 269.9)	120.5 (26.7, 543.4)	63.5 (14.2, 241.0)	59.5 (13.5, 263.1)	146.6 (52.8, 346.1)	181.3 (60.5, 543.5)
Education status							
Incomplete (age<20)	2,093	25.1 (18.8, 33.5)	23.1 (17.0, 31.3)	93.4 (80.5, 108.2)	95.0 (80.7, 111.7)	119.2 (104.4, 135.8)	118.6 (102.5, 137.3)
Some high school	50	83.9 (31.3, 206.2)	90.4 (34.9, 234.4)	94.1 (37.9, 215.3)	85.0 (35.3, 204.7)	153.8 (76.9, 283.9)	176.4 (86.8, 358.4)
High school grad/GED	583	117.5 (91.3, 150.0)	115.8 (89.1, 150.5)	25.9 (16.0, 41.6)	27.7 (16.7, 46.1)	143.3 (114.7,177.7)	144.0 (114.4, 81.3)
Some technical school	72	104.3 (47.6, 213.5)	89.9 (41.8, 193.3)	62.1 (25.2, 144.9)	53.6 (22.0, 130.6)	164.8 (85.6, 293.7)	143.8 (76.4, 270.7)
Technical school grad	172	84.3 (46.5, 148.1)	83.6 (46.8, 149.3)	42.9 (21.1, 85.2)	37.6 (18.6, 76.0)	127.7 (81.4, 194.8)	121.5 (78.1, 189.0)
Some college	428	63.4 (43.3, 91.8)	70.4 (44.5, 111.4)	65.9 (43.7, 98.4)	59.8 (39.7, 90.1)	126.2 (95.7,164.7	135.3 (97.5, 187.7)
College graduate	579	72.4 (53.6, 97.1)	73.3 (53.7, 100.1)	23.5 (13.9, 39.6)	20.6 (12.1, 34.8)	94.5 (73.0,121.4)	93.8 (71.7, 122.6)
Post graduate/Professional school	131	57.7 (28.4, 113.3)	65.9 (31.3, 138.7)	61.9 (30.8, 120.2)	64.0 (30.8, 132.6)	119.5 (73.2, 189.1)	130.7 (78.2, 218.4)
Health Insurance 7/1/06 – 12/31/06							
No, none of the time	267	36.9 (20.2, 66.6)	34.4 (18.4, 64.3)	55.7 (27.6, 109.0)	49.3 (24.2, 100.7)	100.1 (63.7, 153.9)	89.0 (57.1, 138.7)
Yes, part of the time	28	168.1 (71.8, 345.7)	171.4 (74.9, 392.2)	13.8 (1.9, 93.4)	14.3 (2.1, 100.2)	182.1 (81.4, 358.7)	186.5 (86.8, 400.7)
Yes, all of the time	3,838	54.8 (47.4, 63.2)	54.6 (46.6, 63.8)	68.8 (60.5, 78.2)	68.2 (59.5, 78.2)	123.0 (111.4, 135.7)	123.4 (110.6, 137.6)
Marital Status							
Pre-marital age (<16)	1555	19.1 (12.9, 28.2)	15.8 (10.4, 24.2)	94.9 (80.0, 112.3)	97.0 (80.3, 117.0)	114.2 (97.6, 133.1	114.1 (95.9, 135.8)

Married/living as married	1893	88.0 (75.4, 102.5)	88.0 (74.5, 103.9)	39.7 (31.7, 49.6)	36.4 (28.8, 46.0)	125.8 (111.0, 142.4)	125.6 (109.2, 144.3)
Never Married	623	39.7 (26.4, 59.1)	42.4 (27.7, 64.8)	86.8 (65.9, 113.6)	85.1 (64.0, 113.1)	128.0 (102.8, 158.2)	125.8 (99.7, 158.6)
Separated/ Divorced/ Widowed	43	91.1 (37.2, 206.5)	80.3 (32.9, 196.0)	11.3 (2.3, 53.6)	9.4 (1.7, 51.7)	105.8 (48.3, 216.1)	93.6 (43.0, 203.6)
Current limitations from injury or illness							
No	3631	41.4 (34.9, 48.9)	40.6 (33.8, 48.9)	64.6 (56.2, 74.1)	64.4 (55.5, 74.7)	105.7 (94.9, 117.6)	106.0 (93.9, 119.6)
Yes, from injury	257	186.2 (141.6, 241.0)	196.7 (147.9, 261.6)	147.3 (108.5, 196.8)	140.3 (102.5, 192.1)	327.2 (271.8, 387.9)	336.3 (275.9, 409.9)
Yes, from other	229	109.6 (69.2, 169.2)	107.5 (66.7, 173.1)	26.9 (12.5, 57.0)	27.0 (12.0, 60.7)	135.3 (91.8, 194.9)	131.4 (87.1, 198.1)
Hours worked on own farming/ranching operation 7/1/06 – 12/31/06 (weekly average)							
<1	1154	7.8 (3.7, 16.5)	6.6 (3.1, 14.3)	59.0 (46.1, 75.2)	62.9 (47.6, 83.2)	68.8 (54.6, 86.4)	70.7 (54.5, 91.7)
1-20	1714	36.1 (27.7, 47.0)	33.2 (25.2, 43.6)	89.2 (75.3, 105.5)	86.4 (72.4, 103.1)	123.1 (106.3, 142.2)	119.7 (102.4, 139.9)
21-40	520	90.1 (67.2, 119.6)	95.5 (67.7, 134.6)	67.9 (48.0, 95.2)	62.6 (43.7, 89.7)	155.9 (126.1, 191.2)	156.2 (120.4, 202.6)
41-60	332	137.9 (102.7, 182.8)	144.2 (106.2, 195.7)	37.7 (21.6, 65.0)	39.7 (21.6, 73.2)	173.6 (134.9, 220.6)	185.6 (141.8, 243.0)
>60	357	165.2 (128.3, 210.1)	159.5 (122.7, 207.3)	23.3 (11.9, 45.2)	19.7 (9.9, 39.0)	191.7 (152.5, 238.2)	182.5 (143.9, 231.5)

* Number responded for total injuries

[†]Adjusted for within-household correlation using GEEs (Liang & Zeger, 1986), excluding level for missing values, and weighted for non-response (Horvitz & Thompson, 1952)

[††]Annualized rate: sum of all injury counts based on person-time in half-years

TABLE 3
Farming/Ranching-Related Injury Rates
(Events per 100,000 Hours Worked on Their Own Operation during 2007)

Characteristics and Exposures	Number Exposed	Rate (95% C.I.)
Total Population	5288	6.0 (5.2, 7.0)
State of residence		
Minnesota	1107	5.6 (3.8, 8.3)
Nebraska	1023	5.3 (3.9, 7.3)
North Dakota	1042	6.2 (4.3, 9.0)
South Dakota	1026	7.6 (5.8, 9.9)
Wisconsin	1090	5.3 (3.7, 7.6)
Primary enterprise		
Beef cattle	1864	7.5 (5.8, 9.7)
Dairy cattle	739	4.6 (3.1, 6.7)
Poultry	44	8.3 (4.5, 15.3)
Swine	157	3.3 (1.2, 9.0)
Sheep	96	14.6 (7.5, 28.6)
Other animals (example: horses, etc.)	197	14.1 (6.8, 29.3)
Crops (Field, forage or specialty crops)	1892	5.2 (4.0, 6.7)
CRP (Conservation Reserve Program)	120	3.6 (0.5, 25.8)
Other	57	0.7 (0.1, 5.9)
Males (total)	2681	6.3 (5.3, 7.4)
Ages 0-19	1357	6.1 (4.2, 9.0)
Ages 20+	1323	6.3 (5.2, 7.6)
Females (total)	2606	5.3 (3.9, 7.2)
Ages 0-19	1326	8.3 (4.9, 14.0)
Ages 20+	1278	4.4 (3.0, 6.3)
Age groups (years)		
0-19	2684	6.8 (4.9, 9.4)
20+	2601	5.9 (5.0, 6.9)
0-4	406	59.0 (16.0, 218.2)
5-9	590	7.9 (3.5, 18.2)
10-14	842	6.3 (3.6, 11.0)
15-19	846	6.3 (4.0, 9.8)
20-24	108	3.2 (0.9, 11.7)
25-34	307	7.5 (4.2, 13.7)
35-44	929	5.8 (4.4, 7.6)
45-54	1044	5.2 (4.1, 6.7)
55-64	182	7.4 (4.6, 11.6)
65+	31	8.4 (2.1, 34.4)
Education status		
Incomplete (age<20)	2684	6.8 (4.9, 9.4)
Some high school	64	3.9 (1.3, 11.7)

High school grad/GED	750	6.4 (4.9, 8.3)
Some technical school	96	5.5 (2.6, 11.6)
Technical school grad	223	4.9 (2.8, 8.6)
Some college	542	5.4 (3.4, 8.5)
College graduate	738	6.0 (4.4, 8.3)
Post graduate/Professional school	158	8.9 (4.3, 18.1)
Health Insurance 7/1/06 – 12/31/06		
No, none of the time	348	3.0 (1.6, 5.6)
Yes, part of the time	28	20.7 (5.9, 73.1)
Yes, all of the time	4906	6.2 (5.3, 7.3)
Marital Status		
Pre-marital age (<16)	2012	6.7 (4.4, 10.2)
Married/living as married	2416	5.9 (5.0, 7.0)
Never Married	779	6.4 (4.0, 10.3)
Separated/ Divorced/ Widowed	53	5.0 (2.0, 12.7)
Current limitations from injury or illness		
No	4645	4.9 (4.1, 5.9)
Yes, from injury	317	12.1 (9.0, 16.2)
Yes, from other	295	9.4 (5.9, 14.9)
Hours worked on own farming/ranching operation 7/1/06 – 12/31/06 (weekly average)		
<1	1473	6.4 (2.8, 14.6)
1-20	2200	6.2 (4.6, 8.2)
21-40	668	7.2 (5.1, 10.3)
41-60	408	6.3 (4.6, 8.6)
61-80	333	4.7 (3.4, 6.5)
>80	131	5.9 (3.8, 9.0)

TABLE 4
Associations between Child Injury Experience and Lost Work by Household Members

Outcome, due to a child's injuries, illnesses or health conditions	Case/ control status of household	1 Year after Injury Reporting Period				2 Years after Injury Reporting Period			
		N_h	N_o	Odds Ratio	95% C.I.	N_h	N_o	Odds Ratio	95% C.I.
Did any household members miss days of work or chores related to your farming or ranching operation	Control	594	31	1	-	510	18	1	-
	Case	134	12	1.62	(0.72, 3.67)	103	4	1.26	(0.35, 4.55)
	Severe Case	67	8	2.35	(1.03, 5.38)	50	1	0.56	(0.06, 5.43)
Did any household members miss days of work not related to your farming or ranching operation	Control	593	44	1	-	512	26	1	-
	Case	133	11	0.91	(0.44, 1.87)	103	11	1.43	(0.63, 3.26)
	Severe Case	67	6	0.97	(0.37, 2.56)	50	1	0.26	(0.03, 2.18)
Were any household members unable to do usual child care or home chores or care for other family members because of time spent caring for child	Control	594	17	1	-	512	4	1	-
	Case	134	4	1.12	(0.51, 2.47)	103	4	6.72	(1.66, 27.28)
	Severe Case	67	4	3.09	(0.97, 9.89)	50	1	3.99	(0.29, 54.97)

N_h = Number of operations responded
N_o = Number of operations with household members who lost work time during the previous 6 months, due to a child's injuries, illnesses or health conditions
Models adjusted for lost work time at baseline, state, type of operation, size of operation, current limitations at baseline due to injury, diagnosed health condition at baseline, within-household correlation, and weighted for eligibility-adjusted non-response

TABLE 5
Associations between Child Injuries in Agricultural Households and Follow-up Increases in Health Care Use and Out-of-Pocket Expenses

Outcome, in previous 6 months	Case/ control status of household	1 Year after Injury Reporting Period				2 Years after Injury Reporting Period			
		N_h	N_o	Odds Ratio	95% C.I.	N_h	N_o	Odds Ratio	95% C.I.
Were any of the children in your household admitted as patients for at least one night in a hospital?	Control	686	21	1	-	613	16	1	-
	Case	148	6	1.40	(0.53, 3.69)	123	2	0.56	(0.11, 2.69)
	Severe Case	72	4	1.85	(0.53, 6.45)	58	0	-	-
Did any of the children in your household go to a hospital emergency room?	Control	686	55	1	-	613	44	1	-
	Case	148	12	0.91	(0.44, 1.91)	123	11	1.15	(0.56, 2.36)
	Severe Case	72	3	0.28	(0.06, 1.27)	59	3	0.52	(0.12, 2.21)
Did any of the children in your household visit a doctor or other health care provider or receive a health care treatment	Control	683	84	1	-	611	84	1	-
	Case	147	29	1.40	(0.84, 2.34)	123	26	1.50	(0.88, 2.54)
	Severe Case	72	15	1.73	(1.08, 2.77)	59	17	2.29	(1.20, 4.39)
About how much did your household pay out-of-pocket for medical care?	Control	593	146	1	-	554	145	1	-
	Case	129	36	1.03	(0.64, 1.66)	109	29	0.83	(0.49, 1.41)
	Severe Case	62	21	1.27	(0.65, 2.48)	54	12	0.65	(0.32, 1.32)

N_h = Number of operations responded

N_o = Number of operations with changes in outcome from 'no' to 'yes', between baseline and follow-up interview. For out-of-pocket expenses this was the number of operations with increased expenses between baseline and follow-up.

*Models adjusted for State, type of operation, size of operation, within-household correlation, and weighted for eligibility-adjusted non-response.

TABLE 6
Associations between Child Injuries in Agricultural Households and Follow-Up Increases in Health Care Cost

Type of Health Care Cost	Injured Child?	1 Year after Injury Reporting Period				2 Years after Injury Reporting Period			
		N_r	N_i	Odds Ratio	95% C.I.	N_r	N_i	Odds Ratio	95% C.I.
Hospital Care	No	1446	18	1	-	1203	15	1	-
	Yes	138	2	1.30	(0.29, 5.89)	94	2	1.63	(0.34, 7.87)
Emergency Dept.Care	No	1437	51	1	-	1199	52	1	-
	Yes	137	7	1.65	(0.76, 3.58)	93	9	2.54	(1.23, 5.28)
Therapy Care	No	1395	10	1	-	1186	7	1	-
	Yes	134	3	2.77	(0.67, 11.57)	93	1	1.96	(0.22, 17.34)
Other Health Care Provider	No	1372	366	1	-	1171	322	1	-
	Yes	131	53	2.08	(1.40, 3.09)	90	34	1.50	(0.97, 2.33)
Total Health Care	No	1356	359	1	-	1160	335	1	-
	Yes	129	52	2.02	(1.35, 3.02)	90	33	1.30	(0.83, 2.03)

N_r = Number of children responded
N_i = Number of children with increases in health care costs between baseline and follow-up interview
Models included the following covariates: age, gender, prior limitations from injury, child's existing health conditions, injuries in other 6-month injury-reporting period.
Estimates were adjusted for within-household correlation and weighted for non-response and unknown eligibility

TABLE 7
Associations between Child Injury Experience and Child Behavior Characteristics

			1 Year after Injury Reporting Period		2 Years after Injury Reporting Period	
Characteristic	**Rating**	**Modeling Probability of**	**Odds Ratio***	**95% C.I.**	**Odds Ratio**	**95% C.I.**
How often did child work hard during the past 4 weeks	1=Almost never 2=Sometimes 3=Often 4=Almost Always	Lower rating	1.29	(0.82, 2.05)	0.92	(0.51, 1.67)
How often did child completed his/her work or chores during the past 4 weeks	1=Almost never 2=Sometimes 3=Often 4=Almost Always	Lower rating	1.23	(0.74, 2.03)	0.89	(0.51, 1.56)
How often was child irritable during the past 4 weeks	1=Almost never 2=Sometimes 3=Often 4=Almost Always	Higher rating	1.30	(0.86, 1.97)	0.95	(0.59, 1.54)
How often was child sad during the past 4 weeks	1=Almost never 2=Sometimes 3=Often 4=Almost Always	Higher rating	1.57	(1.08, 2.29)	0.82	(0.52, 1.30)
How often did child have low energy during the past 4 weeks	1=Almost never 2=Sometimes 3=Often 4=Almost Always	Higher rating	1.04	(0.69, 1.57)	1.35	(0.88, 2.07)
Using a scale of 0 to 10, how would you rate child's life, during the past 4 weeks	0 = The worst possible life overall 10= The best possible life overall	Lower rating	1.27	(0.92,1.77)	1.12	(0.74, 1.69)
On a scale of 0 to 10, rate your level of concern about child	0 =No concern 10=Extreme concern	Higher rating	0.92	(0.68, 1.26)	0.86	(0.60, 1.24)
On a scale of 0 to 10, to what degree were you worried or concerned by child's <u>physical health</u> during the past 4 weeks	0 =No concern 10=Extreme concern	Higher rating	1.02	(0.69, 1.50)	1.23	(0.76, 1.99)
On a scale of 0 to 10, to what degree were you worried or concerned by child's <u>emotional health</u>	0 =No concern 10=Extreme concern	Higher rating	1.03	(0.73, 1.47)	0.95	(0.61, 1.49)

during the past 4 weeks						
On a scale of 0 to 10, to what degree were you worried or concerned by child's behavior during the past 4 weeks	0 =No concern 10=Extreme concern	Higher rating	0.77	(0.53, 1.11)	0.94	(0.61, 1.45)
On a scale of 0 to 10, compared to expected development for children this age, how well, overall, was child doing in terms of social relationships, learning, play, chores or work	0 =Not well at all 10=Extremely well	Lower rating	0.82	(0.59, 1.16)	0.89	(0.56, 1.41)

*Models adjusted for age, gender, limitations at baseline as a result of injury, any health or medical problems diagnosed before baseline, any injuries in other 6-month injury-reporting period, outcome at baseline, within-household correlation, and weighted for eligibility-adjusted non-response

TABLE 8
Differences in Changes in HUI-3 Utility Scores from Baseline between Injured and Non-Injured Children

HUI Attribute	Baseline Interview Utility Score	Injury Interview		Year 1 Follow-Up		Year 2 Follow-Up	
		Mean Difference	Pr>|t|	Mean Difference	Pr>|t|	Mean Difference	Pr>|t|
Overall	0.941	**-0.053**	**<.0001**	**-0.024**	**0.022**	-0.015	0.185
Vision	0.984	-0.006	0.050	-0.002	0.629	-0.0002	0.959
Hearing	0.997	0.001	0.521	0.002	0.685	0.003	0.439
Speech	0.994	0.0002	0.940	0.001	0.754	0.001	0.721
Ambulation	0.996	-0.004	0.386	-0.001	0.856	0.001	0.821
Dexterity	0.998	-0.003	0.227	0.004	0.097	0.003	0.228
Emotion	0.990	**-0.010**	**0.012**	**-0.011**	**0.004**	-0.004	0.466
Cognition	0.967	-0.006	0.324	**-0.015**	**0.036**	**-0.019**	**0.022**
Pain	0.976	**-0.064**	**<.0001**	**-0.020**	**0.038**	**-0.022**	**0.036**

All mean estimates and confidence intervals adjusted for within-household and within-child correlation, age, gender, limitations at baseline as a result of injury, any health or medical problems diagnosed before baseline, any injuries in other 6-month injury-reporting period, and weighted for eligibility-adjusted non-response

Figure 1. Consequences of Agricultural Injuries: Data Collection

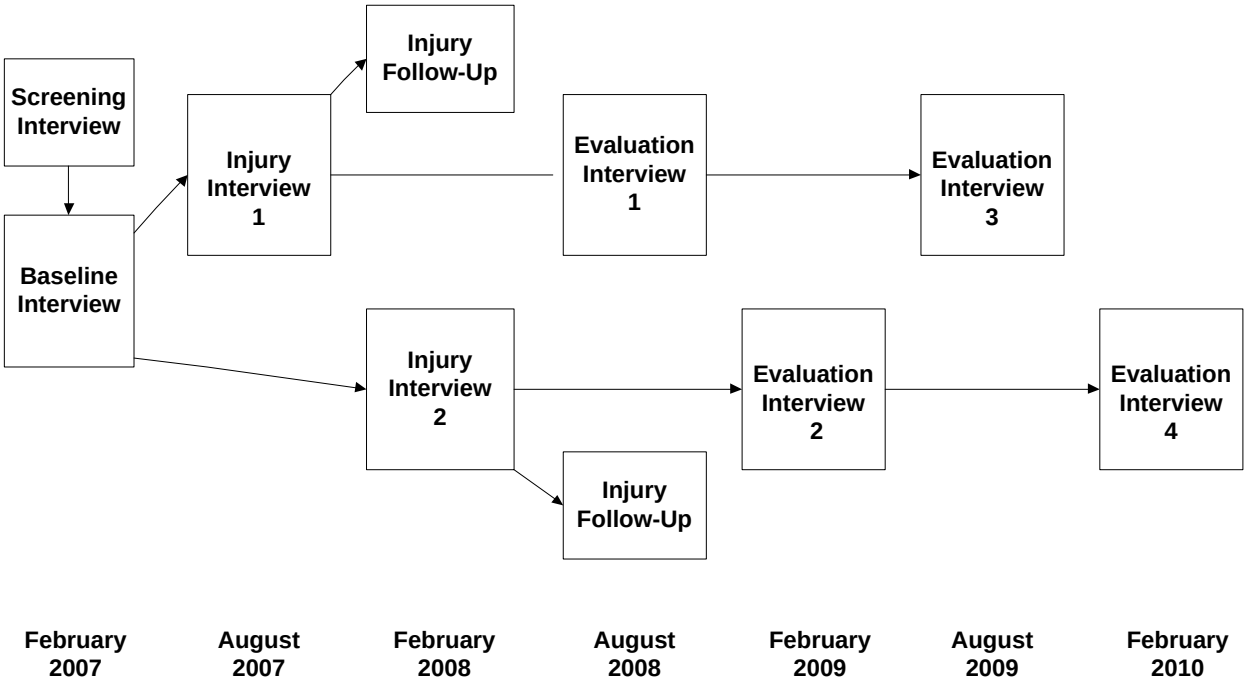


Figure 2. Agricultural Activity-Related Injury Events by Source/Vehicle and Age

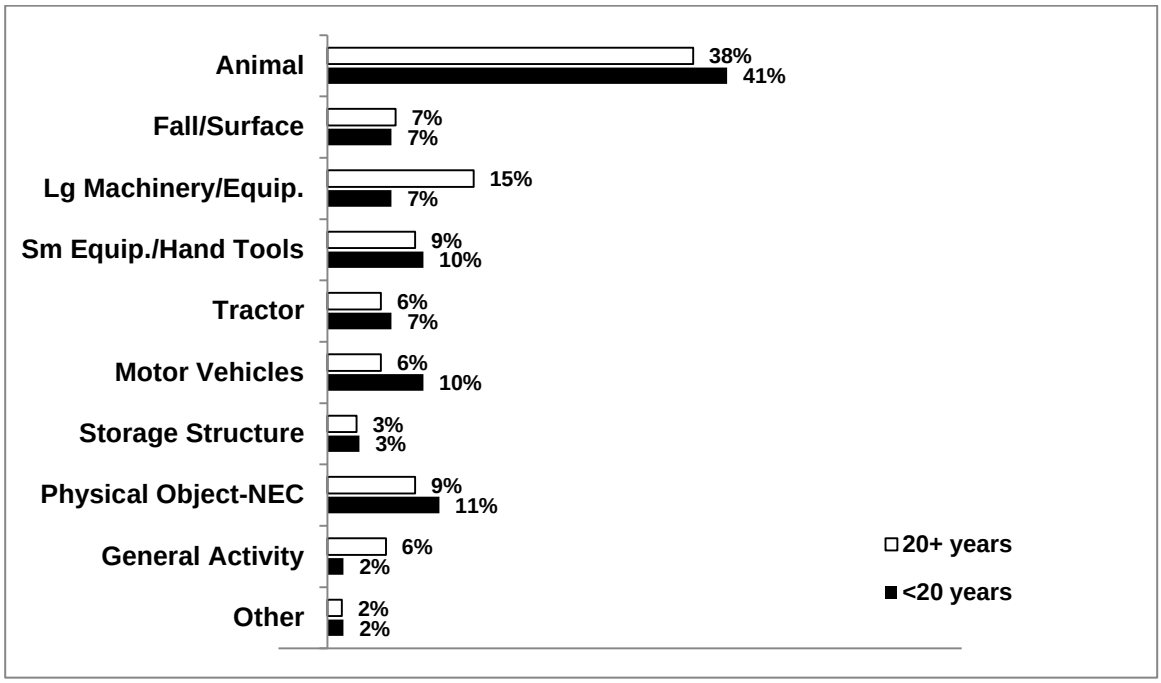


Figure 3. Non-Agricultural Activity-Related Injury Events by Source/Vehicle and Age

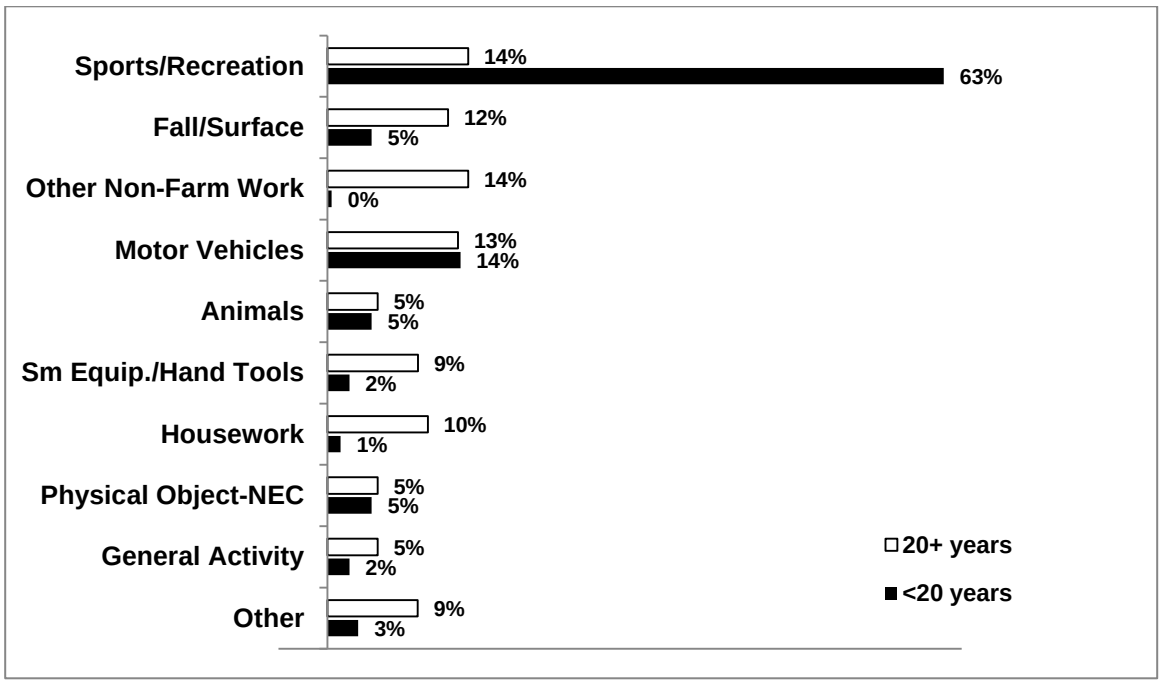


Figure 4. Agricultural Activity-Related Injury Events by Season/Month and Age

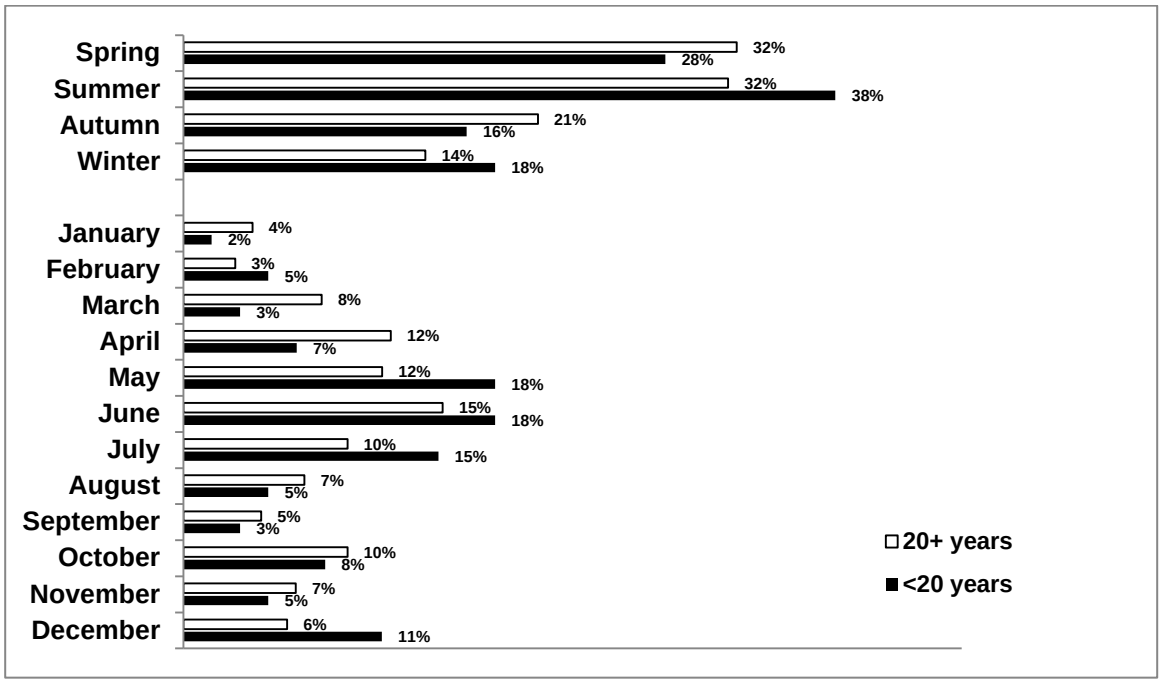


Figure 5. Non-Agricultural Activity-Related Injury Events by Season/Month and Age

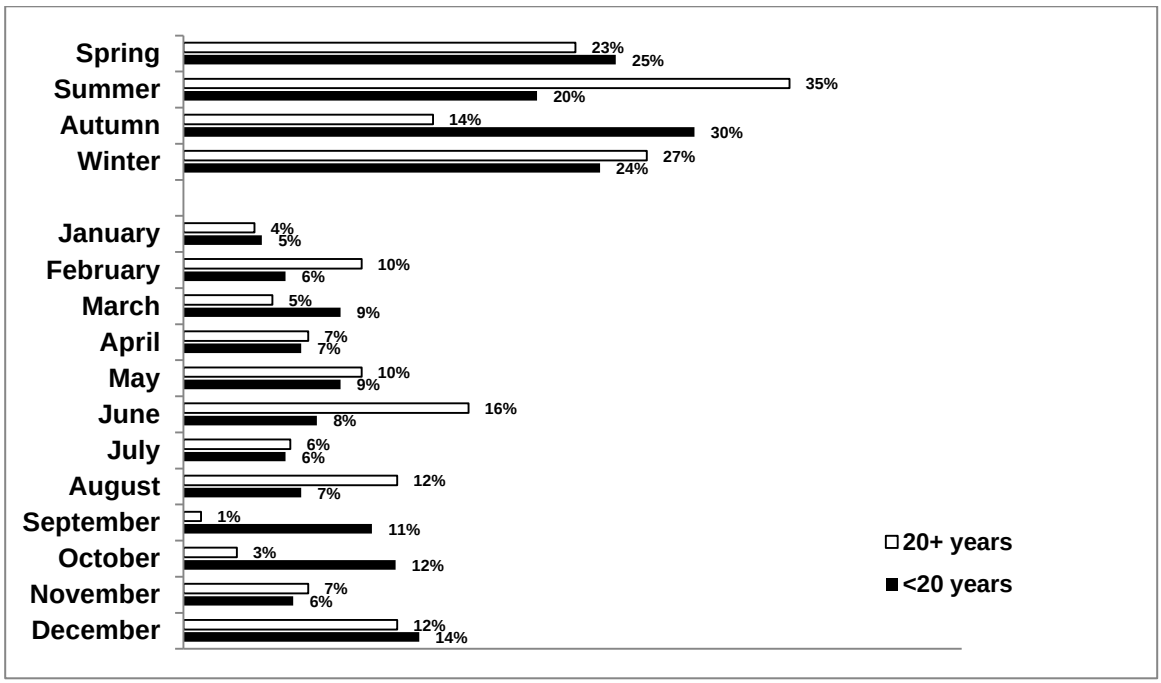


Figure 6. Agricultural Activity-Related Injury Events by Body Parts Injured and Age

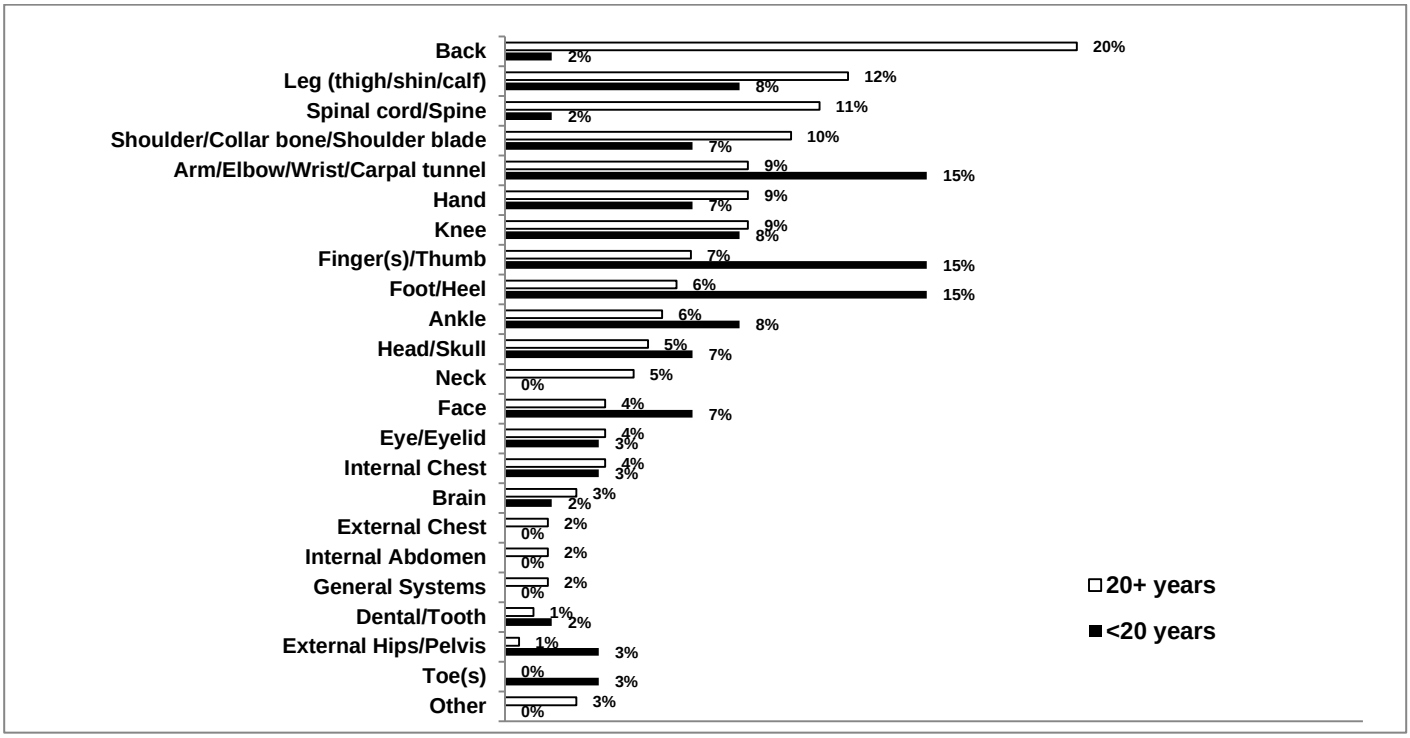


Figure 7. Non-Agricultural Activity-Related Injury Events by Body Parts Injured and Age

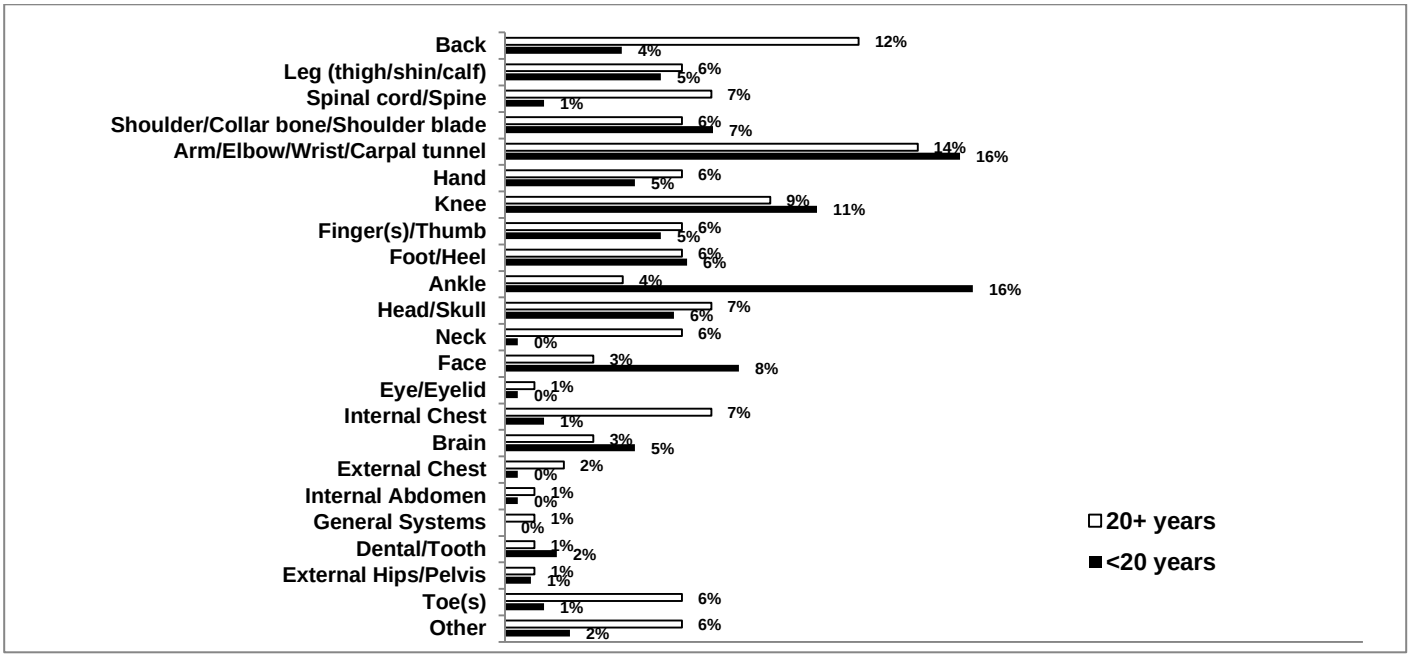


Figure 8. Agricultural Activity-Related Injury Events by Injury Type and Age

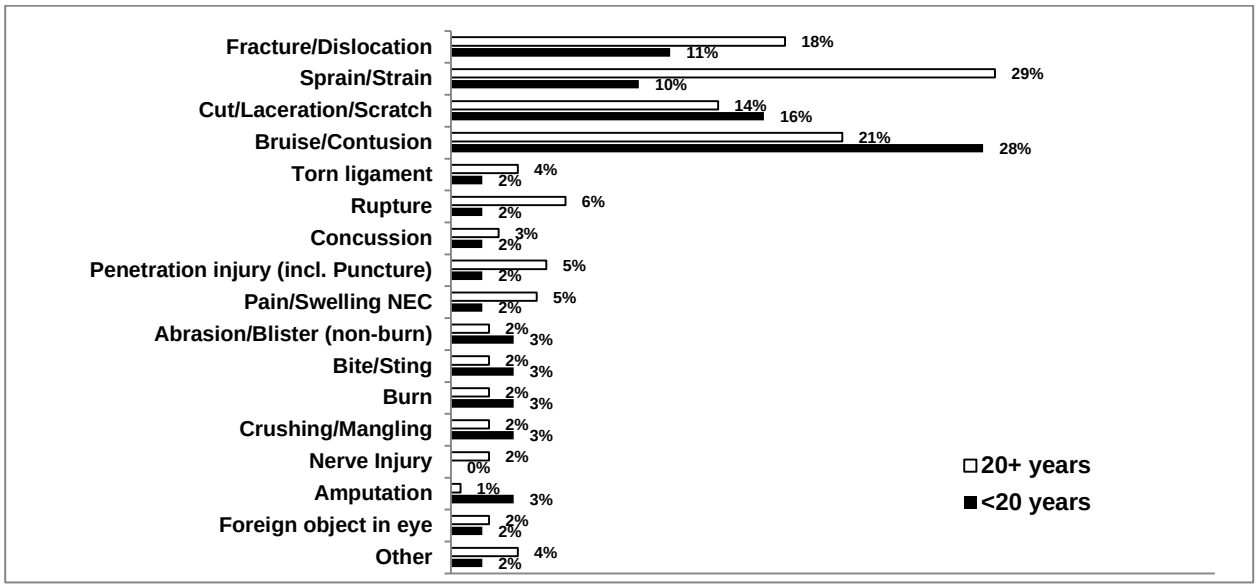


Figure 9. Non-Agricultural Activity-Related Injury Events by Injury Type and Age

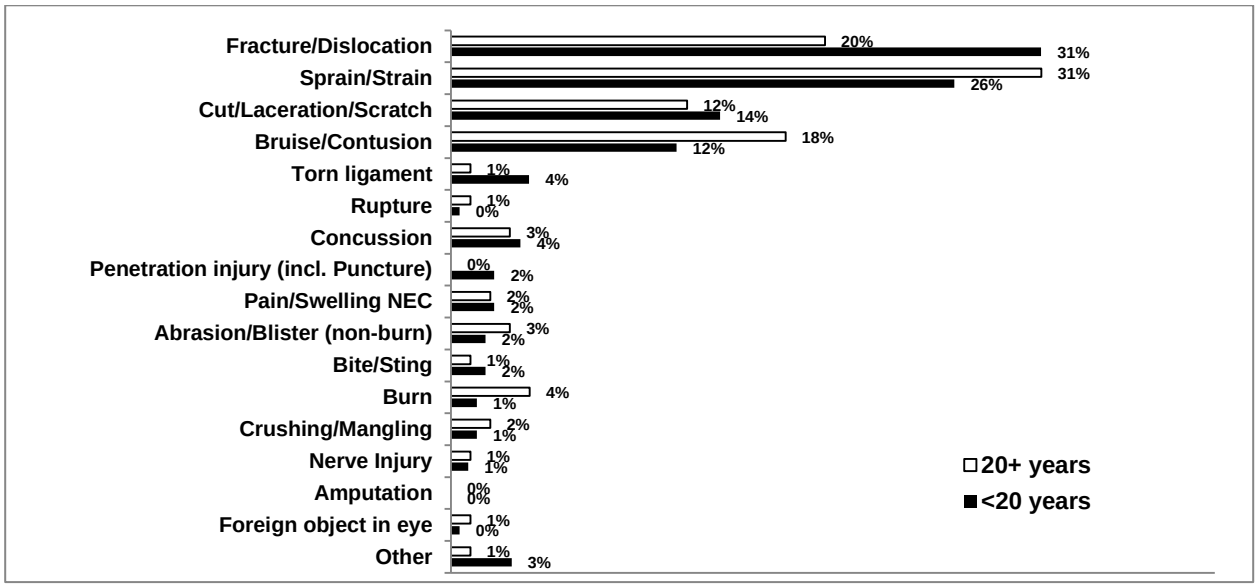


Figure 10. Agricultural Activity-Related Injury Events by Location of Health Care and Age

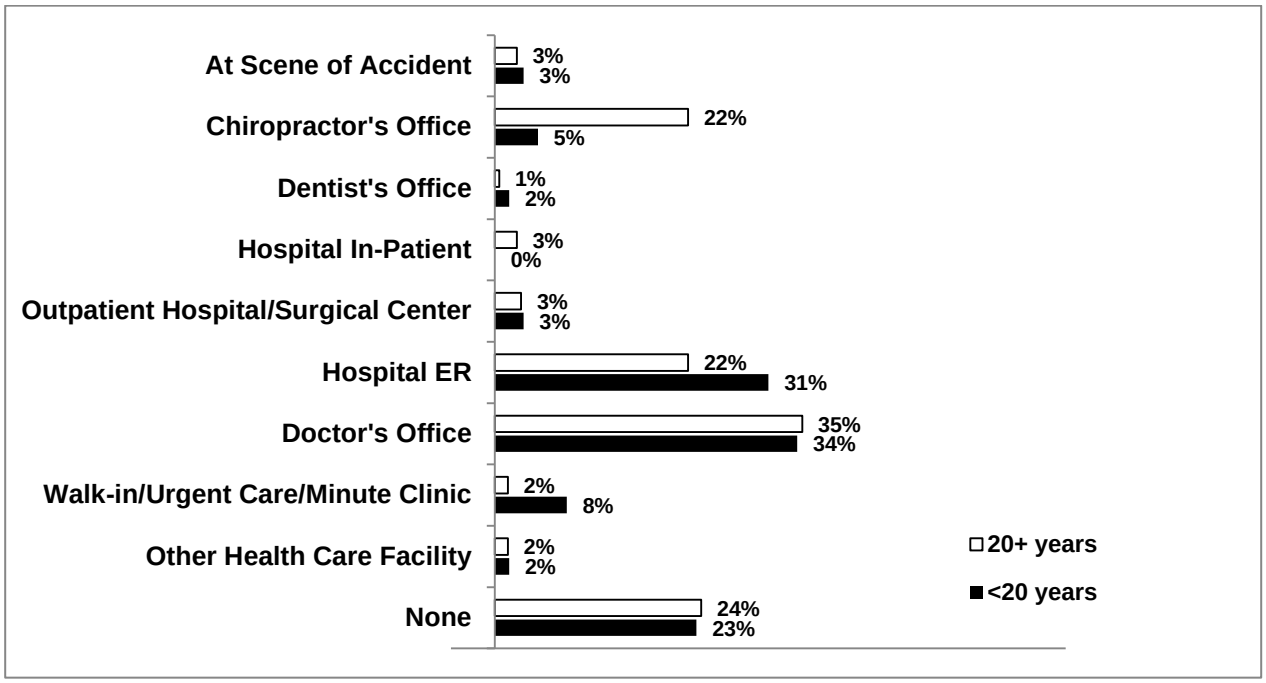


Figure 11. Non-Agricultural Activity-Related Injury Events by Location of Health Care and Age

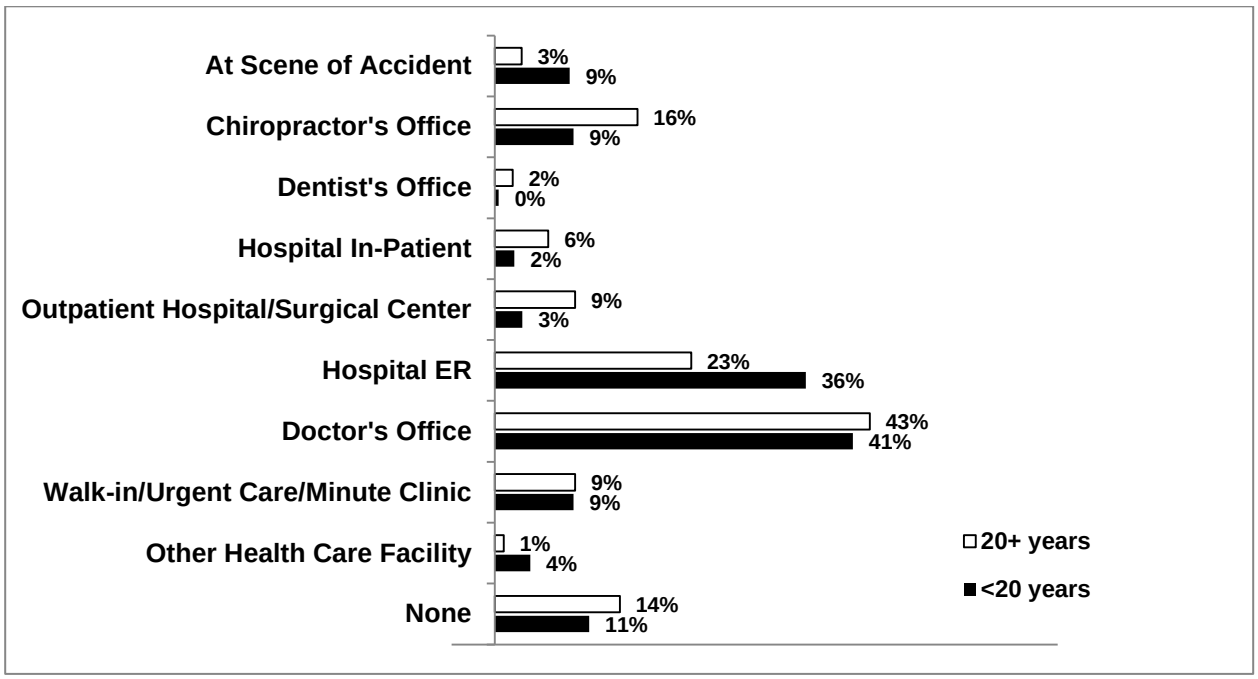


Figure 12. Agricultural Activity-Related Injury Events by Length of Restricted Activity and Age

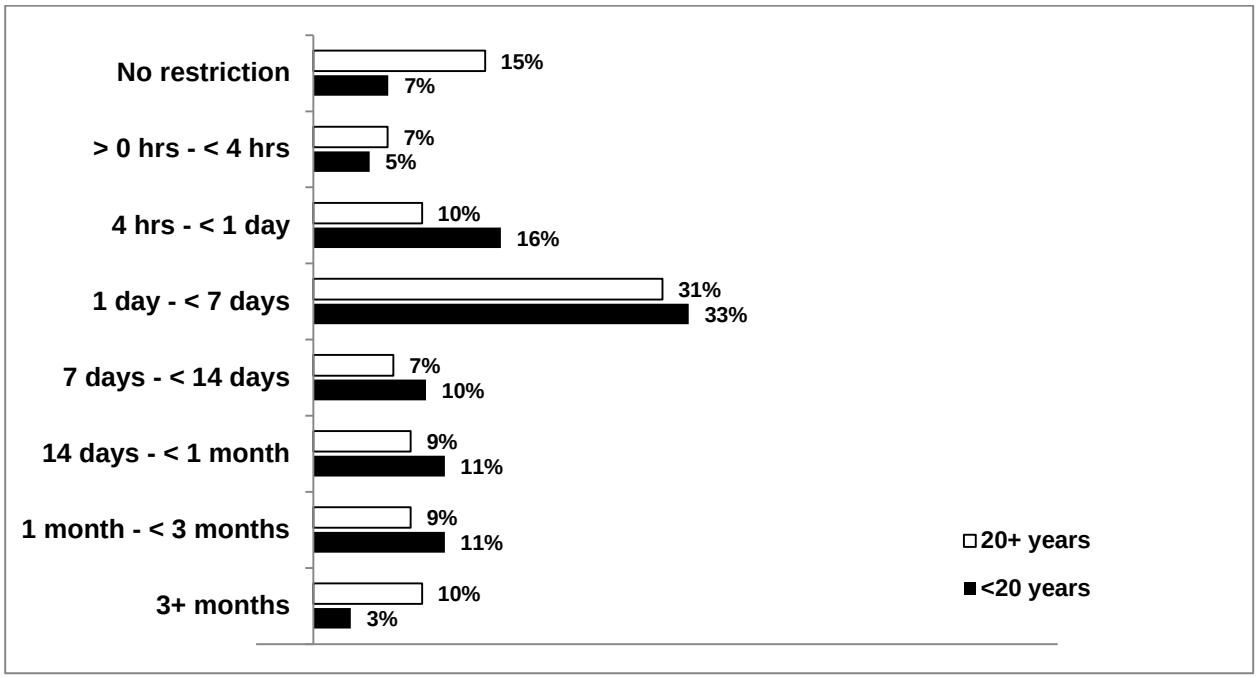


Figure 13. Non-Agricultural Activity-Related Injury Events by Length of Restricted Activity and Age

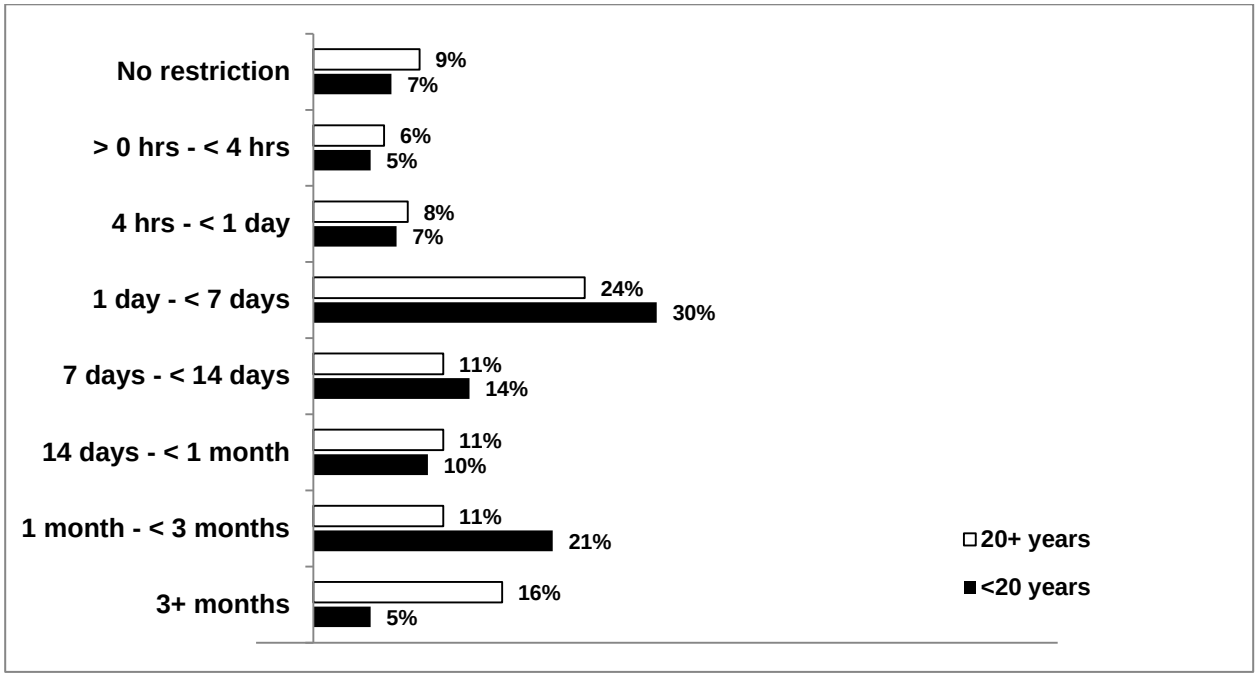


Figure 14. Consequences of Agricultural Activity-Related Injury Events Incurred by Children (age <20)

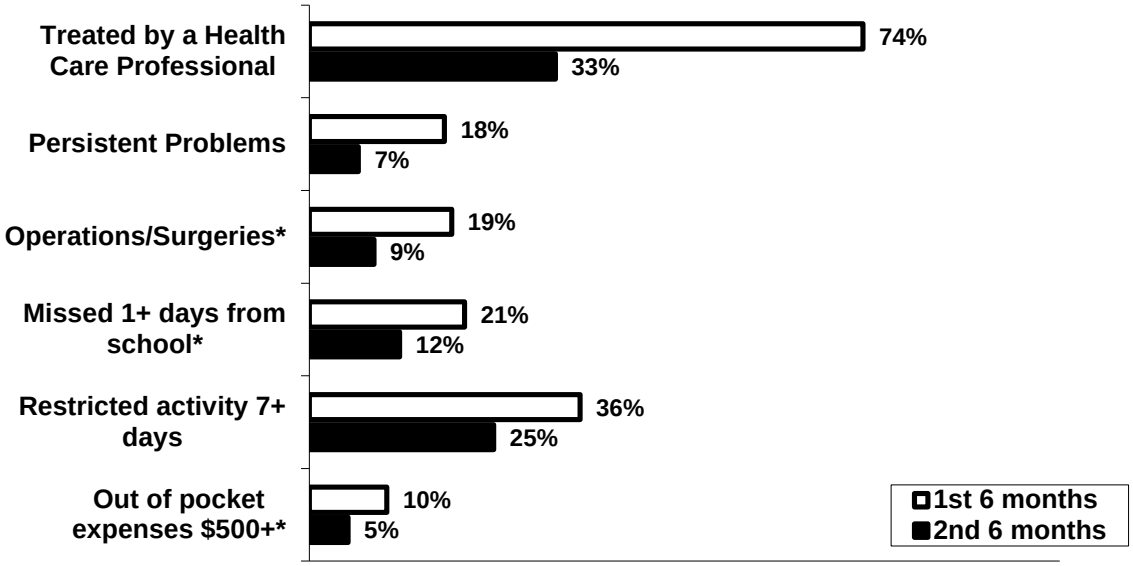


Figure 15. Consequences of Non-Agricultural Activity-Related Injury Events Incurred by Children (age <20)

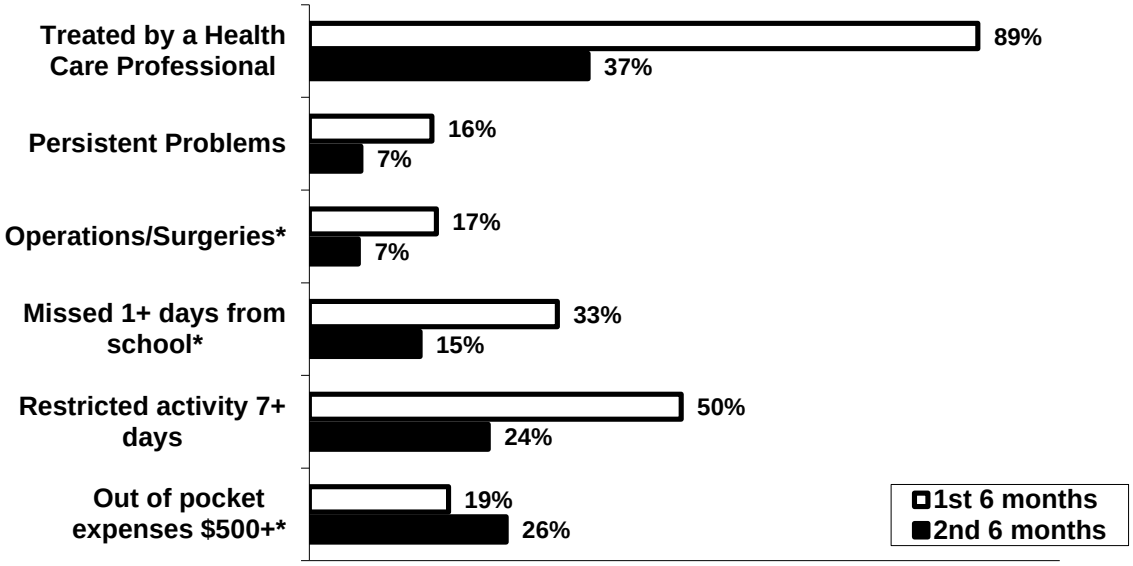


Figure 16. Consequences of Agricultural Activity-Related Injury Events Incurred by Adults (age 20+)

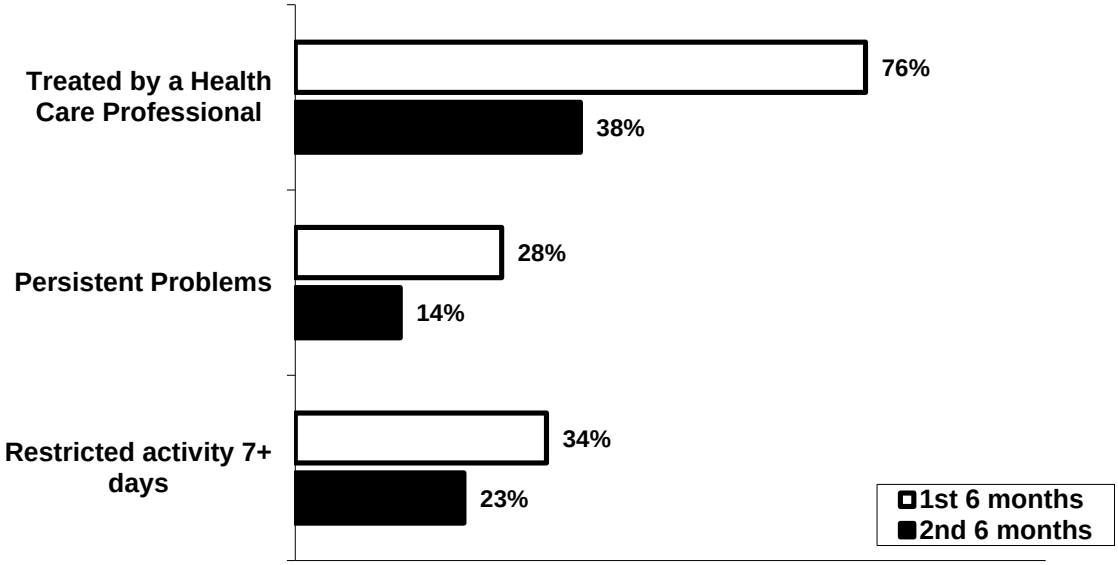


Figure 17. Consequences of Non-Agricultural Activity-Related Injury Events Incurred by Adults (age 20+)

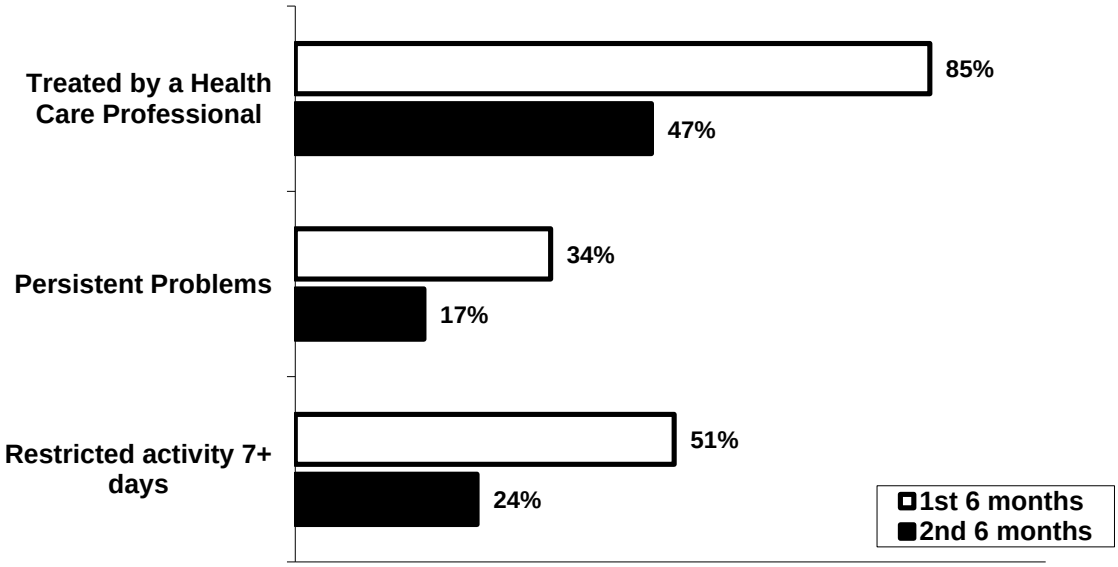


Figure 18. Mean HUI3 Overall Utility Score among Children

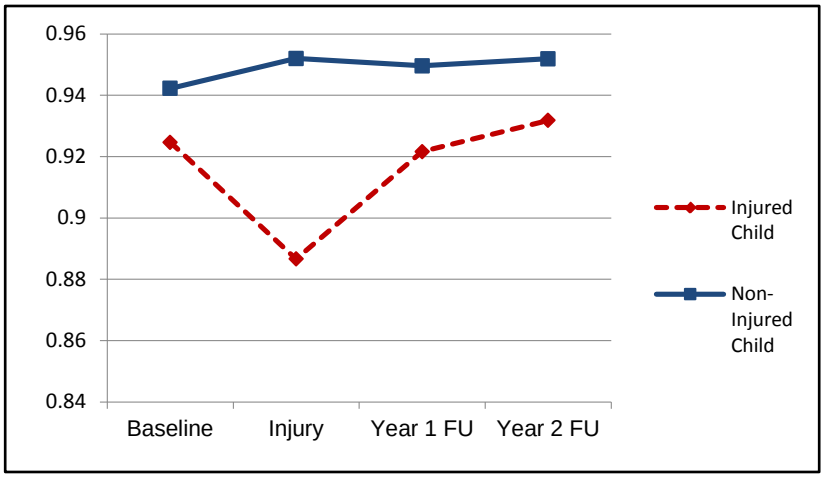


Figure 19. Mean HUI3 Single-Attribute Utility Score among Children: Vision

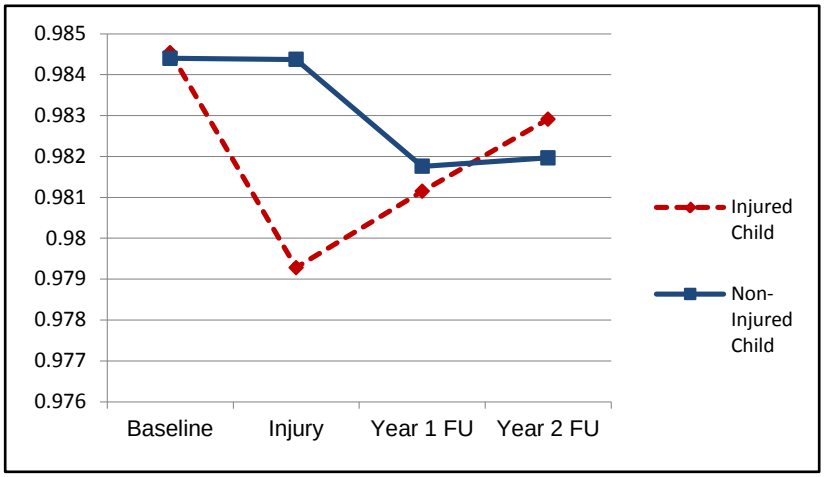


Figure 20. Mean HUI3 Single-Attribute Utility Score among Children: Hearing

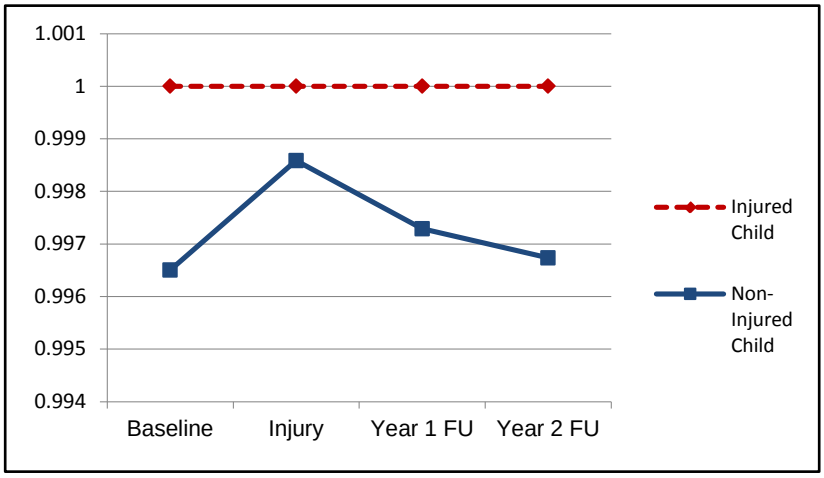


Figure 21. Mean HUI3 Single-Attribute Utility Score among Children: Speech

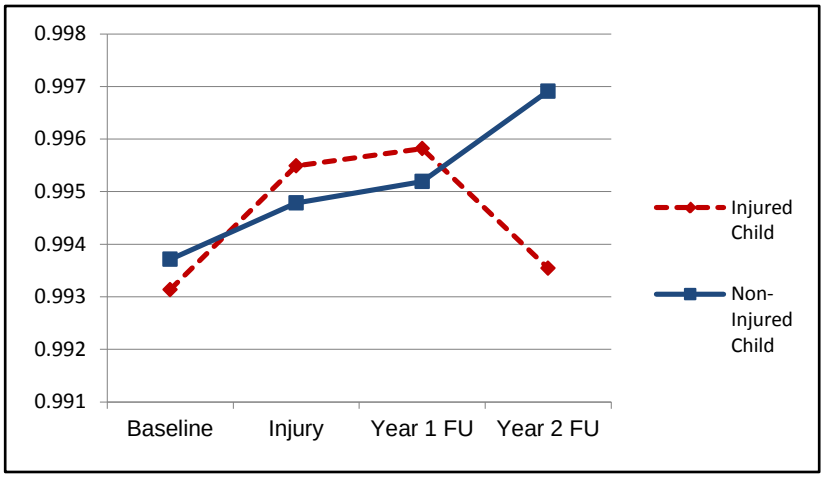


Figure 22. Mean HUI3 Single-Attribute Utility Score among Children: Ambulation

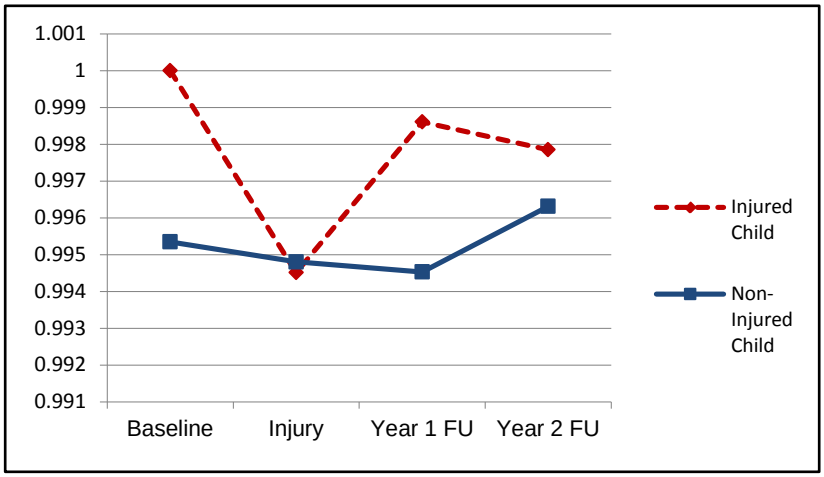


Figure 23. Mean HUI3 Single-Attribute Utility Score among Children: Dexterity

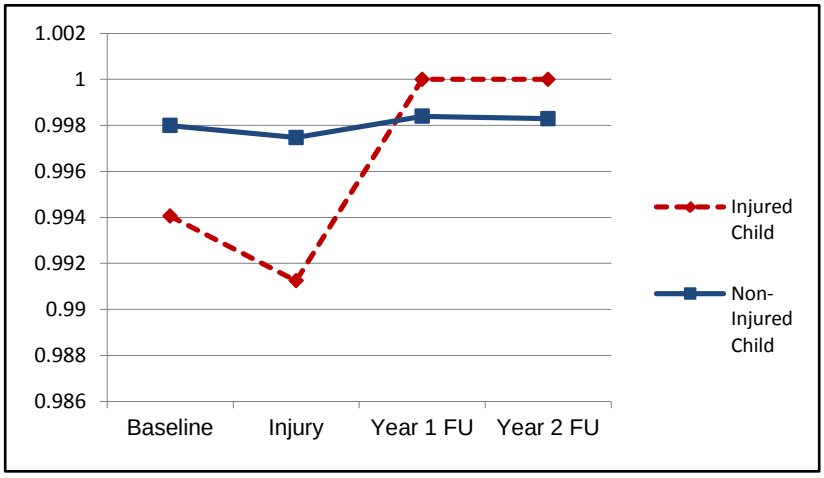


Figure 24. Mean HUI3 Single-Attribute Utility Score among Children: Emotion

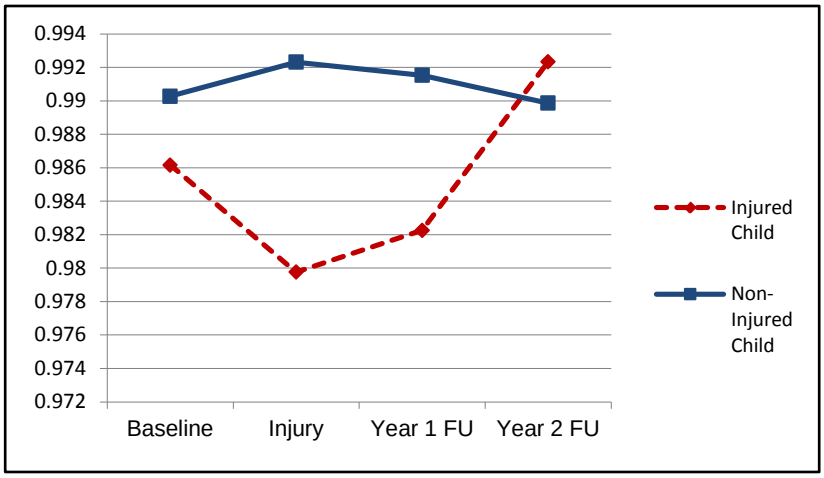


Figure 25. Mean HUI3 Single-Attribute Utility Score among Children: Cognition

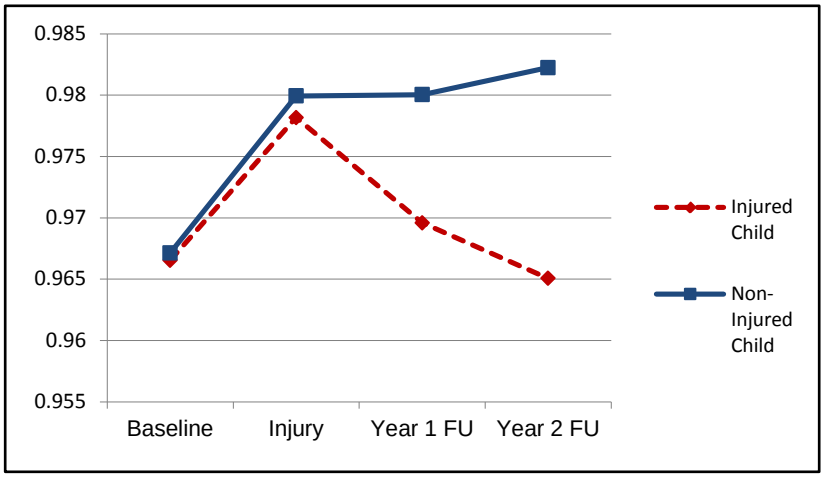
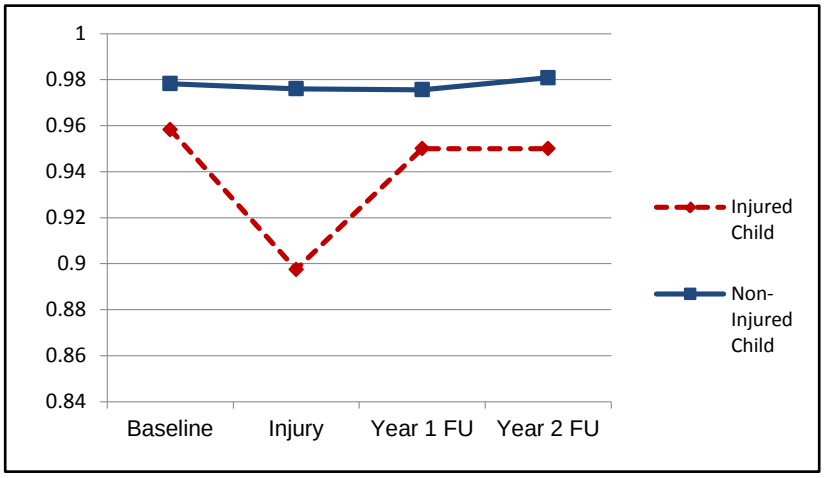


Figure 26. Mean HUI3 Single-Attribute Utility Score among Children: Pain



Program Director/Principal Investigator (Last, First, Middle): Gerberich, Susan G

Inclusion Enrollment Report

This report format should NOT be used for data collection from study participants.

Study Title: Consequences of Agricultural Injuries

Total Enrollment: 6295 **Protocol Number:**

Grant Number: OH008258

PART A. TOTAL ENROLLMENT REPORT: Number of Subjects Enrolled to Date (Cumulative) by Ethnicity and Race				
Ethnic Category	**Females**	**Males**	**Sex/Gender Unknown or Not Reported**	**Total**
Hispanic or Latino	10	5	0	15 **
Not Hispanic or Latino	3,104	3,162	0	6,266
Unknown (individuals not reporting ethnicity)	7	7	0	14
Ethnic Category: Total of All Subjects*	3,121	3,174	0	6,295 *
Racial Categories				
American Indian/Alaska Native	28	30	0	58
Asian	7	4	0	11
Native Hawaiian or Other Pacific Islander	2	0	0	2
Black or African American	6	5	0	11
White	3,047	3,097	0	6,144
More Than One Race	24	31	0	55
Unknown or Not Reported	7	7	0	14
Racial Categories: Total of All Subjects*	3,121	3,174	0	6,295 *

PART B. HISPANIC ENROLLMENT REPORT: Number of Hispanics or Latinos Enrolled to Date (Cumulative)				
Racial Categories	**Females**	**Males**	**Sex/Gender Unknown or Not Reported**	**Total**
American Indian or Alaska Native	0	0	0	0
Asian	0	0	0	0
Native Hawaiian or Other Pacific Islander	0	0	0	0
Black or African American	0	0	0	0
White	9	3	0	12
More Than One Race	0	0	0	0
Unknown or Not Reported	1	2	0	3
Racial Categories: Total of Hispanics or Latinos**	10	5	0	15 **

* These totals must agree.
** These totals must agree.

APPENDICES

APPENDIX A

INTRODUCTORY LETTERS
INFORMATION PACKET

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA
- *Susan G. Gerberich, PhD*
  Professor and Principal Investigator and Director Regional Injury Prevention Research Center

MINNESOTA
- *John Shutske, PhD*
  Professor and Extension Agricultural Safety and Health Specialist
  University of Minnesota
- *Douglas A. Hartwig*
  Director, USDA, NASS, Minnesota Field Office

NEBRASKA
- *David L. Morgan, BS/EMT-P*
  Assistant Director, Nebraska Tractor Test Laboratory
  Extension Safety Engineer
  Biological Systems Engineering Department, University of Nebraska-Lincoln
- *Mark Harris*
  Director, USDA, NASS, Nebraska Field Office

NORTH DAKOTA
- *John Nowatzki*
  Extension Agricultural Machine Systems Specialist
  Agricultural and Biosystems Engineering Department
  North Dakota State University
- *David Knopf*
  Director, USDA NASS, North Dakota Field Office

SOUTH DAKOTA
- *Dick Nicolai, PhD*
  Associate Professor and Farm Machinery and Safety Specialist
  South Dakota State University
- *Carter Anderson*
  Director, USDA NASS, South Dakota Field Office

WISCONSIN
- *Mark A. Purschwitz, PhD*
  Research Engineer, Agricultural Safety, National Farm Medicine Center, Marshfield, Wisconsin
- *Robert J. Battaglia*
  Director, USDA NASS, Wisconsin Field Office

Within a few weeks, you will receive a call inviting you to participate in a new study of injuries to members of farming and ranching households. The Regional Rural Injury Study - III, is being conducted by the University of Minnesota and the USDA National Agricultural Statistics Services in cooperation with other agricultural specialist representatives. Your operation was randomly selected from all operations in a five-state region. The information collected from you will help in understanding how injuries affect households and the agricultural community over time.

Participation in this project will involve an initial telephone interview about your household, general health and economic status, and farming or ranching activities. Eligible households will be asked to participate in further interviews on injuries and their consequences.

All information that you contribute to this project will remain completely confidential. No individual information on you or your operation will be released. Participation is voluntary. Your relations with any of the agencies or institutions associated with this project and/or those identified on the letterhead will not be affected if you decide not to participate. It is very important for all eligible farms to participate, whether or not any injuries have occurred.

Each agricultural operation selected for this study can participate in a drawing for a $100 Savings Bond. Although we would greatly appreciate your help, you are not required to participate in the study to be included in the drawing.

An information sheet is enclosed that provides more detail regarding the study. If you have any further questions about the project, please contact our *Project Director, Andy Ryan*, or me, **at (612) 625-1443 or 1-866-428-1792 (TOLL-FREE)**. If you have any questions or concerns regarding this study and would like to talk to someone other than the researchers, please contact the Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street, Southeast, Minneapolis, Minnesota 55455, (612) 625-1650.

We hope you will participate in this important effort and look forward to talking with you!

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Professor and Director
Regional Injury Prevention Research Center

The <state> Agricultural Statistics Service is collaborating with the University of Minnesota on a study that will provide valuable information about the burden that injuries place on agricultural households and operations. Your agricultural operation has been chosen at random from all <state> farms and ranches to participate in this study.

Within the next several weeks, a representative of the USDA Agricultural Statistics Service will call to clarify information about the study and ask for your participation. Eligible farm/ranch households that agree to participate in the project will be asked about characteristics of the households and associated operations in a baseline interview. Follow-up interviews will be conducted to collect information on injuries that occur to your household during 2007; both agriculture- and non-agriculture-related injuries are included. A proportion of households – both those that incur injuries in 2007 and those that do not – will be contacted for additional interviews to determine how injuries affect farming and ranching households. This information will be used in future efforts to reduce the consequences of injuries for agricultural households.

To ensure the study is meaningful, it is important for all selected farms/ranches to participate whether or not any injuries have occurred. The enclosed letter and colored information sheet further explains the project.

Thank you, in advance, for your participation in this important project.

Sincerely,

REGIONAL RURAL INJURY STUDY-III
INTERVIEW INFORMATION

At the beginning of the telephone interview, we will spend five minutes to determine if your household meets the following criteria for participation in this study:

- As of January 1st, 2007, you were actively farming or ranching and had annual sales of agricultural goods of $1,000 or more, or you had land in a Conservation Reserve Program.
- As of January 1st, 2007, there was at least one child 19 years of age or younger in your household.

Once it is determined that your household meets these criteria, and with your permission, we will proceed with the interview that will include questions on the following topics:

1. Agricultural Operation Characteristics.

Questions will be asked about the type of farming or ranching operation and the number of acres of land in use.

2. Household Member Characteristics.

Requested information will include gender, dates of birth, height, weight, marital status, medical insurance coverage, and education.

For children, a few questions will be asked about general development, behaviors, school performance, and the number of missed school days (from the beginning of the school year, until the end of 2006).

3. Work and Chore Hours.

For each household member, we will request your **best estimate of the number of months worked (or performed chores), the number of weeks worked (or performed chores) in an average month, and the average number of hours per week for the period July 2006 to December 2006**. This will be asked separately for work or chores that are related to your agricultural operation and work or chores that are related to other activities. In addition, you will be asked about the number of days that you missed normal hours of work or chores to care for an ill or injured child, over the same time period.

4. Health.

You will be asked about the general health status of each member of the household, including any limitations, diagnosed health/injury conditions, or perceived stress. In addition, we will ask you to describe the health care treatment of each child in the house in the last 6 months of 2006, including where treatment was sought, the number of visits, and total out-of-pocket expenses for their medical care.

We have included information tables for you to fill out, prior to the telephone interview, to help make the interview go as quickly and smoothly as possible.

Please see other side

REGIONAL RURAL INJURY STUDY-III
FREQUENTLY ASKED QUESTIONS

What is the study about?

This is a study of injuries in agricultural households. It will examine the consequences of injuries, including effects on health and the overall burden on household operations. The results of this study will provide information to farming and ranching households and health professionals about the consequences of injury. This will help develop ways to reduce the effects of injury based on the real-world experiences of farming and ranching families.

Who is doing the study?

This study is being conducted by the University of Minnesota and the United States Department of Agriculture (USDA) National Agricultural Statistics Services (NASS), in cooperation with other state agricultural specialist representatives from Minnesota, Wisconsin, North Dakota, South Dakota, and Nebraska.

How was I selected?

Your operation was randomly selected by the USDA NASS from a list of all agricultural operations in your state. Only the USDA NASS will have access to your name and identifying information.

What does participation involve?

Following an initial screening interview to determine eligibility, participation in this study involves a telephone interview that asks about your household members, their general health status, and your farming or ranching activities. This interview will take place sometime after April 10, 2007, and will take approximately 30-40 minutes. Details on this interview are provided on the other side of this sheet. For eligible households, follow-up telephone interviews will be conducted, beginning in June 2007 and January 2008, to collect information on injuries and their consequences.

Following this, households with children who have been injured, as well as a random sample of those who have not, will be asked follow-up questions about the burden of injuries at six-month intervals through 2009. These telephone interviews will take no longer than 30 minutes.

Will my information be kept confidential?

All of the information collected for this study will remain completely confidential. Only the USDA NASS will have access to your name and other identifying information. No information on individuals or individual operations will ever be released.

Is there anything else I should know?

Participation in this study is voluntary. However, to ensure the study is meaningful, *it is very important for all eligible farms to participate, whether or not any injuries have occurred*. Your relations with any of the agencies or institutions associated with this study will not be affected if you decide not to participate.

Each agricultural operation selected for this study will also be invited to participate in a drawing for a $100 Savings Bond. Your operation household will have a minimum opportunity of 1 in 16 to receive a bond. Though we would greatly appreciate your help, you are not required to participate in the study to be included in the drawing. Individuals who are awarded the bonds will be notified at the completion of the data collection. Although we cannot supply the names of those chosen to receive bonds, because of confidentiality issues, we will post a notice on our website (http://enhs.umn.edu/riprc/riprc.html) when the individuals are randomly selected to receive the savings bonds. After that notice is posted, you may call the numbers identified below and request further verification of the disbursement of the bonds.

What if I have more questions about the study?

If you have any questions about the study, please contact our *Project Director, Andy Ryan, or the Principal Investigator, Dr. Susan Gerberich*, at 612-625-1443 or 1-866-428-1792 (TOLL-FREE). If you have any questions or concerns regarding this study and would like to talk to someone other than the researchers, you are encouraged to contact the Research Subjects' Advocate Line, D528 Mayo, 420 Delaware St. Southeast, Minneapolis, Minnesota 55455; 612- 625-1650.

Please see other side →

In preparation for the initial telephone interview, please fill out this table only if your household meets both of the following criteria for participation in this study (*It will be helpful to have this available, near your telephone, at the time of the interview.*):

1. As of January 1st, 2007, you were actively farming or ranching and had annual sales of agricultural goods of $1,000, or more, or you had land in a Conservation Reserve Program (CRP).

2. As of January 1st, 2007, there was at least one child 19 years of age or younger in your household.

For both **work/chores related to your farming or ranching operation, and all other types of work activities**, between July 1st, 2006 and December 31st, 2006, please record how many months were worked and, on average, how many weeks per month and hours per week, for each member of your household.

Please Identify All Household Members Name:	Work/Chores Related To Your Operation or Other Work Activities	July 1st, 2006 – December 31st, 2006		
		Months Worked (0 – 6)	Weeks worked / Month, on average	Hours worked / Week, on average
Example: Joe	Our Operation Work/Chores	*5*	*4*	*35*
	Other Work	*0*	*0*	*0*
	Our Operation Work/Chores			
	Other Work			
	Our Operation Work/Chores			
	Other Work			
	Our Operation Work/Chores			
	Other Work			
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	Other Work			
	Our Operation Work/Chores			
	Other Work			

Please see other side →

In preparation for the initial telephone interview, please fill out this table only if your household meets both of the following criteria for participation in this study (*It will be helpful to have this available, near your telephone, at the time of the interview.*):

1. As of January 1st, 2007, you were actively farming or ranching and had annual sales of agricultural goods of $1,000, or more, or you had land in a Conservation Reserve Program (CRP).

2. As of January 1st, 2007, there was at least one child 19 years of age or younger in your household.

			PLEASE COMPLETE FOR THE PERIOD JULY 1, 2006 THROUGH DECEMBER 31, 2006				
					For each child (as defined above) in the household who was ill, injured or had a health condition		
Please Identify ALL Household Members Name:	Date of Birth	As of January 1, 2007, what was the highest grade in school he/she completed?	For how many months did he/she have health care coverage?	What types* of medical insurance did he/she have? (See categories below table and insert number(s) below)	How many days did household members miss hours of work or chores related to your farming or ranching operation to care for this child?	How many days did household members miss hours of work not related to your farming or ranching operation to care for this child?	How many days were household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for this child?
Example: Jill	*10/3/1998*	*4th grade*	*6 months*	*2*	*8 days*	*5 days*	*3 days*

*Type of medical insurance

1. A medical plan purchased by your **own operation.**
2. A medical plan purchased by your **household.**
3. A medical plan provided by an employer.
4. Medicare with supplemental policy.
5. Medicare without supplemental policy.
6. A Medicare HMO
7. Medicaid or State equivalent
8. Something else

Please see other side →

APPENDIX B

PARTICIPATION INTERVIEW DATA COLLECTION INSTRUMENT PROGRAMMED INTO COMPUTERIZED ASSISTED TELEPHONE INTERVIEW (CATI) SYSTEM

Administered by specially trained interviewers, using a Computer-Assisted Telephone Interview (CATI) Instrument

-- Script Before Entering CATI Program –

Dial number from call sheet prepared by the USDA National Agricultural Statistics Service (NASS).

When someone answers the phone –

Ask:

"Hello, is this the >Operator__Last_Name< residence?"

If it is not the residence you are calling, follow standard NASS procedures verifying number, etc

If it's the correct household:

Ask: ***"May I please speak with the female head of household?"***

Female head of household comes to the phone (*continue interview*)

Female head of household is unavailable (*go to >callback<*)

There is no female head of household -

Ask: ***"Then, may I please speak to the male head of household?"***

Male head of household comes to the phone (*continue interview*)

Male head of household is unavailable (*go to >callback<*)

<u>Please</u> enter a comment that there is no female head of household, so the enumerator who places the next call will know to ask for the male head of household.

-- When an appropriate respondent (female or male head of household) has come to the phone, begin the CATI interview --

>intro< "Hello, this is >EnumName< calling for the >StateName< agricultural statistics service. I am calling to follow-up on the letters sent to you by the USDA (StateName) Agricultural Statistics Service regarding a project with upper-Midwest farm and ranch households we are conducting with the University of Minnesota. Did you receive the letters?"

1 Yes *(go to **>few_questions<**)*
3 No
8 Unknown
9 Refusal *(go to **>reconsider6<**)*

>newletter< **"**Then, would you like us to send you new copies?"

1 Yes
3 No *(go to **>few_questions<**)*
9 Refusal *(go to **>reconsider6<**)*

>newletter2< **"**We can proceed with the interview anyway. May we continue?"

1 Yes
3 No (*go to **>Obtain_Name<***)

>few_questions< "I would like to ask you a few questions to see if your operation qualifies for the project. This should only take about 5 minutes. May we continue?"

1 Yes
3 No *(go to **>reconsider6<**)*

>Monitoring< **"**For quality control purposes, my supervisor may monitor this call."

1 *Continue*

>Obtain_Name< "With whom am I Speaking?" *[Enumerator: Who is the current respondent? Enter name.]*

_____

>Who_Resp< *[Enumerator: Who is the respondent? … Enter code.]*

1 Female head of household
3 Male head of household

>farm_qualify1< **"**Is this >Operator_Name<'s household? (Residence including farm/ranch families or people who live in the household.)"

1 Yes *(go to **>verify_address<**)*
3 No

>screen_4< **"**Does >Operator_Name< have a household associated with this operation? (Residence including farm/ranch families or people who live in the household.)"

1 Yes
3 No *(go to **>not_qual<**)*

>phone< **"**Would you please give me the phone number for the farm household?" *[If willing to give new number, record new number when verifying the address on the next screen. Call the new number and start interview over if needed.]*

1 Yes
3 No *(go to **>reconsider4a<**)*

>verify_address< "Let me verify the name and address that I have for your household.

•YID/KeyID

•Operation

•Address

•Phone

Is this information correct?"

1 Yes *(go to **>speak2<**)*
3 No

>EnumInst< *[Enumerator: If Operator_name is correct, correct household address, then return through >verify_address< to >speak2<. If Operator_name is incorrect (not current), exit and return callsheet to supervisor.]*

>newletter3< *[Programming Note: If (>newletter2< = 3) go to **>callback<**]*

>speak2< "Your agricultural operation was randomly selected as a potential participant in a project about farming and ranching activities and injuries that MAY occur during 2007. The results from the project will be used to develop injury prevention programs that will benefit family farms and ranches. You are also eligible for a drawing for a $100 U.S. Savings Bond (Series EE), but are not required to participate in the project to be included in that drawing."

1 *Continue*

>speak2b< **"**In this interview, I would like to ask a few questions about your operation and the ages of your household members, so that I can tell if you are eligible to participate in the project. May we continue?"

1 Yes
3 No *(go to **>responses1<**)*

>farm_qualify2< "As of January 1st, 2007, were you actively farming or ranching or did you have land in a Conservation Reserve Program (CRP)?"

1 Yes
3 No *(go to **>not_qual<**)*
8 Unknown *(go to **>callback<**)*
9 Refused *(go to **>reconsider7<**)*

>active_farm1< "During the past year, did you produce or have annual sales of agricultural goods of $1,000 or more?"

1 Yes *(go to **>farm_qualify3<**)*
3 No
8 Unknown *(go to **>callback<**)*
9 Refused *(go to **>reconsider4<**)*

>active_farm2< "During the past year, were you involved in a Conservation Reserve Program (CRP)?"

1 Yes
3 No *(go to **>not_qual<**)*
8 Unknown *(go to **>callback<**)*
9 Refused *(go to **>reconsider8<**)*

>active_crp< "Did any household members work on the CRP land, either to maintain or improve it?"

1 Yes
3 No *(go to **>not_qual<**)*
8 Unknown *(go to **>callback<**)*
9 Refused *(go to **>reconsider9<**)*

>farm_qualify3< "I need to obtain brief information on the members of your household as of JANUARY 1st, 2007. How many members were there, including those who moved or passed away after January 1, 2007? This includes students away at college who you expect to return home, or children who reside in multiple households, including yours, etc." *[Enumerator: If respondent is uncertain, prompt them for their best estimate.]*

__ 1 – 20
98 Unknown *(go to **>callback<**)*
99 Refusal *(go to **>reconsider5<**)*

>persons19< "How many people in your household were 19 years of age or YOUNGER as of January 1, 2007? Remember, if someone is 20 today but their birthday was between January 1st and today, they were 19 on January 1st." *[Enumerator: If the respondent is uncertain, prompt them for their best estimate.]*

0 None
__ 1 - 12
98 Unknown *(go to **>callback<**)*
99 Refusal *(go to **>reconsider_19<**)*

>persons20< "How many people in your household were 20 years of age or OLDER, as of January 1, 2007?"

[*Enumerator: If the respondent is uncertain, prompt them for their best estimate.*]

0 None
__ 1 - 12
98 Unknown *(go to **>callback<**)*
99 Refusal *(go to **>reconsider_20<**)*

>HH_total< **"**Let me verify the number of household members. I have recorded a total of >persons19< people 19 years of age and under, and >persons20< people 20 and over in your household as of January 1, 2007. Is that correct?"

1 Yes
3 No *(go to **>persons19<**)*
8 Unknown *(go to **>callback<**)*
9 Refusal *(go to **>reconsider_HH<**)*

>AnyKids< *[Programming Note: If (>persons19< = 0) go to **>not_qual2<**]*

>inf_consent1< "Based on this information, your household is eligible for our project.

"Whether or not you decide to participate in the project, you can be included in the random drawing to receive a $100 U.S. Savings Bond. We will notify the households that are awarded the bonds at the end of the project. Would you like to be included in the drawing?" *[Enumerator: The bond drawings will be sometime in 2009 and 2010.]*

1 Yes
3 No

>intro2a< "Now I'd like to discuss the project very briefly with you."

Participation in the project will involve a 30-45 minute baseline interview about your household and general health status, and farming or ranching activities. We will also call you back for two shorter interviews to discuss any injuries that MAY occur during EACH six month period of 2007. A small percentage of participants will also be called for follow-up interviews from six months to two years later. Your information will remain confidential, and only group information, not individual information, will ever be used in reports from this project. Participation is voluntary and your help would be very important."

1 Continue

>intro2b< "Do you have any questions about the project? *[Enumerator: Refer to sheet titled: "Frequently Asked Questions", for answers to the subject's questions.]"*

1 Continue

>agree1< "Are you willing to participate?"

1 Yes *(go to **>final_sign_off<**)*
3 No *(go to **>reconsider2<**)*

>final_sign_off< "Thank you for agreeing to participate in this important project. May we continue with the baseline interview now, or schedule it for the near future?"

1 Yes - Continue with the baseline interview now *(go to **>begin_baseline<**)*
3 No - Schedule the baseline interview for the near future *(go to **>callback_baseline<**)*

>reconsider2< "Having participation from everyone will help to better understand the experiences of families operating farms and ranches. Would you reconsider participating?"

1 Yes *(go to **>final_sign_off<**)*
3 No *(go to **>sign_off3<**)*

>reconsider4< "Your farm or ranch may qualify for the project. May I ask a few more questions?"

1 Yes *(go to **>active_farm1<**)*
3 No *(go to **>drawing2<**)*

>reconsider4a< "Your farm or ranch may qualify for the project. May I ask a few more questions?"

1 Yes *(go to **>verify_address<**)*
3 No *(go to **>sign_off2<**)*

>reconsider5< "This information is important to determine whether your household qualifies for the project. There are only a few more questions. May we continue?"

1 Yes *(go to **>farm_qualify3<**)*
3 No *(go to **>drawing2<**)*

>reconsider6< **"**Your participation in this project would make a valuable contribution. Every household we call is eligible to be included in a drawing for a $100 U.S. Savings Bond (Series EE). We would appreciate your help. This interview will only take 5 minutes. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 No *(go to **>drawing2<**)*

>reconsider7< "This information is important to determine whether your household qualifies for the project. There are only a few more questions. May we continue?"

1 Yes *(go to **>farm_qualify2<**)*
3 No *(go to **>drawing2<**)*

>reconsider8< "Your farm or ranch may qualify for the project. May I ask a few more questions?"

1 Yes *(go to **>active_farm2<**)*
3 No *(go to **>drawing2<**)*

>reconsider9< "Your farm or ranch may qualify for the project. May I ask a few more questions?"

1 Yes *(go to **>active_crp<**)*
3 No *(go to **>drawing2<**)*

>reconsider_19< "This information is important to determine whether your household qualifies for the project. There are only a few more questions. May we continue?"

1 Yes *(go to **>persons19<**)*
3 No *(go to **>drawing2<**)*

>reconsider_20< "This information is important to determine whether your household qualifies for the project. There are only a few more questions. May we continue?"

1 Yes *(go to **>persons20<**)*
3 No *(go to **>drawing2<**)*

>reconsider_HH< "This information is important to determine whether your household qualifies for the project. There are only a few more questions. May we continue?"

1 Yes *(go to **>HH_total<**)*
3 No *(go to **>drawing2<**)*

>responses1< *[Enumerator: If respondent doesn't volunteer a reason for their refusal, ask:* "Would you mind telling me the reason that you prefer not to participate in this interview?"*, then enter the appropriate response.]*

1 We didn't (don't have) any injuries *(go to **>resp11<**)*
2 Operation too small *(go to **>resp12<**)*
3 Haven't been farming long enough *(go to **>resp13<**)*
4 Don't like surveys or Just don't want to do it *(go to **>resp14<**)*
5 I'm (we're) too busy or Don't have time *(go to **>resp15<**)*
6 (Personal Crisis) *(go to **>resp16<**)*

>resp11< **"**We are including ALL types of farming and ranching operations, whether or not there were accidents or injuries. May we continue?"

1 Yes *(go to **>farm_qualify2<**)*
3 No *(go to **>drawing3<**)*

>resp12< **"**We are including all sizes of farms and ranches. May we continue?"

1 Yes *(go to **>farm_qualify2<**)*
3 No *(go to **>drawing3<**)*

>resp13< **"**We are including all operations that were actively farming or ranching as of January 1st, 2007, or had land in a Conservation Reserve Program (CRP). Is this true for your operation?"

1 Yes *(go to **>reconsider4<**)*
3 No *(go to **>not_qual<**)*

>resp14< **"**This project is very important for the entire agricultural community. Your participation could really make a difference. There are only a few more questions. May we continue?"

1 Yes *(go to **>farm_qualify2<**)*
3 No *(go to **>drawing3<**)*

>resp15< **"**We understand that you are very busy. However, the first set of questions will only take 5 minutes and your input would make a valuable contribution. May we continue?"

1 Yes *(go to **>farm_qualify2<**)*
3 No

>call_you< "May we call you back at another time that is more convenient for you?"

1 Yes *(go to **>callback<**)*
3 No *(go to **>drawing3<**)*

>resp16< "May we call you back at another time that is more convenient for you?"

1 Yes *(go to **>callback<**)*
3 No *(go to **>drawing3<**)*

>not_qual< Based on the answers you have given, your operation is not eligible for this project. However, you are still eligible for the drawing for a $100 U.S. Savings Bond (Series EE). We will notify the households that are awarded the bonds at the end of the project. Would you like to be included in the drawing?" *[Enumerator: The bond drawings will be sometime in 2009 and 2010; Farms/ranches eligible for the project are operations that: had annual sales of agricultural goods of $1,000 or more or were <u>involved</u> in a CRP during the past year; and were actively farming/ranching as of January 1st of this year or had land in CRP; and had a farm/ranch household.]*

1 Yes
3 No

>ProgNote0< *[Programming note: If >screen_4< = 3 (No) go to >say_goodbye2< Else go to >say_goodbye3<]*

>say_goodbye2< "Thank you for your time and cooperation in answering these questions. GOOD-BYE."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (3) DID NOT QUALIFY – NO FARM HOUSEHOLD*.]*

>say_goodbye3< "Thank you for your time and cooperation in answering these questions. GOOD-BYE."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (2) DID NOT QUALIFY – NOT FARMING/RANCHING*.]*

>not_qual2< Based on the answers you have given, your farm or ranch household is not eligible for this project. However, you are still eligible for the drawing for a $100 U.S. Savings Bond (Series EE). We'll notify the households that are awarded the bonds at the end of the project. Would you like to be included in the drawing?" *[Enumerator: The bond drawings will be sometime in 2009 and 2010; Farms/ranches eligible for the project* are *operations that: had annual sales of agricultural goods of $1,000 or more or were involved in a CRP during the past year; and were actively farming/ranching as of January 1st of this year or had land in CRP; and had a farm/ranch household that included children].*

1 Yes (go to ***>say_goodbye4<***)
3 No (go to ***>say_goodbye4<***)

>say_goodbye4< "Thank you for your time and cooperation in answering these questions. GOOD-BYE."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (4) DID NOT QUALIFY – NO CHILDREN IN HOUSEHOLD*.]*

>drawing2< You are eligible for the drawing for a $100 U.S. Savings Bond (Series EE). We will notify the households that are awarded the bonds at the completion of the project. Would you like to be included in the drawing? *[Enumerator: The bond drawings will be sometime in 2009 and 2010.]*

1 Yes
3 No

>sign_off3< *[Enumerator: If the respondent has already identified why he/she does not want to participate, just identify one or more of the following responses:]*

"Would you mind telling me the reason that you prefer not to participate in this interview?"

1 Does not want to cooperate; does not like surveys *(go to **>drawing3<**)*
2 Too busy; refused to schedule a call-back *(go to **>drawing3<**)*
3 Personal crisis; refused to schedule a call-back *(go to **>drawing3<**)*
4 Other

>reason_specify< "Please specify other reason:"

_____

>drawing3< You are eligible for the drawing for a $100 U.S. Savings Bond (Series EE). We will notify the households that are awarded the bonds at the end of the project. Would you like to be included in the drawing? *[Enumerator: The bond drawings will be sometime in 2009 and 2010.]*

1 Yes
3 No

>ProgNote1< *[Programming note: If >sign_off3< = blank go to >sign_rest< Else go to >sign_rest2<]*

>sign_rest< "Thank you for your time today. Good bye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (1) REFUSED – BEFORE QUALIFYING*.]*

>sign_rest2< "Thank you for your time today. Good bye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (5) REFUSED – AFTER QUALIFYING*.]*

>sign_off2< Thank you for your time today. Good bye. [Programming Note: If >phone< is not blank, Call new telephone number/Restart interview.]

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (1) REFUSED – UNABLE TO CONTACT HH*.]*

>callback< [Enumerator: Setup callback to a knowledgeable individual. Press CONTROL-ENTER to go to the appointment block. Remember to record the appointment on the ***Participation*** portion of the call sheet.]

>callback_baseline< [Enumerator: Setup callback to a knowledgeable individual to conduct the Baseline Interview. Press CONTROL-ENTER to go to the appointment block. Be sure to enter the following, COMMENT 1: 'Baseline'; COMMENT 2: Name of person to ask for (the knowledgable individual; Enter 1 to continue to next screen {Who_Pi}]

****

>begin_baseline< "Now I am going to ask you questions about your farming or ranching activities and members of your household. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer that question, and we will move on to the next question."

1 Continue

Section I: DEMOGRAPHICS (Go To RRIS-III Baseline)

APPENDIX C

BASELINE INTERVIEW
DATA COLLECTION INSTRUMENT
PROGRAMMED INTO CATI SYSTEM

Administered by specially trained interviewers, using a Computer-Assisted Telephone Interview (CATI)

CALLBACKS BEGIN HERE
-- Script Before Entering CATI Program –

Dial number from call sheet prepared by the USDA National Agricultural Statistics Service (NASS).

When someone answers the phone –

Ask:

"Hello, is this the _____ residence?"

If it is not the residence you are calling, follow standard NASS procedures verifying number, etc

If it's the correct household:

Ask: ***"May I please speak with [Name of prior respondent, entered on call sheet]?"***

Prior respondent comes to the phone (*continue interview*)

Prior respondent is unavailable, but callback can be scheduled (*go to* ***>callback_baseline<***)

Prior respondent will never be available –

If prior respondent was female head of household:

Ask:***"Then, may I please speak to the male head of household?"***

Male head of household comes to the phone (*continue interview*)

Male head of household is unavailable (*go to* ***>callback_baseline<***)

<u>Please</u> enter a comment that the prior respondent will never be available, so the enumerator who places the next call will know to ask for the male head of household.

If prior respondent was male head of household:

Ask:***"Then, may I please speak to the female head of household?"***

Female head of household comes to the phone (*continue interview*)

Female head of household is unavailable (*go to* ***>callback_baseline<***)

<u>Please</u> enter a comment that the prior respondent will never be available, so the enumerator who places the next call will know to ask for the female head of household.

CATI Interview

Baseline Interview

>CALLBACK INTERVIEW STARTS HERE

>Who_Pi< *[Enumerator: Who is the current respondent? Enter name.]*

_____

>Cur_Resp< [*Enumerator: Enter code.]*

1 Female head of household
3 Male head of household

>int_ProgNote< *[Programming Note:*
If >Cur_Resp< = ***>Who_Resp<*** *(from participation interview)*
>Who_Pi2< *= "you"*
>he_she1< *= "you"*
Else
>Who_Pi2< *=* ***>Obtain Name<***
If (>Who_Resp< = 1)
>he_she1< *= "she"*
Else
>he_she1< *= "he"*
End If
End If]

>Intro< "Hello, this is >EnumName< calling for the >StateName< agricultural statistics service. I'm calling to follow up on a project we're conducting with the University of Minnesota about farming and ranching activities and injuries. The results from the project will be used to develop injury prevention programs that can benefit all households."

1 *Continue*

>Intrdctn< "When we spoke with >Who_Pi2< recently, >he_she1< said that your household was willing to help us with this project. We would like to conduct the first interview now, to obtain information about your farming or ranching activities and members of your household, . The interview should take 30-45 minutes and all information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer it, and we'll move on to the next question. Is this a convenient time?"

1 Yes
3 No, not a convenient time *(go to* ***>callback_baseline<****)*
9 Refused *(go to* ***>b_reconsider1<****)*

>Monitoring< "For quality control purposes, my supervisor may monitor this call."

1 *Continue*

CONTINUATION FROM PARTICIPATION INTERVIEW STARTS HERE

>begin_baseline< "Now I am going to ask you questions about your farming or ranching activities and members of your household. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer that question, and we will move on to the next question."

1 Continue

>ProgNote0< *[Programming note:*

Set array wmonth(6) = ("July 2006", "August 2006", "September 2006", "October 2006", "November 2006", "December 2006")

>Number17< = 0
>Child17< = "None"
If ***>fips_state<*** = 27 (MN)
>program< = "Minnesota Care or CHIPS"
Elseif ***>fips_state<*** = 31 (NE)
>program< = "Kids Connection"
Elseif ***>fips_state<*** = 38 (ND)
>program< = "Healthy Steps"
Elseif ***>fips_state<*** = 46 (SD)
>program< = "CHIPS Program"
Elseif ***>fips_state<*** = 55 (WI)
>program< = "Badger Care"
Endif]

>enterpr0< **"**In which of these farming or ranching enterprises was your operation engaged **between January 1st and December 31st, 2006**? Please wait until I finish reading the entire list, then tell me all that apply." *[Enumerator: READ the list and enter the first three REPORTED]*

1 Beef cattle
2 Dairy cattle
3 Poultry
4 Swine
5 Sheep
6 Other animals (example: horses, etc.)
7 Crops (Field, forage or specialty crops)
8 CRP (Conservation Reserve Program) or Set-aside program
9 Other (specify)
98 Unknown
99 Refused

>ProgNote1< *[Programming note: If any of the codes entered in **>enterpr0<** is 9, ELSEIF only 1 code is entered go to **>acres<**, ELSE go to **> enterpr0_spec<**; else go to **>enterpr1<**]*

>enterpr0_spec< "Please specify the other enterprise" _____

>enterpr1< **"**Which ONE of those enterprises required the MOST amount of WORK TIME?"

1 Beef cattle *(go to **>acres<**)*
2 Dairy cattle *(go to **>acres<**)*
3 Poultry *(go to **>acres<**)*
4 Swine *(go to **>acres<**)*
5 Sheep *(go to **>acres<**)*
6 Other animals (example: horses, etc.) *(go to **>acres<**)*
7 Crops (Field, forage or specialty crops) *(go to **>acres<**)*
8 CRP (Conservation Reserve Program) or Set-aside program *(go to **>acres<**)*
9 Other (specify)
98 Unknown *(go to **>acres<**)*
99 Refused *(go to **>acres<**)*

>enterpr_spec< "Please specify the other enterprise" _____

>acres< "**During that time**, of the acres that you own, plus the acres that you rent or lease <u>from someone else</u>, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs."

0 None
1 1 or less
___ 2 – 75,000
99998 Unknown
99999 Refused

>any_mwork_intro< "The following questions are about time **any household members** spent **caring for** children in your household (less than 20 years of age) because of injuries, illnesses or mental and physical health conditions, from July 1, 2006 through December 31, 2006."

1 *Continue*

>anym_f_work< **"**Did any household members miss days of work or chores <u>related to your farming or ranching operation</u>, due to a child's injuries, illnesses or health conditions?"

1 Yes
3 No
8 Unknown
9 Refused

>anym_nf_work< **"**Did any household members miss days of work <u>not related to your farming or ranching operation,</u> due to a child's injuries, illnesses or health conditions?"

1 Yes
3 No
8 Unknown
9 Refused

>anym_o_work< **"**Were any household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for a child, due to the child's injuries, illnesses or health conditions?"

1 Yes
3 No
8 Unknown
9 Refused

>ProgNote1a< *[Programming Note: If >anym_f_work< = 1 or >anym_nf_work< = 1 or >anym_o_work< = 1 SET >anym_work< = 1, ELSE SET >anym_work< = 3]*

>any_health_intro< "The following questions are about the health services used by children in your household (less than 20 years of age), from July 1, 2006 through December 31, 2006."

1 *Continue*

>any_hosp1< **"**Were any of the children in your household **admitted** as patients for **at least one night in a hospital**?"

1 Yes
3 No
8 Unknown
9 Refused

>any_er1< **"**Did any of the children in your household go to a **hospital emergency room**? (Do not include emergency room visits that preceded hospital admission)"

1 Yes
3 No
8 Unknown
9 Refused

>any_ther1< **"**Did any of the children in your household have any form of **therapy**, including physical or occupational therapy, speech therapy an audiology? (Do not include emergency room visits that preceded hospital admission)"

1 Yes
3 No
8 Unknown
9 Refused

>any_hcp1< **"**Did any of the children in your household visit a doctor or other health care provider or receive a health care treatment? (Do not include overnight hospital stays, emergency room visits or therapy visits.)"

1 Yes
3 No
8 Unknown
9 Refused

>ProgNote1b< *[Programming Note: If >any_hosp1< = 1 or >any_er1< = 1 or >any_hcp1< = 1 SET >any_hc< = 1, ELSE SET >any_ hc< = 3]*

>hh_log< "Now I need to collect some information about each member of your household, as of January 1st, 2007. Starting with the people 20 years of age and older (if there is one)…."

1 *Continue*

>ProgNote3< *[Programming Note: Set **>kids<** = 0; **>adults<** = 0. Carry forward >anym_f_work<, >anym_nf_work<, >anym_o_work<, >any_hosp1<, >any_er1< and >any_hcp1<. The program then loops through the age groups. First People 20 and Over, person 0 thru >persons20< (**>type_pers<** = "adult" and **>adults<** = **>adults<** + 1, with ">type_pers< "#" >adults<" displayed in the upper left corner of the screen); then People 19 and Under, person 1 thru >persons19< (increment **>kids<** = **>kids<** + 1, with **>type_pers<** = "child", ">type_pers< "#" >kids<" displayed in the upper left corner of the screen). As it goes through the loop, each subject is also assigned an incremental subject number **>noinfarm<**, and the total number of people in the farm household, **>totinfarm<** set to >persons20< + >persons19<. After entering the last person go to **>ch_progNote0<**]*

>first_name< "What is their first name?" _____

>last_name< "What is ">first_name<"'s last name?" _____

>self_relat< "What is ">first_name<"'s relationship TO YOU?"

1 Self (respondent)
2 Spouse / Life partner
3 Child (son/daughter: includes step-children <u>of respondent</u>)
4 Sibling (includes half & step-brothers & sisters)
5 Parent (respondent's parent)
6 Other family
7 Non-family
8 Unknown
9 Refused

> ProgNote4< *[Programming note:*
>Was_is< *= "is"*
>Was_were< *= "Was"*
>was_were< *= "was"*
If ***>fips_state<*** = 27 (MN)
>program< = "Minnesota Care or CHIPS"
Elseif ***>fips_state<*** = 31 (NE)
>program< = "Kids Connection"
Elseif ***>fips_state<*** = 38 (ND)
>program< = "Healthy Steps"
Elseif ***>fips_state<*** = 46 (SD)
>program< = "CHIPS Program"
Elseif ***>fips_state<*** = 55 (WI)
>program< = "Badger Care"
Endif]
If **>self_relat<** = 1
>Your_name's< *= "your"*
>Title< *= "you"*
>Was_were< *= "Were"*
>was_were< *= "were"*
>he_she< *= "you"*
>his_her< *= "your"*
>CHas_Have< *= "Have"*
>has_have< *= "have"*
If **>HHLog_resp<** = **2 *(Female Head of Household)***
>gender< *= 3 (female)*
Else

>gender< *= 1 (male)*
Endif
Go to ***>dob<***
Else
>Your_name's< *= "****>first_name<****'s"*
>Title< *=* ***>first_name<***
>CHas_Have< = "Has"
>has_have< = "has"
Endif/

>gender< "Is >first_name< male or female?"

1 Male
3 Female

>ProgNote5< [Programming Note:
If **>gender<** = 3 (female)
>he_she< *= "she"*
>his_her< *= "her"*
Elseif **>gender<** = 1 (Male)
>he_she< *= "he"*
>his_her< *= "his"*
Endif

>dob< "What >was_is< >Your_name's< birth date?"____/__/__ (YYYY/MM/DD)

>ProgNote6a< [Programming Note:
If (>dob< known)
>age< = trunc((((01/01/2007) - >dob<])/365.25),0)
Else
>age< = >current<
End If]

>ProgNote6< *[Programming note: If respondent does not know date of birth or refuses to give it, go to* ***>current<****; Else go to* ***>ProgNote6b<****]*

>current< "What was >his_her< age on January 1, 2007?"

____ 0-110 Years (go to ***>ProgNote6b<***)
998 Unknown
999 Refused

>lt20< ">Was_were< >Title< less than 20 years of age on January 1, 2007?"

1 Yes
3 No (go to ***>ProgNote6b<***)
8 Unknown (go to ***>ProgNote6b<***)
9 Refused (go to ***>ProgNote6b<***)

>lt18< ">Was_were< >he_she< less than 18 years of age on January 1, 2007?"

1 Yes (go to ***>ProgNote6b<***
3 No (go to ***>ProgNote6b<***
8 Unknown (go to ***>ProgNote6b<***
9 Refused (go to ***>ProgNote6b<***

>ProgNote6b< [Programming Note: If **>self_relat<** = 1 and (**>age<** < 18 or >lt18< = 1), print the following error message and schedule a callback to an adult. Error message:]

"Warning – According to the relationship and birthdate/age information you have entered the person you are interviewing is too young! Please correct this information if it is in error, or explain that we cannot interview individuals who were under 18 years of age (as of January 1st) without prior parental permission and schedule a callback." *(go to **>dob<**)*

>ProgNote6c< [Programming Note: Don't collect information on individuals born after January 1st, 2007: If >age< < 0 (born in 2007), verify **>dob<**. If birthdate is before 01/01/2007 go to **>race<**, ELSE go to **>hh_next_member<**.]

>ProgNote6d< [Programming Note: We need to determine how many HH members are < 17 and if there is only one, who it is, so (if there's more than one it won't matter if we overwrite the >Child17< field, because we won't use it):

IF ((>age< < 18 or >lt18< = 1) AND >self_relat< > 2) THEN
>Number17< = >Number17< + 1
>Child17< = >Your_name's<]

>race_eth< "Could you please tell me >Your_name's< race and ethnicity? I'll read a list of racial and ethnic groups and I'd like you to tell me ALL that describe >Title<." *[Enumerator: READ list and enter ALL that apply]*

1 White
2 Black, African or African American
3 American Indian or Alaskan Native
4 Hispanic or Latino
5 Asian
6 Native Hawaiian or Pacific Islander
7 Something else
8 Unknown
9 Refused

>ProgNote7a< *[Programming note: IF **>race< #1** = 4 and **>race< #2** is blank, go to **>race<**; ELSE go to **>ProgNote7<**]*

>race< "You have reported >Your_name's< ethnicity as Hispanic or Latino. I still need to know >his_her< race, so I'll read the list of racial groups again and I'd like you to tell me ALL that describe >Title<." *[Enumerator: READ list and enter ALL that apply]*"

1 White
2 Black, African or African American
3 American Indian or Alaskan Native
5 Asian
6 Native Hawaiian or Pacific Islander
7 Something else
8 Unknown
9 Refused

>ProgNote7< *[Programming note:* ***If any of the codes entered in >race_eth< is 7*** *OR any of the codes entered in >race< is 7, go to* ***>race_specify****; ELSE go to* ***>ProgNote8<****]*

>race_specify< "Please specify the other race." *[Enumerator: If the respondent specifies a nationality, such as Italian or Croatian, instead of a race, continue to probe for race.]* _____

>ProgNote8< [Programming note: *If (>age< < 16 go to* ***>insurance<***]

>married< "As of January 1, 2007, what was >Your_name's< marital status? I'll read you a list of marital status categories and would like you to stop me when I reach the correct one."

1 Married
2 Living as married
3 Never married
4 Widowed
5 Separated
6 Divorced
8 Unknown
9 Refused

>insurance< ">Was_were< >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from July 1, 2006 through December 31, 2006?"

1 Yes, all of that time *(go to* ***>type_ins<****)*
3 Yes, part of that time *(go to* ***>mo_ins<****)*
5 No, none of that time *(go to* ***>ProgNote10<****)*
8 Unknown *(go to* ***>ProgNote10<****)*
9 Refused *(go to* ***>ProgNote10<****)*

>mo_ins< "During that period, for how many months DID >Title< have health care coverage?"

0 None
1 1 or less
___ 2 – 6 months
8 Unknown
9 Refused

>type_ins< "Please tell me ALL of the following types under which >Title< >was_were< covered." *[Enumerator: READ list and enter ALL that apply. Also, if **>Title<** is covered by insurance carried by a parent not living in this household, please classify it using the options below.]*

1 A medical plan purchased by your **own operation**
2 A medical plan purchased by your **household** (this includes COBRA coverage)
3 A medical plan provided by an employer, with or without an employee copay (this includes military insurance) [*Enumerator: This doesn't have to be the individual's employer. It could the employer of any parent or guardian, even a non-custodial parent or guardian.*]
4 Medicare with a supplemental policy
5 Medicare without a supplemental policy
6 A Medicare HMO
7 Medicaid, Medical Assistance or any other state or federally subsidized medical plan, such as ***>program<***
8 Something else
98 Unknown
99 Refused

>ProgNote9< *[Programming note: If any of the codes entered in >type_ins< is 8, go to **>type_ins_specify<**; else go to **>ProgNote10<**]*

>type_ins_specify< "Please specify the other insurance." _____

>ProgNote10< *[Programming note: If (**>age<** < 20 OR **>lt20<** = 1 OR (**>lt20<** is unknown/refused and **>type_pers<** = "child"), go to **>grade<**]*

>yrs_school< "As of January 1, 2007, what was the highest grade in school >Title< completed?"

0 Less than kindergarten (includes pre-school & no school) *(go to **>intro_work<**)*
1 Eighth grade or less (includes kindergarten) *(go to **>intro_work<**)*
2 Some high school *(go to **>intro_work<**)*
3 High school graduate or GED *(go to **>intro_work<**)*
4 Some technical school *(go to **>intro_work<**)*
5 Technical school graduate *(go to **>intro_work<**)*
6 Some college *(go to **>intro_work<**)*
7 College graduate *(go to **>intro_work<**)*
8 Post graduate/Professional school (graduate school, medicine, law, etc.) *(go to **>intro_work<**)*
9 Other
98 Unknown *(go to **>intro_work<**)*
99 Refused *(go to **>intro_work<**)*

>yrs_school_specify< "Please specify the other schooling." _____ *(If (**>age<** < 20 OR **>lt20<** = 1*

*OR (**>lt20<** is unknown/refused and **>type_pers<** = "child)"), go to **>school_miss<** ELSE go to **>intro_work<)***

>grade< **"**During December 2006, including pre-school, what was ***>Your_name's<*** grade in school? If >Title< didn't go to school that month, what grade had >he_she< last attended?"

0 Pre-school/Kindergarten
____ 1–11 (1^{st}-11^{th} Grade)
12 High School Sr. (not graduate) *[Enumerator: Probe for grad./GED status]*
13 High school graduate or GED
14 Some technical school
15 Technical school graduate
16 Some college
17 College graduate
18 Other – Specify (*go to **>yrs_school_specify<**)*
97 N/A – Never attended school ***(**go to **>height_feet<)***
98 Unknown
99 Refused

>school_miss< **"**From the time school started in Fall 2006, until the end of December, how many regular school days did >Title< miss?" *[Enumerator: For any reason, not just illness or injury.]*

0 None
__ 001 - 125 days
997 N/A - Did not attend school (not registered)
998 Unknown
999 Refused

>school_rate< **"**During that same period, how would you rate >Your_name's< school performance? Was it excellent, above average, average, below average or not satisfactory?"

1 Excellent *(go to **>height_feet <**)*
2 Above average *(go to **>height_feet <**)*
3 Average *(go to **>height_feet <**)*
4 Below average *(go to **>height_feet <**)*
5 Not satisfactory *(go to **>height_feet <**)*
6 Other
8 Unknown *(go to **>height_feet <**)*
9 Refused *(go to **>height_feet <**)*

>school_specify< **"**Please specify other."

_____

>height_feet< **"**What is >his_her< approximate height?

In FEET"

__ 1-7
8 Unknown
9 Refused

>height_inches< **"**and INCHES"

____ 0-11.99
99.98 Unknown
99.99 Refused

>weight< **"**What is >Your_name's< approximate weight? (in pounds)"

____ 1-500
998 Unknown
999 Refused

>intro_work< "Between July 1st 2006 and December 31st 2006, how many months did >Title< work or do chores in any activity related to your farming or ranching operation?"

0 None *(go to **>ProgNote10b<**)*
___ 1 – 6 months
8 Unknown *(go to **>ProgNote10b<**)*
9 Refused *(go to **>ProgNote10b<**)*

>wk_f_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>hrs_f_1< "For those weeks, on average, how many HOUR**S** PER WEEK?"

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>ProgNote10b< *[Programming note: If **>age<** < 12 go to **>stress1<**]*

>intro_nf_work< "Between July 1st 2006 and December 31st 2006, how many months did ***>Title<*** do any paid work that was not related to your own operation?" *[Enumerator: This can include regular full or part-time jobs, as well as babysitting, lawnmowing, newspaper delivery, work on other farms, etc.]*

0 None *(go to **>stress1<**)*
___ 1 – 6 months
8 Unknown *(go to **>stress1<**)*
9 Refused *(go to **>stress1<**)*

>type_nf_work< "During that time, what was >Your_name's< primary job or occupation?"

Specify: _____

>wks_nf_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>hrs_nf_1< "For those weeks, on average, how many HOURS PER WEEK?"

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>stress1< "During the past four weeks, on a scale of 0 to 10, where 0 means "not stressful" and 10 means "extremely stressful", how stressful did you feel life was for >Title<?"

0 Not stressful
10 Extremely stressful
98 Unknown
99 Refused

>prior_limit< "Does/do >Title< currently have any limitations, including pain, discomfort, or restricted activity, as the result of an injury, illness or other medical condition?"

1 Yes
3 No *(go to **>prior_health<**)*
8 Unknown *(go to **>prior_health<**)*
9 Refused *(go to **>prior_health<**)*

>limit_inj< "Are any of these limitations the result of an injury?"

1 Yes
3 No *(go to **>sev_limit<**)*
8 Unknown *(go to **>sev_limit<**)*
9 Refused *(go to **>sev_limit<**)*

>inj_rel_f< "Were any of those injuries related to agricultural work?"

1 Yes
3 No
8 Unknown
9 Refused

>sev_limit< "How long >Have_has< >Title< experienced these limitations?"

____ Years; ____ Months; ____ Days (>sev_limit_yr<, >sev_limit_mo<, >sev_limit_day<)

>prior_health< **"**Does/do >Title< have any of the following health or medical problems, which have been diagnosed at ANY TIME by a physician, chiropractor, or other health care provider?"

1 *Continue*

>asthma< "Asthma or other respiratory problems?"

1 Yes
3 No
8 Unknown
9 Refused

>heart< **"**Heart-related problems?" *(See above: Yes/No/Unknown/Refused)*

>diabetes< **"**Diabetes?" *(See above: Yes/No/Unknown/Refused)*

>hearing< **"**Hearing problems?" *(See above: Yes/No/Unknown/Refused)*

>vision< **"**Vision problems that are not corrected with lenses?" *(See above: Yes/No/Unknown/Refused)*

>prior_hlth_oth< **"**Anything else?"

Specify: _____

>ProgNote11< *[Programming note: IF **>age<** < 5 go to **>hui31<**, ELSE IF **>self_relat<** = 1 go to **>hui_intro1<**, ELSE go to **>hui_intro2<**]*

>hui_intro1< "The next set of questions asks about various aspects of your health. When answering these questions we would like you to think about your health and your ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 4 weeks ago and recall the major events that you have experienced during this period. Please focus your answers on your abilities, disabilities and how you have felt during the past 4 weeks."

1 *Continue*

>hui_intro1a< "You may feel that the questions do not apply to you, but it is important that we ask the same questions of everyone. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about your abilities and feelings."

1 *go to >enum1<*

>hui_intro2< "The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

1 *Continue*

>hui_intro2a< "You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

1 *Continue<*

>enum1< *[Enumerator: "For each question, read the entire sentence as written, emphasing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection."]*

1 *Continue<*

>hui1< **"**During the past 4 weeks, >has_have< >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

1 Yes *(go to >**hui4**<)*
3 No
8 Don't know
9 Refused

>hui2< **"**>CHas_Have< >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

1 Yes *(go to >**hui4**<)*
3 No
8 Don't know
9 Refused

>hui3< **"**During the past 4 weeks, >has_have< >Title< been able to see at all?"

1 Yes
3 No *(go to >**hui6**<)*
8 Don't know
9 Refused

>hui4< **"**During the past 4 weeks, >has_have< >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

1 Yes *(go to >**hui6**<)*
3 No
8 Don't know
9 Refused

>hui5< **"**>CHas_Have< >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

1 Yes *(go to >**hui6**<)*
3 No
8 Don't know/Didn't wear glasses or contact lenses
9 Refused

>hui6< **"**During the past 4 weeks, >has_have< >Title< been able to hear what is said in a group conversation with at least 3 other people without a hearing aid?"

1 Yes *(go to >**hui11**<)*
3 No
8 Don't know
9 Refused

>hui7< **"**>CHas_Have< >Title< been able to hear what is said in a group conversation with at least 3 other people with a hearing aid?"

1 Yes ***(go to >hui9<)***
3 No
8 Don't know
9 Refused

>hui8< **"**During the past 4 weeks, >has_have< >Title< been able to hear at all?"

1 Yes
3 No *(go to >**hui11**<)*
8 Don't know
9 Refused

>hui9< **"**During the past 4 weeks, >has_have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room without a hearing aid?"

1 Yes *(go to >**hui11**<)*
3 No
8 Don't know
9 Refused

>hui10< **"**>CHas_Have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room with a hearing aid?"

1 Yes *(go to >**hui11**<)*
3 No
8 Don't know/Didn't wear a hearing aid
9 Refused

>hui11< **"**During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?"

1 Yes *(go to >**hui16**<)*
3 No
8 Don't know
9 Refused

>hui12< **"**>CHas_Have< >Title< been able to be understood partially when speaking with people who do not know >Title<?"

1 Yes
3 No
8 Don't know
9 Refused

>hui13< **"**During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking with people who know >Title< well?"

1 Yes *(go to >**hui16**<)*
3 No
8 Don't know
9 Refused

>hui14< **"**>CHas_Have< >Title< been able to be understood partially when speaking with people who know >Title< well?"

1 Yes *(go to >**hui16**<)*
3 No
8 Don't know
9 Refused

>hui15< **"**During the past 4 weeks, >has_have< >Title< been able to speak at all?"

1 Yes
3 No
8 Don't know
9 Refused

>hui16< **"**During the past 4 weeks, >has_have< **>Title<** been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?"

1 Yes *(go to >**hui24**<)*
3 No
8 Don't know
9 Refused

>hui17< **"**>CHas_Have< **>Title<** been able to walk around the neighborhood without difficulty and without help or equipment of any kind?"

1 Yes *(go to >**hui24**<)*
3 No
8 Don't know
9 Refused

>hui18< **"**>CHas_Have< >Title< been able to walk around the neighborhood with difficulty but without help or equipment of any kind?"

1 Yes *(go to >**hui24**<)*
3 No
8 Don't know
9 Refused

>hui19< **"**During the past 4 weeks, >has_have< >Title< been able to walk at all?"

1 Yes
3 No *(go to >**hui22**<)*
8 Don't know
9 Refused

>hui20< **"**>CHas_Have< >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?" *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

1 Yes
3 No
8 Don't know
9 Refused

>hui21< **"**>CHas_Have< >Title< needed the help of another person to walk?"

1 Yes
3 No
8 Don't know
9 Refused

>hui22< **"**>CHas_Have< >Title< needed a wheelchair to get around the neighborhood?"

1 Yes
3 No
8 Don't know
9 Refused

>hui23< **"**>CHas_Have< >Title< needed the help of another person to get around in the wheelchair?"

1 Yes
3 No
8 Don't know
9 Refused

>hui24< **"**During the past 4 weeks, >has_have< >Title< had the full use of both hands and ten fingers?"

1 Yes *(go to >**hui28**<)*
3 No
8 Don't know
9 Refused

>hui25< **"**>CHas_Have< >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No *(go to >**hui27**<)*
8 Don't know
9 Refused

>hui26< **"**>CHas_Have< >Title< needed the help of another person with some tasks, most tasks or all tasks?"

1 Some tasks
2 Most tasks
3 All tasks
8 Don't know
9 Refused

>hui27< **"**>CHas_Have< >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No
8 Don't know
9 Refused

>hui28< **"**During the past 4 weeks, >has_have< **>Title<** been able to eat, bathe, dress and use the toilet without difficulty?"

1 Yes *(go to >**hui31**<)*
3 No
8 Don't know
9 Refused

>hui29< **"**>CHas_Have< >Title< needed the help of another person to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>hui30< **"**>CHas_Have< >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>hui31< **"**During the past 4 weeks, >has_have< >Title< been feeling happy or unhappy?"

1 Happy
2 Unhappy *(go to >**ProgNote11b**<)*
8 Don't know
9 Refused

>ProgNote11a< *[Programming note: IF **>self_relat<** = 1 go to **>hui32a<**, ELSE go to **>hui32b<**]*

>hui32a< **"**Would you describe yourself as having felt:
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to >**hui34**<)*
2 b) somewhat happy *(go to > **hui34**<)*
8 Don't know *(go to > **hui34**<)*
9 Refused *(go to > **hui34**<)*

>hui32b< **"**Would you describe >Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to >**ProgNote11c**<)*
2 b) somewhat happy *(go to >**ProgNote11c**<)*
8 Don't know *(go to >**ProgNote11c**<)*
9 Refused *(go to >**ProgNote11c**<)*

>ProgNote11b< *[Programming note: IF **>self_relat<** = 1 go to **>hui33a<**, ELSE go to **>hui33b<**]*

>hui33a< **"**Would you describe yourself as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy *(go to >**hui34**<)*
2 b) very unhappy *(go to >**hui34**<)*
3 c) so unhappy that life was not worthwhile *(go to >**hui34**<)*
8 Don't know *(go to >**hui34**<)*
9 Refused *(go to >**hui34**<)*

>hui33b< **"**Would you describe >Title< as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don't know
9 Refused

>ProgNote11c< *[Programming note: IF **>age<** < 5 go to **>hui41<**, ELSE go to **>hui34<**]*

>hui34< **"**During the past 4 weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?"

1 Yes
3 No *(go to >**hui37**<)*
8 Don't know
9 Refused

>hui35< "How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?"

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don't know
9 Refused

>hui36< **"**During the past 4 weeks, did >Title< feel <u>extremely</u> fretful, angry, irritable, anxious or depressed; to the point of needing professional help?"

1 Yes
3 No
8 Don't know
9 Refused

>hui37< **"**How would you describe >Your_name's< ability to remember things, during the past 4 weeks:

a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?"

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don't know
9 Refused

>hui38< **"**How would you describe >Your_name's< ability to think and solve day to day problems, during the past 4 weeks:

a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?"

1 a) able to think clearly and solveproblems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don't know
9 Refused

>hui39< **"**>CHas_Have< >Title< had any trouble with pain or discomfort, during the past 4 weeks?"

1 Yes
3 No *(go to* >***hui41***<*)*
8 Don't know
9 Refused

>hui40< "How many of >Your_name's< activities, during the past 4 weeks, were limited by pain or discomfort: none, a few, some, most, all?"

1 None
2 A few
3 Some
4 Most
5 All
8 Don't know
9 Refused

>hui41< **"**Overall, how would you rate >Your_name's< health during the past 4 weeks:

a) excellent
b) very good
c) good
d) fair
e) poor?"

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don't know
9 Refused

>global_life< **"**Using a scale of 0 to 10 where 0 means 'the worst possible life overall' and 10 means 'the best possible life overall', how would you rate >his_her< life, during the past 4 weeks?"

0 The worst possible life overall
10 The best possible life overall
98 Unknown
99 Refused

>ProgNote12< *[Programming note: IF (>age< <20 or >lt20< = 1) go to* ***>ProgNote12a<****, ELSE go to* ***>next_member<****]*

>ProgNote12a< *[Programming note: IF >self_relat< > 2 go to* ***>activity_intro<****, ELSE go to* ***>introduction16<****]*

>activity_intro< "The following questions are about >Your_name's< activities and characteristics **during the past four weeks**."

1 *Continue*

>develop< **"**On a scale of 0 to 10, where 0 means 'not well at all' and 10 means 'extremely well', compared to expected development for children this age, how well, overall, was >Title< doing in terms of social relationships, learning, play, chores or work?"

0 Not well at all
10 Extremely well
98 Unknown
99 Refused

>concern< **"**On a scale of 0 to 10, where 0 means 'no concern' and 10 means 'extreme concern', rate your level of concern about >Title<?"

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>introduction16< "The next questions are about your perception of ***>Your_name's<*** behaviors or actions during the past four weeks. Choose the answer that best describes HOW OFTEN the following happened or WAS TRUE of >Title< during that month. Would you say that >he_she< ALMOST NEVER, SOMETIMES, OFTEN or ALMOST ALWAYS..."

>complete< "Completed >his_her< work or chores?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
7 N/A – No work or chores during the past four weeks
8 Unknown
9 Refused

>hard< **"**Worked hard?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
7 N/A – No work during the past four weeks
8 Unknown
9 Refused

>irritable< **"**Was irritable?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
8 Unknown
9 Refused

>sad< **"**Looked sad or down?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
8 Unknown
9 Refused

>energy< **"**Had low energy?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
8 Unknown
9 Refused

>ProgNote12b< *[Programming note: IF >self_relat< > 2 go to* ***>introduction15<****, ELSE go to* ***>ProgNote12b2<****]*

>introduction15< "The next few questions ask about YOUR experience in strictness with >Title<. We recognize that parents differ in how strict they are with their children because of children's abilities at different ages.

During the past four weeks, how STRICT were you about the FOLLOWING: Not strict, somewhat strict, moderately strict or very strict?"

1 *Continue*

>strict1< **"**Knowing where >Title< was?"

1 Not strict
2 Somewhat strict
3 Moderately strict
4 Very strict
7 N/A
8 Unknown
9 Refused

>strict2< "Knowing who >he_she< was with when >he_she< was out?"

1 Not strict
2 Somewhat strict
3 Moderately strict
4 Very strict
7 N/A
8 Unknown
9 Refused

>concern_intro< "The next few questions are about YOUR level of comfort with >Your_name's< well-being **during the past four weeks**. On a scale of 0 to 10, where 0 means 'no concern' and 10 means 'extreme concern', to what degree were you worried or concerned by >Your_name's< …"

1 *Continue*

>concern1< **"**Physical health?"

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>concern2< **"**Emotional health?"

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>concern3< **"**Behavior?"

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>parent_time< **"**On a scale of 0 to 10, where 0 means 'not at all limited' and 10 means 'extremely limited', to what degree were you limited in the amount of time you had for your own needs, because of >his_her< physical or emotional health or behavior?"

0 Not at all limited
10 Extremely limited
98 Unknown
99 Refused

>family_act< **"**On a scale of 0 to 10, where 0 means 'no interruption' and 10 means 'always interrupted', to what degree were various everyday family activities interrupted, as a result of >title<'s physical or emotional health or behavior?"

0 No interruption
10 Always interrupted
98 Unknown
99 Refused

>ProgNote12b2< *[Programming note: IF >anym_work< = 3 go to* ***>ProgNote12b3<****, ELSE go to* ***>mwork_intro<****]*

>mwork_intro< "In the following questions, I will ask about the amount of time any household members spent caring for >Title< because of injuries, illnesses or mental and physical health conditions, from July 1, 2006 through December 31, 2006."

1 *Continue*

>ProgNote12b2a< *[Programming note: IF >anym_f_work< = 1 go to* ***>miss_f_work<****, ELSE go to* ***>ProgNote12b2b<****]*

>miss_f_work< **"**Did any household members miss days of work or chores <u>related to your farming or ranching operation,</u> due to >Your_name's< injuries, illnesses or health conditions?"

1 Yes
3 No (*go to* ***>miss_nf_work<***)
8 Unknown (*go to* ***>miss_nf_work<***)
9 Refused (*go to* ***>miss_nf_work<***)

>miss_f_days< **"**About how many (8 hour) days were missed?"

0 Less than one day
___ 1 – 184 days
8 Unknown
9 Refused

>substitute_f< **"**Did anyone else substitute for these household members when they missed work?"

1 Yes
3 No (*go to* ***>lost_f_income<***)
8 Unknown (*go to* ***>lost_f_income<***)
9 Refused (*go to* ***>lost_f_income<***)

>paid_f_hr< "About how much was paid in whole dollars for this help?"

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>paid_f_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>lost_f_income< "About how much <u>income</u> did these household members lose in association with these lost work days?"

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>ProgNote12b2b< *[Programming note: IF >anym_nf_work< = 1 go to* ***>miss_nf_work<****, ELSE go to* ***>ProgNote12b2c<****]*

>miss_nf_work< **"**Did any household members <u>miss days of work not related to your farming or ranching operation,</u> due to >Your_name's< injuries, illnesses or health conditions?"

1 Yes
3 No (*go to* ***>miss_o_work<***)
8 Unknown (*go to* ***>miss_o_work<***)
9 Refused (*go to* ***>miss_o_work<***)

>miss_nf_days< **"**About how many (8 hour) days were missed?"

0 Less than one day
___ 1 – 184 days
8 Unknown
9 Refused

>substitute_nf< **"**Did anyone else substitute for these household members when they missed work?"

1 Yes
3 No (*go to* ***>lost_nf_income<***)
8 Unknown (*go to* ***>lost_nf_income<***)
9 Refused (*go to* ***>lost_nf_income<***)

>paid_nf_hr< "About how much was paid in whole dollars for this help?"

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>paid_Nf_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>lost_nf_income< "About how much income did these household members lose in association with these lost work days?"

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>ProgNote12b2c< *[Programming note: IF >anym_o_work< = 1 go to* ***>miss_o_work<****, ELSE go to* ***>ProgNote12b3<****]*

>miss_o_work< **"**Were any household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for >Title<, due to >his_her< injuries, illnesses or health conditions?"

1 Yes
3 No (*go to* ***>ProgNote12b3<***)
8 Unknown (*go to* ***>ProgNote12b3<***)
9 Refused (*go to* ***>ProgNote12b3<***)

>miss_o_days< **"**About how many (8 hour) days were missed?"

0 Less than one day
___ 1 – 184 days
8 Unknown
9 Refused

>substitute_o< **"**Was anyone else paid to substitute for these household members usual efforts with child care, home chores, or care of other family members?"

1 Yes
3 No (*go to* ***>ProgNote12b3<***)
8 Unknown (*go to* ***>ProgNote12b3<***)
9 Refused (*go to* ***>ProgNote12b3<***)

>paid_o_hr< "About how much was paid in whole dollars for this help?"

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>paid_o_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>ProgNote12b3< *[Programming note: IF >any_hc< = 3 go to* ***>barriers<****, ELSE go to* ***>health_intro<****]*

>health_intro< "In the following questions I will ask about the health services used by >Title< from July 1, 2006 through December 31, 2006."

1 *Continue*

>ProgNote12b3a< *[Programming note: IF >any_hosp1< = 1 go to* ***>hosp1<****, ELSE go to* ***>ProgNote12b3b<****]*

>hosp1< **"**>Was_were< >Title< **admitted** as a patient for **at least one night in a hospital**?"

1 Yes
3 No (go to ***>ProgNote12b3b<***)
8 Unknown (go to ***>ProgNote12b3b<***)
9 Refused (go to ***>ProgNote12b3b<***)

>hosp1a< **"How many times**?"

____	1 – 97
98	Unknown
99	Refused

>ProgNote12b3b< *[Programming note: IF >any_er1< = 1 go to* ***>er1<****, ELSE go to* ***>ProgNote12b3c<****]*

>er1< **"**Did >Title< go to a **hospital emergency room**? (Do not include emergency room visits that preceded a hospital admission)"

1 Yes
3 No (go to ***>ProgNote12b3c<***)
8 Unknown (go to ***>ProgNote12b3c<***)
9 Refused (go to ***>ProgNote12b3c<***)

>er1a< **"How many times**?"

____	1 – 97
98	Unknown
99	Refused

>ProgNote12b3c< *[Programming note: IF >any_ther1< = 1 go to* ***>ther1<****, ELSE go to* ***>ProgNote12b3d<****]*

>ther1< **"**Did >Title< have any form of **therapy**, including physical or occupational therapy, speech therapy and audiology?"

1 Yes
3 No (go to ***>ProgNote12b3d<***)
8 Unknown (go to ***>ProgNote12b3d<***)
9 Refused (go to ***>ProgNote12b3d<***)

>ther1a<"How many times?"

____	1 – 97
98	Unknown
99	Refused

>ProgNote12b3d< *[Programming note: IF >any_hcp1< = 1 go to* ***>hcp1<****, ELSE go to* ***>barriers<****]*

>hcp1< **"**Did >Title< visit a doctor or other health care provider or receive a health care treatment? (Do not include overnight hospital stays, emergency room visits or therapy visits.)"

1 Yes
3 No (go to ***>barriers<***)
8 Unknown (go to ***>barriers<***)
9 Refused (go to ***>barriers<***)

>hcp1a< **"How many times**?"

____	1 – 97
98	Unknown
99	Refused

>barriers< **"**At any time, from July 1, 2006 through December 31, 2006, >was_were< >Title< unable to get medical care, tests, or treatments that >he_she< or a doctor believed to be necessary?"

Specify: _____

>ProgNote13< *[Programming note:*
>hcevents< = 0
*IF (**>hosp1<** = 1) >**hcevents<** = **>hosp1a<***
*IF (**>er1<** = 1 AND **>er1a<** > >**hcevents<**) >**hcevents<** = **>er1a<***
*IF (**>hcp1<** = 1 AND **>hcp1a<** > >**hcevents<**) >**hcevents<** = **>hcp1a<**]*

>next_member< "Now, let's talk about the next member of your household."

1 *go to **>ProgNote3<***

Child Health Care Section

>chProgNote0< *[Programming Note: If >any_hc< = 1go to **>i_next_member<**, ELSE go to **>oper_intro<**]*

>i_next_member< *[Programming Note: The program loops through the study subjects , for >noinfarm< = 1 to >totinfarm<; Then go to **>oper_intro<**. Identifiers carried forward for each member from the Household Log are* >Title<, >he_she<, >Your_name's<, hcevents, >hosp1a<, >er1a<and >hosp1a<*]*

>ch_ProgNote1< *[Programming Note: IF >hcevents< = 0 go to >i_next_member< ELSE go to **>ch_ProgNote2<**]*

>ch_ProgNote2< *[Programming Note: IF **>hosp1a<** = 0 go to **>ch_ProgNote4<** ELSE go to **>hosp_intro<**]*

>hosp_intro< **"**Now I'm going to ask some specific questions about the >hosp1a< hospitalization(s) >Title< had from **July 1, 2006 through December 31, 2006**."

1 Continue

>ch_ProgNote3< *[Programming Note: The program loops through the hospitalizations **>hosp2<** to **>hosp8<**, for **>cnt<** = 1 to **>hosp1a<**; Then go to **>ch_ProgNote4<**]*

>hosp2< **"How many nights** did >Title< stay in the hospital during hospitalization #>cnt<?"

0 Less than 1 full night
____ 1 – 184 nights
998 Unknown
999 Refused

>hosp3< **"**Did that hospital stay begin with a **visit to an emergency room?**" *(See above: Yes/No/Unknown/Refused)*

>hosp4< **"**Was the hospital stay related to an illness, injury or health condition **associated with your farming or ranching operation**?"

1 Yes
3 No
8 Unknown
9 Refused

>hosp5(4)< **"**What illnesses, injuries or health conditions were discovered or led >Title< to enter the hospital?" *[Enumerator: PROBE for any other conditions and enter up to 4.]*

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

>hosp6< **"**Which of the following **best** describes the reason >he_she< entered the hospital?"

1 Operation or surgical procedure
2 Treatment or therapy, not including surgery
3 Diagnostic tests only
4 Other (specify)
8 Unknown
9 Refused

>ProgNote12c< *[Programming Note: IF >hosp6< = 4 go to* ***>hosp6_spec<*** *ELSE go to* ***>ProgNote12b<****]*

>hosp6_spec< **"**Please specify - Other"

_____

>ProgNote12d< *[Programming Note: IF any of the codes entered in >hosp< = 1 go to* ***>hosp8<*** *ELSE go to* ***>hosp7<****]*

>hosp7< **"**Were any **operations or surgical procedures** performed on >Title< during that hospital stay?"

1 Yes
3 No (go to next hospitalization **>ch_ProgNote3<**)
8 Unknown (go to next hospitalization **>ch_ProgNote3<**)
9 Refused (go to next hospitalization **>ch_ProgNote3<**)

>hosp8(4)< **"**Please describe the **operations or surgical procedures.**" *[Enumerator: PROBE for any other operations or surgical procedures and enter up to 4.]*

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

(go to next hospitalization **>ch_ProgNote3<**)

>ch_ProgNote4< *[Programming Note: IF* ***>er1a<*** *= 0 go to* ***>ch_ProgNote6<*** *ELSE go to* ***>er_intro<****]*

>er_intro< **"**Now I'm going to ask some specific questions about the >er1a< emergency department visit(s) >Title< had from **July 1, 2006 through December 31, 2006**."

1 Continue

>ch_ProgNote5< *[Programming Note: The program loops through the emergency department visits **>er2<** to **>er6<**, for **>cnt<** = 1 to **>er1a<**; Then go to **>ch_ProgNote6<**]*

>er2a< **"**Was emergency department visit #>cnt< related to an illness, injury or health condition **associated with your farming or ranching operation**?"

1 Yes
3 No
8 Unknown
9 Refused

>er2< **"**Was that visit related to any **specific illness, accident or injury, or physical or mental health condition,** or were any conditions discovered during that visit?"

1 Yes
3 No (go to ***>er4<***)
8 Unknown (go to ***>er4<***)
9 Refused (go to ***>er4<***)

>er3(4)< **"**What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?" *[Enumerator: PROBE for any other conditions and enter up to 4.]*

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

>er4(5)< **"**Which of these **services**, if any, did >Title< have during that visit?" *[Enumerator: Read list and enter all that apply. Do not record surgical procedures here.]*

1 Laboratory tests
2 X-rays
3 MRI, CATSCAN, Sonogram or ultrasound
4 Other diagnostic test(s) (specify)
5 Other treatment (specify)
0 No services received
8 Unknown
9 Refused

>ProgNote12e< *[Programming Note: IF any of the codes entered in >er4< = 4 go to **>er4_spec4<** ELSE go to **>ProgNote12e2<**]*

>er4_spec4< **"**Please specify – Other diagnostic test(s)" _____
*(go to **>ProgNote12e2<**)*

>ProgNote12e2< *[Programming Note: IF any of the codes entered in >er4< = 5 go to **>er4_spec5<** ELSE go to **>er5<**]*

>er4_spec5< **"**Please specify – Other treatment"
_____*(go to **>er5<**)*

>er5< **"**Was a **surgical procedure performed** on >Title< during the visit?"

1 Yes
3 No (go to next emergency department visit **>ch_ProgNote5<**)
8 Unknown (go to next emergency department visit **>ch_ProgNote5<**)
9 Refused (go to next emergency department visit **>ch_ProgNote5<**)

>er6< **"**Please describe the **surgical procedure.**"

Description: _____

(go to next emergency department visit **>ch_ProgNote5<**)

>ch_ProgNote6< *[Programming Note: IF **>hcp1a<** = 0 go to **>i_next_member<** ELSE go to **>hcp_intro<**]*

>hcp_intro< **"**Now I'm going to ask some specific questions about the >hcp1a< visit(s) >Title< made to doctors and other health care providers from **July 1, 2006 through December 31, 2006**."

1 Continue

>ch_ProgNote7< *[Programming Note: The program loops through the health care provider visits **>hcp5<** to **>hcp9<**, for **>cnt<** = 1 to **>hcp1a<**; Then go to **>i_next_member<**]*

>hcp5(8)< **"**Which category best describes the type of **care** >Title< received during visit #>cnt<?"

1 Well child exam or General check-up *(go to next visit **>ch_ProgNote7<**)*
2 Immunizations or shots *(go to next visit **>ch_ProgNote7<**)*
3 Diagnosis or treatment
4 Follow-up or post-operative visit
5 Other care (specify)
8 Unknown
9 Refused

>ProgNote12i< *[Programming Note: IF >hcp5< = 11 go to **>hcp5_spec<** ELSE go to **>hcp2<**]*

>hcp5_spec< **"**Please specify – Other care
"_____

>hcp2(4)< **"**In which of these places did that visit take place?"

1 Walk-in or Urgent care center
2 Doctor's office or Clinic
3 Free-standing surgical center
4 Some other place (specify)
8 Unknown
9 Refused

>ProgNote12f< *[Programming Note: IF >hcp2< = 4 go to* ***>hcp2_spec<*** *ELSE go to* ***>hcp6<****]*

>hcp2_spec< **"**Please specify – Other place"

_____

>hcp6< **"**Was the visit related to an illness, injury or health condition **associated with your farming or ranching operation**?"

1 Yes
3 No
8 Unknown
9 Refused

>hcp7(4)< **"**What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?" *[Enumerator: PROBE for any other conditions and enter up to 4.]*

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

(go to next visit ***>ch_ProgNote7<)***

>oper_intro< "I just have a few more questions about your household."

1 Continue

>f_ProgNote< *[Programming Note: IF >Number 17< = 1 go to >pcgiver1< ELSE IF >Number17< > 1 go to >pcgiver< ELSE go to >out_of_pocket<]*

>pcgiver1< "Are you >Child17< primary caregiver?"

1 Yes *(go to* ***out_of_pocket<****)*
3 No *(go to* ***out_of_pocket<****)*
8 Unknown *(go to* ***out_of_pocket<****)*
9 Refused *(go to* ***out_of_pocket<****)*

>pcgiver< "Are you the primary caregiver for All children, Some Children or No children **17 years of age or YOUNGER** in your household?"

1 None of them
2 Some of them
3 All of them
8 Unknown
9 Refused

>out_of_pocket< "About how much did your household pay out-of-pocket for medical care in the last 6 months? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one. *[Enumerator: Read list until they stop you.]*

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

>enterpr< "Please estimate your 2006 net household income, after taxes, from all sources. Would it be:" *[Enumerator: Read list of possible answers.]*

1 Less than $15,000
2 $15,000 - $29,999
3 $30,000 - $49,999
4 $50,000 - $99,999
5 $100,000 or more
8 Unknown
9 Refusal

>exp_the_end< *"*Thank you very much for your time today. Your cooperation gives us important information about factors that will help to better understand the experiences of families operating farms and ranches. We will be calling your household again in approximately six months for a shorter follow-up interview. We look forward to speaking with you then. GOOD-BYE."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (6) INTERVIEW COMPLETE*.]*

>b_reconsider1< "May I ask why you prefer not to continue at this time?"

1 Operation too small *(go to **>b_reconsider3<**)*
2 Didn't have any injuries *(go to **>b_reconsider2<**)*
3 Haven't been farming long enough *(go to **>b_reconsider3<**)*
4 Not a convenient time – Too busy (*go to **>callback<***)
5 Personal crisis (*go to **>callback<***)
6 Does not want to cooperate (Doesn't like surveys) – Just not interested *(go to **>b_reconsider3<**)*

>b_reconsider2< "Your participation will be very important in efforts to reduce farming and ranching accidents and injuries for ALL farm families. It is important to include ALL types of operations, whether or not there were any accidents or injuries. This will help in better understanding both farming and ranching activities, and injuries in your region. Would you reconsider participating?"

1 Yes *(go to **>Monitoring<**)*
3 Not a convenient time – Too busy (*go to **>callback<***)
5 No, don't want to participate *(go to **>hh_end1<**)*

>b_reconsider3< "The results of this project will be used to develop effective injury prevention programs that can benefit all farming and ranching households. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. Would you please reconsider?"

1 Yes *(go to **>Monitoring<**)*
3 Not a convenient time – Too busy (*go to **>callback<***)
5 No, don't want to participate *(go to **hh_end1<**)*

>hh_end1< "Thank you very much for your time today. Goodbye."

1 *go to **>hh_exit<***

>hh_exit< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (1) REFUSED TO PARTICIPATE.]*

APPENDIX D

LETTERS AND INFORMATION WORKSHEETS FOR INJURY DATA COLLECTION INTERVIEWS

- **PARTICIPANT LETTERS SENT PRIOR TO THE FIRST AND SECOND SIX-MONTH INJURY INTERVIEWS**

- **INFORMATION CARDS AND WORKSHEETS FOR THE FIRST 6-MONTH INJURY INTERVIEW (ONLY REFERENCE DATES CHANGED FOR THE SECOND SIX-MONTH INTERVIEW)**

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA
- *Susan G. Gerberich, PhD*
  Professor and Principal Investigator and Director Regional Injury Prevention Research Center

MINNESOTA
- *John Shutske, PhD*
  Professor and Extension Agricultural Safety and Health Specialist
  University of Minnesota
- *Douglas A. Hartwig*
  Director, USDA, NASS, Minnesota Field Office

NEBRASKA
- *David L. Morgan, BS/EMT-P*
  Assistant Director, Nebraska Tractor Test Laboratory
  Extension Safety Engineer
  Biological Systems Engineering Department, University of Nebraska-Lincoln
- *Mark Harris*
  Director, USDA, NASS, Nebraska Field Office

NORTH DAKOTA
- *John Nowatzki*
  Extension Agricultural Machine Systems Specialist
  Agricultural and Biosystems Engineering Department
  North Dakota State University
- *David Knopf*
  Director, USDA NASS, North Dakota Field Office

SOUTH DAKOTA
- *Dick Nicolai, PhD*
  Associate Professor and Farm Machinery and Safety Specialist
  South Dakota State University
- *Carter Anderson*
  Director, USDA NASS, South Dakota Field Office

WISCONSIN
- *Mark A. Purschwitz, PhD*
  Research Engineer, Agricultural Safety, National Farm Medicine Center, Marshfield, Wisconsin
- *Robert J. Battaglia*
  Director, USDA NASS, Wisconsin Field Office

Thank you for your willingness to participate in the Regional Rural Injury Study – III and for completing the initial telephone interview about your household members and farming/ranching activities. We look forward to your continued involvement in this important effort.

Within the next few weeks, you will receive a call inviting you to participate in a short follow-up interview. In this interview you will be asked about any injuries (both farming and non-farming related) that members of your household experienced during the first 6 months of 2007. You will also be asked to update some of the household information from the previous interview.

A packet of forms is enclosed to help the interview proceed more quickly and efficiently. Please fill out the information, as appropriate, and keep the forms near your telephone.

All information that you contribute to this project will remain completely confidential. No individual information on you, your household members, or your operation will ever be released. It is very important for all eligible farms to participate, *whether or not any injuries have occurred*.

As you know, every agricultural operation selected for this study can participate in a drawing for a $100 United States Savings Bond. Your household will have at least a 1 in 32 chance to receive a bond.

If you have any further questions about the project, please contact our *Project Director, Andy Ryan*, or me, at **(612) 625-1443 or 1-866-428-1792 (TOLL-FREE)**. If you have any questions or concerns regarding this study and would like to talk to someone other than the researchers, please contact the Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street, Southeast, Minneapolis, Minnesota 55455, (612) 625-1650. Thank you again for your interest in this important effort.

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Professor and Director
Regional Injury Prevention Research Center

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA
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  Mayo Professor and Principal Investigator and Director Regional Injury Prevention Research Center

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  Director, USDA NASS, South Dakota Field Office

WISCONSIN
- *Mark A. Purschwitz, PhD*
  Research Engineer, Agricultural Safety, National Farm Medicine Center, Marshfield, Wisconsin
- *Robert J. Battaglia*
  Director, USDA NASS, Wisconsin Field Office

Thank you for your willingness to participate in the Regional Rural Injury Study – III and for completing the two initial telephone interviews about your household members and farming/ranching activities. We look forward to your continued involvement in this important effort.

Within the next few weeks, you will receive a call inviting you to participate in the second follow-up interview. In this interview you will be asked about any injuries (both farming/ranching- and non-farming/ranching- related) that members of your household experienced during the last six months of 2007. You will also be asked to update some of the household information from the previous interview. If you previously reported any injuries, you will also be asked a few questions to update information about the injured person's current status.

Similar to a previous mailing, a packet of forms is enclosed to help the interview proceed more quickly and efficiently. Please fill out the information, as appropriate, and keep the forms near your telephone for the interview.
All information you contribute to this project will remain completely confidential. No individual information about you, your household members, or your operation will ever be released. It is very important for all eligible farms to participate, *whether or not any injuries occurred*.

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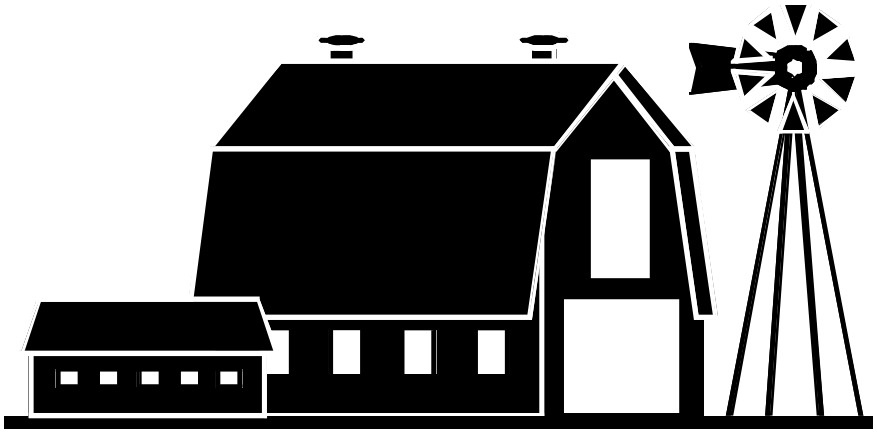
Sincerely,

Susan Goodwin Gerberich, Ph.D.
Mayo Professor and Director
Regional Injury Prevention Research Center

Regional Rural Injury Study III

A PROJECT TO REDUCE INJURIES AND THEIR CONSEQUENCES AMONG FARM AND RANCH HOUSEHOLD MEMBERS



Collaboration between the University of Minnesota and the USDA National Agricultural Statistics Service

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REGIONAL RURAL INJURY STUDY-III

INTERVIEW INFORMATION FORMS

The following color-coded forms are designed to make the telephone interview, that will be conducted sometime after July 15th, 2007, go as quickly and smoothly as possible. Please take some time to go through these forms with the members of your household before the interview. Where possible, fill in any information that is noted on the colored forms.

The sequence and type of information that will be requested includes:

1. General Farm/Ranch Operation

You will be asked to update information about your farming/ranching operation for the 6-month period between January 1st and June 30th, 2007.

2. Household Members

You will be asked a short series of questions about the people living in your household, to update their information for the 6-month period between January 1st and June 30th, 2007. For this portion of the interview you will be asked to refer to the ***gold-colored form*** **(Household Members)** in your packet to assist in answering these questions. *It would be helpful to fill this one out ahead of time.*

3. Injuries/Accidents

You will be asked about any injuries/accidents that occurred to *any members* of your household between January 1st and June 30th, 2007. (A calendar is provided *at the back* of this packet for your reference.) These include injuries/accidents resulting from farming/ranching-related activities. *The injured person could have been directly involved in the activities or simply standing or playing in the area.* You will also be asked about injuries/accidents resulting from activities not related to your farming/ranching operation. The following forms from your packet will assist you in answering these questions:

- **Light blue form**: Injury Definition/Examples and Sources of Injuries
- **Beige forms**: Types of Injuries/Persistent Problems
- **Light green form**: Location of Injury/Body parts affected
- **Rose forms**: List of Persons Injured — *It would be helpful to fill this one out ahead of time.*

For any injuries reported you will be asked about the type of medical care or treatment that was received as a result of the injury.

PLEASE KEEP THESE FORMS NEXT TO YOUR TELEPHONE SO THAT YOU CAN USE THEM WHEN THE INTERVIEWER CALLS.

Thank you!

INJURY DEFINITION

In this project, **any of the following** that occurred between **January 1st and June 30th, 2007** will be included as an injury/accident:

- Any injury/accident restricting normal activities for at least four hours.
- Loss of consciousness, confusion, or memory loss for any length of time (for example, due to a blow to the head or being overcome by fumes).
- Any injury/accident for which professional care was sought (for example, seeing a doctor, nurse, chiropractor, dentist or other healthcare professional).

All injuries/accidents that fit any part of the injury definition above are to be included. This includes both 1) *farming/ranching operation activity-related injuries/accidents* as well as 2) *injuries/accidents that were related to any other types of non-farming/ranching related activities*. These injuries/accidents could have been minor, serious, or fatal.

Some Examples of Injuries and Sources of the Injuries:

- A brain injury or loss of consciousness resulting from a fall
- A broken arm from working with machinery
- An animal bite or kick
- A brief loss of consciousness after breathing a toxic gas such as silo gas or manure pit gas
- A burn or blister due to heat or chemical contact
- Abdominal injuries resulting from a motor vehicle crash
- A leg fracture from a sports or recreational activity
- Strained/pulled back from lifting, twisting, etc.
- Cut/laceration from working with a tool
- Bruise/contusion from falling item or being struck by/against equipment or an animal

— LIGHT BLUE —

TYPES OF INJURIES/PERSISTENT PROBLEMS

During the telephone interview, you will be asked about the *type of injury* for each part of the body that was injured, according to the injury definition. You will also be asked about *persistent problems or symptoms* resulting from the injuries. The following list may help in describing these injuries.

Using the information, below, please record the *type of injury* for farm/ranch household members injured *either on or off the farm/ranch* in a *farming/ranching operation-related injury/accident or in any other type of injury/accident* **between January 1st and June 30th, 2007**. Also, identify any persistent problems or symptoms. Please use the ***rose-colored*** forms for this purpose and have them on hand for the interview.

TERM	**DESCRIPTION**
Scrape/Abrasion/Scratch	Removal of skin, or portion of skin
Bruise/Contusion	Discoloration of the skin or other soft tissue due to blood clotting within the soft tissue
Burn/Blister/Scald	Lesion/wound of the skin due to heat or chemical exposure
Sprain/Strain/ Torn Ligament	Injury to the soft tissue of a joint/muscle or tissue connecting cartilage or organs
Cut/Laceration	Tearing of soft tissue/skin
Puncture/Stab/Jab	Wound made by a piercing instrument
Broken Bone/Fracture	Break of bone or cartilage
Dislocation	Disturbance of the normal relation of a bone and joint
Traumatic Rupture	Tearing or bursting of internal organ tissue due to physical force
Crushed/Mangled	Severe and multiple injuries due to being caught in, under, or between objects
Loss of Body Part/Amputation	Loss of a limb or other body part
Nerve Injury	Injury to a nerve, which may result in numbness, tingling, or weakness of a portion of the body

CONTINUED ON NEXT PAGE

TYPES OF INJURIES/PERSISTENT PROBLEMS - Continued

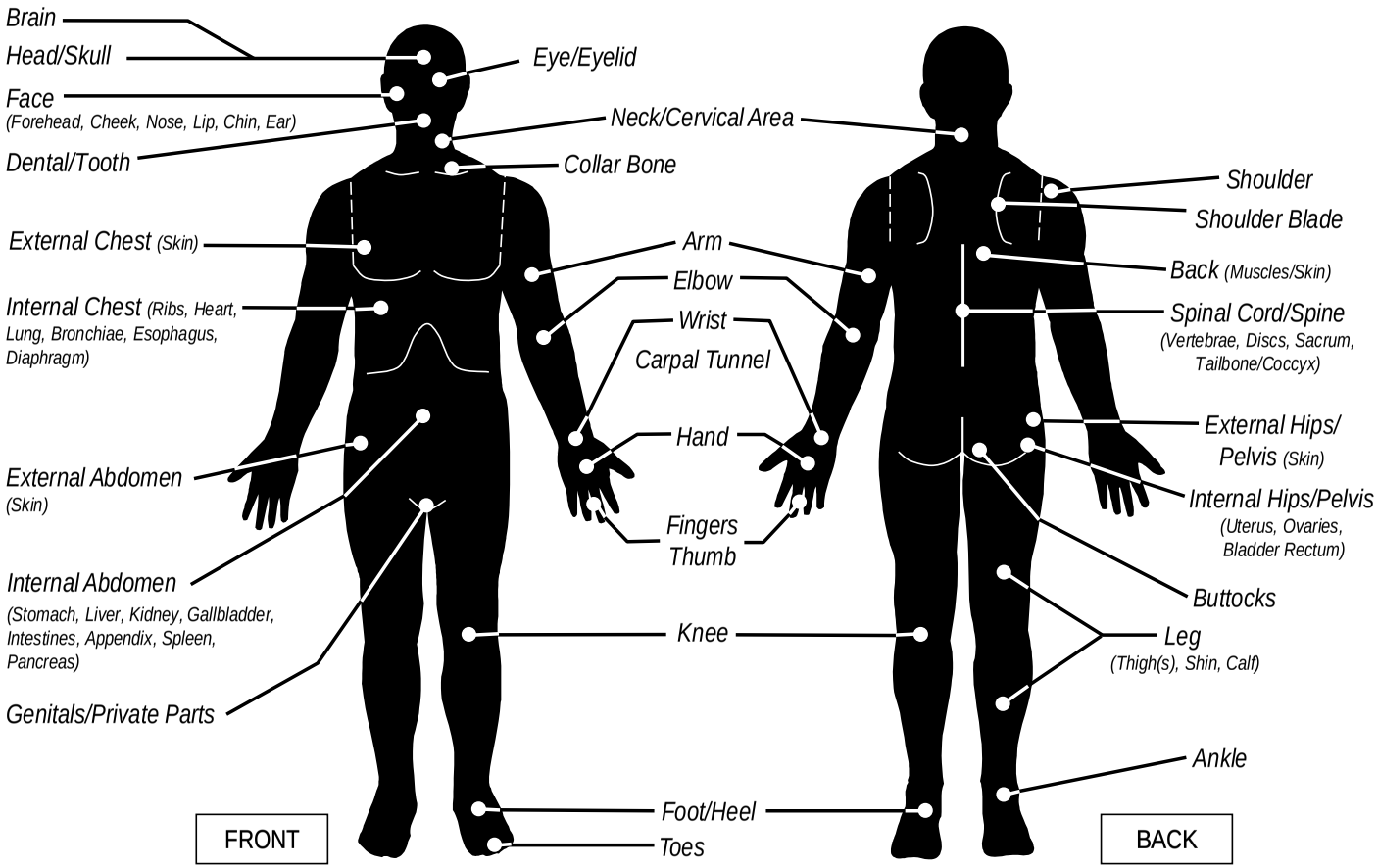
TERM	DESCRIPTION
Poisoning	Swallowing a poisonous or toxic substance or skin/eye contact with substance
Concussion/Loss of Consciousness/ Confusion or Memory Loss	Injury involving loss of consciousness for any length of time due to a blow to the head or neck or from inhalation of toxic fumes
Suffocation/Choking	Suffocation or choking as a result of something caught in the throat or as a result of a blow to the throat or strangulation
Drowning or Near Drowning	Fatal or non-fatal injury resulting from immersion in liquid, solid, or granular substances that interferes with breathing
Paralysis	Any type of paralysis (temporary or permanent) or inability to move a body part or parts
Pain	*Other* discomfort or pain at any site in the body as a result of an injury event

PERSISTENT PROBLEMS OR SYMPTOMS RESULTING FROM INJURIES

Continued problems or symptoms following the injury event may include the following:

- Pain
- Numbness or tingling
- Persistent or recurrent headache
- Paralysis
- Loss of a body part
- Weakness/fatigue
- Decreased range of motion
- Impaired vision, speech, or hearing
- Dizziness
- Reduced ability to concentrate or do physical work
- Epilepsy
- Convulsions/seizures

The following diagrams may be of assistance in describing the exact location(s) of each injury that we discuss during the interview.



Includes internal and external injuries

- LIGHT GREEN -

PERSONS INJURED

At the time of the telephone interview, it will be helpful if the information below is available for **all members of your household** who were injured between **January 1st and June 30th, 2007. Please include injuries/accidents <u>related to farming/ranching operation-related activities</u> and injuries/accidents <u>related to any other types of activities</u>. The injured person could have been directly involved in the activities or simply standing or playing in the area.**

Name	**Date of Injury**	**Where Injury Happened**	**How Injury Happened**	**Source of Injury** (such as Animals, Tractors, Large Machinery, Small Power/Hand Tools, Chemicals, Sports, Housework, Falls, Motor Vehicles)	**Body Part Injured** (See figure– **Light Green** Form)	**Type of Injury** (See **Beige** Forms)	**Current Persistent Problems /Symptoms** (See **Beige** Forms)	**Length of Restriction of Normal Activity** (Hours, Days, Months)

Continue to next page, as necessary

HOUSEHOLD MEMBERS

In part of the interview, we will ask some general questions about each person who was a member of your household as of January 1st, 2007**.** [*This includes persons who moved or died after January 1st; it includes students away at college or children who reside in multiple households, including yours, etc*.] Please provide the following information on those household members:

Please Identify All Household Members Name:	January 1st, 2007 – June 30th, 2007						
	What types* of medical insurance did he/she have? (See categories below table and insert number(s) here)	Work/Chores Related To Your Operation			Work/Chores Related To Other Work Activities		
		Number of Months Worked (0 – 6)	Average Number of Weeks Worked per Month	Average Number of Hours Worked per Week	Number of Months Worked (0 – 6)	Average Number of Weeks Worked per Month	Average Number of Hours Worked per Week
Example: Joe	*2*	*5*	*4*	*35*	*3*	*2*	*10*

*Type of medical insurance

1. A medical plan purchased by your **own operation.**
2. A medical plan purchased by your **household.**
3. A medical plan provided by an employer.
4. Medicare with supplemental policy.
5. Medicare without supplemental policy.
6. A Medicare HMO
7. Medicaid or State equivalent
8. Something else – *Describe*

Continue to next page, as necessary

January 2007						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February 2007						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

March 2007						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April 2007						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May 2007						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June 2007						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

APPENDIX E

INJURY INTERVIEWS
DATA COLLECTION INSTRUMENTS
PROGRAMMED INTO CATI SYSTEM

- **FIRST SIX-MONTH INJURY INTERVIEW**
- **SECOND SIX-MONTH INJURY INTERVIEW**

FIRST SIX-MONTH INJURY INTERVIEW
(January 1 through June 30, 2007)

Administered by specially trained interviewers, using a Computer-Assisted Telephone Interview (CATI)

1st 6 MO. INTERVIEW CALLBACKS BEGIN HERE
-- Script Before Entering CATI Program –

Initial Programming Note: The following variables are brought forward from the Baseline Interview:

>Respondent< (Name of Baseline Interview respondent)
>WhoIsResp< (Male or Female head of household code from Baseline Interview)
>totinfarm< (Total number of people in household)

The following household roster items are brought forward from the Baseline Interview:

>first_name< (Subject's first name)
>last_name< (Subject's last name)
>self_relat< (Relationship to Baseline Interview respondent)
>gender< (Subject's gender)
>dob< (Subject's date of birth)
>age< (Subject's age as of 01/01/2007)
>totinfarm< (# of subjects in household as of 01/01/2007)
>lt20< (Subject <20 as of 01/01/2007?)
>lt18< (Subject <18 as of 01/01/2007?)

Dial number from call screen prepared by the USDA National Agricultural Statistics Service (NASS).

When someone answers the phone –

Ask:
>Intro1< ***"Hello, is this the _____ residence?"***

1 Yes (go to ***>select_resp1<***)
3 No (go to ***>verify_address<***)

>select_resp1< ***"May I please speak with >Respondent<?"***

1 Requested Respondent comes to the phone (*go to* ***>Cur_Resp<***)

2 Requested Respondent is currently unavailable [Enumerator: schedule a call back to the original respondent]

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>get_new_resp<****)*

>get_new_resp< [*Programming Note: If* ***>WhoIsResp< = 3*** *(male head of household) go to* ***>select_resp2<****, Else go to* ***>select_resp3<***]

>select_resp2< ***"Then, may I please speak to the female head of household?"***

1 Female head of household comes to the phone (*go to* ***>Cur_Resp<***)

2 Female head of household is currently unavailable [Enumerator: *schedule a call back to the female head of household*]

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>select_resp4<****)*

>select_resp3< ***"Then, may I please speak to the male head of household?"***

1 Male head of household comes to the phone (*go to* ***>Cur_Resp<***)

2 Male head of household is currently unavailable [Enumerator: *schedule a call back to the male head of household]*

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>select_resp4<****)*

>select_resp4< ***"Is there another adult household member I may speak with?"***

1 Other adult respondent comes to the phone (*go to* ***>Cur_Resp<***)

3 No other adult household member is available *(go to* ***>hh_end1<****)*

-- When an appropriate respondent (female or male head of household) has come to the phone begin the CATI interview --

---

>Cur_Resp< *[Enumerator: Who is the current respondent?]*

1 Female head of household
3 Male head of household

>Who_Pi< "LAST INTERVIEW RESPONDENT: >Respondent<. *Who is the current respondent? Enter name"*

>same_resp< *[Enumerator: Is this the same person as the Baseline Interview respondent?*
Current Respondent is: ***>Who_Pi<***
Last Respondent was ***>Respondent<]***
1 Yes
3 No
9 Unknown

>int_ProgNote< *[Programming Note:*
If >same_resp< = 1
>Who_Pi2< *= "you"*
>he_she1< *= "you"*
Else
>Who_Pi2< *=* ***>Respondent<***
If (>WhoIsResp< = 1)
>he_she1< *= "she"*
Else
>he_she1< *= "he"*
End If
End If]

>Intro< "Hello, this is >EnumName< calling for the >StateName< Agricultural Statistics Service. I am calling to conduct the second interview for the project we are conducting with the University of Minnesota about farming and ranching activities and injuries. As you know, your household is a participant in this project and the results from the project will be used to develop injury prevention programs that can benefit all households. You are still eligible for the drawing for a $100 U.S. Savings Bond (Series EE) that we told you about in the letter and during the previous interview.

We would like to conduct the interview now, to obtain updated information about members of your household, your farming or ranching activities, and any injuries that may have occurred in the first six months of 2007. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer that question, and we will move on to the next question. Is this a convenient time?

2 Yes *(go to* ***>monitoring<****)*
4 No, not a convenient time *(go to* ***>call_you<****)*
10 Refusal *(go to* ***>reconsider1<****)*

>Monitoring< "For quality control purposes, my supervisor may monitor this call."

1 *Continue*

>cards< "We recently mailed you an interview information packet containing two letters and a set of colored forms. It would be helpful if you had the forms in front of you as we speak. Do you have them available?"

1 Yes *(go to **>b_enterpr0<**)*
3 No *(go to **>getcards<**)*

>getcards< "Can you get the forms?"

1 Yes *(go to **>b_enterpr0<**)*
3 No *(go to **>proceed<**)*

>proceed< "We can proceed with the interview anyway. May we continue?"

1 Yes *(go to **>b_enterpr0<**)*
3 No (*go to **>call_you<***)

>b_enterpr0< **"**In which of these farming or ranching enterprises was your operation engaged **between January 1st and June 30th, 2007**? Please wait until I finish reading the entire list, then tell me all that apply." *[Enumerator: READ the list and enter the first three REPORTED]*

1 Beef cattle
2 Dairy cattle
3 Poultry
4 Swine
5 Sheep
6 Other animals (example: horses, etc.)
7 Crops (Field, forage or specialty crops)
8 CRP (Conservation Reserve Program) or Set-aside program
9 Other (specify)
98 Unknown ***>b_acres<**)*
99 Refused ***>b_acres<**)*

>ProgNote1< *[Programming note: If any of the codes entered in **>b_enterpr0<** is 9 go to **>b_enterpr0_spec<**, ELSEIF only 1 code is entered go to **>b_acres<**, ELSE go to **>b_enterpr1<**]*

>b_enterpr0_spec<"Please specify the other enterprise" _____

>b_enterpr1< "Which ONE of those enterprises required the MOST amount of WORK TIME?"

1 Beef cattle *(go to **>b_acres<**)*
2 Dairy cattle *(go to **>b_acres<**)*
3 Poultry *(go to **>b_acres<**)*
4 Swine *(go to **>b_acres<**)*
5 Sheep *(go to **>b_acres<**)*
6 Other animals (example: horses, etc.) *(go to **>b_acres<**)*
7 Crops (Field, forage or specialty crops) *(go to **>b_acres<**)*
8 CRP (Conservation Reserve Program) or Set-aside program *(go to **>b_acres<**)*
9 Other (specify) (go to **>b_enterpr_spec<**)
98 Unknown *(go to **>b_acres<**)*
99 Refused *(go to **>b_acres<**)*

>b_enterpr_spec< "Please specify the other enterprise" _____

>b_acres< "**During that time**, of the acres that you own, plus the acres that you rent or lease from someone else, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs." *[Enumerator: Zero is allowed. If 1 acre or less, enter 1. Acceptable answers = 0 – 75,000; Unknown = 99998; Refusal = 99999]*

0	None
1	1 or less
___	2 – 75,000
99998	Unknown
99999	Refused

>hh_ProgNote2< *[Programming Note: If >proceed< = 1 (go to **>hh_log<**); Else (go to **>get_gold<**)]*

>get_gold< "The next set of questions is about the people who were identified as members of your household AS OF JANUARY 1, 2007. This includes those living in your household now, and anyone who may have moved out or passed away since January 1, students away at college, and children who reside in multiple households, including yours.

For these questions it will be helpful for you to have the **gold form** from the packet in front of you. Do you have the **gold form**?" *[Enumerator: Wait for the respondent to get the **gold form** or say that it is not available.]*

1 *Continue*

>hh_log< "Now I will ask some basic questions about each member of your household."

1 *Continue*

>hh_ProgNote3< *[Programming Note: The program loops through the subjects in the household from j = 1 thru >totinfarm<,*

>hh_ProgNote3a< *[Programming Note:*

If (>same_resp< = 1)
*>**b_self_relat**< = >**self_relat**<*
*go to **>hh_ProgNote3b<***
Else
*go to **>b_self_relat<***
ENDIF

>b_self_relat< "What is ">first_name<"'s relationship TO YOU?"

1 Self (respondent)
2 Spouse / Life partner
3 Child (son/daughter: includes step-children <u>of respondent</u>)
4 Sibling (includes half & step-brothers & sisters)
5 Parent (respondent's parent)
6 Other family
7 Non-family
8 Unknown
9 Refused

>hh_ProgNote3b< *[Programming Note:*

***>Was_is<** = "is"*
***>Was_were<** = "was"*
>aget< = 999
>b_lt20< = >lt20<
>b_lt18< = >lt18<
*If (**>b_self_relat<** = 1))*
* **>Your_name's<** = "your"*
* **>Title<** = "you"*
* **>Was_were<** = "were"*
* **>hh_moved<** = 1 (Yes)*
* **>he_she<** = "you"*
* **>him_her<** = "you"*
* **>his_her<** = "your"*
* **>CHas_Have<** = "Have"*
* **>has_have<** = "have"*
* **Go to >hh_ProgNote4<***
Else
* **>Your_name's<** = "**>first_name<**'s"*
* **>Title<** = **>first_name<***
* **>CHas_Have<** = "Has"*
* **>has_have<** = "has"*
* If (**>gender<** = 1)*
*   **>he_she<** = "he"*
*   **>him_her<** = "him"*
*   **>his_her<** = "his"*
* Else if (**>gender<** = 3)*
*   **>he_she<** = "she"*
*   **>him_her<** = "her"*
*   **>his_her<** = "her"*
* Else*
*   **>he_she<** = "they"*
*   **>him_her<** = "them"*
*   **>his_her<** = "their"*
* End if*

Endif]

>hh_moved< "Did >first_name< live in your household as of June 30, 2007?" *[People on vacation on June 30, 2007 are considered to be living in the household.]*

1 Yes (*go to* ***>hh_ProgNote4<***)
3 No (*go to* ***>hh_other<***)

>hh_other< "Did **>first_name<** move or pass away between January 1 and June 30, 2007?

1 Moved– includes those who left for school or to live in another household, whether temporarily or permanently
2 Passed away
3 Not living in Household at any time during this 6 months *(go to* ***>hh_ProgNote4<****)*

>month_left< "In what month did this occur?" ____

>day_left< "On what day of the month?" *[Enumerator: Valid dates are 1 to 31. Unknown = 98; Refused = 99]* ____

>hh_ProgNote4< *[Programming Note:*

If ***>dob<*** *missing*
go to ***>b_dob<***
Else
>b_dob< = ***>dob<***
>b_age< = ***>age<***
>aget< = trunc((({Today's date} - >dobn<])/365.25),0)
If (>b_age< <20)
>b_lt20< = 1
Else
>b_lt20< = 3
Endif
If(>aget< < 18)
>b_lt18< = 1
Else
>b_lt18< = 3
Endif
go to ***>hh_ProgNote6b<***
Endif]

>b_dob< "What >was_is< >Your_name's< birthdate? (MM/DD/YYYY)"
[Enumerator: For Don't Know, press F5. For Refusal press F6.]

___/___/_____

>hh_ProgNote4a< *[Programming note:*

If ***(>b_dob<*** *unknown or refused)*
If(>age< *missing)*

go to ***>b_age<***
Else
>b_age< = ***>age<***
>aget< = ***>age<***
Endif
Else
>b_age< = trunc((({01/01/2007} - >dobn<])/365.25),0)
>aget< = trunc((({Today's date} - >dobn<])/365.25),0)
Endif
If (>b_age< <20)
>b_lt20< = 1
Else
>b_lt20< = 3
Endif
If(>aget< < 18)
>b_lt18< = 1
Else
>b_lt18< = 3
Endif
go to ***>hh_ProgNote6b<]***

>b_age< "What was >his_her< age on January 1, 2007?" *[Enumerator: For Don't Know, press F5. For Refusal, press F6.]*

____ 0-110 Years
F5 Unknown (go to ***>b_lt20<***)
F6 Refused (go to ***>b_lt20<***)

>hh_ProgNote6a< [Programming Note:

>aget< = >b_age<

If (>b_age< <20)
>b_lt20< = 1
Else
>b_lt20< = 3
Endif
If(>aget< < 18)
>b_lt18< = 1
Else
>b_lt18< = 3
Endif
go to ***>hh_ProgNote6b<]***

>b_lt20< ">Was_were< >Title< less than 20 years of age on January 1, 2007?"

1 Yes
3 No
8 Unknown
9 Refused

>hh_ProgNote6b< [Programming Note: Don't collect further information on individuals who were not in residence during the 6 mo. period.

If (>hh_other< = 3)
go to ***>hh_next_member<***

Else

*If (****>b_lt20<*** *= 1 or* ***>b_lt20<*** *= 8 or* ***>b_lt20<*** *= 9) go to* ***>b_lt18<*** *ELSE go to* ***>hh_ProgNote6b2<****)*

>b_lt18< ">Was_were< >he_she< less than 18 years of age on **July 1, 2007**?"

1 Yes (go to ***>hh_ProgNote6b2<****)*
3 No (go to ***>hh_ProgNote6c<****)*
8 Unknown (go to ***>hh_ProgNote6b2<****)*
9 Refused (go to ***>hh_ProgNote6b2<****)*

>hh_ProgNote6b2< If (**>b_self_relatn<** = 1 and (**>aget<** < 18 or **>b_lt18<** eq 1 or **>b_lt18<** = 8 or **>b_lt18<** = 9)) print the following error message and schedule a callback to an adult. Error message:

"Warning – According to the relationship and birthdate/age information you have entered, the person you are interviewing may be too young! Please correct this information if it is in error, or explain that we cannot interview individuals who were under 18 years of age (as of July 1st) without prior parental permission and schedule a callback." *(go to* ***>dobn<****)*

End if

>hh_ProgNote6c< [Programming Note: Don't collect information on individuals born after January 1st, 2007: If >b_age< < 0 (born in 2007), verify **>dobn<**, then **>hh_next_member<**, Else. go to **>hh_ProgNote6d<**.]

>hh_ProgNote6d< [Programming Note: If >hh_moved< = 3 go to **>leadin<**, Else. go to **>insurance<**.]

>leadin< "I'd like to ask you some questions about >first_name< even though >he_she< was not living with you as of June 30th."

1 *Continue*

>b_insurance< ">Was_were< >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from January 1, 2007 through June 30, 2007?"

2 Yes, all of that time *(go to* ***>type_ins<****)*
4 Yes, part of that time *(go to* ***>mo_ins<****)*
6 No, none of that time *(go to* ***>b_intro_work<****)*

10 Unknown *(go to **>b_intro_work<**)*
11 Refused *(go to **>b_intro_work<**)*

>b_mo_ins< "During that period, for how many months DID >Title< have health care coverage?"

2 None
3 1 or less
___ 2 – 6 months
10 Unknown
11 Refused

>b_type_ins< "Please tell me ALL of the following types under which >Title< >was_were< covered?" *[Enumerator: Read list and enter ALL that apply. Also, if **>Title<** is covered by insurance carried by a parent not living in this household, please classify it using the options below.]*

9 A medical plan purchased by your **own operation**
10 A medical plan purchased by your **household** (this includes COBRA coverage)
11 A medical plan provided by an employer, with or without an employee copay (this includes military insurance) [*Enumerator: This doesn't have to be the individual's employer. It could the employer of any parent or guardian, even a non-custodial parent or guardian.*]
12 Medicare with a supplimental policy
13 Medicare without a supplimental policy
14 A Medicare HMO
15 Medicaid, Medical Assistance or any other state or federally subsidized medical plan, such as ***>program<***
16 Something else
98 Unknown
99 Refused

>hh_ProgNote9< *[Programming note: If any of the codes entered in >type_ins< is 8, go to **>b_type_ins_specify<**; else go to **>b_intro_work<**]*

>b_type_ins_specify< "Please specify the other insurance."

_____

>b_intro_work< "Between **January 1st, 2007 and June 30th, 2007**, how many months did >Title< work or do chores in any activity related to your farming or ranching operation?"

0 None *(go to **>hh_ProgNote10<**)*
___ 1 – 6 months
8 Unknown *(go to **>hh_ProgNote10<**)*
9 Refused *(go to **>hh_ProgNote10<**)*

>b_wk_f_1< *"During that time, in an average working month how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?" [Enumerator: For whole month enter 4 weeks. Acceptable answers are: 0 to 4. Unknown = 8. Refusal = 9.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>b_hrs_f_1< *"For those weeks, on average, how many HOURS PER WEEK?" [Enumerator: Acceptable answers are: 0 - 130. Unknown = 998. Refusal = 999.]*

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>hh_ProgNote10< *[Programming note: If **>b_age<** < 12 go to **>hh_ProgNote11<**]*

>b_intro_nf_work< "Between **January 1st 2007 and June 30th 2007**, how many months did ***>Title<*** do any paid work that was not related to your own operation?" *[Enumerator: This can include regular full or part-time jobs, as well as babysitting, lawnmowing, newspaper delivery, work on other farms, etc.]*

0 None *(go to **>hh_ProgNote11<**)*
___ 1 – 6 months
8 Unknown *(go to **>hh_ProgNote11<**)*
9 Refused *(go to **>hh_ProgNote11<**)*

>b_type_nf_work< "During that time, what was >Your_name's< <u>primary</u> job or occupation?"

Specify: _____

>b_wks_nf_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks. Acceptable answers are: 0 to 4. Unknown = 8. Refusal = 9.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>b_hrs_nf_1< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers are: 0 - 130. Unknown = 998. Refusal = 999.]*

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>hh_ProgNote11< *[Programming note: IF **>b_age<** < 5 go to **>b_hui31<**, ELSE IF **>b_self_relat<** = 1 go to **>b_hui_intro1<**, ELSE IF **>hh_other<** = 1 or 2 go to **>hh_next_member<**, ELSE go to **>b_hui_intro2<**]*

>b_hui_intro1< "The next set of questions asks about various aspects of your health. When answering these questions we would like you to think about your health and your ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 4 weeks ago and recall the major events that you have experienced during this period. Please focus your answers on your abilities, disabilities and how you have felt during the past 4 weeks."

1 *Continue*

>b_hui_intro1a< "You may feel that the questions do not apply to you, but it is important that we ask the same questions of everyone. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about your abilities and feelings."

1 *go to >b_enum1<*

>b_hui_intro2< "The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

1 *Continue*

>b_hui_intro2a< "You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

1 *Continue*

>b_enum1< *[Enumerator: "For each question, read the entire sentence as written, emphasing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection."]*

1 *Continue*

>b_hui1< **"**During the past 4 weeks, >has_have< >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

1 Yes *(go to >**b_hui4**<)*
3 No
8 Don't know
9 Refused

>b_hui2< **"**>CHas_Have< >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

1 Yes *(go to >**b_hui4**<)*
3 No
8 Don't know
9 Refused

>b_hui3< **"**During the past 4 weeks, >has_have< >Title< been able to see at all?"

1 Yes
3 No *(go to **>b_hui6<**)*
8 Don't know
9 Refused

>b_hui4< **"**During the past 4 weeks, >has_have< >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

1 Yes *(go to >**b_hui6**<)*
3 No
8 Don't know
9 Refused

>b_hui5< **"**>CHas_Have< >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

1 Yes *(go to >**b_hui6**<)*
3 No
8 Don't know/Didn't wear glasses or contact lenses
9 Refused

>b_hui6< **"**During the past 4 weeks, >has_have< >Title< been able to hear what is said in a group conversation with at least 3 other people without a hearing aid?"

1 Yes *(go to >**b_hui11**<)*
3 No
8 Don't know
9 Refused

>b_hui7< **"**>CHas_Have< >Title< been able to hear what is said in a group conversation with at least 3 other people with a hearing aid?"

1 Yes ***(go to >b_hui9<)***
3 No
8 Don't know
9 Refused

>b_hui8< **"**During the past 4 weeks, >has_have< >Title< been able to hear at all?"

1 Yes
3 No *(go to >**b_hui11**<)*
8 Don't know
9 Refused

>b_hui9< **"**During the past 4 weeks, >has_have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room without a hearing aid?"

1 Yes *(go to >**b_hui11**<)*
3 No
8 Don't know
9 Refused

>b_hui10< **"**>CHas_Have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room with a hearing aid?"

1 Yes *(go to >**b_hui11**<)*
3 No
8 Don't know/Didn't wear a hearing aid
9 Refused

>b_hui11< **"**During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?"

1 Yes *(go to >**b_hui16**<)*
3 No
8 Don't know
9 Refused

>b_hui12< **"**>CHas_Have< >Title< been able to be understood partially when speaking with people who do not know >Title<?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui13< **"**During the past 4 weeks, >has_have< >Title< been able to be understood <u>completely</u> when speaking with people who know >Title< well?"

1 Yes *(go to >**b_hui16**<)*
3 No
8 Don't know
9 Refused

>b_hui14< **"**>CHas_Have< >Title< been able to be understood <u>partially</u> when speaking with people who know >Title< well?"

1 Yes *(go to >**b_hui16**<)*
3 No
8 Don't know
9 Refused

>b_hui15< **"**During the past 4 weeks, >has_have< >Title< been able to speak at all?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui16< **"**During the past 4 weeks, >has_have< **>Title<** been able to bend, lift, jump and run <u>without difficulty</u> and <u>without help or equipment</u> of any kind?"

1 Yes *(go to >**b_hui24**<)*
3 No
8 Don't know
9 Refused

>b_hui17< **"**>CHas_Have< >Title< been able to walk around the neighborhood <u>without difficulty</u> and <u>without help or equipment</u> of any kind?"

1 Yes *(go to >**b_hui24**<)*
3 No
8 Don't know
9 Refused

>b_hui18< **"**>CHas_Have< >Title< been able to walk around the neighborhood <u>with difficulty</u> but <u>without help or equipment</u> of any kind?"

1 Yes *(go to >**b_hui24**<)*
3 No
8 Don't know
9 Refused

>b_hui19< **"**During the past 4 weeks, >has_have< >Title< been able to walk at all?"

1 Yes
3 No *(go to >**b_hui22**<)*
8 Don't know
9 Refused

>b_hui20< **"**>CHas_Have< >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?" *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

1 Yes
3 No
8 Don't know
9 Refused

>b_hui21< **"**>CHas_Have< >Title< needed the help of another person to walk?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui22< **"**>CHas_Have< >Title< needed a wheelchair to get around the neighborhood?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui23< **"**>CHas_Have< >Title< needed the help of another person to get around in the wheelchair?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui24< **"**During the past 4 weeks, >has_have< >Title< had the <u>full use</u> of both hands and ten fingers?"

1 Yes *(go to >**b_hui28**<)*
3 No
8 Don't know
9 Refused

>b_hui25< **"**>CHas_Have< >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No *(go to >**b_hui27**<)*
8 Don't know
9 Refused

>b_hui26< **"**>CHas_Have< >Title< needed the help of another person with some tasks, most tasks or all tasks?"

1 Some tasks
2 Most tasks
3 All tasks
8 Don't know
9 Refused

>b_hui27< **"**>CHas_Have< >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui28< **"**During the past 4 weeks, >has_have< **>Title<** been able to eat, bathe, dress and use the toilet without difficulty?"

1 Yes *(go to >**b_hui31**<)*
3 No
8 Don't know
9 Refused

>b_hui29< **"**>CHas_Have< >Title< needed the help of another person to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui30< **"**>CHas_Have< >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui31< **"**During the past 4 weeks, >has_have< >Title< been feeling happy or unhappy?"

1 Happy
2 Unhappy *(go to **>hh_ProgNote11b**<)*
8 Don't know
9 Refused

>hh_ProgNote11a< *[Programming note: IF* ***>b_self_relat<*** *= 1 go to* ***>b_hui32a<****, ELSE go to* ***>b_hui32b<****]*

>b_hui32a< "Would you describe yourself as having felt: ***>hh_ProgNote11c<***
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to >**b_hui34**<)*
2 b) somewhat happy *(go to >**b_hui34**<)*
8 Don't know *(go to >**b_hui34**<)*
9 Refused *(go to >**b_hui34**<)*

>b_hui32b< "Would you describe >Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to **>hh_ProgNote11c<**)*
2 b) somewhat happy *(go to **>hh_ProgNote11c<**)*
8 Don't know *(go to **>hh_ProgNote11c<**)*
9 Refused *(go to **>hh_ProgNote11c<**)*

>hh_ProgNote11b< *[Programming note: IF* ***>b_self_relat<*** *= 1 go to* ***>b_hui33a<****, ELSE go to* ***>b_hui33b<****]*

>b_hui33a< "Would you describe yourself as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy *(go to >**b_hui34**<)*
2 b) very unhappy *(go to >**b_hui34**<)*
3 c) so unhappy that life was not worthwhile *(go to >**b_hui34**<)*
8 Don't know *(go to >**b_hui34**<)*
9 Refused *(go to >**b_hui34**<)*

>b_hui33b< "Would you describe >Title< as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don't know
9 Refused

>hh_ProgNote11c< *[Programming note: IF* ***>b_age<*** *< 5 go to* ***>b_hui41<****, ELSE go to* ***>b_hui34<****]*

>b_hui34< **"**During the past 4 weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?"

1 Yes
3 No *(go to >**b_hui37**<)*
8 Don't know
9 Refused

>b_hui35< "How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?"

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don't know
9 Refused

>b_hui36< **"**During the past 4 weeks, did >Title< feel <u>extremely</u> fretful, angry, irritable, anxious or depressed; to the point of needing professional help?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui37< **"**How would you describe >Your_name's< ability to remember things, during the past 4 weeks:

a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?"

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don't know
9 Refused

>b_hui38< **"**How would you describe >Your_name's< ability to think and solve day to day problems, during the past 4 weeks:

a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?"

1 a) able to think clearly and solveproblems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don't know
9 Refused

>b_hui39< **"**>CHas_Have< >Title< had any trouble with pain or discomfort, during the past 4 weeks?"

1 Yes
3 No *(go to* >***b_hui41****<)*
8 Don't know
9 Refused

>b_hui40< "How many of >Your_name's< activities, during the past 4 weeks, were limited by pain or discomfort: none, a few, some, most, all?"

1 None
2 A few
3 Some
4 Most
5 All
8 Don't know
9 Refused

>b_hui41< **"**Overall, how would you rate >Your_name's< health during the past 4 weeks:

a) excellent
b) very good
c) good
d) fair
e) poor?"

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don't know
9 Refused

>oth_restrict< "Did any non-injury related events, such as illnesses, that occurred in the six-month period between January 1st and June 30th, 2007, result in restriction of >Your_name's< normal activities? Normal activities are the things a person would ordinarily do on any given day."

1 Yes
3 No *(go to* ***>hh_next_member<****)*
8 Don't know *(go to* ***>hh_next_member<****)*
9 Refused *(go to* ***>hh_next_member<****)*

>o_rest_symp< "At the present time, are there any PERSISTENT problems or symptoms related to these NON-INJURY events, including things such as numbness, pain, weakness, or some type of impairment?"

1 Yes
3 No
8 Unknown
9 Refusal

>hh_next_member< "Now, let's talk about the next member of your household."

1 *go to* ***>hh_ProgNote3<***

>reconsider1< *[Enumerator: If respondent doesn't volunteer a reason for their refusal, ask:* "Would you mind telling me the reason that you prefer not to continue at this time?"*, then enter the appropriate response.]*

1 We didn't (don't have) any injuries *(go to* ***>reconsider2<****)*
2 Operation too small *(go to* ***>reconsider3<****)*
3 Haven't been farming long enough *(go to* ***>reconsider4<****)*
4 Don't like surveys or Just don't want to to do it *(go to* ***>reconsider5<****)*
5 I'm (we're) too busy or Don't have time (*go to* ***>reconsider6<***)
6 Personal crisis (*go to* ***>call_you<***)

>reconsider2< "We are including ALL types of farming and ranching operations, whether or not there were accidents or injuries. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. Would you reconsider participating?"

1 Yes *(go to* ***>monitoring<****)*
3 I'm (we're) too busy or Don't have time (*go to* ***>reconsider6<***)
6 No, don't want to participate *(go to* ***>abbrev1<****)*

>reconsider3< "We are including all sizes of farms and ranches. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to* ***>monitoring<****)*
3 I'm (we're) too busy or Don't have time (*go to* ***>reconsider6<***)

5 No, don't want to participate *(go to **>abbrev1<**)*

>reconsider4< "We are including all operations that were actively farming or ranching as of January 1st, 2007, or had land in a Conservation Reserve Program (CRP)**.** Is this true for your operation?"

1 Yes *(go to **>monitoring<**)*
3 No (*go to **>hh_end1<***)
5 No, don't want to participate *(go to **>abbrev1<**)*

>reconsider5< "This project is very important for the entire agricultural community. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 I'm (we're) too busy or Don't have time (*go to **>reconsider6<***)
5 No, don't want to participate *(go to **>abbrev1<**)*

>reconsider6< "We understand that you are very busy. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 No (*go to **>call_you<***)

>call_you< "May we call you back at another time that is more convenient for you?"

1 Yes *(go to **>callback<**)*
3 No *(go to **>abbrev1<**)*

>abbrev1< "In that case, would you consider answering a few brief questions about your farming or ranching operation, the members of your household and any injuries that may have occurred between January 1, and June 30, 2007?"

1 Yes *(go to **>ab_acres<**)*
3 No *(go to **>hh_end1<**)*

Abbreviated Interview

>ab_acres< "The first set of questions are about YOUR farming or ranching operation.

Between January 1st, 2007 and June 30th, 2007, of the acres that you own, plus the acres that you rent or lease <u>from someone else</u>, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs." *[Enumerator: Zero is allowed. If 1 acre or less, enter 1. Acceptable answers = 0 – 75,000; Unknown = 99998; Refusal = 99999]*

0	None
1	1 or less
___	2 – 75,000
99998	Unknown
99999	Refused

>ab_enterpr0< **"**During that time, in which of these farming or ranching enterprises was your operation involved? Please wait until I finish reading the entire list, then tell me all that apply." *[Enumerator: READ the list and <u>enter the first three REPORTED</u>]*

1	Beef cattle
2	Dairy cattle
3	Poultry
4	Swine
5	Sheep
6	Other animals (example: horses, etc.)
7	Crops (Field, forage or specialty crops)
8	CRP (Conservation Reserve Program) or Set-aside program
9	Other (specify)
98	Unknown
99	Refused

>ab_ProgNote0< *[Programming note: If any of the codes entered in **>ab_enterpr0<** is 9 go to **>ab_enterpr_specify<**, ELSEIF only 1 code is entered go to **>ab_farminja<**, ELSE go to **>ab_enterpr1<**]*

>ab_enterpr_specify< "Please specify the other enterprise." _____

>ab_enterpr1< **"**Which ONE of those enterprises required the MOST amount of WORK TIME?"

1 Beef cattle *(go to **>ab_farminja<**)*
2 Dairy cattle *(go to **>ab_farminja<**)*
3 Poultry *(go to **>ab_farminja<**)*
4 Swine *(go to **>ab_farminja<**)*
5 Sheep *(go to **>ab_farminja<**)*
6 Other animals (example: horses, etc.) *(go to **>ab_farminja<**)*
7 Crops (Field, forage or specialty crops) *(go to **>ab_farminja<**)*
8 CRP (Conservation Reserve Program) or Set-aside program *(go to **>ab_farminja<**)*
9 Other (specify)
98 Unknown *(go to **>ab_farminja<**)*
99 Refused *(go to **>ab_farminja<**)*

>enterpr_spec< "Please specify the other enterprise" _____

>ab_farminja< "Next I will be asking a few questions about each member of your household and any injury events they may have experienced. By injury we mean any accident or injury event that:

[Enumerator: READ SLOWLY!!]

- **Restricted normal activities for at least 4 hours;**

  AND/OR

- **Resulted in loss of consciousness, confusion, or memory loss for any length of time;**

  AND/OR

- **Required professional health care, including doctors, nurses, chiropractors, dentists, or other health care professionals."**

1 *Continue*

>ab_farminjb< This includes accidents or injuries that:

1) Happened ON OR OFF THE FARM OR RANCH; and
2) Were minor, serious or fatal."

1 *Continue*

>ab_farminjc< "Let me give you a few examples of the types of injuries we're interested in. These include:

- A brain injury or loss of consciousness resulting from a fall;
- A broken arm from working with machinery;
- An animal bite or kick;
- A brief loss of consciousness after breathing toxic gas such as silo gas or manure pit gas;

- A burn or blister due to heat or chemical contact;"

1 *Continue*

>ab_farminjd<

- "Abdominal injuries resulting from a motor vehicle crash;
- A leg fracture from a sports or recreation activity;
- A strained/pulled back from lifting, twisting, etc.;
- A cut or laceration from working with a tool;
- A bruise or contusion from a falling item or being struck by or against equipment or an animal."

1 *Continue*

>ab_farminje< "Do you have any questions about the type of injuries we're interested in?"

1 Yes *[Enumeratror: Answer questions and repeat description, as necessary, then go to **>ab_farminj<**]*
3 No *(go to **>ab_farminj<**)*

>ab_farminj< "Thinking about the time between **January 1st and June 30th, 2007**, did any member of your household have any accidents or injuries that were related to YOUR farming or ranching operation in any way? This includes activities such as transportation on roadways, or any other aspect of your operation, including raising animals for recreation or home use. It could also include someone who was injured while standing or playing in an area where these activities were taking place."

1 Yes
3 No
8 Unknown
9 Refused

>ab_non_farminj< "During that time, did any member of your household have any accidents or injuries related to activities OTHER THAN farming or ranching?"

1 Yes
3 No
8 Unknown
9 Refused

>ab_ProgNote2< *[Programming note: If **>ab_farminj<** = 3 (no) and **>ab_non_farminj<** = 3 (no), go to **>ab_end2<**]*

>ab_ProgNote3< *[Programming Note: The program loops through the people in the household from 1 to >totinfarm<. If male, **>he_she<** = "he", **>his_her<** = "his"; else if female, **>he_she<** = "she", **>his_her<** = "her".]*

>ab_hh_log2< "Now I need to collect some basic information about >first_name< and >his_her< experiences between January 1st and June 30th, 2007."

>ab_ProgNote4< *[Programming Note: If >ab_farminj< = 3 (no), go to **>ab_ProgNote5<**.]*

>ab_farm< "Between January 1st and June 30th, 2007, did >he_she< have any accidents or injuries that were in any way related to YOUR farming or ranching operation?"

1 Yes
3 No *(go to **>ab_ProgNote5<**)*
8 Unknown *(go to **>ab_ProgNote5<**)*
9 Refused *(go to **>ab_ProgNote5<**)*

>ab_num1< "How many?" *[Enumerator: Acceptable answers are 1 – 9; Unknown = 98; Refusal = 99]*

__ 1-9
98 Unknown
99 Refused

>ab_mo6< "During that time, how many months did >he_she< work or do chores in any activity related to your farming or ranching operation?"

0 None *(go to **>ab_ProgNote5<**)*
___ 1 – 6 months
8 Unknown *(go to **>ab_ProgNote5<**)*
9 Refused *(go to **>ab_ProgNote5<**)*

>ab_wk6< "During that time, in an average working month how many weeks did >first_name< work or do chores in any activity related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>ab_hr6< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers are 1 – 130; Unknown = 998; Refusal = 999]*

____ 1-130 hr/wk
998 Unknown
999 Refused

>ab_ProgNote5< *[Programming Note: If >ab_non_farminj< = 3 (no), go to **>ab_next_member<**.]*

>ab_nonfarm< "During those months did >he_she< have any accidents or injuries related to activities OTHER THAN farming or ranching?"

1 Yes
3 No *(go to **>ab_next_member<**)*
8 Unknown *(go to **>ab_next_member <**)*
9 Refused *(go to **>ab_next_member <**)*

>ab_num2< "How many?" *[Enumerator: Acceptable answers are 1 – 9; Unknown = 98; Refusal = 99]*

__ 1-9
98 Unknown
99 Refused

>ab_next_member< *[Programming note: If no more HH members remain - go to **>ab_end2<**; else **continue**]*

"Now, let's talk about the next member of your household."

*1 go to **>ab_ProgNote3<***

Injury Section

>cards2c< "The **light blue** form in your packet defines what we mean by INJURY and will be helpful for the next few questions. Do you have the packet in front of you?"

1 Yes *(go to **>cards2a<**)*
3 No

>getcard< "Can you get the form?"

1 Yes
3 No

>cards2a< **"**The next questions are about accidents and injuries that occurred TO MEMBERS OF YOUR HOUSEHOLD **BETWEEN JANUARY 1st AND June 30th** OF THIS YEAR. These may have resulted from activities related to farming or ranching, AS WELL AS from other activities NOT related to farming or ranching."

"The injured person could have been directly involved in the activities or simply standing or playing in the area. These accidents and injuries INCLUDE MINOR AS WELL AS SERIOUS AND FATAL ACCIDENTS OR INJURIES that:"

1 *Continue*

>card2b< *[Enumerator: Read slowly!!]*

- **"Restricted normal activities for at least 4 hours;**

  AND/OR

- **Resulted in loss of consciousness, confusion or memory loss for any length of time;**

  AND/OR

- **Required professional healthcare, including care by doctors, nurses, chiropractors, dentists or other healthcare professionals."**

1 Continue

>i_ProgNote1< *[Programming Note: >any_kidofarm< = 3; If >cards2c< = 1 (yes) or >getcard< = 1 (yes) go to **>questions<**, else, go to **>nocard1<**.]*

>nocard1< "Let me give you a few examples of the types of injuries we're interested in. These include:

- A brain injury or loss of consciousness resulting from a fall;
- A broken arm from working with machinery;
- An animal bite or kick;
- A brief loss of consciousness after breathing toxic gas such as silo gas or manure pit gas;
- A burn or blister due to heat or chemical contact;"

1 *Continue*

>nocard2<

- "Abdominal injuries resulting from a motor vehicle crash;
- A leg fracture from a sports or recreation activity;
- A strained/pulled back from lifting, twisting, etc.;
- A cut or laceration from working with a tool;
- A bruise or contusion from a falling item or being struck by or against equipment or an animal."

1 *Continue*

>nocard3< "Do you have questions about the types of injuries we're asking about?"

1 Yes *[Enumeratror: Answer questions and repeat description, as necessary, then go to **>i_next_HHmem<**]*
3 No *(go to **>i_next_HHmem<**)*

>questions< **"**Do you have any questions about the types of injuries we're asking about?***"***

1 Yes *(go to **>nocard1<**)*
3 No

>i_next_HHmem< *[Programming Note: The program loops through the study subjects , for >noinfarm< = 1 to >totinfarm<; When there are no more members go to **>i_end1<**. Identifiers carried forward for each member from the Household Log are* >first_name<, >b_self_relatn<, >hh_other<, >gender<, >b_lt20<, >b_lt18< and >b_age<*]*

>i_ProgNote1a< *[Programming Note:*

If (>hh_other< = 3)
*Go to **>i_next_HHmem<***
Else if (**>b_self_relat<** = 1)
***>Your_name's<** = "your"*
>Title< =** "you" **(Always inserting >first_name<)
***>Was_were<** = "were"*
>He_she<** = "you" **(Always inserting "he" "she")
***>Are_is<** = "Are"*
***>have_has<** = "have"*
***>His_her<** = "your"*
Else
***>Your_name's<** =">first_name<'s"*
***>Title<** = >first_name<*
***>Was_were<** = "was"*
***>Are_is<** = "Is"*
***>have_has<** = "has"*
If (>gender< = 1)
***>He_she<** = "he"*
***>His_her<** = "his"*
*Else if (>gender**<** = 3)*

>He_she< *= "she"*
>His_her< *= "her"*
Else
>Are_is< *= "Are"*
>He_she< *= "they"*
>His_her< *= "their"*
Endif
Endif

If ***>noinfarm<*** *= 1 go to* ***>inj_log<*** *ELSE go to* ***>i_next_member<]***

>i_next_member< "Now, let's talk about the next member of your household.""

1 Continue

>inj_log< "DURING THE SIXTH MONTH PERIOD, BETWEEN JANUARY 1st AND JUNE 30th, 2007, Did >Title< have ANY type of accidents or injuries?"

1 Yes
3 No *(go to* ***>i_next_HHmem<****)*
8 Unknown *(go to* ***>i_next_HHmem<****)*
9 Refused *(go to* ***>i_next_HHmem<****)*

>inj_farmop< "During that time, how many accidents or injuries did >Title< have, that were related to YOUR farming or ranching operation in any way? This includes activities such as transportation on roadways, or any other aspect of your operation, including raising animals for recreation or home use. It could also include someone who was injured while standing or playing in an area where these activities were taking place." [*Enumerator: If they don't know how many, ask how many they remember and enter that number. Do not include bookwork, housework, or house repairs here, because they belong under activities OTHER THAN farming or ranching.*]

__ 0-5
8 Unknown
9 Refused

>inj_othrfarm< "How many accidents or injuries did >Title< have, related to SOMEONE ELSE'S farming or ranching operation?"

__ 0-5
8 Unknown
9 Refused

>inj_nonfarmop< "How many accidents or injuries did >Title< have, that were related to activities OTHER THAN farming or ranching?"

__ 0-5
8 Unknown
9 Refused

>i_ProgNote2< *[Programming Note: IF any of the values: >inj_farmop<, >inj_othrfarm< &/or >inj_nonfarmop< is NOT Unknown or Refused, Set*

>total_injuries< *= SUM of all Known values (**>inj_farmop<**,**>inj_othrfarm<**,**>inj_nonfarmop<**), THEN go to **>verify_inj<** ELSE IF all values are Unknown or Refused go to **>i_next_HHmem<**]*

>verify_inj< "So >Title< had >total_injuries< injuries total, from January 1st to June 30th, 2007.

>inj_farmop< - Related to your operation.

>inj_othrfarm< - Related to someone else's Operation.

>inj_nonfarmop< - Related to Activities other than farming or ranching.

Is this correct?"

1 Yes
3 No *(go to **>inj_farmop<**)*

>i_next_evnt< *[Programming Note: The interview <u>first</u> loops through all Known injuriy events related to their own farming or ranching operation, **>type_inj<** = "Related to your own operation", **>iinj<** = 0 to >inj_farmop< (If known); <u>Then</u> the interview loops through all injury events related to someone else's farming or ranching operation, **>type_inj<** = "Related to someone elses operation", **>iinj<** = 0 to >inj_othrfarm< (If known); <u>Then</u> the interview loops through all injury events related to something other than farming or ranching, **>type_inj<** = "Related to activities other than farming/ranching", **>iinj<** = 0 to >inj_nonfarmop<]*

>inj_where< "Referring to injury # >iinj< >type_inj<, where did the accident or injury happen?"

1 In or around the house *(go to **>inj_source1<**)*
2 Roadway (farm/ranch operation road or public road) *(go to **>inj_source1<**)*
3 Around the farm or ranch *(go to **>inj_source1<**)*
4 Sports or recreation area *(go to **>inj_source1<**)*
5 Work (other than on the farm or ranch) *(go to **>inj_source1<**)*
6 School *(go to **>inj_source1<**)*
7 Cabin/operator owned vacation property *(go to **>inj_source1<**)*
8 Someone else's house *(go to **>inj_source1<**)*
9 Someone else's farm or ranch *(go to **>inj_source1<**)*
10 Public place (restaurant or other public place) *(go to **>inj_source1<**)*
11 Public outdoor area (park, lake, etc...) *(go to **>inj_source1<**)*
12 Other *(go to **>inj_where_specify<**)*
98 Unknown *(go to **>inj_source1<**)*
99 Refused *(go to **>inj_source1<**)*

>inj_where_specify< "Specify the place." _____

>inj_source1< "Which of the following SOURCES were involved in the accident/injury? I need to read the entire list before you give me

your answer. After I read the list, please tell me the one or two sources that were most directly involved in causing the accident:

1 Tractor
2 Motor Vehicle
3 Other Large machinery/ Equipment
4 Small power equip/hand tools
5 Livestock or animals, including insects
6 Storage structures
7 Chemicals/drugs/ medications/Bio-aerosols
8 Body of water
9 Falls / Surfaces
10 Sports / Recreation
11 Housework
12 Yardwork/gardening
13 Work related (non-farm)
14 Something else (physical object)
15 General Activity
16 None - No secondary source
98 Unknown
99 Refused

>i_ProgNote3< *[Programming Note: Set **>Src_Cnt<** = 1<, go to **>i_ProgNote4<**]*

>inj_source2< "Referring to injury # >iinj< >type_inj<:

Were any of the other sources that I read to you involved in the accident/injury?"

1 Tractor
2 Motor Vehicle
3 Other Large machinery/ Equip
4 Sm. power equip/hand tools
5 Livestock or animals, including insects
6 Storage structures
7 Chemicals/drugs/ medications/Bio-aerosols
8 Body of water
9 Falls / Surfaces
10 Sports / Recreation
11 Housework
12 Yardwork/gardening
13 Work related (non-farm)
14 Something else (physical object)
15 General Activity
16 None - No secondary source *(go to **>inj_activity<**)*
98 Unknown *(go to **>inj_activity<**)*
99 Refused *(go to **>inj_activity<**)*

>inj_activity< "Tell me in your own words, what >was_were< >Title< **DOING** at the time of the injury?" *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_

1 Continue

>injury_how< "In your own words, HOW did the accident happen?" *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_

1 Continue

>inj_date< "What was the DATE of the injury?" *[Enumerator: Enter as mm-dd-yyyy*
Press F5 for Unknown; F6 for Refused.*]*

___/___/____ (mm/dd/yyyy) *(go to **>inj_time<**)*
F5 (go to ***>inj_month<***)
F6 (go to ***>inj_month<***)

>inj_month< "THEN, can you tell me the MONTH in which the accident happened?"

1 January *(go to **>inj_time2<**)*
2 February *(go to **>inj_time2<**)*
3 March *(go to **>inj_time2<**)*
4 April *(go to **>inj_time2<**)*
5 May *(go to **>inj_time2<**)*
6 June *(go to **>inj_time2<**)*
7 July *(go to **>inj_time2<**)*
8 August *(go to **>inj_time2<**)*
9 September *(go to **>inj_time2<**)*
10 October *(go to **>inj_time2<**)*
11 November *(go to **>inj_time2<**)*
12 December *(go to **>inj_time2<**)*
98 Unknown *(go to **>inj_season<**)*
99 Refusal *(go to **>i_season<**)*

>inj_season< "Could you tell me if this accident happened in the SPRING, SUMMER, FALL OR WINTER?"

1 Spring (Mar / Apr / May)
2 Summer (Jun / Jul / Aug)
3 Fall (Sept / Oct / Nov)
4 Winter (Dec / Jan / Feb)
8 Unknown
9 Refusal

>inj_time2< "Did it happen in the MORNING, AFTERNOON, EVENING OR NIGHT?"

1 Morning (6:00 am - 11:59 am)

2 Afternoon (12:00 pm - 5:59 pm)
3 Evening (6:00 pm - 11:59 pm)
4 Night (12:00 am - 5:59 am)
8 Unknown
9 Refusal

>inj_part1$_i$< "What PARTS OF THE BODY were injured? If you have the **LIGHT GREEN** form with the figure, it will help you to answer this question."

101 Head / Skull
102 Brain
103 Face (Forehead, Cheek, Nose, Lip, Chin, Ear)
104 Eye / Eyelid
105 Dental / Tooth
106 Neck (Cervical area)
107 Spinal cord / Spine (Vertebrae, Sacrum, Tailbone / Coccyx, Discs)
108 Back (muscles/skin)
109 Internal chest (Ribs, Heart, Lung, Bronchial, Esophagus, Diaphragm)
110 External chest (Skin)
111 Internal abdomen (Stomach, Liver, Kidney, Gall bladder, Intestines, Appendix, Spleen, Pancreas)
112 External abdomen (Skin)
113 Shoulder / Collar bone / Shoulder blade
114 Arm / Elbow / Wrist / Carpal tunnel
115 Hand
116 Finger (s) / Thumb (s)
117 Internal hips / Pelvis (Uterus, Ovaries, Bladder, Rectum)
118 External hips / Pelvis (Skin)
119 Buttocks
120 Genitals / “Private parts”
121 Leg (Thigh (s), Shin, Calf)
122 Knee
123 Ankle
124 Foot / Heel
125 Toes
126 General systems
127 No additional body parts
128 Other
129 Entire body
998 Unknown
999 Refusal

>i_ProgNote15< *[Programming Note: Loop through body parts listed from $_i$ = 1 to 6, at end go to **>inj_loc<**; otherwise*
If (>inj_part1$_i$< = 127 or >inj_part1$_i$< = 998 or >inj_part1$_i$< = 999)
*go to **>inj_loc<***
Else If (>inj_part1$_i$< = 128)
*go to **>inj_part1_specify<***
Else

go to ***>desc_inj$_i$<***
End If]

>inj_part1$_i$_specify< "Specify the body part."

_____

>desc_inj$_i$< "Describe what **TYPES OF INJURIES** occurred to the >inj_part1$_i$< Examples include: bruise or contusion, broken bone or fracture, amputation, or loss of consciousness." *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_

1 Continue *(go to **>i_ProgNote15<**)*

>inj_serious< "How would you RATE THE SERIOUSNESS of this overall injury. Was it Minor, Moderate, Serious, Severe or Life-threatening?" *[Enumerator: If death occurred, enter 6.]*

1 Minor
2 Moderate
3 Serious
4 Severe
5 Life threatening
6 Death *(go to **>inj_care1<**)*
8 Unknown
9 Refusal

>inj_loc< "As a result of this accident, was there a LOSS OF CONSCIOUSNESS?"

1 Yes
3 No *(go to **>inj_amnesia<**)*
8 Unknown *(go to **>inj_amnesia<**)*
9 Refusal *(go to **>inj_amnesia<**)*

>inj_loc2< "Was this due to a BLOW TO THE HEAD, BEING OVERCOME BY FUMES OR SOMETHING ELSE?"

1 A blow to the head *(go to **>inj_loc3<**)*
2 Being overcome by fumes *(go to **>inj_loc3<**)*
3 Other
8 Unknown *(go to **>inj_loc3<**)*
9 Refusal *(go to **>inj_loc3<**)*

>inj_loc2_specify< "Specify the reason for unconsciousness." *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_____

1 Continue

>inj_loc3< "HOW LONG did it last?"

1 Less than 5 minutes
2 5 to less than 10 minutes
3 10 to less than 30 minutes
4 30 minutes to less than 1 hour
5 1 hour to less than 6 hours
6 6 hours to less than 24 hours
7 24 hours or more
8 Unknown
9 Refusal

>inj_amnesia< "Was there CONFUSION OR MEMORY LOSS?"

1 Yes
3 No *(go to **>inj_restrict<**)*
8 Unknown *(go to **>inj_restrict<**)*
9 Refusal *(go to **>inj_restrict<**)*

>inj_amnesia2< "Was this due to a BLOW TO THE HEAD, BEING OVERCOME BY FUMES OR SOMETHING ELSE?"

1 A blow to the head *(go to **>inj_amnesia3<**)*
2 Being overcome by fumes *(go to **>inj_amnesia3<**)*
3 Other
8 Unknown *(go to **>inj_amnesia3<**)*
9 Refusal *(go to**>inj_amnesia3<**)*

>inj_amnesia2_specify< "Specify the reason." *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_____

1 Continue

>inj_amnesia3< "HOW LONG did it last?"

1 Less than 5 minutes
2 5 to less than 10 minutes
3 10 to less than 30 minutes
4 30 minutes to less than 1 hour
5 1 hour to less than 6 hours
6 6 hours to less than 24 hours
7 24 hours or more
8 Unknown
9 Refusal

>inj_restrict< "As a result of this accident, HOW LONG were normal activities restricted? Normal activities are the things a person would ordinarily do on any given day."

0 No restriction *(go to **>inj_care1<**)*

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown *(go to **>inj_care1<**)*
9 Refusal *(go to **>inj_care1<**)*

>inj_symptoms< "If you can turn to the **TWO BEIGE FORMS** in the packet, it will help you identify some types of problems and symptoms.

At the present time, are there any PERSISTENT problems or symptoms related to this injury, including things such as numbness, pain, weakness, or some type of impairment?"

1 Yes
3 No *(go to **>inj_care1<**)*
8 Unknown *(go to **>inj_care1<**)*
9 Refusal *(go to **>inj_care1<**)*

>inj_symptoms2$_i$< "What PARTS OF THE BODY are affected? If you can turn to the **light green form** with the figure, it will help you answer this question."

101 Head / Skull
102 Brain
103 Face (Forehead, Cheek, Nose, Lip, Chin, Ear)
104 Eye / Eyelid
105 Dental / Tooth
106 Neck (Cervical area)
107 Spinal cord / Spine (Vertebrae, Sacrum, Tailbone / Coccyx, Discs)
108 Back (muscles/skin)
109 Internal chest (Ribs, Heart, Lung, Bronchial, Esophagus, Diaphragm)
110 External chest (Skin)
111 Internal abdomen (Stomach, Liver, Kidney, Gall bladder, Intestines, Appendix, Spleen, Pancreas)
112 External abdomen (Skin)
113 Shoulder / Collar bone / Shoulder blade
114 Arm / Elbow / Wrist / Carpal tunnel
115 Hand
116 Finger (s) / Thumb (s)
117 Internal hips / Pelvis (Uterus, Ovaries, Bladder, Rectum)
118 External hips / Pelvis (Skin)
119 Buttocks
120 Genitals / “Private parts”
121 Leg (Thigh (s), Shin, Calf)

122 Knee
123 Ankle
124 Foot / Heel
125 Toes
126 General systems
127 No additional body parts
128 Other
129 Entire body
998 Unknown
999 Refusal

>i_ProgNote16< *[Programming Note: Loop through body parts listed from $_i$ = 1 to 6, at end go to **>inj_care1<**; otherwise*
If (>inj_symptoms2$_i$< = 127 or >inj_symptoms2$_i$< = 998 or >inj_symptoms2$_i$< = 999)
*go to **>inj_care1<***
Else If (>inj_symptoms2$_i$< = 128)
*go to **>inj_sympoms2_specify<***
Else
*go to **>desc_sym$_i$<***
End If]

>inj_symptoms2_specify< "Specify the body part."

>desc_sym$_i$< "What are the exact TYPES OF PERSISTENT PROBLEMS OR SYMPTOMS occurring to the >inj_symptoms2$_i$<?

Please refer to the **two beige forms**."

0 Persistent physical or mental impairment
1 Persistent numbness or tingling of injures area
2 Persistent pain only upon exertion or movement / intermittent pain
3 Persistent pain in injured area at all times
4 Headache that persists for more than a single day
5 General weakness
6 Weakness of arms or legs
7 Decreased range of motion
8 Paralysis
9 Loss of body part / amputation
10 Impaired vision, including blurred or double vision
11 Impaired speech
12 Impaired hearing
13 Reduced sense of balance or dizziness
14 Reduced ability to concentrate
15 Epilepsy / Convulsions
16 Reduced ability to do heavy work
17 Other, specify
98 Unknown at this time if there will be permanent impairment
99 refusal

>i_ProgNote16a< *[Programming Note: Loop through body parts listed from i = a to f, at end go to **>inj_care1<**; otherwise*
*If (**>desc_sym$_i$<** = 17)*
*go to **>inj_ desc2$_i$_spec<***
Else
*go to **>i_ProgNote16<***
End If]

>inj_desc2$_i$_spec< "What are the other symptoms?" *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_____

1 Continue *(go to **>i_ProgNote16<**)*

>inj_care1< "The following questions are about care of the injury. Was the injury TREATED BY A HEALTH CARE PROFESSIONAL, such as a doctor, nurse, chiropractor, dentist or other healthcare professional?"

1 Yes
3 No *(go to **>i_ProgNote18<**)*
8 Unknown *(go to **>i_ProgNote18<**)*
9 Refusal *(go to **>i_ProgNote18<**)*

>inj_care2$_i$< "In WHICH of the following places did >Title< receive care?"

1 A doctor's office or clinic
2 Walk-in or Urgent care center or "minute clinic" (nursing clinic located in a retail store)
3 A hospital emergency department
4 A hospital as an in-patient (admitted to a hospital)
5 Outpatient: hospital or surgical center (free-standing)
6 A dentist's office
7 A chiropractor's office
8 At the scene of the accident
9 Any other health care facility
98 Unknown
99 Refusal

>i_ProgNote17< [Programming Note:
If (>inj_care2$_1$< not equal 4 and >inj_care2$_2$< not equal 4 and >inj_care2$_3$< not equal 4 and >inj_care2$_4$< not equal 4 and >inj_care2$_5$< not equal 4 and >inj_care2$_6$< nt equal 4 and >inj_care2$_7$< not equal 4)
*go to **>inj_insurance<***
End If]

>inj_hospital< "HOW LONG >was_were< >Title< in the hospital?"
[Enumerator: Acceptable answers 1 to 182 days. Unknown = 998; Refusal = 999]

____ days
998 Unknown
999 Refusal

>i_ProgNote18< *[Programming Note:*
If (>b_lt20< = 1 or >b_age< < 20 go to >i_ProgNote18a<; ELSE go to >i_next_even t<)

>i_ProgNote18a< *[Programming Note: >type_inj< = " Related to your own operation" go to >inj_ownfarm<; ELSE go to >i_ProgNote19<)*

>inj_ownfarm< "For clarification, WAS THIS injury related to >Your_name's< farming or ranching operation activities associated with your operation? This includes activities such as transportation on roadways, or any other aspect of your operation, such as raising animals for recreation or home use. It could also include someone who was injured while standing or playing in AREAS WHERE FARMING OR RANCHING ACTIVITIES WERE TAKING PLACE."

1 Yes *(>**any_kidofarm<** = 1; go to **>i_Prognote19<**)*
3 No
8 Unknown
9 Refusal

>inj_lsfarm< "Was it in any way related to motor vehicles, machinery, equipment, tools, livestock or working animals, storage structures, chemicals or bodies of water that are part of your farming or ranching operation?"

1 Yes *(**>any_kidofarm<** = 1; go to **>i_Prognote19<**)*
3 No
8 Unknown
9 Refusal

>inj_sefarm< "Was it in any way related to someone else's farming or ranching activities on YOUR operation?"

1 Yes *(**>any_kidofarm<** = 1; go to **>i_Prognote19<**)*
3 No
8 Unknown
9 Refusal

>inj_whyfarm< "In what way was it related to YOUR farming or ranching operation?" *[Enumerator: Press F9.*

*Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____

_____

1 *Continue*

>int_assess< *[Enumerator: Was it in any way related to motor vehicles, machinery, equipment, tools, livestock or working animals, storage structures, chemicals or bodies of water that are part of their farming or ranching operation?]*

1 Yes *(**>any_kidofarm<** = 1; go to **>i_ProgNote19<**)*
3 No *(go to **>b_school_miss<**)*
8 Unknown *(go to **>b_school_miss<**)*
9 Refusal *(go to **>b_school_miss<**)*

>i_ProgNote19< *[Programming Note: >type_inj< = "Related to your own operation" OR >type_inj< = " Related to someone elses operation" go to >b_hosp7<; ELSE go to >b_school_miss<)*

>b_hosp7< **"**Were any **operations or surgical procedures** performed on >Title< as a result of this injury event?"

1 Yes
3 No (go to **>b_er4<**)
7 N/A – Reported as not own oper. injury 1st 6 mo.
8 Unknown (go to **>b_er4<**)
9 Refused (go to **>b_er4<**)

>b_hosp8(4)< **"**Please describe the **operations or surgical procedures.**" *[Enumerator: PROBE for any other operations or surgical procedures and enter up to 4.]*

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

>b_er4(5)< **"**Which of these **services**, if any, did >Title< have as a result of this injury event?" *[Enumerator: Read list and enter all that apply. Do not record surgical procedures here.]*

1 Treatment or Therapy, other than surgery (specify)
2 Laboratory tests
3 X-rays
4 MRI, CATSCAN, Sonogram or ultrasound
5 Other diagnostic test(s) (specify)
0 No services received
7 N/A – Reported as not own oper. injury 1st 6 mo.
8 Unknown
9 Refused

>b_ProgNote12e< *[Programming Note: IF any of the codes entered in >**b_er4<** = 5 go to **>b_er4_spec4<** ELSE go to **>b_ProgNote12e2<**]*

>b_er4_spec4< **"**Please specify – Other diagnostic test(s)"
_____ *(go to **>b_ProgNote12e2<**)*

>b_ProgNote12e2< *[Programming Note: IF any of the codes entered in **>b_er4<** = 1 go to **>b_er4_spec5<** ELSE go to **>b_out_of_pocket<**]*

>b_er4_spec5< **"**Please specify – Other treatment or therapy"
_____*(go to **>b_out_of_pocket<**)*

>b_out_of_pocket< "As a result of this injury event, about HOW MUCH did your household pay out-of-pocket for medical care? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one. *[Enumerator: Read list until they stop you.]*

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
7 N/A – Reported as not own oper. injury 1st 6 mo.
8 Unknown
9 Refusal

>b_school_miss< **"**As a result of this injury, HOW MANY regular school days did >Title< miss?" *[Enumerator: Acceptable answers are: 0 to 125; Unknown = 998; Refused = 999]*

0 None
__ 001 - 125 days
777 N/A – Reported as not own oper. injury 1st 6 mo.
998 Unknown
999 Refused

>lost_farmwork< "Did >Title< **miss days of work or chores** related to <u>your farming or ranching operation</u>, as a result of >his_her< injury?"

1 Yes
3 No *(go to **>lostotherwork<**)*
7 N/A – Reported as not own oper. injury 1st 6 mo.
8 Unknown *(go to **>lostotherwork<**)*
9 Refusal *(go to **>lostotherwork<**)*

>lostfarmtime< **"**About HOW MANY (8 hour) days were missed?" *[Enumerator: Acceptable answers are: 0 to 184; Unknown = 998; Refused = 999]*

0 Less than one day
___ 1 – 184 days
998 Unknown
999 Refused

>substitute_f< **"**Did **anyone substitute** for >Title< when >he_she< missed work?"

1 Yes
3 No (*go to **>lost_f_income<***)
8 Unknown (*go to **>lost_f_income<***)
9 Refused (*go to **>lost_f_income<***)

>paid_f_hr< "About HOW MUCH was paid in whole dollars for this help?" ?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing (go to ***>lost_f_income<***)
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>paid_f_day< "Was that **per hour, per day, per week or the total amount**?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>lost_f_income< "About how much <u>income</u> did your operation lose in association with >Your_name's< lost work days?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>lostotherwork< "Did >Title< lose ANY TIME from work at job(s) NOT RELATED to YOUR farming or ranching operation as a result of the injury?"

1 Yes
3 No *(go to **>b_miss_f_work<**)*
7 N/A – Reported as not own oper. injury 1st 6 mo.
8 Unknown *(go to **>b_miss_f_work<**)*
9 Refusal *(go to **>b_miss_f_work<**)*

>lostothertime< "How MUCH TIME did >Title< lose from these job(s)?"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>lost_nf_income< "About HOW MUCH <u>income</u> did >Title< lose in association with those lost work days?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_miss_f_work< **"**Did **any other household members** miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to* ***>b_miss_nf_work<***)
7 N/A – Reported as not own oper. injury 1st 6 mo.
8 Unknown (*go to* ***>b_miss_nf_work<***)
9 Refused (*go to* ***>b_miss_nf_work<***)

>b_miss_f_days< **"**About HOW MANY (8 hour) days were missed?" *[Enumerator: Acceptable answers are: 0 (less than one day); 1 to 184; Unknown = 998; Refused = 999]*

0 Less than one day
___1 – 184 days
998 Unknown
999 Refused

>b_substitute_f< **"**Did **anyone else substitute** for these household members when they missed work?"

1 Yes
3 No (*go to* ***>b_lost_f_income<***)
8 Unknown (*go to* ***>b_lost_f_income<***)
9 Refused (*go to* ***>b_lost_f_income<***)

>b_paid_f_hr< "About HOW MUCH was paid in whole dollars for this help?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing *(go to* ***>b_lost_f_income<****)*
___ 1 – 99997 dollars
99998 Unknown *(go to* ***>b_lost_f_income<****)*
99999 Refused *(go to* ***>b_lost_f_income<****)*

>b_paid_f_day< "Was that **per hour, per day, per week or the total amount**?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>b_lost_f_income< "About HOW MUCH income did these household members lose in association with those lost work days?"
[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]

0 Nothing
___1 – 99997 dollars
99998 Unknown
99999 Refused

>b_miss_nf_work< **"**Did **any other household members** miss days of work not related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to* ***>i_next_evnt<***)
8 Unknown (*go to* ***>i_next_evnt<***)
9 Refused (*go to* ***>i_next_evnt<***)

>b_miss_nf_days< "How MUCH TIME did the other household members miss?"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>b_lost_nf_income< "About HOW MUCH income did these household members lose in association with those lost work days?"
[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>i_ProgNote20< *[Program Note: If* ***>iinj<*** *< total # injuries,* ***>inj_farmop<****,* ***>inj_othrfarm<****, or* ***>inj_nonfarmop<*** *go to* ***>i_next_event<*** *ELSE go to* ***>i_next_evnt<****]*

>i_next_event< "Now, let's go to the next event for >Title<."

go to ***>i_next_evnt<***

go to ***>i_next_HHmem<***

Exit Module

>verify_address< "Let me verify the name and address that I have for your household.

•YID/KeyID

•Operation

•Address

•Phone

Is this information correct?"

1 Yes *(go to **>select_resp1<**)*
3 No (go to ***>EnumInst<***)

>EnumInst< *[Enumerator: If phone number is incorrect, thank them, hang up and redial. If number is correct, but Operator_name is incorrect, thank them, hang up and notify supervisor. Otherwise, if Operator name is correct, correct any incorrect information and information and continue with interview]*

1 *Continue (go to **>select_resp1<**)*

>hh_end1< "Thank you very much for your time today. Goodbye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (1) REFUSED TO PARTICIPATE.]

>ab_end2< "Thank you very much for your time today. Goodbye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (2) COMPLETED ABBREVIATED INTERVIEW.]

>i_end1< "Thank you very much for your time today. Your cooperation gives us important information about factors that will help to better understand the experiences of families operating farms and ranches. We will be calling your household again in approximately six months for another brief interview. We look forward to speaking with you then. Goodbye."

1 *go to **>final_ProgNote<***

>final_ProgNote< [Programming Note:
If (>any_kidofarm< = 1)
go to **>final_exit1<**
Else
go to **>final_exit2<**
End If]

>callback< *[Enumerator: Setup callback. Press CONTROL-ENTER to go to the appointment block.]*

>hh_exit<

>final_exit1< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (3)* INTERVIEWED – CHILD WITH OWN FARM INJURY*.]*

>final_exit2< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (4)* INTERVIEWED – NO CHILD OWN FARM INJURY*.]*

SECOND SIX-MONTH INJURY INTERVIEW
(July 1 through December 31, 2007)

Administered by specially trained interviewers, using a Computer-Assisted Telephone Interview (CATI)

2ND 6 MO. INTERVIEW CALLBACKS BEGIN HERE -- Script Before Entering CATI Program –

Initial Programming Note: The following variables are brought forward from the Last Interview:

>FirstResp< (Did household respond to the 1st 6 mo Interview? 1=Y; 3=No)
>InjIntDate< (Date of Last Interview, Baseline or 1st 6 mo Interview, depending on which applies)
>Respondent< (Name of Last Interview respondent, Baseline or 1st 6 mo Interview, depending on which applies)
>WhoIsResp< (Male or Female head of household code from Last Interview, Baseline or 1st 6 mo Interview, depending on which applies)
>totinfarm< (Total number of people in household, after deceased people were removed)
>No1stInj< (Number of 1st 6 mo. injuries reported, 0-15 and 88=N/A)
>Origany_kidofarm< (Any child own-farm injuries in 1st 6 mo. interview? 1=Yes; 3=No, 8=N/A)

The following household roster items are brought forward from the Last Interview:

>first_name< (Subject's first name)
>noinfarm< (New sequence number in household, after deceased members were removed)
>OrigNo< (Original sequence number in household)
>last_name< (Subject's last name)
>self_relat< (Relationship to Last Interview respondent)
>gender< (Subject's gender)
>dob< (Subject's date of birth)
>age< (Subject's age as of 01/01/2007)
>status1< (Status in last interview: 1=In HH, 2=Moved and 3=Not in HH at all)
>lt20< (Subject <20 as of 01/01/2007?)
>lt18< (Subject <18 as of 01/01/2007?)
>Origtotal_injuries< (Total number of reported injuries for this person in 1st 6 mo. interview)

The following prior injury items are brought forward from the First 6 month Interview:

>noinfarm< (New sequence number in household, after deceased members were removed)
>OrigNoinfarm< (Original sequence number in household)
>InjNum< (New Sequential Injury Number, within person, after sorting by type and date of injury)
>OrigInjNum< (Original Sequential Injury Number, within person)

>OrigType< (Originally identified as: 1 = Own farm, 2 = Other farm, and 3 = Non-farm)
>InjDate< (Date of injury event, text field for interview)
>InjMonth< (Month of injury event, if >InjDate< missing)
>InjSeason< (Season of injury event, if >InjDate< AND >InjMonth< are missing)
>InjWhen< (Composite of >InjDate<, >InjMonth< and >InjSeason<, text conversion)
>RecallDate< (Recall date for child events: For own-farm & other farm = >InjIntDate<, for non-farm = >InjWhen<, text conversion)
>injSource1< (First injury source reported, text conversion)
>injsource2< (Second injury source reported, text conversion)
>injwhere< (Injury location reported, text conversion)
>injPart1< (First body part reported, text conversion)
>injPart2< (Second body part reported, text conversion)
>injPart3< (Third body part reported, text conversion)
>injPart4< (Fourth body part reported, text conversion)
>injPart5< (Fifth body part reported, text conversion)

Dial number from call screen prepared by the USDA National Agricultural Statistics Service (NASS).

When someone answers the phone –

Ask:
>Intro1< ***"Hello, is this the _____ residence?"***

1 Yes (go to ***>select_resp1<***)
4 No (go to ***>verify_address<***)

>select_resp1< ***"May I please speak with >Respondent<?"***

1 Requested Respondent comes to the phone (*go to* ***>Cur_Resp<***)

2 Requested Respondent is currently unavailable [Enumerator: schedule a call back to the original respondent]

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>get_new_resp<****)*

>get_new_resp< [*Programming Note: If* ***>WhoIsResp< = 3*** *(male head of household) go to* ***>select_resp2<****, Else go to* ***>select_resp3<***]

>select_resp2< ***"Then, may I please speak to the female head of household?"***

1 Female head of household comes to the phone (*go to* ***>Cur_Resp<***)

2 Female head of household is currently unavailable [Enumerator: *schedule a call back to the female head of household*]

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>select_resp4<****)*

>select_resp3< ***"Then, may I please speak to the male head of household?"***

1 Male head of household comes to the phone (*go to* ***>Cur_Resp<***)

2 Male head of household is currently unavailable [Enumerator: *schedule a call back to the male head of household]*

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>select_resp4<****)*

>select_resp4< ***"Is there another adult household member I may speak with?"***

1 Other adult respondent comes to the phone (*go to* ***>Cur_Resp<***)

3 No other adult household member is available *(go to* ***>hh_end1<****)*

-- When an appropriate respondent (female or male head of household) has come to the phone begin the CATI interview --

---

>Cur_Resp< *[Enumerator: Who is the current respondent?]*

1 Female head of household
3 Male head of household

>Who_Pi< "LAST INTERVIEW RESPONDENT: >Respondent<. *Who is the current respondent? Enter name"*

>same_resp< *[Enumerator: Is this the same person as the last interview respondent?*
Current Respondent is: ***>Who_Pi<***
Last Respondent was ***>Respondent<]***
1 Yes
4 No
9 Unknown

>int_ProgNote< *[Programming Note:*
If >same_resp< = 1
>Who_Pi2< *= "you"*
>he_she1< *= "you"*
Else
>Who_Pi2< *=* ***>Respondent<***
If (>WhoIsResp< = 1)
>he_she1< *= "she"*
Else
>he_she1< *= "he"*
End If
End If]

>Intro< "Hello, this is >EnumName< calling for the >StateName< Agricultural Statistics Service. I am calling to conduct the **third** interview for the project we are conducting with the University of Minnesota about farming and ranching activities and injuries. As you know, your household is a participant in this project and the results from the project will be used to develop injury prevention programs that can benefit all households. You are still eligible for the drawing for a $100 U.S. Savings Bond (Series EE) that we told you about in the letter and during the previous interview. ***[ENUM: Refer to Appendix IV to answer questions about the Savings Bonds.]***

3 Continue

>FU_ProgNote1< *[Programming Note:*
IF (>No1stInj< > 0)
go to ***>FU_Intro3<***
ELSE
go to ***>FU_Intro2<***
END IF]

>FU_Intro2< We would like to conduct the interview now, to obtain updated information about members of your household, your farming or ranching activities, and any injuries that may have occurred in the second six months of 2007. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to

answer that question, and we will move on to the next question. Is this a convenient time?

1 Yes *(go to **>monitoring<**)*
5 No, not a convenient time *(go to **>call_you<**)*
11 Refusal *(go to **>reconsider1<**)*

>FU_Intro3< We would like to conduct the interview now, to obtain updated information about members of your household, your farming or ranching activities, the problems or consequences of injuries that >Who_Pi2< reported for your household members during the first six months of 2007, and any injuries that may have occurred in the second six months of 2007. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer that question, and we will move on to the next question. Is this a convenient time?

1 Yes *(go to **>monitoring<**)*
3 No, not a convenient time *(go to **>call_you<**)*
9 Refusal *(go to **>reconsider1<**)*

>Monitoring< "For quality control purposes, my supervisor may monitor this call."

1 *Continue*

>cards< "We recently mailed you an interview information packet containing two letters and a set of colored forms. It would be helpful if you had the forms in front of you as we speak. Do you have them available?"

2 Yes *(go to **>b_enterpr0<**)*
4 No *(go to **>getcards<**)*

>getcards< "Can you get the forms?"

2 Yes *(go to **>b_enterpr0<**)*
4 No *(go to **>proceed<**)*

>proceed< "We can proceed with the interview anyway. May we continue?"

2 Yes *(go to **>b_enterpr0<**)*
4 No (*go to **>call_you<***)

>b_enterpr0< **"**In which of these farming or ranching enterprises was your operation **involved between July 1st and December 31st, 2007**? Please wait until I finish reading the entire list, then tell me all that apply." *[Enumerator: READ the list and enter the first three REPORTED]*

1 Beef cattle
2 Dairy cattle
3 Poultry
4 Swine
5 Sheep
6 Other animals (example: horses, etc.)
7 Crops (Field, forage or specialty crops)
8 CRP (Conservation Reserve Program) or Set-aside program
9 Other (specify)
98 Unknown ***>b_acres<)***
99 Refused ***>b_acres<)***

>ProgNote1< *[Programming note: If any of the codes entered in* ***>b_enterpr0<*** *is 9 go to* ***>b_enterpr0_spec<****, ELSEIF only 1 code is entered go to* ***>b_acres<****, ELSE go to* ***>b_enterpr1<****]*

>b_enterpr0_spec<"Please specify the other enterprise" _____

>b_enterpr1< "Which ONE of those enterprises required the MOST amount of WORK TIME?"

1 Beef cattle *(go to* ***>b_acres<)***
2 Dairy cattle *(go to* ***>b_acres<)***
3 Poultry *(go to* ***>b_acres<)***
4 Swine *(go to* ***>b_acres<)***
5 Sheep *(go to* ***>b_acres<)***
6 Other animals (example: horses, etc.) *(go to* ***>b_acres<)***
7 Crops (Field, forage or specialty crops) *(go to* ***>b_acres<)***
8 CRP (Conservation Reserve Program) or Set-aside program *(go to* ***>b_acres<)***
9 Other (specify) (go to **>b_enterpr_spec<**)
98 Unknown *(go to* ***>b_acres<)***
99 Refused *(go to* ***>b_acres<)***

>b_enterpr_spec< "Please specify the other enterprise" _____

>b_acres< "**Between July 1st and December 31st, 2007**, of the acres that you own, plus the acres that you rent or lease from someone else, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs." *[Enumerator: Zero is allowed. If 1 acre or less, enter 1. Acceptable answers = 0 – 75,000; Unknown = 99998; Refusal = 99999]*

0 None
1 1 or less
___ 2 – 75,000
99998 Unknown
99999 Refused

>hh_ProgNote2< *[Programming Note: If >proceed< = 1 (go to **>hh_log<**); Else (go to **>get_gold<**)]*

>get_gold< "The next set of questions is about the people who were identified as members of your household AS OF JANUARY 1, 2007. This includes those living in your household now, and anyone who may have moved out since January 1st or passed away since July 1st of 2007, students away at college, and children who reside in multiple households, including yours.

For these questions it will be helpful for you to have the **gold form** from the packet in front of you. Do you have the **gold form**?" *[Enumerator: Wait for the respondent to get the **gold form** or say that it is not available.]*

1 *Continue*

>hh_log< "Now I will ask some basic questions about each member of your household."

1 *Continue*

>hh_ProgNote3< *[Programming Note: The program loops through the subjects in the household from j = 1 thru >totinfarm<, without those reported as deceased in the last interview. AT END go to **>FU_ProgNote5<**}*

>hh_ProgNote3a< *[Programming Note:*

If (>same_resp< = 1)
* **>b_self_relat< = >self_relat<***
* go to **>hh_ProgNote3b<***
Else
* go to **>b_self_relat<***
ENDIF

>b_self_relat< "What is ">first_name<"'s relationship TO YOU?"

1 Self (respondent)
2 Spouse / Life partner
3 Child (son/daughter: includes step-children of respondent)
4 Sibling (includes half & step-brothers & sisters)
5 Parent (respondent's parent)
6 Other family
7 Non-family
8 Unknown
9 Refused

>hh_ProgNote3b< *[Programming Note:*

***>Was_is<** = "is"*
***>Was_were<** = "was"*
>aget< = 999
>b_lt20< = >lt20<
>b_lt18< = >lt18<
*If (**>b_self_relat<** = 1))*
* **>Your_name's<** = "your"*

*>**Title**<* = *"you"*
*>**Was_were**<* = *"were"*
*>**hh_moved**<* = *1 (Yes)*
*>**he_she**<* = *"you"*
*>**him_her**<* = *"you"*
*>**his_her**<* = *"your"*
*>**CHas_Have**<* = *"Have"*
*>**has_have**<* = *"have"*
*Go to >**hh_ProgNote4**<*
Else
*>**Your_name's**<* = *"**>first_name<**'s"*
*>**Title**<* = *>**first_name**<*
*>**CHas_Have**<* = *"Has"*
*>**has_have**<* = *"has"*
*If (>**gender**<* = *1)*
*>**he_she**<* = *"he"*
*>**him_her**<* = *"him"*
*>**his_her**<* = *"his"*
*Else if (>**gender**<* = *3)*
*>**he_she**<* = *"she"*
*>**him_her**<* = *"her"*
*>**his_her**<* = *"her"*
Else
*>**he_she**<* = *"they"*
*>**him_her**<* = *"them"*
*>**his_her**<* = *"their"*
End if
Endif]

>FU_ProgNote2< *[Programming Note:*
IF (>status1< = 2)
*>**stat**<* = *"moved before June 30, 2007"*
*go to >**FU_return**<*
ELSE IF (>status1< = 3)
*>**stat**<* = *"did not live in the household between January 1 and June 30, 2007"*
*go to >**FU_return**<*
ELSE
*go to >**hh_moved**<*
END IF]

>FU_return< "In the last interview, we were told that >first_name< >stat<. Did >he_she< live in your household at any time between July 1 and December 31, 2007?"

2 Yes (*go to >**FU_month_return**<*)
4 No (*go to >**hh_Prognote4**<*)

>FU_month_return< "In what month did >he_she< return?" ____

>FU_day_return< "On what day of the month?" *[Enumerator: Valid dates are 1 to 31. Unknown = 98; Refused = 99]* ____

>hh_moved< "Did >first_name< live in your household as of December 31, 2007?" *[People on vacation on December 31, 2007 are considered to be living in the household.]*

1 Yes (*go to* ***>hh_ProgNote4<***)
3 No (*go to* ***>FU_Prognote3<***)

>FU_ProgNote3< *[Programming Note:*
IF (>FirstResp< = 3)
go to ***>hh_other1<***
ELSE
go to ***>hh_other2<***
END IF]

>hh_other1< "Did **>first_name<** move or pass away between January 1 and December 31, 2007?

3 Moved– includes those who left for school or to live in another household, whether temporarily or permanently *(go to >month_left<)*
4 Passed away *(go to >month_left<)*
4 Not living in Household at any time during this 6 months *(go to >hh_ProgNote4<)*

>hh_other2< "Did **>first_name<** move or pass away between July 1 and December 31, 2007?

1 Moved– includes those who left for school or to live in another household, whether temporarily or permanently *(go to >month_left<)*
2 Passed away *(go to >month_left<)*
3 Not living in Household at any time during this 6 months *(go to >hh_ProgNote4<)*

>month_left< "In what month did this occur?" ____

>day_left< "On what day of the month?" *[Enumerator: Valid dates are 1 to 31. Unknown = 98; Refused = 99]* ____

>hh_ProgNote4< *[Programming Note:*

If ***>dob<*** *missing*
go to ***>b_dob<***
Else
>b_dob< = ***>dob<***
>b_age< = ***>age<***
>aget< = trunc((({Today's date} - >dob<])/365.25),0)
If (>b_age< <20)
>b_lt20< = 1

Else
>b_lt20< = 3
Endif
If(>aget< < 18)
>b_lt18< = 1
Else
>b_lt18< = 3
Endif
go to ***>hh_ProgNote6b<***
Endif]

>b_dob< "What >was_is< >Your_name's< birthdate? (MM/DD/YYYY)"
[Enumerator: For Don't Know, press F5. For Refusal press F6.]

___/___/_____

>hh_ProgNote4a< *[Programming note:*

If ***(>b_dob<*** *unknown or refused)*
If (>age< *missing)*
go to ***>b_age<***
Else
>b_age< = ***>age<***
>aget< = ***>age< + 1***
Endif
Else
>b_age< = trunc((({01/01/2007} - >b_dob<])/365.25),0)
>aget< = trunc((({Today's date} - >b_dob<])/365.25),0)
Endif
If (>b_age< <20)
>b_lt20< = 1
Else
>b_lt20< = 3
Endif
If(>aget< < 18)
>b_lt18< = 1
Else
>b_lt18< = 3
Endif
go to ***>hh_ProgNote6b<]***

>b_age< "What was >his_her< age on January 1, 2007?" *[Enumerator: For Don't Know, press F5. For Refusal, press F6.]*

____ 0-110 Years
F5 Unknown (go to ***>b_lt20<***)
F6 Refused (go to ***>b_lt20<***)

>hh_ProgNote6a< [Programming Note:

>aget< = >b_age< + 1

If (>b_age< <20)

>b_lt20< = 1
Else
>b_lt20< = 3
Endif
If(>aget< < 18)
>b_lt18< = 1
Else
>b_lt18< = 3
Endif
go to ***>hh_ProgNote6b<]***

>b_lt20< ">Was_were< >Title< less than 20 years of age on January 1, 2007?"

1 Yes
3 No
8 Unknown
9 Refused

>hh_ProgNote6b< [Programming Note: Don't collect further information on individuals who were not in residence during the 6 mo. period.

If (>hh_other< = 3 or >FU_return< = 3)
go to ***>hh_next_member<***

Else

*If (**>b_lt20<** = 1 or **>b_lt20<** = 8 or **>b_lt20<** = 9) go to **>b_lt18<** ELSE go to **>hh_ProgNote6b2<**)*

>b_lt18< ">Was_were< >he_she< less than 18 years of age on **January 1, 2008**?"

1 Yes (go to ***>hh_ProgNote6b2<***)
3 No (go to ***>hh_ProgNote6c<***)
8 Unknown (go to ***>hh_ProgNote6b2<***)
9 Refused (go to ***>hh_ProgNote6b2<***)

>hh_ProgNote6b2< If (**>b_self_relatn<** = 1 and (**>aget<** < 18 or **>b_lt18<** eq 1 or **>b_lt18<** = 8 or **>b_lt18<** = 9)) print the following error message and schedule a callback to an adult. Error message:

"Warning – According to the relationship and birthdate/age information you have entered, the person you are interviewing may be too young! Please correct this information if it is in error, or explain that we cannot interview individuals who were under 18 years of age (as of July 1st) without prior parental permission and schedule a callback." *(go to **>b_dob<**)*

End if]

>hh_ProgNote6c< [Programming Note: Don't collect information on individuals born after January 1st, 2007: If >b_age< < 0 (born in 2007), verify **>b_dob<**, then **>hh_next_member<**, Else. go to **>hh_ProgNote6d<**.]

>hh_ProgNote6d< [Programming Note: If >hh_moved< = 3 go to **>leadin<**, Else. go to **>FU_ProgNote4<**.]

>leadin< "I'd like to ask you some questions about >first_name< even though >he_she< was not living with you as of December 31st."

1 *Continue*

>FU_ProgNote4< [Programming note: *If (>aget< < 16 go to* ***>b_insurance<***]

>FU_married< "As of July 1, 2007, what was >Your_name's< marital status? I'll read you a list of marital status categories and would like you to stop me when I reach the correct one."

7 Married
8 Living as married
9 Never married
10 Widowed
11 Separated
12 Divorced
10 Unknown
11 Refused

>b_insurance< ">Was_were< >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from July 1, 2007 through December 31, 2007?"

3 Yes, all of that time *(go to* ***>type_ins<****)*
5 Yes, part of that time *(go to* ***>mo_ins<****)*
7 No, none of that time *(go to* ***>b_intro_work<****)*
12 Unknown *(go to* ***>b_intro_work<****)*
13 Refused *(go to* ***>b_intro_work<****)*

>b_mo_ins< "During that period, for how many months DID >Title< have health care coverage?"

4 None
5 1 or less
___2 – 6 months
12 Unknown
13 Refused

>b_type_ins< "Please tell me ALL of the following types **of insurance** under which >Title< >was_were< covered?" *[Enumerator: Read list and enter ALL that apply. Also, if* ***>Title<*** *is covered by insurance carried by a parent not living in this household, please classify it using the options below.]*

17 A medical plan purchased by your **own operation**

18 A medical plan purchased by your **household** (this includes COBRA coverage)
19 A medical plan provided by an employer, with or without an employee copay (this includes military insurance) [*Enumerator: This doesn't have to be the individual's employer. It could the employer of any parent or guardian, even a non-custodial parent or guardian.*]
20 Medicare with a supplimental policy
21 Medicare without a supplimental policy
22 A Medicare HMO
23 Medicaid, Medical Assistance or any other state or federally subsidized medical plan, such as ***>program<***
24 Something else
100 Unknown
101 Refused

>hh_ProgNote9< *[Programming note: If any of the codes entered in >type_ins< is 8, go to **>b_type_ins_specify<**; else go to **>b_intro_work<**]*

>b_type_ins_specify< "Please specify the other insurance." _____

>b_intro_work< "Between **July 1st, 2007 and December 31st, 2007**, how many months did >Title< work or do chores in any activity related to your farming or ranching operation?"

0 None *(go to **>hh_ProgNote10<**)*
___ 1 – 6 months
10 Unknown *(go to **>hh_ProgNote10<**)*
11 Refused *(go to **>hh_ProgNote10<**)*

>b_wk_f_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks. Acceptable answers are: 0 to 4. Unknown = 8. Refusal = 9.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>b_hrs_f_1< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers are: 0 - 130. Unknown = 998. Refusal = 999.]*

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>hh_ProgNote10< *[Programming note: If **>aget<** < 12 go to **>hh_ProgNote11<**]*

>b_intro_nf_work< "Between **July 1st, 2007 and December 31st, 2007**, how many months did ***>Title<*** do any paid work that was not related to your own operation?" *[Enumerator: This can include regular full or part-time jobs, as well as babysitting, lawnmowing, newspaper delivery, work on other farms, etc.]*

0 None *(go to **>hh_ProgNote11<**)*
___ 1 – 6 months
8 Unknown *(go to **>hh_ProgNote11<**)*
9 Refused *(go to **>hh_ProgNote11<**)*

>b_type_nf_work< "During that time, what was >Your_name's< primary job or occupation?"

Specify: _____

>b_wks_nf_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks. Acceptable answers are: 0 to 4. Unknown = 8. Refusal = 9.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>b_hrs_nf_1< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers are: 0 - 130. Unknown = 998. Refusal = 999.]*

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>hh_ProgNote11< *[Programming note: IF **>b_age<** < 5 go to **>b_hui31<**, ELSE IF **>b_self_relat<** = 1 go to **>b_hui_intro1<**, ELSE IF **>hh_other<** = 1 or 2 go to **>hh_next_member<**, ELSE go to **>b_hui_intro2<**]*

>b_hui_intro1< "The next set of questions asks about various aspects of your health. When answering these questions we would like you to think about your health and your ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 4 weeks ago and recall the major events that you have experienced during this period. Please focus your answers on your abilities, disabilities and how you have felt during the past 4 weeks."

1 *Continue*

>b_hui_intro1a< "You may feel that the questions do not apply to you, but it is important that we ask the same questions of everyone. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about your abilities and feelings."

1 *go to >b_enum1<*

>b_hui_intro2< "The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

1 *Continue*

>b_hui_intro2a< "You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

1 *Continue<*

>b_enum1< *[Enumerator: "For each question, read the entire sentence as written, emphasing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection."]*

1 *Continue<*

>b_hui1< **"**During the past 4 weeks, >has_have< >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

1 Yes *(go to >**b_hui4**<)*
3 No
8 Don't know
9 Refused

>b_hui2< **"**>CHas_Have< >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

1 Yes *(go to >**b_hui4**<)*
3 No
8 Don't know
9 Refused

>b_hui3< **"**During the past 4 weeks, >has_have< >Title< been able to see at all?"

1 Yes
3 No *(go to* ***>b_hui6<****)*
8 Don't know
9 Refused

>b_hui4< **"**During the past 4 weeks, >has_have< >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

1 Yes *(go to* ***>b_hui6<****)*
3 No
8 Don't know
9 Refused

>b_hui5< **"**>CHas_Have< >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

1 Yes *(go to* ***>b_hui6<****)*
3 No
8 Don't know/Didn't wear glasses or contact lenses
9 Refused

>b_hui6< **"**During the past 4 weeks, >has_have< >Title< been able to hear what is said in a group conversation with at least 3 other people without a hearing aid?"

1 Yes *(go to* ***>b_hui11<****)*
3 No
8 Don't know
9 Refused

>b_hui7< **"**>CHas_Have< >Title< been able to hear what is said in a group conversation with at least 3 other people with a hearing aid?"

1 Yes ***(go to >b_hui9<)***
3 No
8 Don't know
9 Refused

>b_hui8< **"**During the past 4 weeks, >has_have< >Title< been able to hear at all?"

1 Yes
3 No *(go to* ***>b_hui11<****)*
8 Don't know
9 Refused

>b_hui9< **"**During the past 4 weeks, >has_have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room without a hearing aid?"

1 Yes *(go to* ***>b_hui11<****)*
3 No
8 Don't know
9 Refused

>b_hui10< **"**>CHas_Have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room with a hearing aid?"

1 Yes *(go to >**b_hui11**<)*
3 No
8 Don't know/Didn't wear a hearing aid
9 Refused

>b_hui11< **"**During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?"

1 Yes *(go to >**b_hui16**<)*
3 No
8 Don't know
9 Refused

>b_hui12< **"**>CHas_Have< >Title< been able to be understood partially when speaking with people who do not know >Title<?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui13< **"**During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking with people who know >Title< well?"

1 Yes *(go to >**b_hui16**<)*
3 No
8 Don't know
9 Refused

>b_hui14< **"**>CHas_Have< >Title< been able to be understood partially when speaking with people who know >Title< well?"

1 Yes *(go to >**b_hui16**<)*
3 No
8 Don't know
9 Refused

>b_hui15< **"**During the past 4 weeks, >has_have< >Title< been able to speak at all?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui16< **"**During the past 4 weeks, >has_have< **>Title<** been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?"

1 Yes *(go to >**b_hui24**<)*
3 No
8 Don't know
9 Refused

>b_hui17< **"**>CHas_Have< >Title< been able to walk around the neighborhood <u>without difficulty</u> and <u>without help or equipment</u> of any kind?"

1 Yes *(go to >**b_hui24**<)*
3 No
8 Don't know
9 Refused

>b_hui18< **"**>CHas_Have< >Title< been able to walk around the neighborhood <u>with difficulty</u> but <u>without help or equipment</u> of any kind?"

1 Yes *(go to >**b_hui24**<)*
3 No
8 Don't know
9 Refused

>b_hui19< **"**During the past 4 weeks, >has_have< >Title< been able to walk at all?"

1 Yes
3 No *(go to >**b_hui22**<)*
8 Don't know
9 Refused

>b_hui20< **"**>CHas_Have< >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?" *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

1 Yes
3 No
8 Don't know
9 Refused

>b_hui21< **"**>CHas_Have< >Title< needed the help of another person to walk?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui22< **"**>CHas_Have< >Title< needed a wheelchair to get around the neighborhood?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui23< **"**>CHas_Have< >Title< needed the help of another person to get around in the wheelchair?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui24< **"**During the past 4 weeks, >has_have< >Title< had the full use of both hands and ten fingers?"

1 Yes *(go to >**b_hui28**<)*
3 No
8 Don't know
9 Refused

>b_hui25< **"**>CHas_Have< >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No *(go to >**b_hui27**<)*
8 Don't know
9 Refused

>b_hui26< **"**>CHas_Have< >Title< needed the help of another person with some tasks, most tasks or all tasks?"

1 Some tasks
2 Most tasks
3 All tasks
8 Don't know
9 Refused

>b_hui27< **"**>CHas_Have< >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui28< **"**During the past 4 weeks, >has_have< **>Title<** been able to eat, bathe, dress and use the toilet without difficulty?"

1 Yes *(go to >**b_hui31**<)*
3 No
8 Don't know
9 Refused

>b_hui29< **"**>CHas_Have< >Title< needed the help of another person to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui30< **"**>CHas_Have< >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui31< **"**During the past 4 weeks, >has_have< >Title< been feeling happy or unhappy?"

1 Happy
2 Unhappy *(go to **>hh_ProgNote11b<**)*
8 Don't know
9 Refused

>hh_ProgNote11a< *[Programming note: IF **>b_self_relat<** = 1 go to **>b_hui32a<**, ELSE go to **>b_hui32b<**]*

>b_hui32a< **"**Would you describe yourself as having felt: ***>hh_ProgNote11c<***
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to >**b_hui34**<)*
2 b) somewhat happy *(go to >**b_hui34**<)*
8 Don't know *(go to >**b_hui34**<)*
9 Refused *(go to >**b_hui34**<)*

>b_hui32b< **"**Would you describe >Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to **>hh_ProgNote11c<**)*
2 b) somewhat happy *(go to **>hh_ProgNote11c<**)*
8 Don't know *(go to **>hh_ProgNote11c<**)*
9 Refused *(go to **>hh_ProgNote11c<**)*

>hh_ProgNote11b< *[Programming note: IF **>b_self_relat<** = 1 go to **>b_hui33a<**, ELSE go to **>b_hui33b<**]*

>b_hui33a< **"**Would you describe yourself as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy *(go to >**b_hui34**<)*
2 b) very unhappy *(go to >**b_hui34**<)*
3 c) so unhappy that life was not worthwhile *(go to >**b_hui34**<)*
8 Don't know *(go to >**b_hui34**<)*
9 Refused *(go to >**b_hui34**<)*

>b_hui33b< **"**Would you describe >Title< as having felt:

a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don't know
9 Refused

>hh_ProgNote11c< *[Programming note: IF* ***>b_age<*** *< 5 go to* ***>b_hui41<****, ELSE go to* ***>b_hui34<****]*

>b_hui34< **"**During the past 4 weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?"

1 Yes
3 No *(go to >****b_hui37****<)*
8 Don't know
9 Refused

>b_hui35< "How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?"

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don't know
9 Refused

>b_hui36< **"**During the past 4 weeks, did >Title< feel <u>extremely</u> fretful, angry, irritable, anxious or depressed; to the point of needing professional help?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui37< **"**How would you describe >Your_name's< ability to remember things, during the past 4 weeks:

a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?"

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don't know
9 Refused

>b_hui38< **"**How would you describe >Your_name's< ability to think and solve day to day problems, during the past 4 weeks:

a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?"

1 a) able to think clearly and solveproblems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don't know
9 Refused

>b_hui39< **"**>CHas_Have< >Title< had any trouble with pain or discomfort, during the past 4 weeks?"

1 Yes
3 No *(go to* >***b_hui41****<)*
8 Don't know
9 Refused

>b_hui40< "How many of >Your_name's< activities, during the past 4 weeks, were limited by pain or discomfort: none, a few, some, most, all?"

1 None
2 A few
3 Some
4 Most
5 All
8 Don't know
9 Refused

>b_hui41< **"**Overall, how would you rate >Your_name's< health during the past 4 weeks:

a) excellent
b) very good
c) good
d) fair
e) poor?"

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don't know
9 Refused

>oth_restrict< "Did any non-injury related events, such as illnesses, that occurred in the six-month period between July 1st and December 31st, 2007, result in restriction of >Your_name's< normal activities? Normal activities are the things a person would ordinarily do on any given day."

1 Yes
3 No *(go to* ***>hh_next_member<****)*
8 Don't know *(go to* ***>hh_next_member<****)*
9 Refused *(go to* ***>hh_next_member<****)*

>o_rest_symp< "At the present time, are there any PERSISTENT problems or symptoms related to these NON-INJURY events, including things such as numbness, pain, weakness, or some type of impairment?"

1 Yes
3 No
8 Unknown
9 Refusal

>hh_next_member< "Now, let's talk about the next member of your household."

1 *go to* ***>hh_ProgNote3<***

>reconsider1< *[Enumerator: If respondent doesn't volunteer a reason for their refusal, ask:* "Would you mind telling me the reason that you prefer not to continue at this time?"*, then enter the appropriate response.]*

7 We didn't (don't have) any injuries *(go to* ***>reconsider2<****)*
8 Operation too small *(go to* ***>reconsider3<****)*
9 Haven't been farming long enough *(go to* ***>reconsider4<****)*
10 Don't like surveys or Just don't want to to do it *(go to* ***>reconsider5<****)*
11 I'm (we're) too busy or Don't have time (*go to* ***>reconsider6<***)
12 Personal crisis (*go to* ***>call_you<***)

>reconsider2< "We are including ALL types of farming and ranching operations, whether or not there were accidents or injuries. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. Would you reconsider participating?"

2 Yes *(go to* ***>monitoring<****)*
4 I'm (we're) too busy or Don't have time (*go to* ***>reconsider6<***)
7 No, don't want to participate *(go to* ***>abbrev1<****)*

>reconsider3< "We are including all sizes of farms and ranches. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to* ***>monitoring<****)*
3 I'm (we're) too busy or Don't have time (*go to* ***>reconsider6<***)

5 No, don't want to participate *(go to **>abbrev1<**)*

>reconsider4< "We are including all operations that were actively farming or ranching as of January 1st, 2007, or had land in a Conservation Reserve Program (CRP)**.** Is this true for your operation?"

1 Yes *(go to **>monitoring<**)*
3 No (*go to **>hh_end1<***)
5 No, don't want to participate *(go to **>abbrev1<**)*

>reconsider5< "This project is very important for the entire agricultural community. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 I'm (we're) too busy or Don't have time (*go to **>reconsider6<***)
5 No, don't want to participate *(go to **>abbrev1<**)*

>reconsider6< "We understand that you are very busy. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 No (*go to **>call_you<***)

>call_you< "May we call you back at another time that is more convenient for you?"

1 Yes *(go to **>callback<**)*
3 No *(go to **>abbrev1<**)*

>abbrev1< "In that case, would you consider answering a few brief questions about your farming or ranching operation, the members of your household and any injuries that may have occurred between **July 1st and December 31st, 2007**?"

2 Yes *(go to **>ab_acres<**)*
4 No *(go to **>hh_end1<**)*

Abbreviated Interview

>ab_acres< "The first set of questions are about YOUR farming or ranching operation.

Between July 1st, 2007 and December 31st, 2007, of the acres that you own, plus the acres that you rent or lease <u>from someone else</u>, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs." *[Enumerator: Zero is allowed. If 1 acre or less, enter 1. Acceptable answers = 0 – 75,000; Unknown = 99998; Refusal = 99999]*

0	None
1	1 or less
___	2 – 75,000
99998	Unknown
99999	Refused

>ab_enterpr0< **"**During that time, in which of these farming or ranching enterprises was your operation involved? Please wait until I finish reading the entire list, then tell me all that apply." *[Enumerator: READ the list and <u>enter the first three REPORTED</u>]*

3	Beef cattle
4	Dairy cattle
3	Poultry
4	Swine
5	Sheep
6	Other animals (example: horses, etc.)
7	Crops (Field, forage or specialty crops)
8	CRP (Conservation Reserve Program) or Set-aside program
9	Other (specify)
98	Unknown
99	Refused

>ab_ProgNote0< *[Programming note: If any of the codes entered in **>ab_enterpr0<** is 9 go to **>ab_enterpr_specify<**, ELSEIF only 1 code is entered go to **>ab_farminja<**, ELSE go to **>ab_enterpr1<**]*

>ab_enterpr_specify< "Please specify the other enterprise." _____

>ab_enterpr1< **"**Which ONE of those enterprises required the MOST amount of WORK TIME?"

1 Beef cattle *(go to **>ab_farminja<**)*
2 Dairy cattle *(go to **>ab_farminja<**)*
3 Poultry *(go to **>ab_farminja<**)*
4 Swine *(go to **>ab_farminja<**)*
5 Sheep *(go to **>ab_farminja<**)*
6 Other animals (example: horses, etc.) *(go to **>ab_farminja<**)*
7 Crops (Field, forage or specialty crops) *(go to **>ab_farminja<**)*
8 CRP (Conservation Reserve Program) or Set-aside program *(go to **>ab_farminja<**)*
9 Other (specify)
98 Unknown *(go to **>ab_farminja<**)*
99 Refused *(go to **>ab_farminja<**)*

>enterpr_spec< "Please specify the other enterprise" _____

>ab_farminja< "Next I will be asking a few questions about each member of your household and any injury events they may have experienced. By injury we mean any accident or injury event that:

[Enumerator: READ SLOWLY!!]

- **Restricted normal activities for at least 4 hours;**

  AND/OR

- **Resulted in loss of consciousness, confusion, or memory loss for any length of time;**

  AND/OR

- **Required professional health care, including doctors, nurses, chiropractors, dentists, or other health care professionals."**

1 *Continue*

>ab_farminjb< This includes accidents or injuries that:

1) Happened ON OR OFF THE FARM OR RANCH; and
2) Were minor, serious or fatal."

1 *Continue*

>ab_farminjc< "Let me give you a few examples of the types of injuries we're interested in. These include:

- A brain injury or loss of consciousness resulting from a fall;
- A broken arm from working with machinery;
- An animal bite or kick;
- A brief loss of consciousness after breathing toxic gas such as silo gas or manure pit gas;

- A burn or blister due to heat or chemical contact;"

1 *Continue*

>ab_farminjd<

- "Abdominal injuries resulting from a motor vehicle crash;
- A leg fracture from a sports or recreation activity;
- A strained/pulled back from lifting, twisting, etc.;
- A cut or laceration from working with a tool;
- A bruise or contusion from a falling item or being struck by or against equipment or an animal."

1 *Continue*

>ab_farminje< "Do you have any questions about the type of injuries we're interested in?"

1 Yes *[Enumeratror: Answer questions and repeat description, as necessary, then go to **>ab_farminj<**]*
3 No *(go to **>ab_farminj<**)*

>ab_farminj< "Thinking about the time between **July 1st and December 31st, 2007**, did any member of your household have any accidents or injuries that were related to YOUR farming or ranching operation in any way? This includes activities such as transportation on roadways, or any other aspect of your operation, including raising animals for recreation or home use. It could also include someone who was injured while standing or playing in an area where these activities were taking place."

2 Yes
4 No
10 Unknown
11 Refused

>ab_non_farminj< "During that time, did any member of your household have any accidents or injuries related to activities OTHER THAN farming or ranching?"

2 Yes
4 No
10 Unknown
11 Refused

>ab_ProgNote2< *[Programming note: If **>ab_farminj<** = 3 (no) and **>ab_non_farminj<** = 3 (no), go to **>ab_end2<**]*

>ab_ProgNote3< *[Programming Note: The program loops through the people in the household from 1 to >totinfarm<. If male, **>he_she<** = "he", **>his_her<** = "his"; else if female, **>he_she<** = "she", **>his_her<** = "her".]*

>ab_hh_log2< "Now I need to collect some basic information about >first_name< and >his_her< experiences between July 1st and December 31st, 2007."

>ab_ProgNote4< *[Programming Note: If >ab_farminj< = 3 (no), go to **>ab_ProgNote5<**.]*

>ab_farm< "Between July 1st and December 31st, 2007, did >he_she< have any accidents or injuries that were in any way related to YOUR farming or ranching operation?"

2 Yes
4 No *(go to **>ab_ProgNote5<**)*
10 Unknown *(go to **>ab_ProgNote5<**)*
11 Refused *(go to **>ab_ProgNote5<**)*

>ab_num1< "How many?" *[Enumerator: Acceptable answers are 1 – 9; Unknown = 98; Refusal = 99]*

__ 1-9
98 Unknown
99 Refused

>ab_mo6< "During that time, how many months did >he_she< work or do chores in any activity related to your farming or ranching operation?"

0 None *(go to **>ab_ProgNote5<**)*
___ 1 – 6 months
8 Unknown *(go to **>ab_ProgNote5<**)*
9 Refused *(go to **>ab_ProgNote5<**)*

>ab_wk6< "During that time, in an average working month how many weeks did >first_name< work or do chores in any activity related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>ab_hr6< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers are 1 – 130; Unknown = 998; Refusal = 999]*

____ 1-130 hr/wk
998 Unknown
999 Refused

>ab_ProgNote5< *[Programming Note: If >ab_non_farminj< = 3 (no), go to **>ab_next_member<**.]*

>ab_nonfarm< "During those months did >he_she< have any accidents or injuries related to activities OTHER THAN farming or ranching?"

2 Yes
4 No *(go to **>ab_next_member<**)*
10 Unknown *(go to **>ab_next_member <**)*
11 Refused *(go to **>ab_next_member <**)*

>ab_num2< "How many?" *[Enumerator: Acceptable answers are 1 – 9; Unknown = 98; Refusal = 99]*

__ 1-9
98 Unknown
99 Refused

>ab_next_member< *[Programming note: If no more HH members remain - go to **>ab_end2<**; else **continue**]*

"Now, let's talk about the next member of your household."

*2 go to **>ab_ProgNote3<***

>FU_ProgNote5< *[Programming note: IF any injuries were reported in the 1st 6 mo. injury interview, conduct the First Six Month Injury Followup Interview, OTHERWISE skip to the Injury Section…*

IF (>No1stInj< = 0)

go to ***>cards2c<*** *(The Injury Section)*

ELSE

go to ***>FUI_next_member<***

END IF

First 6 Month Injury Followup Section (NEW Section)

>FUI_next_member< *[Programming Note: The program loops through the study subjects , for >noinfarm< = 1 to >totinfarm<. Identifiers carried forward for each member from the Household Log are >InjIntDate<, >Title<, >Your_name's<, >he_she<, >his_her<, >was_were<, >Origtotal_injuries<, >b_age<. IF >Origtotal_injuries< = 0, go to next study subject, ELSE go to* ***>FUI_Intro1<****. When there are no more members go to* ***>cards2c<****.]*

>FUI_Intro1b< When we talked with your household on >InjIntDate<, it was reported that >Title< had >total_injuries< injuries total, between January 1, 2007 and June 30, 2007.

I will now ask you about problems or consequences of these injuries, since we last talked with your household on >InjIntDate<."

1 *Continue*

>FUI_next_event< *[Programming Note: The program loops through the injury events for that study subject, for >InjNum< = 1 to >Origtotal_injuries<. When there are no more events go to* ***>FUI_next_member<****.*

If ***>InjNum<*** = 1 go to ***>FUI_ProgNote1<*** ELSE *Continue]*

"Now let's go to the next event for >Title<."

1 *Continue*

>FUI_ProgNote1< *[Programming Note:*

IF (>InjDate< not missing)

>in_on< = "on"

ELSE IF (>InjMonth< not missing)

>in_on< = "in"

ELSE IF (>InjSeason< not missing)

>in_on< = "during the"

ELSE

>in_on< = ""

END IF]

>FUI_Intro1c< **"**Now I will be asking about the >InjNum< injury >Title< experienced between between January 1, 2007 and June 30, 2007."

1 *Continue*

>FUI_Intro2< "The following questions are about the injury >Title< experienced >in_on< >InjWhen< associated with >InjSource1< >InjSource2<, in or around '>InjWhere<', involving >his_her< >InjPart1<>InjPart2<>InjPart3<>InjPart4<>InjPart5<>InjPart6<."

1 *Continue*

>FUI_restrict< "**Since we last talked with your household, on >InjIntDate<**, as a result of this injury, HOW LONG were normal activities restricted? Normal activities are the things a person would ordinarily do on any given day."

0 No restriction *(go to **>FUI_care1<**)*
1 0 to less than 4 hours
2 4 hrs to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown *(go to **>FUI_care1<**)*
9 Refusal *(go to **>FUI_care1<**)*

>FUI_symptoms< "If you can turn to the **TWO BEIGE FORMS** in the packet, it will help you identify some types of problems and symptoms.

At the present time, are there any PERSISTENT or CONTINUED problems or symptoms related to this injury, including things such as numbness, pain, weakness, or some type of impairment?"

1 Yes
3 No *(go to **>FUI_care1<**)*
8 Unknown *(go to **>FUI_care1<**)*
9 Refusal *(go to **>FUI_care1<**)*

>FUI_symptoms2*i*< *(i = a to f)* "What parts of the body are affected? If you can turn to the **light green** form with the figure, it will help you answer this question."

101 Head / Skull
102 Brain
103 Face (Forehead, Cheek, Nose, Lip, Chin, Ear)
104 Eye / Eyelid
105 Dental / Tooth
106 Neck (Cervical area)
107 Spinal cord / Spine (Vertebrae, Sacrum, Tailbone / Coccyx, Discs)

108 Back (muscles/skin)
109 Internal chest (Ribs, Heart, Lung, Bronchial, Esophagus, Diaphragm)
110 External chest (Skin)
111 Internal abdomen (Stomach, Liver, Kidney, Gall bladder, Intestines, Appendix, Spleen, Pancreas)
112 External abdomen (Skin)
113 Shoulder / Collar bone / Shoulder blade
114 Arm / Elbow / Wrist / Carpal tunnel
115 Hand
116 Finger (s) / Thumb (s)
117 Internal hips / Pelvis (Uterus, Ovaries, Bladder, Rectum)
118 External hips / Pelvis (Skin)
119 Buttocks
120 Genitals / "Private parts"
121 Leg (Thigh (s), Shin, Calf)
122 Knee
123 Ankle
124 Foot / Heel
125 Toes
126 General systems
127 No additional body parts
128 Other
129 Entire body
998 Unknown
999 Refusal

>FUI_ProgNote2< *[Programming Note: Loop through body parts listed from $_i$ = a to f, at end go to* ***>FUI_care1<****; otherwise*
IF (>FUI_symptoms2i< = 127 or >FUI_symptoms2i< = 998 or >FUI_symptoms2i< = 999)
go to ***>FUI_care1<***
ELSE IF (>FUI_symptoms2i< = 128)
go to ***>FUI_sympoms2i_specify<***
ELSE
go to ***>FUI_desc_sym$_i$<***
END IF]

>FUI_symptoms2*i*_specify< *(i = a to f)* "Specify the body part."_____
_____

>FUI_desc2*i*< *(i = a to f)* " What are the exact types of persistent or continued problems or symptoms occurring to the >FUI_symptoms2$_i$<.

Please refer to the **two beige forms**."

0 Persistent physical or mental impairment
1 Persistent numbness or tingling of injuredarea

2 Persistent pain only upon exertion or movement or intermittent (periodic) pain
3 Persistent or continued pain in injured area at all times
4 Headache that persists for more than a single day
5 General weakness
6 Weakness of arms or legs
7 Decreased range of motion
8 Paralysis
9 Loss of body part/amputation
10 Impaired vision, including blurred or double vision
11 Impaired speech
12 Impaired hearing
13 Reduced sense of balance or dizziness
14 Reduced ability to concentrate
15 Epilepsy/Seizures/Convulsions
16 Reduced ability to do heavy work
17 Other, specify *(go to **>FUI_desc$_i$_spec<**)*
98 Unknown at this time if there will be permanent impairment
99 refusal

>FUI_desc$_i$_spec< "What are the other symptoms?" *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_____

1 Continue *(go to **>FUI_ProgNote2<**)*

>FUI_ProgNote2a< *[Programming Note: Loop through body parts listed from i = a to f, at end go to **>FUI_care1<**; otherwise*
If (>FUI_desc2i< = 17)
*go to **>FUI_ desc2i_spec<***
Else
*go to **>FUI_care1<***
End If]

>FUI_desc2*i*_spec< *(i=a to f)* "Specify the body part."

_____
_____

>FUI_care1< "The following questions are about care of the injury, since we last talked with your household on >InjIntDate<. Was the injury treated by a health care professional, such as a doctor, nurse, chiropractor, dentist or other healthcare professional?"

1 Yes
3 No *(go to **>FUI_ProgNote4<**)*

8 Unknown *(go to **>FUI_ProgNote4<**)*
9 Refusal *(go to **>FUI_ProgNote4<**)*

>FUI_care2(7)< "Since >InjIntDate<, in which of the following places did >Title< receive care?"

1 A doctor's office or clinic
2 Walk-in or Urgent care center or "minute clinic" (nursing clinic located in a retail store)
3 A hospital emergency department
4 A hospital as an in-patient (admitted to a hospital)
5 Outpatient: hospital or surgical center (free-standing)
6 A dentist's office
7 A chiropractor's office
8 At the scene of the accident
9 Any other health care facility
98 Unknown
99 Refusal

>FUI_ProgNote3< [Programming Note:
If (>inj_care2$_1$< not equal 4 and >inj_care2$_2$< not equal 4 and >inj_care2$_3$< not equal 4 and >inj_care2$_4$< not equal 4 and >inj_care2$_5$< not equal 4 and >inj_care2$_6$< nt equal 4 and >inj_care2$_7$< not equal 4)
*go to **>FUI_ProgNote4<***
Else
*go to **>FUI_hospital<***
End If]

>FUI_hospital< "During that time, how many days >was_were< >Title< in the hospital?" *[Enumerator: 998 = Unknown; 999 = Refused]*

____ days
998 Unknown
999 Refusal

>FUI_ProgNote4< *[Programming Note:*
If (>b_lt20< = 1 or >b_age< < 20)
*go to **>FUI_ProgNote5<***
ELSE
*go to **>FUI_next_event<***
END IF)

>FUI_ProgNote5< *[Programming Note:*
If (>OrigType< = 1 or 2)
***>RecallPhrase<** = "we last talked with your household"*
ELSE
***>RecallPhrase<** = "this injury event"*
END IF)

>FUI_hosp7< **"**Since >*RecallPhrase*<, >in_on< >*RecallDate*<, were any operations or surgical procedures performed on >Title<, as a result of this injury event?"

1 Yes
3 No (go to **>FUI_er4<**)
8 Unknown (go to **>FUI_er4<**)
9 Refused (go to **>FUI_er4<**)

>FUI_hosp8(4)< **"**Please describe the **operations or surgical procedures.**" *[Enumerator: PROBE for any other operations or surgical procedures and enter up to 4.]*

Operation #1:
_____

Operation #2:
_____

Operation #3:
_____

Operation #4:
_____

>FUI_er45(8)< **"**Since >*RecallPhrase*<, >in_on< >*RecallDate*<, which of these services, if any, did >Title< have, as a result of this injury event?" *[Enumerator: Read list and enter all that apply. Do not record surgical procedures here.]*

1 Treatment or Therapy, other than surgery (specify)
2 Laboratory tests
3 X-rays
4 MRI, CATSCAN, Sonogram or ultrasound
5 Other diagnostic test(s) (specify)
0 No services received
8 Unknown
9 Refused

>FUI_ProgNote6< *[Programming Note: IF any of the codes entered in >**FUI_er4<** = 5 go to **>FUI_er4_spec4<** ELSE go to **>FUI_ProgNote7<**]*

>FUI_er4_spec4< **"**Please specify – The other diagnostic test(s)"
_____ *(go to **>FUI_ProgNote7<**)*

>FUI_ProgNote7< *[Programming Note: IF any of the codes entered in **>FUI_er4<** = 1 go to **>FUI_er4_spec5<** ELSE go to **>FUI_out_of_pocket<**]*

>FUI_er4_spec5< **"**Please specify – The other treatment or therapy"
_____*(go to **>FUI_out_of_pocket<**)*

>FUI_out_of_pocket< "As a result of this injury event, about how much did your household pay out-of-pocket for medical care, >*RecallPhrase*<, >in_on< >*RecallDate*<? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one. *[Enumerator: Read list until they stop you.]*

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

>FUI_school_miss< **"**As a result of this injury, HOW MANY regular school days did >Title< miss, since our last interview, >in_on< >InjIntDate<?"

0 None
__ 001 - 180 days
998 Unknown
999 Refused

>FUI_lost_farmwork< "Since we last talked with your household, on >InjIntDate<, did >Title< **miss days of work or chores** related to <u>your farming or ranching operation</u>, as a result of >his_her< injury?"

1 Yes
3 No *(go to* ***>FUI_lostotherwork<****)*
8 Unknown *(go to* ***>FUI_lostotherwork<****)*
9 Refusal *(go to* ***>FUI_lostotherwork<****)*

>FUI_lostfarmtime< **"**About HOW MANY (8 hour) days were missed?" *[Enumerator: Enter 0 (zero) for less than 1 day]*

0 Less than one day
___ 1 – 260 days
8 Unknown
9 Refused

>FUI_substitute_f< **"**During that time, did **anyone substitute** for >Title< when >he_she< missed work?"

1 Yes
3 No (*go to* ***>FUI_lost_f_income<***)
8 Unknown (*go to* ***>FUI_lost_f_income<***)
9 Refused (*go to* ***>FUI_lost_f_income<***)

>FUI_paid_f_hr< "About HOW MUCH was paid in whole dollars for this help*?" [Enumerator: Valid answers are 0 – 99997 (dollars). Unknown = 99998; Refused = 99999]*

0 Nothing (go to ***>lost_f_income<***)
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_paid_f_day< "Was that **per hour, per day, per week or the total amount**?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>FUI_lost_f_income< "About how much <u>income</u> did your operation lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars). Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_lostotherwork< "Since we last talked with your household, on >InjIntDate<, did >Title< lose ANY TIME from work at job(s) NOT RELATED to YOUR farming or ranching operation as a result of the injury?"

1 Yes
3 No *(go to* ***>FUI_miss_f_work<)***
8 Unknown *(go to* ***>FUI_miss_f_work<)***
9 Refusal *(go to* ***>FUI_miss_f_work<)***

>FUI_lostothertime< "Since >InjIntDate<, how MUCH TIME did >Title< lose from these job(s)??"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>FUI_lost_nf_income< "About HOW MUCH income did >Title< lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars). Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_miss_f_work< **"**Since we last talked with your household, on >InjIntDate<, did **any other household members** miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to* ***>b_miss_nf_work<***)
8 Unknown (*go to* ***>b_miss_nf_work<***)
9 Refused (*go to* ***>b_miss_nf_work<***)

>FUI_miss_f_days< **"**About HOW MANY (8 hour) days were missed?" *[Enumerator: Enter 0 (zero) for less than 1 day missed. Valid answers: 1 – 260 days; Unknown = 998; Refused = 999]*

0 Less than one day
___ 1 – 260 days
8 Unknown
9 Refused

>FUI_substitute_f< **"**During that time, did **anyone else substitute** for these household members when they missed work?"

1 Yes
3 No (*go to* ***>FUI_lost_f_income<***)
8 Unknown (*go to* ***>FUI_lost_f_income<***)
9 Refused (*go to* ***>FUI_lost_f_income<***)

>FUI_opaid_f_hr< "About HOW MUCH was paid in whole dollars for this help?" *[Enumerator: Valid answers are 0 – 99997 (dollars). Unknown = 99998; Refused = 99999]*

0 Nothing *(go to **>b_miss_f_income<**)*
___ 1 – 99997 dollars
99998 Unknown *(go to **>b_miss_f_income<**)*
99999 Refused *(go to **>b_miss_f_income<**)*

>FUI_opaid_f_day< "Was that **per hour, per day, per week or the total amount**?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>FUI_olost_f_income< "About how much income did these household members lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars). Unknown = 99998; Refused = 99999]*

0 Nothing
___1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_miss_nf_work< **"**Since we last talked with your household, on >InjIntDate<, did **any other household members** miss days of work not related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to **>FUI_next_event<***)
8 Unknown (*go to **>FUI_next_event<***)
9 Refused (*go to **>FUI_next_event<***)

>FUI_miss_nf_days< "How MUCH TIME did the other household members miss?"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>FUI_lost_nf_income< "About HOW MUCH income did these household members lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars). Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_ProgNote8< *[Programming Note: go to >FUI_next_event<]*

Injury Section

>cards2c< "The **light blue** form in your packet defines what we mean by INJURY and will be helpful for the next few questions. Do you have the packet in front of you?"

1 Yes *(go to **>cards2a<**)*
3 No

>getcard< "Can you get the form?"

1 Yes
3 No

>cards2a< **"**The next questions are about accidents and injuries that occurred TO MEMBERS OF YOUR HOUSEHOLD **BETWEEN JULY 1st AND December 31st OF LAST YEAR**. These may have resulted from activities related to farming or ranching, AS WELL AS from other activities NOT related to farming or ranching."

"The injured person could have been directly involved in the activities or simply standing or playing in the area. These accidents and injuries INCLUDE MINOR AS WELL AS SERIOUS AND FATAL ACCIDENTS OR INJURIES that:"

1 *Continue*

>card2b< *[Enumerator: Read slowly!!]*

- **"Restricted normal activities for at least 4 hours;**

AND/OR

- **Resulted in loss of consciousness, confusion or memory loss for any length of time;**

AND/OR

- **Required professional healthcare, including care by doctors, nurses, chiropractors, dentists or other healthcare professionals."**

1 *Continue*

>i_ProgNote1< *[Programming Note: >any_kidofarm< = 3; >any_HHinj< = 3, If >cards2c< = 1 (yes) or >getcard< = 1 (yes) go to* ***>questions<****, else, go to* ***>nocard1<****.]*

>nocard1< "Let me give you a few examples of the types of injuries we're interested in. These include:

- A brain injury or loss of consciousness resulting from a fall;
- A broken arm from working with machinery;
- An animal bite or kick;
- A brief loss of consciousness after breathing toxic gas such as silo gas or manure pit gas;
- A burn or blister due to heat or chemical contact;"

1 *Continue*

>nocard2<

- "Abdominal injuries resulting from a motor vehicle crash;
- A leg fracture from a sports or recreation activity;
- A strained/pulled back from lifting, twisting, etc.;
- A cut or laceration from working with a tool;
- A bruise or contusion from a falling item or being struck by or against equipment or an animal."

1 *Continue*

>nocard3< "Do you have questions about the types of injuries we're asking about?"

1 Yes *[Enumeratror: Answer questions and repeat description, as necessary, then go to* ***>i_next_HHmem<****]*
3 No *(go to* ***>i_next_HHmem<****)*

>questions< **"**Do you have any questions about the types of injuries we're asking about?***"***

1 Yes *(go to* ***>nocard1<****)*
3 No

>i_next_HHmem< *[Programming Note: The program loops through the study subjects , for >noinfarm< = 1 to >totinfarm<; When there are no more members go to >FU_Final_ProgNote<. Identifiers carried forward for each member from*

the Household Log are >first_name<, >b_self_relatn<, >hh_other1<, >hh_other2<, >FU_return<, >gender<, >b_lt20<, >b_lt18< and >b_age<]

>i_ProgNote1a< *[Programming Note:*

If (>FU_return< = 3 or >hh_other1< = 3 or >hh_other2< = 3)
Go to ***>i_next_HHmem<***
Else if (**>b_self_relat<** = 1)
>Your_name's< *= "your"*
>Title< = *"you"* ***(Always inserting >first_name<)***
>Was_were< *= "were"*
>He_she< *= "you"* ***(Always inserting "he" "she")***
>Are_is< *= "Are"*
>have_has< *= "have"*
>His_her< *= "your"*
Else
>Your_name's< *=">first_name<'s"*
>Title< *= >first_name<*
>Was_were< *= "was"*
>Are_is< *= "Is"*
>have_has< *= "has"*
If (>gender< = 1)
>He_she< *= "he"*
>His_her< *= "his"*
*Else if (>gender**< = 3)***
>He_she< *= "she"*
>His_her< *= "her"*
Else
>Are_is< *= "Are"*
>He_she< *= "they"*
>His_her< *= "their"*
Endif
Endif

If ***>noinfarm<*** *= 1 go to* ***>inj_log<*** *ELSE go to* ***>i_next_member<]***

>i_next_member< "Now, let's talk about the next member of your household.""

1 Continue

>inj_log< "DURING THE SIXTH MONTH PERIOD, BETWEEN July 1st and December 31st, 2007, Did >Title< have ANY type of accidents or injuries?"

1 Yes
3 No *(go to* ***>i_next_HHmem<****)*
8 Unknown *(go to* ***>i_next_HHmem<****)*
9 Refused *(go to* ***>i_next_HHmem<****)*

>inj_farmop< "During that time, how many accidents or injuries did >Title< have, that were related to YOUR farming or ranching operation in any way? This includes activities such as transportation on roadways, or any other aspect of your operation, including raising animals for recreation or home use? It could also include someone who was injured while

standing or playing in an area where these activities were taking place." [*Enumerator: If they don't know how many, ask how many they remember and enter that number. Do not include bookwork, housework, or house repairs here, because they belong under activities OTHER THAN farming or ranching.*]

__ 0-5
8 Unknown
9 Refused

>inj_othrfarm< "How many accidents or injuries did >Title< have, related to SOMEONE ELSE'S farming or ranching operation?"

__ 0-5
8 Unknown
9 Refused

>inj_nonfarmop< "How many accidents or injuries did >Title< have, that were related to activities OTHER THAN farming or ranching?"

__ 0-5
8 Unknown
9 Refused

>i_ProgNote2< *[Programming Note: IF any of the values: >inj_farmop<, >inj_othrfarm< &/or >inj_nonfarmop< is NOT Unknown or Refused, Set **>total_injuries<** = SUM of all Known values (**>inj_farmop<**,**>inj_othrfarm<**,**>inj_nonfarmop<**), THEN go to **>verify_inj<** ELSE IF all values are Unknown or Refused go to **>i_next_HHmem<**]*

>verify_inj< "So >Title< had >total_injuries< injuries total, from **July 1st to December 31st, 2007**.

>inj_farmop< - Related to your operation.

>inj_othrfarm< - Related to someone else's Operation.

>inj_nonfarmop< - Related to Activities other than farming or ranching.

Is this correct?"

1 Yes
3 No *(go to **>inj_farmop<**)*

>i_next_evnt< *[Programming Note: The interview first loops through all Known injury events related to their own farming or ranching operation, **>type_inj<** = "Related to your own operation", **>iinj<** = 0 to >inj_farmop< (If known); Then the interview loops through all injury events related to someone else's farming or ranching operation, **>type_inj<** = "Related to someone elses operation", **>iinj<** = 0 to >inj_othrfarm< (If known); Then the interview loops through all injury events related to something other than farming or ranching, **>type_inj<** = "Related to activities other than farming/ranching", **>iinj<** = 0 to >inj_nonfarmop< (If known)]*

>inj_where< "Referring to injury # >iinj< >type_inj<, where did the accident or injury happen?"

1 In or around the house *(go to **>inj_source1<**)*
2 Roadway (farm/ranch operation road or public road) *(go to **>inj_source1<**)*
3 Around the farm or ranch *(go to **>inj_source1<**)*
4 Sports or recreation area *(go to **>inj_source1<**)*
5 Work (other than on the farm or ranch) *(go to **>inj_source1<**)*
6 School *(go to **>inj_source1<**)*
7 Cabin/operator owned vacation property *(go to **>inj_source1<**)*
8 Someone else's house *(go to **>inj_source1<**)*
9 Someone else's farm or ranch *(go to **>inj_source1<**)*
10 Public place (restaurant or other public place) *(go to **>inj_source1<**)*
11 Public outdoor area (park, lake, etc...) *(go to **>inj_source1<**)*
12 Other *(go to **>inj_where_specify<**)*
98 Unknown *(go to **>inj_source1<**)*
99 Refused *(go to **>inj_source1<**)*

>inj_where_specify< "Specify the place." _____

>inj_source1< "Which of the following SOURCES were involved in the accident/injury? I need to read the entire list before you give me your answer. After I read the list, please tell me the one or two sources that were most directly involved in causing the accident:

1 Tractor
2 Motor Vehicle
3 Other Large machinery/ Equipment
4 Small power equip/hand tools
5 Livestock or animals, including insects
6 Storage structures
7 Chemicals/drugs/ medications/Bio-aerosols
8 Body of water
9 Falls / Surfaces
10 Sports / Recreation
11 Housework
12 Yardwork/gardening
13 Work related (non-farm)
14 Something else (physical object)
15 General Activity
16 None - No secondary source
98 Unknown
99 Refused

>i_ProgNote3< *[Programming Note: Set **>Src_Cnt<** = 1<, go to **>i_ProgNote4<**]*

>inj_source2< "Referring to injury # >iinj< >type_inj<:

Were any of the other sources that I read to you involved in the accident/injury?"

1 Tractor
2 Motor Vehicle
3 Other Large machinery/ Equip
4 Sm. power equip/hand tools
5 Livestock or animals, including insects
6 Storage structures
7 Chemicals/drugs/ medications/Bio-aerosols
8 Body of water
9 Falls / Surfaces
10 Sports / Recreation
11 Housework
12 Yardwork/gardening
13 Work related (non-farm)
14 Something else (physical object)
15 General Activity
16 None - No secondary source *(go to **>inj_activity<**)*
98 Unknown *(go to **>inj_activity<**)*
99 Refused *(go to **>inj_activity<**)*

>inj_activity< "Tell me in your own words, what >was_were< >Title< **DOING** at the time of the injury?" *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_

1 *Continue*

>injury_how< "In your own words, HOW did the accident happen?" *[Enumerator: : Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_

1 *Continue*

>inj_date< "What was the DATE of the injury?" ?" *[Enumerator: Enter as mm-dd-yyyy*
Press F5 for Unknown; F6 for Refused.*]*

___/___/____ (mm/dd/yyyy) *(go to **>inj_time<**)*
F5 (go to ***>inj_month<***)
F6 (go to ***>inj_month<***)

>inj_month< "THEN, can you tell me the MONTH in which the accident happened?"

1 January *(go to **>inj_time2<**)*
2 February *(go to **>inj_time2<**)*
3 March *(go to **>inj_time2<**)*
4 April *(go to **>inj_time2<**)*
5 May *(go to **>inj_time2<**)*
6 June *(go to **>inj_time2<**)*

7 July *(go to **>inj_time2<**)*
8 August *(go to **>inj_time2<**)*
9 September *(go to **>inj_time2<**)*
10 October *(go to **>inj_time2<**)*
11 November *(go to **>inj_time2<**)*
12 December *(go to **>inj_time2<**)*
98 Unknown *(go to **>inj_season<**)*
99 Refusal *(go to **>i_season<**)*

>inj_season< "Could you tell me if this accident happened in the SPRING, SUMMER, FALL OR WINTER?"

1 Spring (Mar / Apr / May)
2 Summer (Jun / Jul / Aug)
3 Fall (Sept / Oct / Nov)
4 Winter (Dec / Jan / Feb)
8 Unknown
9 Refusal

>inj_time2< "Did it happen in the MORNING, AFTERNOON, EVENING OR NIGHT?"

1 Morning (6:00 am - 11:59 am)
2 Afternoon (12:00 pm - 5:59 pm)
3 Evening (6:00 pm - 11:59 pm)
4 Night (12:00 am - 5:59 am)
8 Unknown
9 Refusal

>inj_part*i* *(i=1 to 6)*< "What PARTS OF THE BODY were injured? If you have the **LIGHT GREEN** form with the figure, it will help you to answer this question."

101 Head / Skull
102 Brain
103 Face (Forehead, Cheek, Nose, Lip, Chin, Ear)
104 Eye / Eyelid
105 Dental / Tooth
106 Neck (Cervical area)
107 Spinal cord / Spine (Vertebrae, Sacrum, Tailbone / Coccyx, Discs)
108 Back (muscles/skin)
109 Internal chest (Ribs, Heart, Lung, Bronchial, Esophagus, Diaphragm)
110 External chest (Skin)
111 Internal abdomen (Stomach, Liver, Kidney, Gall bladder, Intestines, Appendix, Spleen, Pancreas)
112 External abdomen (Skin)
113 Shoulder / Collar bone / Shoulder blade
114 Arm / Elbow / Wrist / Carpal tunnel
115 Hand
116 Finger (s) / Thumb (s)

117 Internal hips / Pelvis (Uterus, Ovaries, Bladder, Rectum)
118 External hips / Pelvis (Skin)
119 Buttocks
120 Genitals / “Private parts”
121 Leg (Thigh (s), Shin, Calf)
122 Knee
123 Ankle
124 Foot / Heel
125 Toes
126 General systems
127 No additional body parts
128 Other
129 Entire body
998 Unknown
999 Refusal

>i_ProgNote15< *[Programming Note: Loop through body parts listed from i = 1 to 6, at end go to **>inj_loc<**; otherwise*
If (>inj_parti< = 127 or >inj_parti< = 998 or >inj_parti< = 999)
*go to **>inj_loc<***
Else If (>inj_parti< = 128)
*go to **>inj_parti_specify<***
Else
*go to **>desc_inji<***
End If]

>inj_part*i*_specify< *(i=1 to 6)* “Specify the body part.”

_____

>desc_inj*i*< *(i=1 to 6)* "Describe what **TYPES OF INJURIES** occurred to the >inj_part*i*< Examples include: bruise or contusion, broken bone or fracture, amputation, or loss of consciousness.” *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///**. After entering information, press ALT-S to save the remark.]*

_____

1 *Continue (go to **>i_ProgNote15<**)*

>inj_serious< “How would you RATE THE SERIOUSNESS of this overall injury. Was it Minor, Moderate, Serious, Severe or Life-threatening?” *[Enumerator: If death occurred, enter 6.]*

1 Minor
2 Moderate
3 Serious
4 Severe
5 Life threatening
6 Death *(go to **>inj_care1<**)*

8 Unknown
9 Refusal

>inj_loc< "As a result of this accident, was there a LOSS OF CONSCIOUSNESS?"

1 Yes
3 No *(go to **>inj_amnesia<**)*
8 Unknown *(go to **>inj_amnesia<**)*
9 Refusal *(go to **>inj_amnesia<**)*

>inj_loc2< "Was this due to a BLOW TO THE HEAD, BEING OVERCOME BY FUMES OR SOMETHING ELSE?"

1 A blow to the head *(go to **>inj_loc3<**)*
2 Being overcome by fumes *(go to **>inj_loc3<**)*
3 Other
8 Unknown *(go to **>inj_loc3<**)*
9 Refusal *(go to **>inj_loc3<**)*

>inj_loc2_specify< "Specify the reason for unconsciousness." *[Enumerator: Press F9. Then **Type response exactly as stated + end with ///.** After entering information, press ALT-S to save the remark.]*

_____
_____

1 *Continue*

>inj_loc3< "HOW LONG did it last?"

1 Less than 5 minutes
2 5 to less than 10 minutes
3 10 to less than 30 minutes
4 30 minutes to less than 1 hour
5 1 hour to less than 6 hours
6 6 hours to less than 24 hours
7 24 hours or more
8 Unknown
9 Refusal

>inj_amnesia< "Was there CONFUSION OR MEMORY LOSS?"

1 Yes
3 No *(go to **>inj_restrict<**)*
8 Unknown *(go to **>inj_restrict<**)*
9 Refusal *(go to **>inj_restrict<**)*

>inj_amnesia2< "Was this due to a BLOW TO THE HEAD, BEING OVERCOME BY FUMES OR SOMETHING ELSE?"

1 A blow to the head *(go to **>inj_amnesia3<**)*
2 Being overcome by fumes *(go to **>inj_amnesia3<**)*
3 Other

8 Unknown *(go to **>inj_amnesia3<**)*
9 Refusal *(go to**>inj_amnesia3<**)*

>inj_amnesia2_specify< "Specify the reason." *[Enumerator: : Press F9. Then **Type response exactly as stated + end with ///**. After entering information, press ALT-S to save the remark.]*

_____
_____

1 *Continue*

>inj_amnesia3< "HOW LONG did it last?"

1 Less than 5 minutes
2 5 to less than 10 minutes
3 10 to less than 30 minutes
4 30 minutes to less than 1 hour
5 1 hour to less than 6 hours
6 6 hours to less than 24 hours
7 24 hours or more
8 Unknown
9 Refusal

>inj_restrict< "As a result of this accident, HOW LONG were normal activities restricted? Normal activities are the things a person would ordinarily do on any given day."

0 No restriction *(go to **>inj_care1<**)*
1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown *(go to **>inj_care1<**)*
9 Refusal *(go to **>inj_care1<**)*

>inj_symptoms< "If you can turn to the **TWO BEIGE FORMS** in the packet, it will help you identify some types of problems and symptoms.

At the present time, are there any PERSISTENT problems or symptoms related to this injury, including things such as numbness, pain, weakness, or some type of impairment?"

1 Yes
3 No *(go to **>inj_care1<**)*
8 Unknown *(go to **>inj_care1<**)*
9 Refusal *(go to **>inj_care1<**)*

>inj_symptoms2*i*< *(i = a to f)* "What PARTS OF THE BODY are affected? If you can turn to the **light green form** with the figure, it will help you answer this question."

101 Head / Skull
102 Brain
103 Face (Forehead, Cheek, Nose, Lip, Chin, Ear)
104 Eye / Eyelid
105 Dental / Tooth
106 Neck (Cervical area)
107 Spinal cord / Spine (Vertebrae, Sacrum, Tailbone / Coccyx, Discs)
108 Back (muscles/skin)
109 Internal chest (Ribs, Heart, Lung, Bronchial, Esophagus, Diaphragm)
110 External chest (Skin)
111 Internal abdomen (Stomach, Liver, Kidney, Gall bladder, Intestines, Appendix, Spleen, Pancreas)
112 External abdomen (Skin)
113 Shoulder / Collar bone / Shoulder blade
114 Arm / Elbow / Wrist / Carpal tunnel
115 Hand
116 Finger (s) / Thumb (s)
117 Internal hips / Pelvis (Uterus, Ovaries, Bladder, Rectum)
118 External hips / Pelvis (Skin)
119 Buttocks
120 Genitals / “Private parts”
121 Leg (Thigh (s), Shin, Calf)
122 Knee
123 Ankle
124 Foot / Heel
125 Toes
126 General systems
127 No additional body parts
128 Other
129 Entire body
998 Unknown
999 Refusal

>i_ProgNote16< *[Programming Note: Loop through body parts listed from i = a to f, at end go to **>inj_care1<**; otherwise*
If (>inj_symptoms2i< = 127 or >inj_symptoms2i< = 998 or >inj_symptoms2i< = 999)
*go to **>inj_care1<***
Else If (>inj_symptoms2i< = 128)
*go to **>inj_sympoms2**i**_specify<***
Else

go to ***>desc_symi<***
End If]

>inj_symptoms2*i*_specify< *(i = a to f)* "Specify the body part."

_____
____

>inj_desc_sym2*i*< *(i = a to f)* "What are the exact TYPES OF PERSISTENT PROBLEMS OR SYMPTOMS occurring to the >inj_symptoms2$_i$<?

Please refer to the **two beige forms**."

0 Persistent physical or mental impairment
1 Persistent numbness or tingling of injures area
2 Persistent pain only upon exertion or movement or intermittent (periodic) pain
3 Persistent or continued pain in injured area at all times
4 Headache that persists for more than a single day
5 General weakness
6 Weakness of arms or legs
7 Decreased range of motion
8 Paralysis
9 Loss of body part/amputation
10 Impaired vision, including blurred or double vision
11 Impaired speech
12 Impaired hearing
13 Reduced sense of balance or dizziness
14 Reduced ability to concentrate
15 Epilepsy/Seizures/Convulsions
16 Reduced ability to do heavy work
17 Other, specify
98 Unknown at this time if there will be permanent impairment
99 refusal

>i_ProgNote16a< *[Programming Note: Loop through body parts listed from i = a to f, at end go to* ***>inj_care1<****; otherwise*
*If (****>inj_desc_sym2$_i$<*** *= 17)*
go to ***>inj_ desc_sym2$_i$_spec<***
Else
go to ***>i_ProgNote16<***
End If]

>inj_desc_sym2*i*_spec<"What are the other symptoms?." *[Enumerator: Press F9. Then* ***Type response exactly as stated + end with ///.*** *After entering information, press ALT-S to save the remark.]*

1 Continue *(go to **>i_ProgNote16<**)*

>inj_care1< "The following questions are about care of the injury. Was the injury TREATED BY A HEALTH CARE PROFESSIONAL, such as a doctor, nurse, chiropractor, dentist or other healthcare professional?"

1 Yes
3 No *(go to **>i_ProgNote18<**)*
8 Unknown *(go to **>i_ProgNote18<**)*
9 Refusal *(go to **>i_ProgNote18<**)*

>inj_care2(7)< "In WHICH of the following places did >Title< receive care?"

1 A doctor's office or clinic
2 Walk-in or Urgent care center or "minute clinic" (nursing clinic located in a retail store)
3 A hospital emergency department
4 A hospital as an in-patient (admitted to a hospital)
5 Outpatient: hospital or surgical center (free-standing)
6 A dentist's office
7 A chiropractor's office
8 At the scene of the accident
9 Any other health care facility
98 Unknown
99 Refusal

>i_ProgNote17< [Programming Note:
If (>inj_care2$_1$< not equal 4 and >inj_care2$_2$< not equal 4 and >inj_care2$_3$< not equal 4 and >inj_care2$_4$< not equal 4 and >inj_care2$_5$< not equal 4 and >inj_care2$_6$< nt equal 4 and >inj_care2$_7$< not equal 4)
*go to **>inj_insurance<***
End If]

>inj_hospital< "HOW LONG >was_were< >Title< in the hospital?"
[Enumerator: Acceptable answers 1 to 182 days. Unknown = 998; Refusal = 999]

____ days
998 Unknown
999 Refusal

>i_ProgNote18< *[Programming Note:*
IF ((>inj_restrict< > 1 or missing) OR (>inj_care1< = 1 or missing) OR (>inj_loc< = 1 or missing) OR (>inj_amnesia< = 1 or missing))

***>any_Hhinj<** = 1*

IF (>b_lt20< = 1 or >b_age< < 20)
go to >i_ProgNote18a<
ELSE

go to >i_next_evnt<
END IF

ELSE
go to >i_next_evnt<
END IF

>i_ProgNote18a< *[Programming Note: >type_inj< = " Related to your own operation" go to >inj_ownfarm<; ELSE go to* ***>b_hosp7<****)*

>inj_ownfarm< "For clarification, WAS THIS injury related to >Your_name's< farming or ranching operation activities associated with your operation? This includes activities such as transportation on roadways, or any other aspect of your operation, such as raising animals for recreation or home use. It could also include someone who was injured while standing or playing in AREAS WHERE FARMING OR RANCHING ACTIVITIES WERE TAKING PLACE."

1 Yes *(>**any_kidofarm<** = 1; **go to >b_hosp7<**)*
3 No
8 Unknown
9 Refusal

>inj_lsfarm< "Was it in any way related to motor vehicles, machinery, equipment, tools, livestock or working animals, storage structures, chemicals or bodies of water that are part of your farming or ranching operation?"

1 Yes *(**>any_kidofarm<** = 1; **go to >b_hosp7<**)*
3 No
8 Unknown
9 Refusal

>inj_sefarm< "Was it in any way related to someone else's farming or ranching activities on YOUR operation?"

1 Yes *(**>any_kidofarm<** = 1; **go to >b_hosp7<**)*
3 No
8 Unknown
9 Refusal

>inj_whyfarm< "In what way was it related to YOUR farming or ranching operation?" *[Enumerator: Press F9. Then* ***Type response exactly as stated + end***

with ///. *After entering information, press ALT-S to save the remark.]*

_____

_____

1 *Continue*

>int_assess< *[Enumerator: Was it in any way related to motor vehicles, machinery, equipment, tools, livestock or working animals, storage structures, chemicals or bodies of water that are part of their farming or ranching operation?]*

1 Yes *(**>any_kidofarm<** = 1; **go to >b_hosp7<**)*
3 No *(**go to >b_hosp7<**)*
8 Unknown *(**go to >b_hosp7<**)*
9 Refusal *(**go to >b_hosp7<**)*

>b_hosp7< **"**Were any **operations or surgical procedures** performed on >Title< as a result of this injury event?"

1 Yes
3 No (go to **>b_er4<**)
8 Unknown (go to **>b_er4<**)
9 Refused (go to **>b_er4<**)

>b_hosp8(4)< **"**Please describe the **operations or surgical procedures.**" *[Enumerator: PROBE for any other operations or surgical procedures and enter up to 4.]*

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

>b_er45(8)< **"**Which of these **services**, if any, did >Title< have as a result of this injury event?" *[Enumerator: Read list and enter all that apply. Do not record surgical procedures here.]*

1 Treatment or Therapy, other than surgery (specify)
2 Laboratory tests
3 X-rays
4 MRI, CATSCAN, Sonogram or ultrasound
5 Other diagnostic test(s) (specify)
0 No services received
8 Unknown
9 Refused

>b_ProgNote12e< *[Programming Note: IF any of the codes entered in >**b_er45<** = 5 go to **>b_er4_spec4<** ELSE go to **>b_ProgNote12e2<**]*

>b_er4_spec4< **"**Please specify – The other diagnostic test(s)"
_____ *(go to **>b_ProgNote12e2<**)*

>b_ProgNote12e2< *[Programming Note: IF any of the codes entered in **>b_er4<** = 1 go to **>b_er4_spec5<** ELSE go to **>b_out_of_pocket<**]*

>b_er4_spec5< **"**Please specify – The other treatment or therapy"
_____*(go to **>b_out_of_pocket<**)*

>b_out_of_pocket< "As a result of this injury event, about HOW MUCH did your household pay out-of-pocket for medical care? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one. *[Enumerator: Read list until they stop you.]*

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

>b_school_miss< **"**As a result of this injury, HOW MANY regular school days did >Title< miss?" *[Enumerator: Acceptable answers are: 0 to 180; Unknown = 998; Refused = 999]*

0 None
__ 001 - 180 days
998 Unknown
999 Refused

>lost_farmwork< "Did >Title< **miss days of work or chores** related to <u>your farming or ranching operation</u>, as a result of >his_her< injury?"

1 Yes
3 No *(go to **>lostotherwork<**)*
8 Unknown *(go to **>lostotherwork<**)*
9 Refusal *(go to **>lostotherwork<**)*

>lostfarmtime< **"**About HOW MANY (8 hour) days were missed?" *[Enumerator: Acceptable answers are: 0 to 260; Unknown = 998; Refused = 999]*

0 Less than one day
___ 1 – 260 days
998 Unknown
999 Refused

>substitute_f< **"**Did **anyone substitute** for >Title< when >he_she< missed work?"

1 Yes
3 No (*go to* ***>lost_f_income<***)
8 Unknown (*go to* ***>lost_f_income<***)
9 Refused (*go to* ***>lost_f_income<***)

>paid_f_hr< "About HOW MUCH was paid in whole dollars for this help?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing (go to ***>lost_f_income<***)
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>paid_f_day< "Was that **per hour, per day, per week or the total amount**?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>lost_f_income< "About how much <u>income</u> did your operation lose in association with those lost work days?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>lostotherwork< "Did >Title< lose ANY TIME from work at job(s) NOT RELATED to YOUR farming or ranching operation as a result of the injury?"

1 Yes
3 No *(go to* ***>b_miss_f_work<****)*
8 Unknown *(go to* ***>b_miss_f_work<****)*
9 Refusal *(go to* ***>b_miss_f_work<****)*

>lostothertime< "How MUCH TIME did >Title< lose from these job(s)?"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>lost_nf_income< "About HOW MUCH income did >Title< lose in association with those lost work days?" *[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_miss_f_work< **"**Did **any other household members** miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to* ***>b_miss_nf_work<***)
8 Unknown (*go to* ***>b_miss_nf_work<***)
9 Refused (*go to* ***>b_miss_nf_work<***)

>b_miss_f_days< **"**About HOW MANY (8 hour) days were missed?" *[Enumerator: Acceptable answers are: 0 (less than one day); 1 to 260; Unknown = 998; Refused = 999]*

0 Less than one day
___1 – 260 days
998 Unknown
999 Refused

>b_substitute_f< **"**Did **anyone else substitute** for these household members when they missed work?"

1 Yes
3 No (*go to* ***>b_lost_f_income<***)
8 Unknown (*go to* ***>b_lost_f_income<***)
9 Refused (*go to* ***>b_lost_f_income<***)

>b_paid_f_hr< "About HOW MUCH was paid in whole dollars for this help?"
[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]

0 Nothing *(go to **>b_lost_f_income<**)*
___ 1 – 99997 dollars
99998 Unknown *(go to **>b_lost_f_income<**)*
99999 Refused *(go to **>b_lost_f_income<**)*

>b_paid_f_day< "Was that **per hour, per day, per week or the total amount**?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>b_lost_f_income< "About HOW MUCH income did these household members lose in association with those lost work days?"
[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]

0 Nothing
___1 – 99997 dollars
99998 Unknown
99999 Refused

>b_miss_nf_work< **"**Did **any other household members** miss days of work not related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to **>i_next_evnt<***)
8 Unknown (*go to **>i_next_evnt<***)
9 Refused (*go to **>i_next_evnt<***)

>b_miss_nf_days< "How MUCH TIME did the other household members miss?"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>b_lost_nf_income< "About HOW MUCH income did these household members lose in association with those lost work days?"
[Enumerator: Acceptable answers are: 0 to 99997; Unknown = 99998; Refused = 99999]

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>i_ProgNote20< *[Program Note: If **>iinj<** < total # injuries, **>inj_farmop<**, **>inj_othrfarm<**, or **>inj_nonfarmop<** go to **>i_next_event<** ELSE go to **>i_next_evnt<**]*

>i_next_event< "Now, let's go to the next event for >Title<."

*go to **>i_next_evnt<***

*go to **>i_next_HHmem<***

Exit Module

>verify_address< "Let me verify the name and address that I have for your household.

•YID/KeyID

•Operation

•Address

•Phone

Is this information correct?"

1 Yes *(go to **>select_resp1<**)*
3 No (go to ***>EnumInst<***)

>EnumInst< *[Enumerator: If phone number is incorrect, thank them, hang up and redial. If number is correct, but Operator_name is incorrect, thank them, hang up and notify supervisor. Otherwise, if Operator name is correct, correct any incorrect information and continue with interview]*

1 *Continue (go to **>select_resp1<**)*

>hh_end1< "Thank you very much for your time today. Goodbye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE.

Reason for exiting (1) REFUSED TO PARTICIPATE.]

>ab_end2< "Thank you very much for your time today. Goodbye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE.
Reason for exiting (2) COMPLETED ABBREVIATED INTERVIEW.]

>FU_Final_ProgNote< *[Programming Note:*
If (>any_HHinj< = 1 or >Origany_kidofarm< = 1)
***>will_may<** = "will"*
Else
***>will_may<** = "may"*
End If]

>i_end1< "Thank you very much for your time today. You have given us important information about factors that will help to better understand the experiences of families operating farms and ranches. We >will_may< be calling your household again in approximately six months for another interview. We look forward to speaking with you then. Goodbye."

1 *go to **>final_ProgNote<***

>final_ProgNote< [Programming Note:
If (>any_kidofarm< = 1)
go to **>final_exit1<**
Else
go to **>final_exit2<**

End If]

>callback< *[Enumerator: Setup callback. Press CONTROL-ENTER to go to the appointment block.]*

>final_exit1< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (3)* INTERVIEWED – CHILD WITH OWN FARM INJURY*.]*

>final_exit2< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (4)* INTERVIEWED – NO CHILD OWN FARM INJURY*.]*

>final_exit3< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (5)* PARTIAL INTERVIEW W/ REFUSAL*.]*

APPENDIX F

LETTERS FOR EVALUATION INTERVIEWS 1-4

- **UNIVERSITY OF MINNESOTA AND USDA NASS LETTERS FOR EVALUATION INTERVIEW #1**
- **UNIVERSITY OF MINNESOTA LETTERS FOR EVALUATION INTERVIEWS #2, #3, #4**

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA
- *Susan G. Gerberich, PhD*
  Mayo Professor and Principal Investigator and Director
  Regional Injury Prevention Research Center

MINNESOTA
- *John Shutske, PhD*
  Professor and Extension Agricultural Safety and Health Specialist
  University of Minnesota
- *Douglas A. Hartwig*
  Director, USDA, NASS, Minnesota Field Office

NEBRASKA
- *David L. Morgan, BS/EMT-P*
  Assistant Director, Nebraska Tractor Test Laboratory
  Extension Safety Engineer
  Biological Systems Engineering Department, University of Nebraska-Lincoln
- *Mark Harris*
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- *Carter Anderson*
  Director, USDA NASS, South Dakota Field Office

WISCONSIN
- *Mark A. Purschwitz, PhD*
  Research Engineer, Agricultural Safety, National Farm Medicine Center, Marshfield, Wisconsin
- *Robert J. Battaglia*
  Director, USDA NASS, Wisconsin Field Office

Thank you for your willingness to participate in the Regional Rural Injury Study – III and for completing the initial telephone interviews about your household members and farming/ranching activities. Your continued participation is extremely important to the success of this project. The information collected from you will help in understanding how injuries affect households and the agricultural community over time.

Within the next few weeks, you will receive a call inviting you to participate in the next interview. In this interview you will be asked to update information on the household and farming or ranching activities. You may also be asked about the health status of each member of the household. If you previously reported any injuries during the last six months of 2007, you will also be asked a few questions about the injured person's current status. *To ensure that the study results are meaningful, it is important for all selected farms/ranches to participate whether or not any injuries have occurred.*

All information you contribute to this project will remain completely confidential. No individual information about you, your household members, or your operation will ever be released.

As you know, every agricultural operation selected for this study is eligible to participate in the drawing for a $100 United States Savings Bond. Your household has an opportunity of at least one in 32 to receive a savings bond.

If you have any further questions about the project, please contact our *Project Director, Andy Ryan*, or me, at **(612) 625-1443 or 1-866-428-1792 (TOLL-FREE)**. If you have any questions or concerns regarding this study and would like to talk to someone other than the researchers, please contact the Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street S.E., Minneapolis, Minnesota 55455, (612) 625-1650.

Thank you again for your interest in this important effort. We look forward to your continued involvement!

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Mayo Professor and Director
Regional Injury Prevention Research Center

As you are aware, the National Agricultural Statistics Service is collaborating with the University of Minnesota on a study that is designed to provide valuable information about the burden that injuries place on agricultural households and operations. Your agricultural operation was chosen at random from all <state> farms and ranches to participate in this study and we are so very appreciative of your participation, to date. Your participation provides an important contribution to the development of specific efforts to reduce injury consequences and resulting burdens.

Within the next several weeks, a representative of the USDA Agricultural Statistics Service will call to ask for your continued participation and to update information on your household and farming or ranching activities. You may also be asked about the health status of household members and follow-up questions on injuries reported during the last six months of 2007.

To ensure that the study results are meaningful, it is important for all selected farms/ranches to participate whether or not any injuries have occurred. The enclosed letter from the University of Minnesota provides further information.

Thank you, again, for your continued participation in this important project!

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

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Within the next few weeks, you will receive a call inviting you to participate in the next interview. In this interview you will be asked to update information on your household and farming or ranching activities. You will also be asked about the health status of each member of your household. *To ensure that the study results are meaningful, it is important for all selected farms/ranches to participate whether or not any injuries have occurred.*

All information you contribute to this project will remain completely confidential. No individual information about you, your household members, or your operation will ever be released.

As you know, every agricultural operation selected for this study is eligible to participate in the drawing for a $100 United States Savings Bond. Your household has an opportunity of at least one in 32 to receive a savings bond.

If you have any further questions about the project, please contact our *Project Director, Andy Ryan*, or me, at **(612) 625-1443 or 1-866-428-1792 (TOLL-FREE)**. If you have any questions or concerns regarding this study and would like to talk to someone other than the researchers, please contact the Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street S.E., Minneapolis, Minnesota 55455, (612) 625-1650.

Thank you again for your interest in this important effort. We look forward to your continued involvement!

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Mayo Professor and Co-Director
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Within the next few weeks, you will receive a call inviting you to participate in the next interview. In this interview you will be asked to update information on your household and farming or ranching activities. You will also be asked about the health status of each member of your household. *To ensure that the study results are meaningful, it is important for all selected farms/ranches to participate whether or not any injuries have occurred.*

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  Director, USDA NASS, Wisconsin Field Office

Thank you for your participation in the Regional Rural Injury Study – III and for completing the initial telephone interviews about your household members and farming/ranching activities. We will soon be conducting the final interview for collecting this information. Your continued participation is extremely important to the success of this project. The information collected from you will help in understanding how injuries affect households and the agricultural community, over time, and serve as a basis for developing relevant prevention programs.

Within the next few weeks, you will receive a call inviting you to participate in the final interview. In this interview you will be asked to update information on your household and farming or ranching activities. You will also be asked about the health status of each member of your household. *To ensure that the study results are meaningful, it is important for all selected farms/ranches to participate whether or not any injuries have occurred.*

All information you contribute to this project will remain completely confidential. No individual information about you, your household members, or your operation will ever be released.

As you know, every agricultural operation selected for this study is eligible to participate in the drawing for a $100 United States Savings Bond. Your household has an opportunity of at least one in 32 to receive a savings bond.

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Thank you again for your interest in this important effort. We look forward to your continued involvement!

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Mayo Professor and Co-Director
Regional Injury Prevention Research Center

APPENDIX G

EVALUATION INTERVIEW
DATA COLLECTION INSTRUMENT
PROGRAMMED INTO CATI SYSTEM

- **FIRST OF FOUR EVALUATION INTERVIEWS**

Administered by specially trained interviewers, using a Computer-Assisted Telephone Interview (CATI)

EVALUATION INTERVIEW CALLBACKS BEGIN HERE

-- Script Before Entering CATI Program –

<u>THIS SECTION IS ALL NEW</u>

These variables are set at the front of the program so that only the value of >Eval< will need to be changed for subsequent Evaluation Interviews, making the need for future reprogramming unnecessary.

Set >Eval< = 1 (1=1st evaluation for 1st 6 mo injuries, 2=1st evaluation for 2nd 6 mo injuries, 3=2nd evaluation for 1st 6 mo injuries, 4=2nd evaluation for 2nd 6 mo injuries)

If (>Eval< = 1)
>Time6Label< = “in the first six months of 2008”
>Time6Window< = “January 1st and June 30th, 2008”
>Time6Window2< = “January 1st through June 30th, 2008”
>Time12Window< = “July 1st, 2007 and June 30th, 2008”
>FirstDate< = “January 1st, 2008”
>LastDate< = “June 30th, 2008”
>LastMonth< = “June 2008”
>SchoolLabel< = “January 2008”
>FirstDateMinus< = “December 31st, 2007”
>LastDatePlus< = “July 1st, 2008”
>stat1< = “moved before December 31, 2007”
>stat2< = “did not live in the household between July 1 and December 31, 2007”
Else If (>Eval< = 2)
>Time6Label< = “in the second six months of 2008”
>Time6Window< = “July 1st and December 31st, 2008”
>Time6Window2< = “July 1st through December 31st, 2008”
>Time12Window< = “January 1st and December 31st, 2008”
>FirstDate< = “July 1st, 2008”
>LastDate< = “December 31st, 2008”
>LastMonth< = “December 2008”
>SchoolLabel< = “Fall 2008”
>FirstDateMinus< = “December 31st, 2007”
>LastDatePlus< = “January 1st, 2009”
>stat1< = “moved before December 31, 2007”
>stat2< = “did not live in the household between July 1 and December 31, 2007”
Else If (>Eval< = 3)
>Time6Label< = “in the first six months of 2009”
>Time6Window< = “January 1st and June 30th, 2009”
>Time6Window2< = “January 1st through June 30th, 2009”

>Time12Window< = “July 1st, 2008 and June 30th, 2009”
>FirstDate< = “January 1st, 2009”
>LastDate< = “June 30th, 2009”
>LastMonth< = “June 2009”
>SchoolLabel< = “January 2009”
>FirstDateMinus< = “June 30th, 2008”
>LastDatePlus< = “July 1st, 2009”
>stat1< = “moved before June 30, 2008”
>stat2< = “did not live in the household between January 1 and June 30, 2008”

Else If (>Eval< = 4)

>Time6Label< = “in the second six months of 2009”
>Time6Window< = “July 1st and December 31st, 2009”
>Time6Window2< = “July 1st through December 31st, 2009”
>Time12Window< = “January 1st and December 31st, 2009”
>FirstDate< = “July 1st, 2009”
>LastDate< = “December 31st, 2009”
>LastMonth< = “December 2009”
>SchoolLabel< = “Fall 2009”
>FirstDateMinus< = “December 31st, 2008”
>LastDatePlus< = “January 1st, 2010”
>stat1< = “moved before December 31, 2008”
>stat2< = “did not live in the household between July 1 and December 31, 2008”

End If

****

<u>THIS SECTION IS FROM THE 2nd 6 MO INJURY INTERVIEW, CONDUCTED IN EARLY 2008</u>

Initial Programming Note: The following household variables are brought forward from the Last Interview:

>CaCo< (Case or Control Household: 0=Control; 1=Case; 2=Neither – Injury Follow-up only)
>FirstResp< (Did household respond to the 2nd 6 mo Interview? 1=Y; 3=No)
>InjIntDate< (Date of Last Interview, 1st or 2nd 6 mo Interview, depending on which applies)
>Respondent< (Name of Last Interview respondent, 1st or 2nd 6 mo Interview, depending on which applies)
>WhoIsResp< (Male or Female head of household code from Last Interview, 1st or 2nd 6 mo Interview, depending on which applies)
>totinfarm< (Total number of people in household, after deceased people were removed)
>No2ndInj< [was >No1stInj<](Number of 2nd 6 mo. injuries reported for household, 0-15 and 88=N/A)
>Origany_kidofarm< (Any child injuries in 2nd 6 mo. interview? 1=Yes; 3=No, 8=N/A)

The following household roster items are brought forward from the Last Interview:

>first_name< (Subject’s first name)
>noinfarm< (New sequence number in household, after deceased members were removed)
>OrigNo< (Original sequence number in household)

>last_name< (Subject's last name)
>self_relat< (Relationship to Last Interview respondent)
>gender< (Subject's gender)
>dob< (Subject's date of birth)
>age< (Subject's age as of 01/01/2007)
>status1< (Status in last interview: 1=In HH, 2=Moved and 3=Not in HH at all)
>lt20< (Subject <20 as of 01/01/2007?)
>lt18< (Subject <18 as of 2nd 6 mo. interview or 01/01/2008, if dob missing/unknown?)
>Origtotal_injuries< (Total number of reported injuries for this person in 2nd 6 mo. interview: 0=None and 88=N/A-Not in residence in 2nd 6 mo.)

The following prior injury items are brought forward from Second 6 month Injuries:

>noinfarm< (New sequence number in household, after deceased members were removed)
>OrigNoinfarm< (Original sequence number in household)
>InjNum< (New Sequential Injury Number, within person, after sorting by type and date of injury)
>OrigInjNum< (Original Sequential Injury Number, within person)
>OrigType< (Originally identified as: 1 = Own farm, 2 = Other farm, and 3 = Non-farm)
>InjDate< (Date of injury event, text field for interview)
>InjMonth< (Month of injury event, if >InjDate< missing)
>InjSeason< (Season of injury event, if >InjDate< AND >InjMonth< are missing)
>InjWhen< (Composite of >InjDate<, >InjMonth< and >InjSeason<, text conversion)
>RecallDate< (Recall date for child events: For own-farm & other farm = >InjIntDate<, for non-farm = >InjWhen<, text conversion)
>injSource1< (First injury source reported, text conversion)
>injsource2< (Second injury source reported, text conversion)
>injwhere< (Injury location reported, text conversion)
>injPart1< (First body part reported, text conversion)
>injPart2< (Second body part reported, text conversion)
>injPart3< (Third body part reported, text conversion)
>injPart4< (Fourth body part reported, text conversion)
>injPart5< (Fifth body part reported, text conversion)

Dial number from call screen prepared by the USDA National Agricultural Statistics Service (NASS).

When someone answers the phone –

Ask:

>Intro1< ***"Hello, is this the _____ residence?"***

1 Yes (go to ***>select_resp1<*)**

5 No (go to ***>verify_address<***)

>select_resp1< ***"May I please speak with >Respondent<?"***

1 Requested Respondent comes to the phone (*go to* ***>Cur_Resp<***)

2 Requested Respondent is currently unavailable [Enumerator: schedule a call back to the original respondent]

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>get_new_resp<)***

>get_new_resp< [*Programming Note: If* ***>WhoIsResp<*** *= 3 (male head of household) go to* ***>select_resp2<****, Else go to* ***>select_resp3<***]

>select_resp2< ***"Then, may I please speak to the female head of household?"***

1 Female head of household comes to the phone (*go to* ***>Cur_Resp<***)

2 Female head of household is currently unavailable [Enumerator: *schedule a call back to the female head of household*]

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>select_resp4<****)*

>select_resp3< ***"Then, may I please speak to the male head of household?"***

1 Male head of household comes to the phone (*go to* ***>Cur_Resp<***)

2 Male head of household is currently unavailable [Enumerator: *schedule a call back to the male head of household]*

3 Requested Respondent will never be available, moved/died, etc. *(go to* ***>select_resp4<****)*

>select_resp4< ***"Is there another adult household member I may speak with?"***

1 Other adult respondent comes to the phone (*go to* ***>Cur_Resp<***)

3 No other adult household member is available *(go to* ***>hh_end1<****)*

-- When an appropriate respondent (female or male head of household) has come to the phone begin the CATI interview --

>Cur_Resp< *[Enumerator: Who is the current respondent?]*

1 Female head of household
3 Male head of household

>Who_Pi< "LAST INTERVIEW RESPONDENT: >Respondent<. *Who is the current respondent? Enter name"*

_____

>same_resp< *[Enumerator: Is this the same person as the last interview respondent?*
Current Respondent is: ***>Who_Pi<***
Last Respondent was ***>Respondent<****]*

1 Yes
3 No
9 Unknown

>int_ProgNote< *[Programming Note:*
>Number17< = 0
>Child17< = " "
If ***>same_resp<*** = *1*
>Who_Pi2< = *"you"*
>he_she1< = *"you"*
Else
>Who_Pi2< = ***>Respondent<***
*If (****>WhoIsResp<*** = *1)*
>he_she1< = *"she"*
Else
>he_she1< = *"he"*
End If
End If]

>Intro< "Hello, this is >EnumName< calling for the >StateName< Agricultural Statistics Service. I am calling to conduct the next interview for the project we are conducting with the University of Minnesota about farming and ranching activities and injuries. As you know, your household is a participant in this project and the results from the project will be used to develop injury prevention programs that can benefit all households. You are still eligible for the drawing for a $100 U.S. Savings Bond (Series EE) that we told you about in the letter and during the previous interview. *[ENUM: Refer to Appendix IV to answer questions about the Savings Bonds.]*

4 Continue

>FU_ProgNote1< *[Programming Note:*
*IF (****>No2ndInj<*** *> 0)*
go to ***>FU_Intro3<***
ELSE
go to ***>FU_Intro2<***
END IF]

>FU_Intro2< We would like to conduct the interview now, to obtain updated information about members of your household and your farming or

ranching activities >Time6Label<. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer that question, and we will move on to the next question. Is this a convenient time?

2 Yes *(go to **>monitoring<**)*
6 No, not a convenient time *(go to **>call_you<**)*
12 Refusal *(go to **>reconsider1<**)*

>FU_Intro3< We would like to conduct the interview now, to obtain updated information about members of your household, your farming or ranching activities and the problems or consequences of injuries that >Who_Pi2< reported for your household members during the second six months of 2007. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer, and we will move on to the next question. Is this a convenient time?

2 Yes *(go to **>monitoring<**)*
3 No, not a convenient time *(go to **>call_you<**)*
10 Refusal *(go to **>reconsider1<**)*

>Monitoring< "For quality control purposes, my supervisor may monitor this call."

1 *Continue*

>cards< "We recently mailed you an interview information packet containing two letters and a set of colored forms. It would be helpful if you had the forms in front of you as we speak. Do you have them available?"

3 Yes *(go to **>b_enterpr0<**)*
5 No *(go to **>getcards<**)*

>getcards< "Can you get the forms?"

3 Yes *(go to **>b_enterpr0<**)*
5 No *(go to **>proceed<**)*

>proceed< "We can proceed with the interview anyway. May we continue?"

3 Yes *(go to **>b_enterpr0<**)*
5 No (*go to **>call_you<***)

****

Operation Questions

>b_enterpr0< "In which of these farming or ranching enterprises was your operation involved between >Time6Window<? Please wait until I finish reading the entire list, then tell me all that apply." *[Enumerator: READ the list and enter the first three REPORTED]*

1 Beef cattle
2 Dairy cattle
3 Poultry
4 Swine
5 Sheep
6 Other animals (example: horses, etc.)
7 Crops (Field, forage or specialty crops)
8 CRP (Conservation Reserve Program) or Set-aside program
9 Other (specify)
98 Unknown ***>b_acres<)***
99 Refused ***>b_acres<)***

>ProgNote1< *[Programming note: If any of the codes entered in **>b_enterpr0<** is 9 go to **>b_enterpr0_spec<**, ELSEIF only 1 code is entered go to **>b_acres<**, ELSE go to **>b_enterpr1<**]*

>b_enterpr0_spec<"Please specify the other enterprise" _____

>b_enterpr1< "Which ONE of those enterprises required the MOST amount of WORK TIME?"

1 Beef cattle *(go to **>b_acres<**)*
2 Dairy cattle *(go to **>b_acres<**)*
3 Poultry *(go to **>b_acres<**)*
4 Swine *(go to **>b_acres<**)*
5 Sheep *(go to **>b_acres<**)*
6 Other animals (example: horses, etc.) *(go to **>b_acres<**)*
7 Crops (Field, forage or specialty crops) *(go to **>b_acres<**)*
8 CRP (Conservation Reserve Program) or Set-aside program *(go to **>b_acres<**)*
9 Other (specify) *(go to **>b_enterpr_spec<**)*
98 Unknown *(go to **>b_acres<**)*
99 Refused *(go to **>b_acres<**)*

>b_enterpr_spec< "Please specify the other enterprise" _____

>b_acres< "Between >Time6Window<, of the acres that you own, plus the acres that you rent or lease from someone else, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs." *[Enumerator: Zero is allowed. If 1 acre or less, enter 1. Acceptable answers = 0 – 75,000; Unknown = 99998; Refusal = 99999]*

0 None
1 1 or less
___ 2 – 75,000
99998 Unknown
99999 Refused

Initial Household Questions

>e_ProgNote1a< *[Programmer's Note: Much of the interview is skipped for those with 2nd 6 month injury follow-up only. These associated skips will appear in instrument, labeled as* ***>e_ProgNote1a<*** *&* ***>e_ProgNote1b<****:*

IF (CaCo = 2)
go to ***>get_gold<***
ELSE
go to ***>b_any_mwork_intro<***
END IF]

>b_any_mwork_intro< "The following questions are about time any household members spent caring for children in your household (currently less than 22 years of age) because of injuries, illnesses or mental and physical health conditions, from >Time6Window2<."

1 *Continue*

>b_anym_f_work< "Did any household members miss days of work or chores <u>related to your farming or ranching operation</u>, due to a child's injuries, illnesses or health conditions?"

1 Yes
3 No
8 Unknown
9 Refused

>b_anym_nf_work< "Did any household members miss days of work <u>not related to your farming or ranching operation,</u> due to a child's injuries, illnesses or health conditions?"

1 Yes
3 No
8 Unknown
9 Refused

>b_anym_o_work< "Were any household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for a child, due to the child's injuries, illnesses or health conditions?"

1 Yes
3 No
8 Unknown
9 Refused

>b_ProgNote1a< *[Programming Note: If* ***>b_anym_f_work<*** *= 1 or* ***>b_anym_nf_work<*** *= 1 or* ***>b_anym_o_work<*** *= 1 SET* ***>b_anym_work<*** *= 1, ELSE SET* ***>b_anym_work<*** *= 3]*

>b_any_health_intro< "The following questions are about the health services used by children in your household (currently less than 22 years of age), from >Time6Window2<."

1 *Continue*

>b_any_hosp1< "Were any of the children in your household admitted as patients for at least one night in a hospital?"

1 Yes
3 No
8 Unknown
9 Refused

>b_any_er1< "Did any of the children in your household go to a hospital emergency room? (Do not include emergency room visits that preceded hospital admission)"

1 Yes
3 No
8 Unknown
9 Refused

>b_any_hcp1< "Did any of the children in your household visit a doctor or other health care provider or receive a health care treatment? (Do not include overnight hospital stays or emergency room visits.)"

1 Yes
3 No
8 Unknown
9 Refused

>b_ProgNote1b< *[Programming Note: If **>b_any_hosp1<** = 1 or **>b_any_er1<** = 1 or **>b_any_hcp1<** = 1 SET **>b_any_hc<** = 1, ELSE SET **>b_any_ hc<** = 3]*

Household Interview

>get_gold< "The next set of questions is about the people who were identified as members of your household AS OF JANUARY 1, 2007. This includes those living in your household now, and anyone who may have moved out since January 1st of 2007 or passed away since >FirstDateMinus<, students away at college, and children who reside in multiple households, including yours.

1 *Continue*

>hh_log< "Now I will ask some basic questions about each member of your household."

1 *Continue*

>hh_ProgNote3< *[Programming Note: The program loops through the subjects in the household from j = 1 thru **>totinfarm<**, without those reported as deceased in the last interview. AT END go to **>chProgNote0<**}*

>hh_ProgNote3a< *[Programming Note:*

*If (**>same_resp<** = 1)*
* **>b_self_relat<** = **>self_relat<***
* go to **>hh_ProgNote3b<***
Else
* go to **>b_self_relat<***
ENDIF

>b_self_relat< "What is ">first_name<"'s relationship TO YOU?"

1 Self (respondent)
2 Spouse / Life partner
3 Child (son/daughter: includes step-children of respondent)
4 Sibling (includes half & step-brothers & sisters)
5 Parent (respondent's parent)
6 Other family
7 Non-family
8 Unknown
9 Refused

>hh_ProgNote3b< *[Programming Note:*

***>Was_is<** = "is"*
***>Was_were<** = "was"*
***>aget<** = 999*
>b_lt20<** = **>lt20<
>b_lt18<** = **>lt18<
*If (**>b_self_relat<** = 1))*
* **>Your_name's<** = "your"*
* **>Title<** = "you"*
* **>Was_were<** = "were"*
* **>hh_moved<** = 1 (Yes)*
* **>he_she<** = "you"*
* **>him_her<** = "you"*
* **>his_her<** = "your"*
* **>CHas_Have<** = "Have"*
* **>has_have<** = "have"*
* Go to **>hh_ProgNote4<***
Else
* **>Your_name's<** = "**>first_name<**'s"*
* **>Title<** = **>first_name<***
* **>CHas_Have<** = "Has"*
* **>has_have<** = "has"*
* If (**>gender<** = 1)*
*   **>he_she<** = "he"*
*   **>him_her<** = "him"*
*   **>his_her<** = "his"*
* Else if (**>gender<** = 3)*
*   **>he_she<** = "she"*
*   **>him_her<** = "her"*
*   **>his_her<** = "her"*

Else
>he_she< *= "they"*
>him_her< *= "them"*
>his_her< *= "their"*
End if
Endif]

>FU_ProgNote2< *[Programming Note:*
*IF (**>status1<** = 2)*
>stat< *=* ***>stat1<***
go to ***>FU_return<***
*ELSE IF (**>status1<** = 3)*
>stat< *=* ***>stat2<***
go to ***>FU_return<***
ELSE
go to ***>hh_moved<***
END IF]

>FU_return< "In the last interview, we were told that >first_name< >stat<. Did >he_she< live in your household at any time between >Time6Window<?"

3 Yes (*go to* ***>FU_month_return<***)
5 No (*go to* ***>hh_Prognote4<***)

>FU_month_return< "In what month did >he_she< return?" ____

>FU_day_return< "On what day of the month?" *[Enumerator: Valid dates are 1 to 31. Unknown = 98; Refused = 99]* ____

>hh_moved< "Did >first_name< live in your household as of >LastDate<?" *[People on vacation on >LastDate< are considered to be living in the household.]*

2 Yes (*go to* ***>hh_ProgNote4<***)
4 No (*go to* ***>FU_Prognote3<***)

>FU_ProgNote3< *[Programming Note:*
*IF (**>FirstResp<** = 3)*
go to ***>hh_other1<***
ELSE
go to ***>hh_other2<***
END IF]

>hh_other1< "Did >first_name< move or pass away between >Time12Window<?

5 Moved– includes those who left for school or to live in another household, whether temporarily or permanently *(go to* ***>month_left<****)*
6 Passed away *(go to* ***>month_left<****)*
5 Not living in Household at any time during this period *(go to* ***>hh_ProgNote4<****)*

>hh_other2< "Did >first_name< move or pass away between >Time6Window<?

4 Moved– includes those who left for school or to live in another household, whether temporarily or permanently *(go to **>month_left<**)*
5 Passed away *(go to **>month_left<**)*
6 Not living in Household at any time during this 6 months *(go to **>hh_ProgNote4<**)*

>month_left< "In what month did this occur?" ____

>day_left< "On what day of the month?" *[Enumerator: Valid dates are 1 to 31. Unknown = 98; Refused = 99]* _____

>hh_ProgNote4< *[Programming Note:*

*If **>dob<** missing*
*go to **>b_dob<***
Else
>b_dob< = ***>dob<***
>b_age< = ***>age<***
>aget< = trunc((({Today's date} - **>dob<**])/365.25),0)
*If (**>b_age<** <20)*
>b_lt20< *= 1*
Else
>b_lt20< *= 3*
Endif
*If(**>aget<*** *< 18)*
>b_lt18< *= 1*
Else
>b_lt18< *= 3*
Endif
*go to **>hh_ProgNote6b<***
Endif]

>b_dob< "What >was_is< >Your_name's< birthdate? (MM/DD/YYYY)"
[Enumerator: For Don't Know, press F5. For Refusal press F6.]

___/___/_____

>hh_ProgNote4a< *[Programming note:*

*If (**>b_dob<** unknown or refused)*
*If (**>age<** missing)*
*go to **>b_age<***
Else
>b_age< = ***>age<***
>aget< = ***>age<*** + *1*
Endif
Else
>b_age< = trunc((({01/01/2007} - >**b_dob<**])/365.25),0)
>aget< = trunc((({Today's date} - **>b_dob<**])/365.25),0)
Endif
*If (**>b_age<*** *<20)*

>b_lt20< *= 1*
Else
>b_lt20< *= 3*
Endif
*If(**>aget<*** *< 18)*
>b_lt18< *= 1*
Else
>b_lt18< *= 3*
Endif
*go to **>hh_ProgNote6b<]***

>b_age< "What was >his_her< age on January 1, 2007?" *[Enumerator: For Don't Know, press F5. For Refusal, press F6.]*

____ 0-110 Years
F5 Unknown (go to ***>b_lt20<***)
F6 Refused (go to ***>b_lt20<***)

>hh_ProgNote6a< [Programming Note:

>aget< = ***>b_age<*** + *1*

*If (**>b_age<*** *<20)*
>b_lt20< *= 1*
Else
>b_lt20< *= 3*
Endif
*If(**>aget<*** *< 18)*
>b_lt18< *= 1*
Else
>b_lt18< *= 3*
Endif
*go to **>hh_ProgNote6b<]***

>b_lt20< ">Was_were< >Title< less than 20 years of age on January 1, 2007?"

1 Yes
3 No
8 Unknown
9 Refused

>hh_ProgNote6b< *[Programming Note: Don't collect further information on individuals who were not in residence during the 6 mo. period.*

*If (**>hh_other1<*** *= 3 or **>hh_other2<*** *= 3 or **>FU_return<*** *= 3)*
*go to **>hh_next_member<***
Else

*If (**>b_lt20<** = 1 or **>b_lt20<** = 8 or **>b_lt20<** = 9) go to **>b_lt18<** ELSE go to **>hh_ProgNote6b2<**)*

>b_lt18< ">Was_were< >he_she< less than 18 years of age on >FirstDate<?"

1 Yes (go to ***>hh_ProgNote6b2<***)
3 No (go to ***>hh_ProgNote6c<***)
8 Unknown (go to ***>hh_ProgNote6b2<***)
9 Refused (go to ***>hh_ProgNote6b2<***)

>hh_ProgNote6b2< If (**>b_self_relatn<** = 1 and (**>aget<** < 18 or **>b_lt18<** eq 1 or **>b_lt18<** = 8 or **>b_lt18<** = 9)) print the following error message and schedule a callback to an adult. Error message:

"Warning – According to the relationship and birthdate/age information you have entered, the person you are interviewing may be too young! Please correct this information if it is in error, or explain that we cannot interview individuals who were under 18 years of age (as of July 1st) without prior parental permission and schedule a callback." *(go to **>b_dob<**)*

End if]

>hh_ProgNote6c< *[Programming Note: Don't collect information on individuals born after January 1st, 2007: If **>b_age<** < 0 (born in 2007), verify **>b_dob<**, then **>hh_next_member<**, Else. go to **>b_ProgNote6d<**.]*

>b_ProgNote6d< *[Programming Note: We need to determine how many HH members are CURRENTLY < 17 and if there is only one, who it is, so (if there's more than one it won't matter if we overwrite the >Child17< field, because we won't use it):*

*IF ((**>aget<** < 18 or **>b_lt18<** = 1) AND **>b_self_relat<** > 2)*
THEN
>Number17< = ***>Number17<*** + 1
>Child17< = ***>Your_name's<***
End If

*go to **>e_ProgNote1b<**]*

>e_ProgNote1b< *[Programmer's Note: For those with 2nd 6 mo. injury follow-up only:*

IF (CaCo = 2)
go to ***>hh_next_member<***
ELSE
go to ***>hh_ProgNote6d<***
END IF]

>hh_ProgNote6d< *[Programming Note: If* ***>hh_moved<*** *= 3 go to* ***>leadin<****, Else. go to* ***>FU_ProgNote4<****.]*

>leadin< "I'd like to ask you some questions about >first_name< even though >he_she< was not living with you as of >LastDate<."

1 *Continue*

>FU_ProgNote4< *[Programming note: If (****>aget<*** *< 16 go to* ***>b_insurance<****]*

>FU_married< "As of >LastDatePlus<, what was >Your_name's< marital status? I'll read you a list of marital status categories and would like you to stop me when I reach the correct one."

13 Married
14 Living as married
15 Never married
16 Widowed
17 Separated
18 Divorced
12 Unknown
13 Refused

>b_insurance< ">Was_were< >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from >Time6Window2<?"

4 Yes, all of that time *(go to* ***>b_type_ins<****)*
6 Yes, part of that time *(go to* ***>b_mo_ins<****)*
8 No, none of that time *(go to* ***>b_ProgNote10<****)*
14 Unknown *(go to* ***>b_ProgNote10<****)*
15 Refused *(go to* ***>b_ProgNote10<****)*

>b_mo_ins< "During that period, for how many months DID >Title< have health care coverage?"

6 None
7 1 or less
___ 2 – 6 months
14 Unknown
15 Refused

>b_type_ins< "Please tell me ALL of the following types of insurance under which >Title< >was_were< covered?" *[Enumerator: Read list and enter ALL*

that apply. Also, if >Title< is covered by insurance carried by a parent not living in this household, please classify it using the options below.]

25 A medical plan <u>purchased by</u> your own operation
26 A medical plan <u>purchased by</u> your household (this includes COBRA coverage)
27 A medical plan provided by an employer, with or without an employee copay (this includes military insurance) [*Enumerator: This doesn't have to be the individual's employer. It could the employer of any parent or guardian, even a non-custodial parent or guardian.*]
28 Medicare with a supplimental policy
29 Medicare without a supplimental policy
30 A Medicare HMO
31 Medicaid, Medical Assistance or any other state or federally subsidized medical plan, such as *>program<*
32 Something else
102 Unknown
103 Refused

>hh_ProgNote9< *[Programming note: If any of the codes entered in* ***>type_ins<*** *is 8, go to* ***>b_type_ins_specify<****; else go to* ***>b_intro_work<****]*

>b_type_ins_specify< "Please specify the other insurance." _____

>b_ProgNote10< *[Programming note: If (****>aget<*** *< 20 go to* ***>b_grade<****]*

>b_yrs_school< "As of >LastDatePlus<, what was the highest grade in school >Title< completed?"

10 Less than kindergarten (includes pre-school & no school) *(go to* ***>b_intro_work<****)*
11 Eighth grade or less (includes kindergarten) *(go to* ***>b_intro_work<****)*
12 Some high school *(go to* ***>b_intro_work<****)*
13 High school graduate or GED *(go to* ***>b_intro_work<****)*
14 Some technical school *(go to* ***>b_intro_work<****)*
15 Technical school graduate *(go to* ***>b_intro_work<****)*
16 Some college *(go to* ***>b_intro_work<****)*
17 College graduate *(go to* ***>b_intro_work<****)*
18 Post graduate/Professional school (graduate school, medicine, law, etc.) *(go to* ***>b_intro_work<****)*
19 Other
100 Unknown *(go to* ***>b_intro_work<****)*
101 Refused *(go to* ***>b_intro_work<****)*

>b_yrs_school_specify< "Please specify the other schooling." _____ *(go to* ***>b_intro_work<****)*

>b_grade< "During >LastMonth<, including pre-school, what was >*Your_name's*< grade in school? If >Title< didn't go to school that month, what grade had >he_she< last attended?"

0 Pre-school/Kindergarten
____ 1–11 (1st-11th Grade)
12 High School Sr. (not graduate) *[Enumerator: Probe for grad./GED status]*
19 High school graduate or GED
20 Some technical school
21 Technical school graduate
22 Some college
23 College graduate
97 N/A – *Never* attended school *(go to **>b_height_feet<**)*
98 Unknown
99 Refused

>e_ProgNote1< *[Programming note: If (**>Eval<** = 1 or **>Eval<** = 3 go to **>e_school_miss2<**]*

>b_school_miss< "From the time school started in >SchoolLabel<, until the end of December, how many regular school days did >Title< miss?" *[Enumerator: For any reason, not just illness or injury.*
Acceptable answers: 0 to 125. 997 = N/A – Did not attend school (i.e. Not registered; 998 = Unknown; 999 = Refused]

0 None *(go to **>b_school_rate<**)*
__ 001 - 125 days *(go to **>b_school_rate<**)*
997 Did not attend school (i.e. Not registered) *(go to **>b_height_feet<**)*
998 Unknown *(go to **>b_school_rate<**)*
999 Refused *(go to **>b_school_rate<**)*

>e_school_miss2< "From the time school started following the holiday break in >SchoolLabel<, until the end of June, how many regular school days did >Title< miss?" *[Enumerator: For any reason, not just illness or injury.*
Acceptable answers: 0 to 125. 997 = N/A – Did not attend school (i.e. Not registered; 998 = Unknown; 999 = Refused]

0 None *(go to **>b_school_rate<**)*
__ 001 - 125 days *(go to **>b_school_rate<**)*
997 Did not attend school (i.e. Not registered) *(go to **>b_height_feet<**)*
998 Unknown *(go to **>b_school_rate<**)*
999 Refused *(go to **>b_school_rate<**)*

>b_school_rate< "During that same period, how would you rate >Your_name's< school performance? Was it excellent, above average, average, below average or not satisfactory?"

1 Excellent *(go to **>b_height_feet<**)*
2 Above average *(go to **>b_height_feet<**)*
3 Average *(go to **>b_height_feet<**)*
4 Below average *(go to **>b_height_feet<**)*
5 Not satisfactory *(go to **>b_height_feet<**)*
6 Other
8 Unknown *(go to **>b_height_feet<**)*
9 Refused *(go to **>b_height_feet<**)*

>b_school_specify< "Please specify other."

_____

>b_height_feet< "What is >his_her< approximate height?

In FEET" *[Enumerator: Acceptable values are 1 to 7. Unknown = 8. Refusal = 9.]*

__ 1-7
8 Unknown
9 Refused

>b_height_inches< "and INCHES" *[Enumerator: Acceptable values are 1 to 11.99. Unknown = 98. Refusal = 99.]*

____ 0-11.99
98 Unknown
99 Refused

>b_weight< "What is >Your_name's< approximate weight? (in pounds)" *[Enumerator: Acceptable values are 1 to 500. Unknown = 998. Refusal = 999.]*

____ 1-500
998 Unknown
999 Refused

>b_intro_work< "Between >Time6Window<, how many months did >Title< work or do chores in any activity related to your farming or ranching operation?"

0 None *(go to **>b_ProgNote10b<**)*
___ 1 – 6 months
12 Unknown *(go to **>b_ProgNote10b<**)*
13 Refused *(go to **>b_ProgNote10b<**)*

>b_wk_f_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>b_hrs_f_1< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers: 0-130. Unknown = 998. Refused = 999.]*

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>b_ProgNote10b< *[Programming note: If **>aget<** < 12 go to **>b_stress1<**]*

>b_intro_nf_work< "Between >Time6Window<, how many months did >*Title*< do any paid work that was not related to your own operation?" *[Enumerator: This can include regular full or part-time jobs, as well as babysitting, lawnmowing, newspaper delivery, work on other farms, etc.]*

0 None *(go to **>b_stress1<**)*
___ 1 – 6 months
8 Unknown *(go to **>b_stress1<**)*
9 Refused *(go to **>b_stress1<**)*

>b_type_nf_work< "During that time, what was >Your_name's< primary job or occupation?"

Specify: _____

>b_wks_nf_1< "During that time, in an average working month how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?" *[Enumerator: For whole month enter 4 weeks. Acceptable answers = 0 – 4. Unknown = 8. Refused = 9.]*

0 < 1 week
__ 1 – 4 weeks
8 Unknown
9 Refused

>b_hrs_nf_1< "For those weeks, on average, how many HOURS PER WEEK?" *[Enumerator: Acceptable answers: 0-130. Unknown = 998. Refused = 999.]*

0 < 1 hour
___ 1 – 130 hours
998 Unknown
999 Refused

>b_stress1< "During the past four weeks, on a scale of 0 to 10, where 0 means "not stressful" and 10 means "extremely stressful", how stressful did you feel life was for >Title<?" *[Enumerator: Acceptable answers = 0 (Not stressful) → 10 (Extremely stressful). Unknown = 98. Refused = 99.]*

0 Not stressful
10 Extremely stressful
98 Unknown
99 Refused

>b_prior_limit< "Does/do >Title< currently have any limitations, including pain, discomfort, or restricted activity, as a result of an injury, illness or other medical condition?"

1 Yes
3 No *(go to **>b_prior_health<**)*
8 Unknown *(go to **>b_prior_health<**)*
9 Refused *(go to **>b_prior_health<**)*

>b_limit_inj< "Are any of these limitations the result of an injury?"

1 Yes
3 No *(go to **>b_sev_limit<**)*
8 Unknown *(go to **>b_sev_limit<**)*
9 Refused *(go to **>b_sev_limit<**)*

>b_inj_rel_f< "Were any of those injuries related to agricultural work?"

1 Yes
3 No
8 Unknown
9 Refused

>b_sev_limit< "How long >Have_has< >Title< experienced these limitations?"

____ Years; ____ Months; ____ Days (**>b_sev_limit_yr<**, **>b_sev_limit_mo<**, **>b_sev_limit_day<**)

>b_prior_health< "Does/do >Title< have any of the following health or medical problems, which have been diagnosed at ANY TIME by a physician, chiropractor, or other health care provider?"

1 *Continue*

>b_asthma< "Asthma or other respiratory problems?"

1 Yes
3 No
8 Unknown
9 Refused

>b_heart< "Heart-related problems?"

1 Yes
3 No
8 Unknown
9 Refused

>b_diabetes< "Diabetes?"

1 Yes
3 No
8 Unknown
9 Refused

>b_hearing< "Hearing problems?"

1 Yes
3 No
8 Unknown
9 Refused

>b_vision< "Vision problems that are not corrected with lenses?"

1 Yes
3 No
8 Unknown
9 Refused

>b_prior_hlth_oth< "Anything else?"

_____

>hh_ProgNote11< *[Programming note:*

*IF(**>b_age<** < 5)*
*go to **>b_hui31<***
*ELSE IF (**>b_self_relat<** = 1)*
*go to **>b_hui_intro1<***
*ELSE IF (**>hh_other1<** = 1 or 2 or **>hh_other2<** = 1 or 2)*
*go to **>hh_next_member<***
ELSE
*go to **>b_hui_intro2<***
END IF]

>b_hui_intro1< "The next set of questions asks about various aspects of your health. When answering these questions we would like you to think about your health and your ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 4 weeks ago and recall the major events that you have experienced during this period. Please focus your answers on your abilities, disabilities and how you have felt during the past 4 weeks."

1 *Continue*

>b_hui_intro1a< "You may feel that the questions do not apply to you, but it is important that we ask the same questions of everyone. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about your abilities and feelings."

1 *go to* ***>b_enum1<***

>b_hui_intro2< "The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and ability to do things on a day-to-day basis, during the past 4 weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

1 *Continue*

>b_hui_intro2a< "You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

1 *Continue*<

>b_enum1< *[Enumerator: "For each question, read the entire sentence as written, emphasing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection."]*

1 *Continue*<

>b_hui1< "During the past 4 weeks, >has_have< >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

1 Yes *(go to* ***>b_hui4<****)*
3 No
8 Don't know
9 Refused

>b_hui2< ">CHas_Have< >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

1 Yes *(go to* ***>b_hui4<****)*
3 No
8 Don't know
9 Refused

>b_hui3< "During the past 4 weeks, >has_have< >Title< been able to see at all?"

1 Yes
3 No *(go to **>b_hui6<**)*
8 Don't know
9 Refused

>b_hui4< "During the past 4 weeks, >has_have< >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

1 Yes *(go to **>b_hui6<**)*
3 No
8 Don't know
9 Refused

>b_hui5< ">CHas_Have< >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

1 Yes *(go to **>b_hui6<**)*
3 No
8 Don't know/Didn't wear glasses or contact lenses
9 Refused

>b_hui6< "During the past 4 weeks, >has_have< >Title< been able to hear what is said in a group conversation with at least 3 other people without a hearing aid?"

1 Yes *(go to **>b_hui11<**)*
3 No
8 Don't know
9 Refused

>b_hui7< ">CHas_Have< >Title< been able to hear what is said in a group conversation with at least 3 other people with a hearing aid?"

1 Yes *(go to **>b_hui9<**)*
3 No
8 Don't know
9 Refused

>b_hui8< "During the past 4 weeks, >has_have< >Title< been able to hear at all?"

1 Yes
3 No *(go to **>b_hui11<**)*
8 Don't know
9 Refused

>b_hui9< "During the past 4 weeks, >has_have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room without a hearing aid?"

1 Yes *(go to **>b_hui11<**)*
3 No
8 Don't know
9 Refused

>b_hui10< ">CHas_Have< >Title< been able to hear what is said in a conversation with 1 other person in a quiet room with a hearing aid?"

1 Yes *(go to **>b_hui11<**)*
3 No
8 Don't know/Didn't wear a hearing aid
9 Refused

>b_hui11< "During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?"

1 Yes *(go to **>b_hui16<**)*
3 No
8 Don't know
9 Refused

>b_hui12< ">CHas_Have< >Title< been able to be understood partially when speaking with people who do not know >Title<?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui13< "During the past 4 weeks, >has_have< >Title< been able to be understood completely when speaking with people who know >Title< well?"

1 Yes *(go to **>b_hui16<**)*
3 No
8 Don't know
9 Refused

>b_hui14< ">CHas_Have< >Title< been able to be understood partially when speaking with people who know >Title< well?"

1 Yes *(go to **>b_hui16<**)*
3 No
8 Don't know
9 Refused

>b_hui15< "During the past 4 weeks, >has_have< >Title< been able to speak at all?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui16< "During the past 4 weeks, >has_have< >Title< been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?"

1 Yes *(go to **>b_hui24<**)*
3 No
8 Don't know
9 Refused

>b_hui17< ">CHas_Have< >Title< been able to walk around the neighborhood without difficulty and without help or equipment of any kind?"

1 Yes *(go to **>b_hui24<**)*
3 No
8 Don't know
9 Refused

>b_hui18< ">CHas_Have< >Title< been able to walk around the neighborhood with difficulty but without help or equipment of any kind?"

1 Yes *(go to **>b_hui24<**)*
3 No
8 Don't know
9 Refused

>b_hui19< "During the past 4 weeks, >has_have< >Title< been able to walk at all?"

1 Yes
3 No *(go to **>b_hui22<**)*
8 Don't know
9 Refused

>b_hui20< ">CHas_Have< >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?" *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

1 Yes
3 No
8 Don't know
9 Refused

>b_hui21< ">CHas_Have< >Title< needed the help of another person to walk?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui22< ">CHas_Have< >Title< needed a wheelchair to get around the neighborhood?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui23< ">CHas_Have< >Title< needed the help of another person to get around in the wheelchair?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui24< "During the past 4 weeks, >has_have< >Title< had the full use of both hands and ten fingers?"

1 Yes *(go to **>b_hui28<**)*
3 No
8 Don't know
9 Refused

>b_hui25< ">CHas_Have< >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No *(go to **>b_hui27<**)*
8 Don't know
9 Refused

>b_hui26< ">CHas_Have< >Title< needed the help of another person with some tasks, most tasks or all tasks?"

1 Some tasks
2 Most tasks
3 All tasks
8 Don't know
9 Refused

>b_hui27< ">CHas_Have< >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui28< "During the past 4 weeks, >has_have< >Title< been able to eat, bathe, dress and use the toilet without difficulty?"

1 Yes *(go to **>b_hui31<**)*
3 No
8 Don't know
9 Refused

>b_hui29< ">CHas_Have< >Title< needed the help of another person to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui30< ">CHas_Have< >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui31< "During the past 4 weeks, >has_have< >Title< been feeling happy or unhappy?"

1 Happy
2 Unhappy *(go to >hh_ProgNote11b<)*
8 Don't know
9 Refused

>hh_ProgNote11a< *[Programming note: IF* ***>b_self_relat<*** *= 1 go to* ***>b_hui32a<****, ELSE go to* ***>b_hui32b<****]*

>b_hui32a< "Would you describe yourself as having felt: ***>hh_ProgNote11c<***
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to* ***>b_hui34<****)*
2 b) somewhat happy *(go to* ***>b_hui34<****)*
8 Don't know *(go to* ***>b_hui34<****)*
9 Refused *(go to* ***>b_hui34<****)*

>b_hui32b< "Would you describe >Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?"

1 a) happy and interested in life *(go to* ***>hh_ProgNote11c<****)*
2 b) somewhat happy *(go to* ***>hh_ProgNote11c<****)*
8 Don't know *(go to* ***>hh_ProgNote11c<****)*
9 Refused *(go to* ***>hh_ProgNote11c<****)*

>hh_ProgNote11b< *[Programming note: IF* ***>b_self_relat<*** *= 1 go to* ***>b_hui33a<****, ELSE go to* ***>b_hui33b<****]*

>b_hui33a< "Would you describe yourself as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy *(go to* ***>b_hui34<****)*
2 b) very unhappy *(go to* ***>b_hui34<****)*
3 c) so unhappy that life was not worthwhile *(go to* ***>b_hui34<****)*
8 Don't know *(go to* ***>b_hui34<****)*
9 Refused *(go to* ***>b_hui34<****)*

>b_hui33b< "Would you describe >Title< as having felt:

a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?"

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don't know
9 Refused

>hh_ProgNote11c< *[Programming note: IF* ***>b_age<*** *< 5 go to* ***>b_hui41<****, ELSE go to* ***>b_hui34<****]*

>b_hui34< "During the past 4 weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?"

1 Yes
3 No *(go to* ***>b_hui37<****)*
8 Don't know
9 Refused

>b_hui35< "How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?"

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don't know
9 Refused

>b_hui36< "During the past 4 weeks, did >Title< feel <u>extremely</u> fretful, angry, irritable, anxious or depressed; to the point of needing professional help?"

1 Yes
3 No
8 Don't know
9 Refused

>b_hui37< "How would you describe >Your_name's< ability to remember things, during the past 4 weeks:

a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?"

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don't know
9 Refused

>b_hui38< "How would you describe >Your_name's< ability to think and solve day to day problems, during the past 4 weeks:

a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?"

1 a) able to think clearly and solveproblems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don't know
9 Refused

>b_hui39< ">CHas_Have< >Title< had any trouble with pain or discomfort, during the past 4 weeks?"

1 Yes
3 No *(go to **>b_hui41<**)*
8 Don't know
9 Refused

>b_hui40< "How many of >Your_name's< activities, during the past 4 weeks, were limited by pain or discomfort: none, a few, some, most, all?"

1 None
2 A few
3 Some
4 Most
5 All
8 Don't know
9 Refused

>b_hui41< "Overall, how would you rate >Your_name's< health during the past 4 weeks:

a) excellent
b) very good
c) good
d) fair
e) poor?"

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don't know
9 Refused

>b_global_life< "Using a scale of 0 to 10 where 0 means 'the worst possible life overall' and 10 means 'the best possible life overall', how would you rate >his_her< life, during the past 4 weeks?" *[Enumerator: Acceptable answers: 0 (Worst possible life) → 10 (Best possible life). Unknown = 98. Refusal = 99.]*

0 The worst possible life overall
10 The best possible life overall
98 Unknown
99 Refused

>b_ProgNote12< *[Programming note: IF (**>b_age<** < 20 or **>b_lt20<** = 1) go to **>b_ProgNote12a<**, ELSE go to **>hh_next_member<**]*

>b_ProgNote12a< *[Programming note: IF **>b_self_relat<** > 2 go to **>b_activity_intro<**, ELSE go to **>b_introduction16<**]*

>b_activity_intro< "The following questions are about >Your_name's< activities and characteristics during the past four weeks."

1 *Continue*

>b_develop< "On a scale of 0 to 10, where 0 means 'not well at all' and 10 means 'extremely well', compared to expected development for children this age, how well, overall, was >Title< doing in terms of social relationships, learning, play, chores or work?" *[Enumerator: Acceptable answers: 0 (Not well at all) → 10 (Extremely well). Unknown = 98. Refusal = 99.]*

0 Not well at all
10 Extremely well
98 Unknown
99 Refused

>b_concern< "On a scale of 0 to 10, where 0 means 'no concern' and 10 means 'extreme concern', rate your level of concern about >Title<?" *[Enumerator: Acceptable answers: 0 (No concern) → 10 (Extreme concern). Unknown = 98. Refusal = 99.]*

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>b_introduction16< "The next questions are about your perception of >*Your_name's*< behaviors or actions during the past four weeks. Choose the answer that best describes HOW OFTEN the following happened or WAS TRUE of >Title< during that month. Would you say that >he_she< ALMOST NEVER, SOMETIMES, OFTEN or ALMOST ALWAYS..."

>b_complete< "Completed >his_her< work or chores?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
7 N/A – No work or chores during the past four weeks
8 Unknown
9 Refused

>b_hard< "Worked hard?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
7 N/A – No work during the past four weeks
8 Unknown
9 Refused

>b_irritable< "Was irritable?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
8 Unknown
9 Refused

>b_sad< "Looked sad or down?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
8 Unknown
9 Refused

>b_energy< "Had low energy?"

1 Almost never
2 Sometimes
3 Often
4 Almost always
8 Unknown
9 Refused

>b_ProgNote12b< *[Programming note: IF* ***>b_self_relat<*** *> 2 go to* ***>b_introduction15<****, ELSE go to* ***>b_ProgNote12b2<****]*

>b_introduction15< "The next few questions ask about YOUR experience in strictness with >Title<. We recognize that parents differ in how strict they are with their children because of children's abilities at different ages.

During the past four weeks, how STRICT were you about the FOLLOWING: Not strict, somewhat strict, moderately strict or very strict?"

1 *Continue*

>b_strict1< "Knowing where >Title< was?"

1 Not strict
2 Somewhat strict
3 Moderately strict
4 Very strict
7 N/A
8 Unknown
9 Refused

>b_strict2< "Knowing who >he_she< was with when >he_she< was out?"

1 Not strict
2 Somewhat strict
3 Moderately strict
4 Very strict
7 N/A
8 Unknown
9 Refused

>b_concern_intro< "The next few questions are about YOUR level of comfort with >Your_name's< well-being during the past four weeks. On a scale of 0 to 10, where 0 means 'no concern' and 10 means 'extreme concern', to what degree were you worried or concerned by >Your_name's< …"

1 *Continue*

>b_concern1< "Physical health?" *[Enumerator: Acceptable answers: 0 (no concern) → 10 (extreme concern). Unknown = 98. Refusal = 99.]*

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>b_concern2< "Emotional health?" *[Enumerator: Acceptable answers: 0 (no concern) → 10 (extreme concern). Unknown = 98. Refusal = 99.]*

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>b_concern3< "Behavior?" *[Enumerator: Acceptable answers: 0 (no concern) → 10 (extreme concern). Unknown = 98. Refusal = 99.]*

0 No concern
10 Extreme concern
98 Unknown
99 Refused

>b_parent_time< "On a scale of 0 to 10, where 0 means 'not at all limited' and 10 means 'extremely limited', to what degree were you limited in the amount of time you had for your own needs, because of >his_her< physical or emotional health or behavior?" *[Enumerator: Acceptable answers: 0 (Not at all limited) → 10 (Extremely limited). Unknown = 98. Refusal = 99.]*

0 Not at all limited
10 Extremely limited
98 Unknown
99 Refused

>b_family_act< "On a scale of 0 to 10, where 0 means 'no interruption' and 10 means 'always interrupted', to what degree were various everyday family activities interrupted, as a result of >title<'s physical or emotional health or behavior?" *[Enumerator: Acceptable answers: 0 (No interruption) → 10 (Always interrupted). Unknown = 98. Refusal = 99.]*

0 No interruption
10 Always interrupted
98 Unknown
99 Refused

>b_ProgNote12b2< *[Programming note: IF **>anym_work<** = 3 go to **>b_ProgNote12b3<**, ELSE go to **>b_mwork_intro<**]*

>b_mwork_intro< "In the following questions, I will ask about the amount of time any household members spent caring for >Title< because of injuries, illnesses or mental and physical health conditions, from >Time6Window2<."

1 *Continue*

>b_ProgNote12b2a< *[Programming note: IF **>anym_f_work<** = 1 go to **>b_miss_f_work<**, ELSE go to **>b_ProgNote12b2b<**]*

>b_miss_f_work< "Did any household members miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injuries, illnesses or health conditions?"

1 Yes
3 No (*go to* ***>b_miss_nf_work<***)
8 Unknown (*go to* ***>b_miss_nf_work<***)
9 Refused (*go to* ***>b_miss_nf_work<***)

>b_miss_f_days< "About how many (8 hour) days were missed?" *[Enumerator: Acceptable answers: 0 for none or less than 1 day; 1 to 184 days. Unknown = 998. Refused = 999.]*

0 Less than one day
___ 1 – 184 days
998 Unknown
999 Refused

>b_substitute_f< "Did anyone else substitute for these household members when they missed work?"

1 Yes
3 No (*go to* ***>b_lost_f_income<***)
8 Unknown (*go to* ***>b_lost_f_income<***)
9 Refused (*go to* ***>b_lost_f_income<***)

>b_paid_f_hr< "About how much was paid in whole dollars for this help?" *[Enumerator: Unknown = 99998. Refused = 99999.]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_paid_f_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>b_lost_f_income< "About how much income did these household members lose in association with these lost work days?" *[Enumerator: Acceptable answers = 0 – 99997. Unknown = 99998. Refused = 99999.]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_ProgNote12b2b< *[Programming note: IF* ***>anym_nf_work<*** *= 1 go to* ***>b_miss_nf_work<****, ELSE go to* ***>b_ProgNote12b2c<****]*

>b_miss_nf_work< "Did any household members miss days of work not related to your farming or ranching operation, due to >Your_name's< injuries, illnesses or health conditions?"

1 Yes
3 No (*go to* ***>b_miss_o_work<***)
8 Unknown (*go to* ***>b_miss_o_work<***)
9 Refused (*go to* ***>b_miss_o_work<***)

>b_miss_nf_days< "About how many (8 hour) days were missed?" *[Enumerator: Acceptable answers: 0 for none or less than 1 day; 1 to 184 days. Unknown = 998. Refused = 999.]*

0 Less than one day
___ 1 – 184 days
998 Unknown
999 Refused

>b_substitute_nf< "Did anyone else substitute for these household members when they missed work?"

1 Yes
3 No (*go to* ***>b_lost_nf_income<***)
8 Unknown (*go to* ***>b_lost_nf_income<***)
9 Refused (*go to* ***>b_lost_nf_income<***)

>b_paid_nf_hr< "About how much was paid in whole dollars for this help?" *[Enumerator: Unknown = 99998. Refused = 99999.]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_paid_nf_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>b_lost_nf_income< "About how much income did these household members lose in association with these lost work days?" *[Enumerator: Acceptable answers = 0 – 99997. Unknown = 99998. Refused = 99999.]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_ProgNote12b2c< *[Programming note: IF* ***>anym_o_work<*** *= 1 go to* ***>b_miss_o_work<****, ELSE go to* ***>b_ProgNote12b3<****]*

>b_miss_o_work< "Were any household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for >Title<, due to >his_her< injuries, illnesses or health conditions?"

1 Yes
3 No (*go to* ***>b_ProgNote12b3<***)
8 Unknown (*go to* ***>b_ProgNote12b3<***)
9 Refused (*go to* ***>b_ProgNote12b3<***)

>b_miss_o_days< "About how many (8 hour) days were missed?" *[Enumerator: Acceptable answers: 0 for none or less than 1 day; 1 to 184 days. Unknown = 998. Refused = 999.]*

0 Less than one day
___ 1 – 184 days
998 Unknown
999 Refused

>b_substitute_o< "Was anyone else paid to substitute for these household members usual efforts with child care, home chores, or care of other family members?"

1 Yes
3 No (*go to* ***>b_ProgNote12b3<***)
8 Unknown (*go to* ***>b_ProgNote12b3<***)
9 Refused (*go to* ***>b_ProgNote12b3<***)

>b_paid_o_hr< "About how much was paid in whole dollars for this help?" *[Enumerator: Unknown = 99998. Refused = 99999.]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>b_paid_o_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>b_ProgNote12b3< *[Programming note: IF* ***>any_hc<*** *= 3 go to* ***>b_barriers<****, ELSE go to* ***>b_health_intro<****]*

>b_health_intro< "In the following questions I will ask about the health services used by >Title<, from >Time6Window2<."

1 *Continue*

>b_ProgNote12b3a< *[Programming note: IF **>b_any_hosp1<** = 1 go to **>b_hosp1<**, ELSE go to **>b_ProgNote12b3b<**]*

>b_hosp1< ">Was_were< >Title< admitted as a patient for at least one night in a hospital?"

1 Yes
3 No (go to >*b_er1*<)
8 Unknown (go to >*b_er1*<)
9 Refused (go to >*b_er1*<)

>b_hosp1a< "How many times?" *[Enumerator: Acceptable answers are: 1 – 10. Unknown = F5. Refused = F6.]*

____ 1 – 10
F5 Unknown
F6 Refused

>b_ProgNote12b3b< *[Programming note: IF **>b_any_er1<** = 1 go to **>b_er1<**, ELSE go to **>b_ProgNote12b3c<**]*

>b_er1< "Did >Title< go to a hospital emergency room? (Do not include emergency room visits that preceded a hospital admission)"

1 Yes
3 No (go to ***>b_hcp1<***)
8 Unknown (go to ***>b_hcp1<***)
9 Refused (go to ***>b_hcp1<***)

>b_er1a< "How many times?" *[Enumerator: Acceptable answers are: 1 – 10. Unknown = F5. Refused = F6.]*

____ 1 – 10
F5 Unknown
F6 Refused

>b_ProgNote12b3c< *[Programming note: IF **>b_any_hcp1<** = 1 go to **>b_hcp1<**, ELSE go to **>b_barriers<**]*

>b_hcp1< "Did >Title< visit a doctor or other health care provider or receive a health care treatment? (Do not include overnight hospital stays or emergency room visits.)"

1 Yes
3 No (go to ***>b_barriers<***)
8 Unknown (go to ***>b_barriers<***)
9 Refused (go to ***>b_barriers<***)

>b_hcp1a< "How many times?" *[Enumerator: Acceptable answers are: 1 – 20. Unknown = F5. Refused = F6.]*

____ 1 – 20
F5 Unknown
F6 Refused

>b_barriers< "At any time, from >Time6Window2<, >was_were< >Title< unable to get medical care, tests, or treatments that >he_she< or a doctor believed to be necessary?" *[Enumerator: Please specify.]*

_____

>b_ProgNote13< *[Programming note:*
***>b_hcevents<** = 0*
*IF (**>b_hosp1<** = 1) **>b_hcevents<** = **>b_hosp1a<***
*IF (**>b_er1<** = 1 AND **>b_er1a<** > **>b_hcevents<**) **>b_hcevents<** = **>b_er1a<***
*IF (**>b_hcp1<** = 1 AND **>b_hcp1a<** > **>b_hcevents<**) **>b_hcevents<** = **>b_hcp1a<**]*

>hh_next_member< "Now, let's talk about the next member of your household."

1 *go to **>hh_ProgNote3<***

****

Child Health Care Section Loop

>chProgNote0< *[Programming Note: If **>CaCo<** = 2 go to **>FU_ProgNote5<**, Else If **>b_any_hc<** = 1 go to **>i_next_member<**, ELSE go to **>FU_ProgNote5<**]*

>i_next_member< *[Programming Note: The program loops through the study subjects , for **>noinfarm<** = 1 to **>totinfarm<**; Then go to **>FU_ProgNote5<**. Identifiers carried forward for each member from the Household Log are **>Time6Window2<** **>Title<**, **>he_she<**, **>Your_name's<**, **>b_hcevents<**, **>b_hosp1a<**, **>b_er1a<** and **>b_hcp1a<**]*

>ch_ProgNote1< *[Programming Note: IF **>b_hcevents<** = 0 go to **>i_next_member<** ELSE go to **>ch_ProgNote2<**]*

>ch_ProgNote2< *[Programming Note: IF **>b_hosp1a<** = 0 go to **>ch_ProgNote4<** ELSE go to **>hosp_intro<**]*

>hosp_intro< "Now I'm going to ask some specific questions about the >b_hosp1a< hospitalization(s) >Title< had from >Time6Window2<."

1 Continue

>ch_ProgNote3< *[Programming Note: The program loops through the hospitalizations **>hosp2<** to **>hosp8<**, for **>cnt<** = 1 to **>b_hosp1a<**; Then go to **>ch_ProgNote4<**]*

>hosp2< "How many nights did >Title< stay in the hospital during hospitalization #>cnt<?"

0 Less than 1 full night
____ 1 – 184 nights
998 Unknown
999 Refused

>hosp3< "Did that hospital stay begin with a visit to an emergency room?"

1 Yes
3 No
8 Unknown
9 Refused

>hosp4< "Was the hospital stay related to an illness, injury or health condition associated with your farming or ranching operation?"

1 Yes
3 No
8 Unknown
9 Refused

>hosp5(4)< "What illnesses, injuries or health conditions were discovered or led >Title< to enter the hospital?" *[Enumerator: PROBE for any other conditions and enter up to 4.]*

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

>hosp6< "Which of the following categories best describes the reason >he_she< entered the hospital?"

1 Operation or surgical procedure
2 Treatment or therapy, not including surgery
3 Diagnostic tests only
4 Other (specify)
8 Unknown
9 Refused

>ProgNote12c< *[Programming Note: IF **>hosp6<** = 4 go to **>hosp6_spec<** ELSE go to **>ProgNote12b<**]*

>hosp6_spec< "Please specify - Other"

_____

>ProgNote12d< *[Programming Note: IF any of the codes entered in **>hosp<** = 1 go to **>hosp8<** ELSE go to **>hosp7<**]*

>hosp7< "Were any operations or surgical procedures performed on >Title< during that hospital stay?"

1 Yes
3 No *(go to next hospitalization **>ch_ProgNote3<**)*
8 Unknown *(go to next hospitalization **>ch_ProgNote3<**)*
9 Refused *(go to next hospitalization >ch_ProgNote3<)*

>hosp8(4)< "Please describe the operations or surgical procedures." *[Enumerator: PROBE for any other operations or surgical procedures and enter up to 4.]*

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

>next_hosp< "Now let's go to the next health care visit, if there is one."

1 *Continue (go to next hospitalization **>ch_ProgNote3<**)*

>ch_ProgNote4< *[Programming Note: IF **>b_er1a<** = 0 go to **>ch_ProgNote6<** ELSE go to **>er_intro<**]*

>er_intro< "Now I'm going to ask some specific questions about the >b_er1a< emergency department visit(s) >Title< had from >Time6Window2<."

1 *Continue*

>ch_ProgNote5< *[Programming Note: The program loops through the emergency department visits **>er2<** to **>er6<**, for **>cnt<** = 1 to **>b_er1a<**; Then go to **>ch_ProgNote6<**]*

>er2a< "Was emergency department visit #>cnt<related to an illness, injury or health condition associated with your farming or ranching operation?"

1 Yes
3 No
8 Unknown
9 Refused

>er2< "Was that visit related to any specific illness, accident or injury, or physical or mental health condition, or were any conditions discovered during that visit?"

1 Yes
3 No (go to **>er4<**)
8 Unknown (go to **>er4<**)
9 Refused (go to **>er4<**)

>er3(4)< "What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?" *[Enumerator: PROBE for any other conditions and enter up to 4.]*

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

>er4(5)< "Which of these services, if any, did >Title< have during that visit?" *[Enumerator: Read list and enter all that apply. Do not record surgical procedures here.]*

1 Laboratory tests
2 X-rays
3 MRI, CATSCAN, Sonogram or ultrasound
4 Other diagnostic test(s) (specify)
5 Other treatment (specify)
0 No services received
8 Unknown
9 Refused

>ProgNote12e< *[Programming Note: IF any of the codes entered in* ***>er4<*** *= 4 go to* ***>er4_spec4<*** *ELSE go to* ***>ProgNote12e2<****]*

>er4_spec4< "Please specify – Other diagnostic test(s)" _____ *(go to* ***>ProgNote12e2<****)*

>ProgNote12e2< *[Programming Note: IF any of the codes entered in* ***>er4<*** *= 5 go to* ***>er4_spec5<*** *ELSE go to* ***>er5<****]*

>er4_spec5< "Please specify – Other treatment" _____*(go to* ***>er5<****)*

>er5< "Was a surgical procedure performed on >Title< during that visit?"

1 Yes
3 No (go to next emergency department visit >ch_ProgNote5<)
8 Unknown (go to next emergency department visit >ch_ProgNote5<)
9 Refused (go to next emergency department visit >ch_ProgNote5<)

>er6< "Please describe the surgical procedure."

Description: _____

>next_er< "Now let's go to the next health care visit, if there is one."

1 *Continue (go to next* emergency department visit **>ch_ProgNote5<***)*

>ch_ProgNote6< *[Programming Note: IF **>b_hcp1a<** = 0 go to **>i_next_member<** ELSE go to **>hcp_intro<**]*

>hcp_intro< "Now I'm going to ask some specific questions about the >b_hcp1a< visit(s) >Title< made to doctors and other health care providers from >Time6Window2<."

1 *Continue*

>ch_ProgNote7< *[Programming Note: The program loops through the health care provider visits **>hcp5<** to **>hcp9<**, for **>cnt<** = 1 to **>b_hcp1a<**; Then go to **>i_next_member<**]*

>hcp5(8)< "Which category best describes the type of care >Title< received during visit #>cnt<?"

1 Well child exam or General check-up *(go to next visit >ch_ProgNote7<)*
2 Immunizations or shots *(go to next visit >ch_ProgNote7<)*
3 Diagnosis or treatment
4 Follow-up or post-operative visit
5 Other care (specify)
8 Unknown
9 Refused

>ProgNote12i< *[Programming Note: IF **>hcp5<** = 11 go to **>hcp5_spec<** ELSE go to **>hcp2<**]*

>hcp5_spec< "Please specify – Other care
"_____"

>hcp2(4)< "In which of these places did that visit take place?"

1 Walk-in or Urgent care center
2 Doctor's office or Clinic
3 Free-standing surgical center
4 Some other place (specify)
8 Unknown
9 Refused

>ProgNote12f< *[Programming Note: IF >hcp2< = 4 go to >hcp2_spec< ELSE go to >hcp6<]*

>hcp2_spec< "Please specify – Other place"
_____

>hcp6< "Was the visit related to an illness, injury or health condition associated with your farming or ranching operation?"

1 Yes
3 No
8 Unknown
9 Refused

>hcp7(4)< "What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?" *[Enumerator: PROBE for any other conditions and enter up to 4.]*

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

>next_hcp< "Now let's go to the next health care visit, if there is one."

1 *Continue (go to next hcp visit **>ch_ProgNote7<**)*

Short-term Injury Consequences Follow-up

>FU_ProgNote5< *[Programming note: IF any injuries were reported in the 2nd 6 mo. injury interview, conduct the Second Six Month Injury Followup Interview, OTHERWISE skip to the last few Operation Questions…*

*IF (**>No2ndInj<** = 0)*

*go to **>oper_intro<***

ELSE

*go to **>FUI_next_member<***

END IF

>FUI_next_member< *[Programming Note: The program loops through the study subjects , for **>noinfarm<** = 1 to **>totinfarm<**. Identifiers carried forward for each member from the Household Log are **>InjIntDate<**, **>Title<**, **>Your_name's<**, **>he_she<**, **>his_her<**, **>was_were<**, **>Origtotal_injuries<**, **>b_age<**, **>Time6Window<**. IF **>Origtotal_injuries<** = 0, go to next study subject, ELSE go to **>FUI_Intro1<**. When there are no more members go to **>oper_intro<**.]*

>FUI_Intro1< "The next questions are about continued problems or consequences of accidents and injuries that occurred to >Title< during the last 6 months of 2007.

1 *Continue*

>FUI_Intro1b< "When we talked with your household on >InjIntDate<, it was reported that >Title< had >total_injuries< injuries total, between July 1st and December 31st, 2007.

I will now ask you about problems or consequences of these injuries, since we last talked with your household on >InjIntDate<."

1 *Continue*

>FUI_next_event< *[Programming Note: The program loops through the injury events for that study subject, for* ***>InjNum<*** *= 1* ***to >Origtotal_injuries<****. When there are no more events go to* ***>FUI_next_member<****.]*

If ***>InjNum<*** = 1 go to ***>FUI_ProgNote1<*** ELSE *Continue]*

"Now let's go to the next event for >Title<."

1 *Continue*

>FUI_ProgNote1< *[Programming Note:*
*IF (****>InjDate<*** *not missing)*
>in_on< *= "on"*
*ELSE IF (****>InjMonth<*** *not missing)*
>in_on< *= "in"*
*ELSE IF (****>InjSeason<*** *not missing)*
>in_on< *= "during the"*
ELSE
>in_on< *= ""*
END IF]

>FUI_Intro1c< **"**Now I will be asking about the >InjNum< injury >Title< experienced between between July 1, 2007 and December 31, 2007."

1 *Continue*

>FUI_Intro2< "The following questions are about the injury >Title< experienced **>in_on< >InjWhen<** associated with **>InjSource1< >InjSource2<**, in or around '**>InjWhere<**', involving **>his_her< >InjPart1<>InjPart2<>InjPart3<>InjPart4<>InjPart5<>InjPart6<**."

1 *Continue*

>FUI_restrict< "Since we last talked with your household, on >InjIntDate<, as a result of this injury, HOW LONG were normal activities restricted? Normal activities are the things a person would ordinarily do on any given day."

0 No restriction *(go to* ***>FUI_care1<****)*
1 0 to less than 4 hours
2 4 hrs to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown *(go to* ***>FUI_care1<****)*
9 Refusal *(go to* ***>FUI_care1<****)*

>FUI_symptoms< "At the present time, are there any PERSISTENT or CONTINUED problems or symptoms related to this injury, including things such as numbness, pain, weakness, or some type of impairment?"

1 Yes
3 No *(go to **>FUI_care1<**)*
8 Unknown *(go to **>FUI_care1<**)*
9 Refusal *(go to **>FUI_care1<**)*

>FUI_symptoms2*i*< *(i = a to f)* "What parts of the body are affected?"

101 Head / Skull
102 Brain
103 Face (Forehead, Cheek, Nose, Lip, Chin, Ear)
104 Eye / Eyelid
105 Dental / Tooth
106 Neck (Cervical area)
107 Spinal cord / Spine (Vertebrae, Sacrum, Tailbone / Coccyx, Discs)
108 Back (muscles/skin)
109 Internal chest (Ribs, Heart, Lung, Bronchial, Esophagus, Diaphragm)
110 External chest (Skin)
111 Internal abdomen (Stomach, Liver, Kidney, Gall bladder, Intestines, Appendix, Spleen, Pancreas)
112 External abdomen (Skin)
113 Shoulder / Collar bone / Shoulder blade
114 Arm / Elbow / Wrist / Carpal tunnel
115 Hand
116 Finger (s) / Thumb (s)
117 Internal hips / Pelvis (Uterus, Ovaries, Bladder, Rectum)
118 External hips / Pelvis (Skin)
119 Buttocks
120 Genitals / "Private parts"
121 Leg (Thigh (s), Shin, Calf)
122 Knee
123 Ankle
124 Foot / Heel
125 Toes
126 General systems
127 No additional body parts
128 Other
129 Entire body
998 Unknown
999 Refusal

>FUI_ProgNote2< *[Programming Note: Loop through body parts listed from $_i$ = a to f, at end go to **>FUI_care1<**; otherwise*

*IF (**>FUI_symptoms2i<** = 127 or **>FUI_symptoms2i<** = 998 or **>FUI_symptoms2i<** = 999)*
*go to **>FUI_care1<***
*ELSE IF (**>FUI_symptoms2i<** = 128)*
*go to **>FUI_sympoms2i_specify<***
ELSE
*go to **>FUI_desc_sym$_i$<***
END IF]

>FUI_symptoms2*i*_specify< *(i = a to f)* "Specify the body part."

_____
_____

>FUI_desc2*i*< *(i = a to f)* " What are the exact types of persistent or continued problems or symptoms occurring to the >FUI_symptoms2$_i$<."

0 Persistent physical or mental impairment
1 Persistent numbness or tingling of injures area
2 Persistent pain only upon exertion or movement or intermittent (periodic) pain
3 Persistent or continued pain in injured area at all times
4 Headache that persists for more than a single day
5 General weakness
6 Weakness of arms or legs
7 Decreased range of motion
8 Paralysis
9 Loss of body part/amputation
10 Impaired vision, including blurred or double vision
11 Impaired speech
12 Impaired hearing
13 Reduced sense of balance or dizziness
14 Reduced ability to concentrate
15 Epilepsy/Seizures/Convulsions
16 Reduced ability to do heavy work
17 Other, specify
98 Unknown at this time if there will be permanent impairment
99 refusal

>FUI_ProgNote2a< *[Programming Note: Loop through body parts listed from i = a to f, at end go to **>FUI_care1<**; otherwise*
*If (**>FUI_desc2i**< = 17)*
*go to **>FUI_ desc2i_spec<***
Else
*go to **>FUI_care1<***
End If]

>FUI_desc2*i*_spec< *(i=a to f)* "Specify the body part."

_____

_____

>FUI_care1< "The following questions are about care of the injury, since we last talked with your household on >InjIntDate<. Was the injury treated by a health care professional, such as a doctor, nurse, chiropractor, dentist or other healthcare professional?"

1 Yes
3 No *(go to **>FUI_ProgNote4<**)*
8 Unknown *(go to **>FUI_ProgNote4<**)*
9 Refusal *(go to **>FUI_ProgNote4<**)*

>FUI_care2(7)< "Since >InjIntDate<, in which of the following places did >Title< receive care?"

1 A doctor's office or clinic
2 Walk-in or Urgent care center or "minute clinic" (nursing clinic located in a retail store)
3 A hospital emergency department
4 A hospital as an in-patient (admitted to a hospital)
5 Outpatient: hospital or surgical center (free-standing)
6 A dentist's office
7 A chiropractor's office
8 At the scene of the accident
9 Any other health care facility
98 Unknown
99 Refusal

>FUI_ProgNote3< [Programming Note:
If (**>inj_care2$_1$<** not equal 4 and **>inj_care2$_2$<** not equal 4 and **>inj_care2$_3$<** not equal 4 and **>inj_care2$_4$<** not equal 4 and **>inj_care2$_5$<** not equal 4 and **>inj_care2$_6$<** nt equal 4 and **>inj_care2$_7$<** not equal 4)
*go to **>FUI_ProgNote4<***
Else
*go to **>FUI_hospital<***
End If]

>FUI_hospital< "During that time, how many days >was_were< >Title< in the hospital?" *[Enumerator: 998 = Unknown. 999 = Refused.]*

____ days
998 Unknown
999 Refusal

>FUI_ProgNote4< *[Programming Note:*
*If (**>b_lt20<** = 1 or **>b_age<** < 20)*
*go to **>FUI_ProgNote5<***
ELSE

go to ***>FUI_next_event<***
END IF)

>FUI_ProgNote5< *[Programming Note:*
*If (****>OrigType<*** *= 1 or 2)*
>RecallPhrase< *= "we last talked with your household"*

ELSE
>RecallPhrase< *= "this injury event"*
END IF)

>FUI_hosp7< "Since >*RecallPhrase*<, >in_on< >*RecallDate*<, were any operations or surgical procedures performed on >Title<, as a result of this injury event?"

1 Yes
3 No *(go to* ***>FUI_er4<****)*
8 Unknown *(go to* ***>FUI_er4<****)*
9 Refused *(go to* ***>FUI_er4<****)*

>FUI_hosp8(4)< "Please describe the operations or surgical procedures." *[Enumerator: PROBE for any other operations or surgical procedures and enter up to 4.]*

Operation #1:
_____

Operation #2:
_____

Operation #3:
_____

Operation #4:
_____

>FUI_er45(8)< "Since >*RecallPhrase*<, >in_on< >*RecallDate*<, which of these services, if any, did >Title< have, as a result of this injury event?" *[Enumerator: Read list and enter all that apply. Do not record surgical procedures here.]*

1 Treatment or Therapy, other than surgery (specify)
2 Laboratory tests
3 X-rays
4 MRI, CATSCAN, Sonogram or ultrasound
5 Other diagnostic test(s) (specify)
0 No services received
8 Unknown
9 Refused

>FUI_ProgNote6< *[Programming Note: IF any of the codes entered in* ***>FUI_er4<*** *= 5 go to* ***>FUI_er4_spec4<*** *ELSE go to* ***>FUI_ProgNote7<****]*

>FUI_er4_spec4< "Please specify – The other diagnostic test(s)"
_____ *(go to **>FUI_ProgNote7<**)*

>FUI_ProgNote7< *[Programming Note: IF any of the codes entered in **>FUI_er4<** = 1 go to **>FUI_er4_spec5<** ELSE go to **>FUI_out_of_pocket<**]*

>FUI_er4_spec5< "Please specify – The other treatment or therapy"
_____

>FUI_out_of_pocket< "As a result of this injury event, about how much did your household pay out-of-pocket for medical care, >*RecallPhrase*<, >in_on< >*RecallDate*<? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one. *[Enumerator: Read list until they stop you.]*

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

>FUI_school_miss< "As a result of this injury, HOW MANY regular school days did >Title< miss, since our last interview, >in_on< >InjIntDate<?"

0 None
__ 001 - 180 days
998 Unknown
999 Refused

>FUI_lost_farmwork< "Since we last talked with your household, on >InjIntDate<, did >Title< miss days of work or chores related to <u>your farming or ranching operation</u>, as a result of >his_her< injury?"

1 Yes
3 No *(go to **>FUI_lostotherwork<**)*
8 Unknown *(go to **>FUI_lostotherwork<**)*
9 Refusal *(go to **>FUI_lostotherwork<**)*

>FUI_lostfarmtime< "About HOW MANY (8 hour) days were missed?" *[Enumerator: Enter 0 (zero) for less than 1 day missed. Valid answers: 1 – 260 days; Unknown = 998; Refused = 999]*

0 Less than one day
___ 1 – 260 days
998 Unknown
999 Refused

>FUI_substitute_f< "During that time, did anyone substitute for >Title< when >he_she< missed work?"

1 Yes
3 No (*go to* ***>FUI_lost_f_income<***)
8 Unknown (*go to* ***>FUI_lost_f_income<***)
9 Refused (*go to* ***>FUI_lost_f_income<***)

>FUI_paid_f_hr< "About HOW MUCH was paid in whole dollars for this help?" *[Enumerator: Valid answers are 0 – 99997 (dollars); Unknown = 99998; Refused = 99999]*

0 Nothing (go to ***>lost_f_income<***)
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_paid_f_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>FUI_lost_f_income< "About how much <u>income</u> did your operation lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars); Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_lostotherwork< "Since we last talked with your household, on >InjIntDate<, did >Title< lose ANY TIME from work at job(s) NOT RELATED to YOUR farming or ranching operation as a result of the injury?"

1 Yes
3 No *(go to* ***>FUI_miss_f_work<)***

8 Unknown *(go to **>FUI_miss_f_work<**)*
9 Refusal *(go to **>FUI_miss_f_work<**)*

>FUI_lostothertime< "Since >InjIntDate<, how MUCH TIME did >Title< lose from these job(s)??"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>FUI_lost_nf_income< "About HOW MUCH income did >Title< lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars); Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_miss_f_work< "Since we last talked with your household, on >InjIntDate<, did any other household members miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No (*go to **>b_miss_nf_work<***)
8 Unknown (*go to **>b_miss_nf_work<***)
9 Refused (*go to **>b_miss_nf_work<***)

>FUI_miss_f_days< "About HOW MANY (8 hour) days were missed?" *[Enumerator: Enter 0 (zero) for less than 1 day missed. Valid answers: 1 – 260 days; Unknown = 998; Refused = 999]*

0 Less than one day
___ 1 – 260 days
998 Unknown
999 Refused

>FUI_substitute_f< "During that time, did anyone else substitute for these household members when they missed work?"

1 Yes
3 No (*go to **>FUI_lost_f_income<***)
8 Unknown (*go to **>FUI_lost_f_income<***)
9 Refused (*go to **>FUI_lost_f_income<***)

>FUI_opaid_f_hr< "About HOW MUCH was paid in whole dollars for this help?" *[Enumerator: Valid answers are 0 – 99997 (dollars); Unknown = 99998; Refused = 99999]*

0 Nothing *(go to >b_miss_f_income<)*
___ 1 – 99997 dollars
99998 Unknown *(go to >b_miss_f_income<)*
99999 Refused *(go to >b_miss_f_income<)*

>FUI_opaid_f_day< "Was that per hour, per day, per week or the total amount?"

1 Per hour
2 Per day
3 Per week
4 Total amount
8 Unknown
9 Refused

>FUI_olost_f_income< "About how much income did these household members lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars); Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_miss_nf_work< "Since we last talked with your household, on >InjIntDate<, did any other household members miss days of work not related to your farming or ranching operation, due to >Your_name's< injury?"

1 Yes
3 No *(go to **>FUI_next_event<**)*
8 Unknown *(go to **>FUI_next_event<**)*
9 Refused *(go to **>FUI_next_event<**)*

>FUI_miss_nf_days< "How MUCH TIME did the other household members miss?"

1 0 to less than 4 hours
2 4 hours to less than 1 day
3 1 day to less than 7 days
4 7 days to less than 14 days
5 14 days to less than 1 month
6 1 month to less than 3 months
7 3 months or more
8 Unknown
9 Refusal

>FUI_lost_nf_income< "About HOW MUCH income did these household members lose in association with those lost work days?" *[Enumerator: Valid answers are 0 – 99997 (dollars); Unknown = 99998; Refused = 99999]*

0 Nothing
___ 1 – 99997 dollars
99998 Unknown
99999 Refused

>FUI_ProgNote8< *[Programming Note: go to **>FUI_next_event<**]*

Final Operation Questions

>oper_intro< "I just have a few more questions about your household."

1 *Continue*

>f_ProgNote< *[Programming Note: IF **>Number 17<** = 1 go to **>pcgiver1<** ELSE IF **>Number17<** > 1 go to **>pcgiver<** ELSE go to **>out_of_pocket<**]*

>pcgiver1< "Are you >Child17< primary caregiver?"

1 Yes *(go to **>out_of_pocket<**)*
3 No *(go to **>out_of_pocket<**)*
8 Unknown *(go to **>out_of_pocket<**)*
9 Refused *(go to **>out_of_pocket<**)*

>pcgiver< "Are you the primary caregiver for All children, Some Children or No children 17 years of age or YOUNGER in your household?"

0 None of them
1 Some of them
2 All of them
8 Unknown
9 Refused

>out_of_pocket< "About how much did your household pay out-of-pocket for medical care in the last 6 months? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one. *[Enumerator: Read list until they stop you.]*

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

>enterpr< "Please estimate your net household income between >Time12Window<, after taxes, from all sources. Would it be:" *[Enumerator: Read list of possible answers.]*

1 Less than $15,000
2 $15,000 - $29,999
3 $30,000 - $49,999
4 $50,000 - $99,999
5 $100,000 or more
8 Unknown
9 Refusal

>e_ProgNote2< *[Programming Note: go to **>COMPSTAT<**]*

REFUSALS AND CALLBACKS

>reconsider1< *[Enumerator: If respondent doesn't volunteer a reason for their refusal, ask:* "Would you mind telling me the reason that you prefer not to continue at this time?"*, then enter the appropriate response.]*

13 We didn't (don't have) any injuries *(go to **>reconsider2<**)*
14 Operation too small *(go to **>reconsider3<**)*
15 Haven't been farming long enough *(go to **>reconsider4<**)*
16 Don't like surveys or Just don't want to to do it *(go to **>reconsider5<**)*
17 I'm (we're) too busy or Don't have time (*go to **>reconsider6<***)
18 Personal crisis (*go to **>call_you<***)

>reconsider2< "We are including ALL types of farming and ranching operations, whether or not there were accidents or injuries. Having participation from everyone will help to better understand the experiences of

families operating farms and ranches. Would you reconsider participating?"

3 Yes *(go to **>monitoring<**)*
5 I'm (we're) too busy or Don't have time (*go to **>reconsider6<***)
8 No, don't want to participate *(go to **>hh_end1<**)*

>reconsider3< "We are including all sizes of farms and ranches. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 I'm (we're) too busy or Don't have time (*go to **>reconsider6<***)
5 No, don't want to participate *(go to **>hh_end1<**)*

>reconsider4< "We are including all operations that were actively farming or ranching as of January 1st, 2007, or had land in a Conservation Reserve Program (CRP). Is this true for your operation?"

1 Yes *(go to **>monitoring<**)*
3 No, were not farming/ranching as of 01/01/2007 AND did not have CRP (*go to **>e_NotQual<***)
5 Yes, but still don't want to participate *(go to **>hh_end1<**)*

>reconsider5< "This project is very important for the entire agricultural community. Having participation from everyone will help to better understand the experiences of families operating farms and ranches. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 I'm (we're) too busy or Don't have time (*go to **>reconsider6<***)
5 No, don't want to participate *(go to **>hh_end1<**)*

>reconsider6< "We understand that you are very busy. When we spoke with >Who_Pi2< earlier >he_she1< agreed to participate in the project. Your participation is very important. May we continue?"

1 Yes *(go to **>monitoring<**)*
3 No (*go to **>call_you<***)

>call_you< "May we call you back at another time that is more convenient for you?"

1 Yes *(go to **>callback<**)*
3 No *(go to **>hh_end1<**)*

Exit Module

>verify_address< "Let me verify the name and address that I have for your household.

•YID/KeyID

•Operation

•Address

•Phone

Is this information correct?"

1 Yes *(go to >select_resp1<)*
3 No (go to >*EnumInst*<)

>EnumInst< *[Enumerator: If phone number is incorrect, thank them, hang up and redial. If number is correct, but Operator_name is incorrect, thank them, hang up and notify supervisor. Otherwise, if Operator name is correct, correct any incorrect information and continue with interview]*

1 *Continue (go to* ***>select_resp1<****)*

>hh_end1< "Thank you very much for your time today. Goodbye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (1) REFUSED TO PARTICIPATE.]

>e_NotQual< "Thank you very much for your time today. Goodbye."

[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (7) OPERATION INELIGIBLE.]

>COMPSTAT< "Thank you very much for your time today. You have given us important information about factors that will help to better understand the experiences of families operating farms and ranches. We will be calling your household again in approximately six to twelve months for another interview. We look forward to speaking with you then. Goodbye."

1 Continue (*go to* ***>final_ProgNote<****)*

>final_ProgNote< [Programming Note:

```
If (>CaCo< = 0)
    If (>No2ndInj< > 0 AND >No2ndInj< < 88)
        go to >final_exit1<
    Else
        go to >final_exit2<
    End If
Else If (>CaCo< = 1)
    If (>No2ndInj< > 0 AND >No2ndInj< < 88)
        go to >final_exit3<
    Else
        go to >final_exit4<
    End If
Else
    go to >final_exit5<
End If]
```

>callback< *[Enumerator: Setup callback. Press CONTROL-ENTER to go to the appointment block.]*

>final_exit1< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (2)* INTERVIEWED – CONTROL FAMILY WITH INJURIES*.]*

>final_exit2< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (3)* INTERVIEWED – CONTROL FAMILY WITHOUT INJURIES*.]*

>final_exit3< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (4)* INTERVIEWED – CASE FAMILY WITH INJURIES*.]*

>final_exit4< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (5)* INTERVIEWED – CASE FAMILY WITHOUT INJURIES*.]*

>final_exit5< *[Enumerator: Use CONTROL-ENTER and select EXITMODULE. Reason for exiting (6)* INTERVIEWED –INJURY FOLLOWUP ONLY*.]*

APPENDIX H

HEALTH CARE VALIDATION STUDY

- **LETTERS AND DATA COLLECTION FORMS**

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA

• *Susan G. Gerberich, PhD*
Professor and Principal Investigator and Co-Director Regional Injury Prevention Research Center

• *Bruce H. Alexander, PhD*
Professor and Co-Principal Investigator and Co-Director Regional Injury Prevention Research Center

USDA NASS OFFICES

MINNESOTA
• *Douglas A. Hartwig*
Director, USDA, NASS Minnesota Field Office

NEBRASKA
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Director, USDA, NASS Nebraska Field Office

NORTH DAKOTA
• *Darin Jantzi*
Director, USDA NASS North Dakota Field Office

SOUTH DAKOTA
• *Carter Anderson*
Director, USDA NASS South Dakota Field Office

WISCONSIN
• *Robert J. Battaglia*
Director, USDA NASS Wisconsin Field Office

We are writing to thank you for your help with the Regional Rural Injury Study-III, and to seek your permission for another important part of the study.

Since 2007, your household and many others participated in telephone interviews, sharing information relevant to the study on accidents and injuries experienced by the household members, including children. It is important for us to evaluate the quality of the information collected in the study in order for the findings to have a greater impact on injury prevention efforts. To do this, we need to collect information from health care providers about persons in the households who were injured and also a comparison group of persons who were not injured. Only information relevant to unintentional/accidental injuries will be requested from the health care providers.

We hope that you will help with this part of our study. We are enclosing two forms with this letter. If you agree to participate, please list the name(s) and address(es) of any health care provider(s) who may have seen <<name>> between July 1st, 2006, and June 30th, 2008. Health care providers include Physicians, Nurses, Chiropractors, Dentists, or other health care professionals. With your permission, we will then send these health care providers a brief form to complete. For your information, we have enclosed a copy of the letter and the form that will be sent to your health care providers.

The authorization form, following this letter, is required by the Federal Government in compliance with new health information privacy rules with which we comply. For your information, any records that we obtain from health care providers will remain strictly and completely confidential. In any reports resulting from this study, no individuals or identifying information will ever be provided. Only overall information for the participants as a group will be presented.

If you have any questions about this request, please contact our *Project Director, Andy Ryan*, or me, at (612) 625-1443 or 1-866-428-1792 (TOLL-FREE). We will be happy to assist you. If you would like to talk to someone other than the researchers, please contact the University of Minnesota Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street SE, Minneapolis, Minnesota 55455, (612) 625-1650.

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Professor and Director
Regional Injury Prevention Research Center

Authorization to Release Protected Health Information

I hereby authorize the release of information from the medical, dental, chiropractic, and other health care records of **<<Name>>**, birthdate: **<<dob>>**, pertaining to types of unintentional/accidental injury, the body part(s) involved, and the date of initial visit (as noted on the attached form), for all unintentional/accidental injuries for which health care was received, between July 1st, 2006, and June 30th, 2008. This authorization allows the USDA, NASS to provide the enclosed documentation to the staff of the Regional Rural Injury Study-III, a research project in which **<<Name>>** is a participant.

I understand that, once this personal health information is released to the staff of the Regional Rural Injury Study-III, it will not be redisclosed, even though my health information will no longer be protected by federal privacy regulations.

I understand that this authorization expires the date the research study ends, and may be revoked by me at any time, in writing, but that such revocation would not apply to any information already released in good faith. I also understand that participation in this part of the study is voluntary, and that if I refuse to participate, it will not affect my relationship with the University of Minnesota or any institutions involved in this effort.

_____ _____

Signature of person identified below (or Parent, if minor child less than 18 years of age) | Date

<<Name>>

<<dob>>

Please return this form in the enclosed stamped envelope.

THANK-YOU!

For office use Only: <<FarmID>> <<noinfarm>>

You have my permission to contact the following health care providers to obtain information on <<name2>>'s health care for the treatment of unintentional/accidental injuries between July 1st, 2006, and June 30th, 2008:
(If there were more than 3 providers, please feel free to copy this form)

---

1. Health Care Provider Name: _____

Institution/Clinic: _____

Address: _____
Street

_____
City State Zip Code

Telephone (including area code): _____

---

2. Health Care Provider Name: _____

Institution/Clinic: _____

Address: _____
Street

_____
City State Zip Code

Telephone (including area code): _____

---

3. Health Care Provider Name: _____

Institution/Clinic: _____

Address: _____
Street

_____
City State Zip Code

Telephone (including area code): _____

Signature: _____
Print Name in Full: _____
Date: ____/____/____
(month/day/year)

Please return this form in the enclosed stamped envelope.

THANK-YOU!

For office use Only: <<FarmID>> <<noinfarm>>

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA

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Professor and Principal Investigator and Co-Director Regional Injury Prevention Research Center

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SOUTH DAKOTA
• *Carter Anderson*
Director, USDA NASS South Dakota Field Office

WISCONSIN
• *Robert J. Battaglia*
Director, USDA NASS Wisconsin Field Office

Request for Medical Records Enclosed

Patient: <<first name>> <<middle name>> <<last name>>

Birth Date: <<birth date>>

Dear Medical Records Administrator:

<<Patient/Parent of minor child>> has given us permission to contact you in order to verify information we obtained in a recent telephone interview. This interview was part of the Rural Regional Injury Study-III, a five-state study of injuries among farm/ranch household members that was conducted by the University of Minnesota, in collaboration with the organizations listed in the sidebar. Through this study, we expect to obtain information on injuries that will serve as a basis for the development of effective injury prevention efforts.

<<Patient/Parent of minor child>> has reported that <<child>> received his/her health care from you during the period of July 1st, 2006 through June 30th, 2008. We appreciate your verifying whether this person received ***any kind of treatment pertaining to unintentional/accidental injuries*** during this time. **The enclosed form on the second page should help facilitate this reporting. For each injury seen by your clinic, please enter the date of the initial visit, the type(s) of injury, and the body part(s) involved. If no injuries have been treated during the time period of interest, please check the appropriate box at the end of the form.** A copy of the signed release form, as well as a stamped, return envelope, are enclosed for your convenience.

If you have any questions about this form or about the study, please feel free to contact our Project Director, Andy Ryan, or me, at (612) 625-1443 or 1-866-428-1792 (TOLL-FREE). If you would like to talk to someone other than the researchers, please contact the University of Minnesota Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street SE, Minneapolis, Minnesota 55455, (612) 625-1650. We look forward to your potential involvement in this important study and appreciate your completing and returning this form as soon as possible.

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Principal Investigator

Patient: <<first name>> <<middle name>> <<last name>> Farm ID: <<Farm ID>>

Birth Date: <<birth date>> Provider Name: <<Provider Name>>

Regional Rural Injury Study-II

We are interested in collecting health care information on *unintentional injuries treated between July 1st, 2006, and June 30th, 2008.* **Please complete the following form for <<**name**>> for this time period, and return it in the enclosed envelope.** If there have been more than three accidents/injury *events*, please copy this form. **If no unintentional injuries have been treated by your facility during the time period of interest, please check the appropriate box at the end of the form.**

Injury Event #1:

1. **Date of initial visit for accident/injury event:**_____
2. **Type(s) or diagnosis(es) of physical injury:**_____
3. **Body part(s) involved:**_____

Injury Event #2:

1. **Date of initial visit for accident/injury event:**_____
2. **Type(s) or diagnosis(es) of physical injury:**_____
3. **Body part(s) involved:**_____

Injury Event #3

1. **Date of initial visit for accident/injury event:**_____
2. **Type(s) or diagnosis(es) of physical injury:**_____
3. **Body part(s) involved:**_____

SAMPLE

If there have been no patient visits regarding any unintentional injury events between July 1st, 2006, and June 30th, 2008, please check this box.

☐ No unintentional injuries were treated between July 1st, 2006, and June 30th, 2008.

_____ _____

Printed name of person completing this form Title/Position

_____ _____

Signature of person completing this form Date

_____

Institution/Clinic Name

Thank you for your participation!

Please return this form in the enclosed envelope.

APPENDIX I

U.S. SAVINGS BONDS CONTACT PACKET

- **UNIVERSITY OF MINNESOTA LETTER**
- **USDA NASS LETTER**
- **SAVINGS BOND FORM**

REGIONAL RURAL INJURY STUDY – III (RRIS-III)

UNIVERSITY OF MINNESOTA
• *Susan G. Gerberich, PhD*
Professor and Principal Investigator and Director
Regional Injury Prevention Research Center

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SOUTH DAKOTA
• *Carter Anderson*
Director, USDA NASS
South Dakota Field Office

WISCONSIN
• *Robert J. Battaglia*
Director, USDA NASS
Wisconsin Field Office

In 2007, your household was invited to participate in the Regional Rural Injury Study – III (RRIS-III), conducted by the University of Minnesota and the USDA National Agricultural Statistics Service. During our initial telephone conversation you confirmed your interest in participating in a US Savings Bond drawing that would occur when all interviews were completed.

We have now completed the interviews for RRIS-III and have randomly selected 1,000 eligible agricultural operation households to receive a $100 US Savings Bond. ***It is a pleasure for us to congratulate you as one of the households selected in this drawing.***

In order to receive your savings bond, it is necessary for you to complete the information requested on the attached form. You have the option to select a co-owner or beneficiary for the savings bond. Details are provided on this form. On the reverse side of the information page, we have provided a copy of the actual US Savings Bond purchase form that will be used, with the information you provide, to purchase your savings bond from the bank. Once the form, requesting purchase of the bond has been submitted to the bank, all information provided by you will be shredded to protect confidentiality.

It is important that you return the completed information form in the envelope provided to be received by April 30, 2011. If we do not receive it by that date, your name will be removed from the drawing and the next randomly selected household will be identified for the drawing. **Only the first 1,000 households to return the requested information will receive a US Savings Bond.**

If you have any questions or concerns about the drawing or the requested information, please contact our *Project Director, Andy Ryan*, or me, at (612) 625-1443 or 1-866-428-1792 (TOLL-FREE). If you have any questions or concerns regarding this drawing and would like to talk to someone other than the researchers, please contact the University of Minnesota Research Subjects' Advocate Line, D528 Mayo, 420 Delaware Street SE, Minneapolis, Minnesota 55455, (612) 625-1650. Thank you!

Sincerely,

Susan Goodwin Gerberich, Ph.D.
Professor and Director
Regional Injury Prevention Research Center

As you may recall, the National Agricultural Statistics Service has been collaborating with the University of Minnesota on the Regional Rural Injury Study – III (RRIS-III) since 2007. The University of Minnesota **would like to congratulate you on being one of the randomly selected households selected to receive a $100 US Savings Bond.**

In order to receive your savings bond, you will need to complete the information requested on the attached form. The information you provide will be given to the University of Minnesota to be used to purchase your savings bond from the bank. Once the purchase form is submitted to the bank, all information provided by you will be shredded by the University of Minnesota to protect confidentiality.

It is important that you return the completed information form in the envelope provided to be received by April 30, 2011. If it is not received by that date, your name will be removed from the drawing and the next randomly selected household will be identified for the drawing.

Sincerely,

Savings Bond Application Information

Please print or type clearly, and return this form in the envelope provided -- to be received by December 10, 2010.

Name: _____

Social Security Number:_____

(This number is required for us to purchase the Savings bond for you.)

Address where bond is to be delivered:

_____

_____

_____

Would you like to designate a co-owner or beneficiary?
(Please check one: definitions are included below.)

☐ **No**

☐ **Yes**

→ **If yes, which designation would you prefer (see definitions below)?**

(Please check one, and include designee's name. If neither or both boxes are checked, co-ownership will be assumed.)

☐ **Co-owner**

☐ **Beneficiary**

Name of Co-owner or Beneficiary _____

Definitions from the U.S. Department of the Treasury:

If you name a co-owner: The bonds may be cashed by either co-owner. The name of a living co-owner cannot be eliminated without the written consent of that co-owner.

If you name a beneficiary: The bonds may not be cashed by the beneficiary during the lifetime of the owner. The name of the beneficiary can be eliminated with the beneficiary's consent.

Thank you!
Please return this form in the stamped, return envelope by April 30, 2011

APPENDIX J

INTERVIEWER TRAINING MANUALS

- **PARTICIPATION AND BASELINE INTERVIEWS**
- **FIRST 6-MONTH INJURY INTERVIEW**
- **EVALUATION # 1/INJURY FOLLOW-UP INTERVIEW**

REGIONAL RURAL INJURY STUDY - III
2007

INTERVIEWER MANUAL

PARTICIPATION AND BASELINE INTERVIEWS

A COLLABORATIVE EFFORT:

University of Minnesota
Regional Injury Prevention Research Center
and
U.S.D.A. National Agricultural Statistics Service

REGIONAL RURAL INJURY STUDY - III

INTERVIEWER MANUAL

January/February 2007

A COLLABORATIVE EFFORT:

University of Minnesota
Regional Injury Prevention Research Center
and
U.S.D.A. National Agricultural Statistics Service

REGIONAL RURAL INJURY STUDY – III
PARTICIPATION AND BASELINE INTERVIEWS
INTERVIEWER MANUAL

I. OVERVIEW OF THE REGIONAL RURAL INJURY STUDY - III (RRIS-III)

A. The Project

The overall objective of this project is to identify and quantify the short- and long-term physical disabilities, and psychosocial and economic consequences of injuries that occur among children and youths living in agricultural operation households. The project focuses on people who live in the five-state region of Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin.

Injury consequences will be identified by comparing follow-up/evaluation data with baseline data, between those households with own-agricultural-operation-related injuries (OAOR-injured) and those without *own-agricultural-operation-related injuries (non-OAOR*-injured).

B. Sequences of Interviews and Types of Data Collection

There are several distinct stages of the project.

I. ELIGIBILITY SCREENING AND PARTICIPATION INTERVIEW

II. BASELINE DATA COLLECTION INTERVIEW (prior to injury data collection periods; refer, also, to EVALUATION/FOLLOW-UP INTERVIEWS)

Demographics

Household information: type of agricultural operation; acres in active production; household income/economic status measurements; out-of-pocket medical expenses.
All household members: days lived in household; age; gender; race; education level; marital status; insurance/type of coverage, hours worked on and off the agricultural operation

Specific to children (those <20 years): height/weight; specific grade in school

Health Status/Disability – Physical, Psychosocial, and Economic Status (Household Members*)*

- Quality of Life measures (includes physical and mental health); perceived stress
- Current health limitations – history of prior agricultural/other injury
- Diagnosed health conditions
- *Specific to children (those <20 years):* Number of missed school days; school performance; developmental/ behavioral characteristics; parental monitoring/strictness; health services used; work time lost by household members caring for sick or injured children

III. INJURY DATA COLLECTION (two data collection periods of six-months, each = 12 months total)

INJURY INTERVIEW #1

Injury experience- past six months

- Agricultural operation-related (other activity-related injuries)
  - Date/time of event
  - Location
  - Source/vehicle of injury (e.g., animal, tractor, motor vehicle, other large machinery, surfaces/falls, chemicals, etc.)
  - Associated activity/surrounding circumstances
  - Anatomical location(s)/types/diagnosis(es) of injury(ies)

Immediate and Short-term consequences

- Hospitalization, including hospital days for outpatient procedures (length); other type of health care (emergency department visit, clinic visit/urgent care, mental health/counseling)
- Length and degree of restricted activity from regular activities
- Current restriction/disability; type of persistent problems
- Length of lost school time
- Length of lost work time for child due to injury
- Length of lost work time for adult(s) due to child's injury
- Estimate to replace cost of work that child was doing on the agricultural operation/lost earnings
- Health care costs (total and personal; deductibles)
- Restricted activity/disability due to other events in past 6 months
- (Changes in) health-related quality of life

INJURY INTERVIEW #2

Injury experience- past six months (same as Injury Interview #1)

Immediate and Short-term consequences (same as Injury Interview #1)

Six-month continued consequences follow-up from injuries identified in Injury Interview #1

IV. EVALUATION/FOLLOW-UP #1: (following injury data collection periods)

One-year follow-up subsequent to Injury Interview #1
Changes in Household Demographics
(See II. Baseline Interview for description of questions)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status
(See II. Baseline Interview for description of questions)

Six-month continued consequences follow-up from injuries identified in Injury Interview #2; continued consequences from injuries identified in Injury Interview #1 (1 year)

- Hospitalization, including hospital days for outpatient procedures (length); other type of health care (emergency department visit, clinic visit/urgent care, mental health/counseling)
- Length and degree of restricted activity from regular activities
- Current restriction/disability; type of persistent problems
- Length of lost school time
- Length of lost work time for child due to injury
- Length of lost work time for adult(s) due to child's injury
- Estimate to replace cost of work that child was doing on the agricultural operation/lost earnings
- Health care costs (total and personal; deductibles)
- Restricted activity/disability due to other events in past 6 months

V. EVALUATION/FOLLOW-UP #2: **(following injury data collection periods)**
• One-year follow-up subsequent to Injury Interview #2
Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued Consequences - follow-up from injuries identified in Injury Interviews #1 (1.5 years), #2 (1 year) (same as above)

VI. EVALUATION/FOLLOW-UP #3: **(following injury data collection periods)**
• Two-year follow-up subsequent to Injury Interview #1
Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued Consequences - follow-up from injuries identified in Injury Interviews #1 (2 years), #2 (1.5 years) (same as above)

VII. EVALUATION/FOLLOW-UP #4: **(following injury data collection periods)**

• Two-year follow-up subsequent to Injury Interview #2
Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued Consequences - follow-up from injuries identified in Injury Interviews #1 (2.5 years), #2 (2 years) (same as above)

FIGURE 1. OVERVIEW OF THE PROJECT TIMELINE

INTERVIEW	2007	2008	2009	2010
Baseline interview	**Feb**			
Injury interview #1	**Jul**			
Injury interview #2		**Jan**		
Evaluation/Follow-up #1		**Jul**		
Evaluation/Follow-up #2			**Jan**	
Evaluation/Follow-up #3			**Jul**	
Evaluation/Follow-up #4				**Jan**

C. How Participants Are Contacted

Participants are contacted both by mail and by telephone.

1. <u>Information Packet</u>

Beginning in January 2007, an information packet is sent to all farm/ranch households that were randomly chosen for inclusion in the project. The packets are sent from the USDA National Agricultural Statistics Office. The packet contains 2 letters, an information sheet, and a worksheet. The first letter, on University of Minnesota letterhead, is from the Project Investigators. This letter provides information about the project and a brief description of what their involvement as a participant would mean. The second letter is addressed from the USDA Agricultural Statistics Service office in the state where the farm/ranch household is located. This letter expresses support for the project and encourages the farm household to participate. The information sheet provides more details on the study, how they were selected

for inclusion, assurances of confidentiality of the participant's data, and information about the drawing for a savings bond. In addition, the information sheet describes the types of questions that will be asked in the baseline interview. Lastly, the information packet contains 2 worksheets. The first worksheet asks the recipient to record their best estimate of the number of weeks worked per month and the number of hours worked per week in each month from July 2006 to December 2006, for each member of the household. This will be asked separately for work that is related to their agricultural operation and work that is related to other activities. The second worksheet (printed on the reverse side of the first) asks the recipient to record the following details for each member of the household: date of birth; highest school grade completed; types of medical insurance. For each child in the household who was ill, injured or had a health condition in the last 6 months of 2006, the worksheet also provides space to record the number of days when household members missed work to care for this child.

The purpose of these worksheets is to improve the accuracy and speed of responses to the corresponding questions in the baseline telephone interview.

2. <u>Participation Interview</u>

You will call the prospective participants on the telephone within a few weeks after these packets are sent. This telephone call will involve the **Participation Interview.** This is the first telephone contact you, the interviewer, will make with the farm households.

During the participation interview, you will determine if the household is eligible to participate. If they are eligible, you will confirm their willingness to participate. Once this is confirmed you will proceed with the **Baseline Interview.**

3. <u>Baseline Interview</u>

The **Baseline Interview** immediately follows the participation interview if the participant agrees or is scheduled for another time if it is more suitable for the participant. The purpose of these **Baseline Interviews** is to obtain, for each member of the household, information that includes work status, quality of life, health limitations and health conditions, health care costs, and for children in the household, information that includes school performance, development/behavioral characteristics, health services used, work time lost by household members caring for sick or injured children. This information is key to the success of the entire project as it will be used to compare with information from follow-up/evaluation interviews to determine the long term consequences of injuries among children in agricultural households.

D. How Data For The Project Are Collected

The data for this project are collected by interviewing participants on the telephone. While you, the interviewer, are speaking to the participant, the questions you will ask will appear on the top of a computer screen in front of you. After you enter the answer to one question, a new question will appear on the screen. This method of interviewing, using questions on a computer screen and collecting information directly onto the computer, is made possible by the Computer Assisted Telephone Interview (CATI) system. It is very important that you *enter exactly what the participant told you* because the CATI system takes you to the next screen depending upon the answers previously given.

The question you ask the participant appears at the top of the computer screen, but the place you enter the answer is at the bottom of the screen. The bottom of the screen contains a list of abbreviated words with spaces for entries next to them. The abbreviated words are what we call the *variable names* that refer to each question. You do not need to know, remember or understand the variable names; they are there more for our reference than for yours.

Most of the questions you will ask have only a few likely answers. These possible answers will be listed below the question, and each answer is next to a number. For many of the questions, you will fill in the blank next to the variable name with the *number* that is next to the answer the participant gives you. Sometimes you will fill in the blank with a word or short phrase. The place where you fill in the answer will be blinking on the screen, so you do not have to know where to place the cursor. The CATI system will place it for you, automatically.

II. OVERVIEW OF THE INTERVIEW

Please note: The Computer Assisted Telephone Interview (CATI) system is programmed to take you through the interview, according to responses of the participants. The following provides information for you about characteristics of the interview itself.

A. Interacting With Participants On The Telephone

The way you interact with the participant on the telephone is a critical factor in determining the success of the project. The tone of your voice, the style of answering their questions, and your patience in explaining the project or other inquiries will strongly influence the cooperation you receive. Past experience shows that most people cooperate with health-related projects if the project is clearly explained. Remember that their participation is voluntary. If individuals do not want to be involved in the project, that is their right. Therefore, your dialogue with the person contacted is critical in determining which persons participate. The participant needs to be reassured that:

1. **...<u>the project is worthwhile;</u>**
2. **...<u>he/she is doing the right thing;</u>**
3. **...<u>the results will be kept completely confidential;</u>**

4. ...<u>all that is required of the participant is to respond as accurately as possible to the interview questions;</u>

5. ...<u>the respondent has an opportunity to participate in a drawing for a savings bond.</u> (All the farm households we contact are eligible to be included in a drawing for a $100 savings bond).

The CATI system is designed to help you respond appropriately to the person you are interviewing. To make full use of this assistance, you must be sure to enter the person's answers carefully and accurately.

Please see **APPENDIX I - IMPORTANT SURVEY TECHNIQUES** at the end of this document for more information on the best ways to interact with the respondent on the telephone.

B. Key Respondents

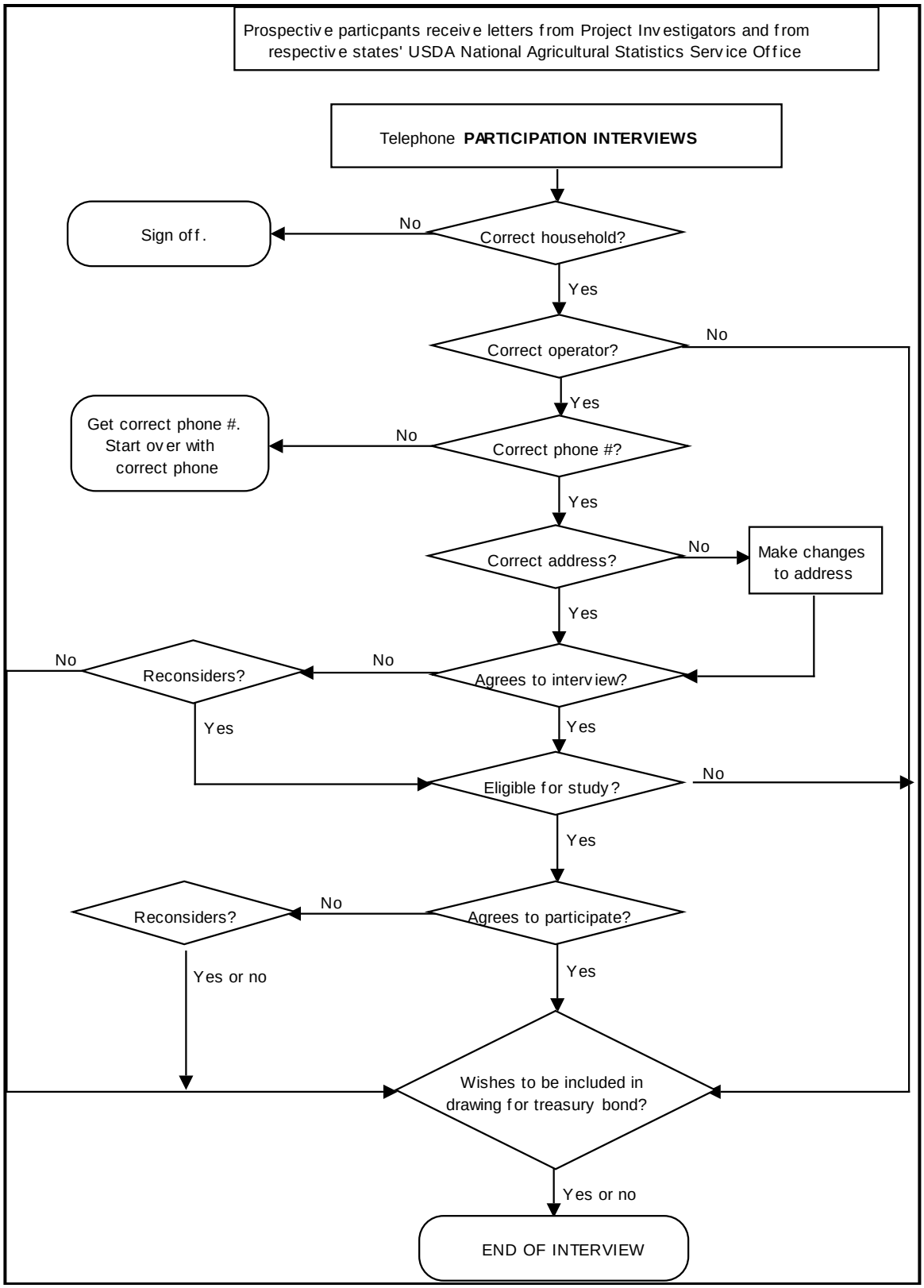
A "key respondent" is the preferred person to answer the questions in a certain section of the interview. The CATI system will always prompt you to ask for the key respondent depending on what section of the interview you are in. In some situations, there is no key respondent; in others, the key respondent is not available. In these situations, the CATI system will prompt you to obtain answers from another knowledgeable *adult* person who is a member of the household.

C. Things To Remember During The *Participation Interview*

The first time you speak to the prospective participants will be during the **Participation Interview.** This is a very brief interview that should take no longer than five minutes to complete. The purpose of the Participation Interview is: 1) to determine if the farm household is eligible to participate in the project and if they are eligible, 2) to invite them to participate in the project.

The goal is to secure the participation of ALL the farm households that are truly eligible. This first telephone interview is critical to the success of the entire project!!!! **Please review Appendix I for techniques that can help you in getting respondents to participate.**

FIGURE 2. OVERVIEW OF THE PARTICIPATION INTERVIEW



III. PARTICIPATION INTERVIEW - Commences February 2nd, 2007

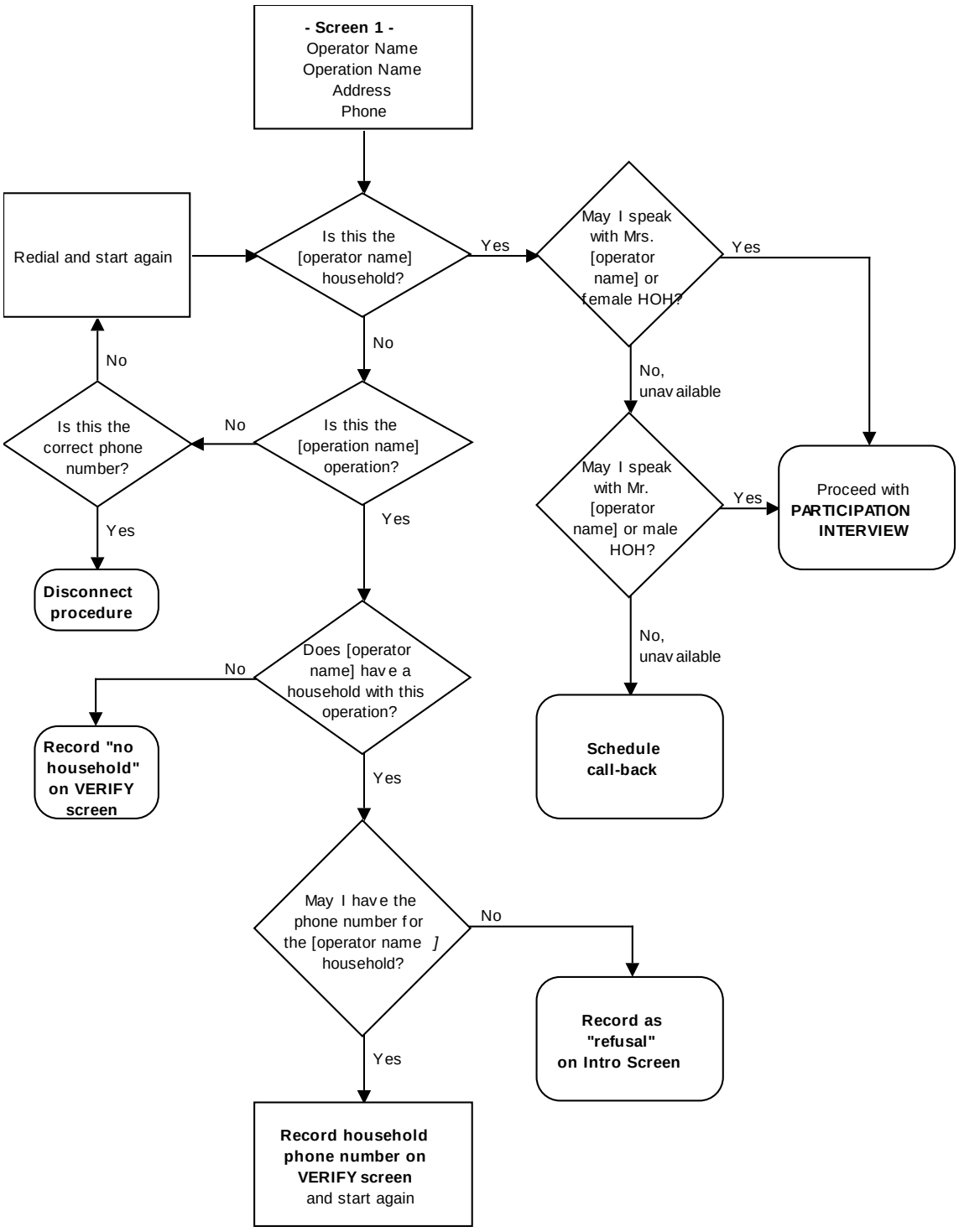
The participation interview should last no more than 5 minutes. However, **these are five very important minutes**, because it is at this time that **we hope to secure the participation of ALL farm households eligible for the project**.

Below we list the basic components of this interview along with an explanation (in italics) for the reasoning behind each component. The exact wording of the questions in the most important segments of the interview are given here in a larger font. Although the exact wording of the other questions is not given here, the exact wording will appear on the computer screen in front of you when you actually ask the question.

A. Establish That You Have Reached The Correct Household

The first thing you will see on your screen is the name, address and telephone number of the farm operation listed on the National Agricultural Statistics Service Master List Frame. The information on the master list frame has been collected over the years; but, it is updated only at several-year intervals. Therefore, it is possible that the information on your screen is incorrect. Before proceeding, you must establish that you have reached the household of the operator who is listed on the screen. There are several possible ways this can proceed, as shown in Figure 3.

FIGURE 3. LOOKING AT THE FIRST SCREEN



1. <u>You Have Successfully Reached The Telephone Number For The Household.</u>

This is the most common and most desirable situation. Once you establish that you have reached the telephone number for the household of the farm's operator, you ask to speak with the female head of household and, if she is not available, the male head of household:

<u>Interviewer:</u> Is this the [<u>operator's name</u>] household?

<u>Respondent:</u> Yes.

<u>Interviewer</u>: May I please speak with Mrs. [<u>operator name</u>] or the female head of household?

If female head of household is available, proceed with the script for the participation interview. If she is not available, or there is no female head of household, ask to speak to the male head of household.

<u>Respondent:</u> No, she's not available.

<u>Interviewer:</u> May I please speak with Mr. [<u>operator name</u>] or the male head of household?

If male head of household is not available either, schedule a call-back. If he is available, proceed with the script for the participation interview.

2. <u>You Have Reached The Telephone Number For The Operation, Which Is Different From The Number For The Household, And There Is A Household</u>.

In this situation, your goal is to obtain the telephone number for the appropriate household so that you can continue the procedure there.

<u>Interviewer:</u> Is this the [<u>operator's name</u>] household?

<u>Respondent:</u> No.

<u>Interviewer</u>: Is this the [<u>operation name</u>] operation?

<u>Respondent</u>: Yes.

<u>Interviewer:</u> Does [<u>operator name</u>] have a household associated with this operation?

Respondent: Yes.

Interviewer: May I have the telephone number for the [operator name] household?

Enter the instrument and record the new telephone number on the VERIFY screen. Call this new number and begin again.

3. You Have Reached The Telephone Number For The Operation, And There Is No Household:

Interviewer: Is this the [operator's name] household?

Respondent: No.

Interviewer: Is this the [operation name] operation?

Respondent: Yes.

Interviewer: Does [operator name] have a household associated with this operation?

Respondent: No.

Enter the instrument until you reach the VERIFY screen. Record on this screen that there is no household associated with the operation. The CATI system will then take you to an exit loop.

4. You Have Reached A Telephone Number That Bears No Relation To The Information On Your Screen.

Interviewer: Is this the [operator's name] household?

Respondent: No.

Interviewer: Is this the [operation name] operation?

Respondent: No.

Interviewer: Have I reached [telephone number]?

Respondent: Yes.

Follow the disconnect procedure for your office. One possible way for this information to be incorrect is if you reach a telephone number for someone other than the household listed on the screen. If this happens, simply excuse yourself, hang up and record the call and continue with the "disconnect" procedure your office has established for dealing with disconnected telephone numbers.

B. Obtain Permission To Ask Eligibility Questions

1. **<u>Once You Have Established That You Have Reached The Household Of The Farm Operator, Ask To Speak To The Female Head Of Household</u>**.

   If there is no female head of household or, if she is unavailable, ask to speak to the male head of household. If neither female nor male head of household are available, schedule a call-back and the system will call the number at another time.

   The female head of household is the preferred respondent for this interview. However, if she is not available, the male head of household is the second preferred respondent.

   Since we will be asking for informed consent during this interview, and consent can only be granted by a head of household, you <u>must</u> speak to either the female or male head of household at this time.

2. **<u>Introduce Yourself And The Project, And Refer To The Letters They Should Have Received</u>**.

   If they say they have not received the letters, ask if they would like new copies. (The CATI system will lead you through this process.)

   Although the people you contact should have received the letters explaining the project to them, you may discover that the people respond to you as if your telephone call is the first time they have heard of the project. This could be because: 1) the

letters never arrived;2) the letters arrived but they did not read them; or 3) they read the letters but did not recall all of the information about the project. The reason they say they have not received the letters is NOT IMPORTANT. What IS important is that you establish and maintain rapport with them so that you can proceed with the interview. If they prefer not to continue until they have reviewed the letters, the CATI system will lead you through a call-back procedure once you have recorded that they do not wish to continue at this time.

3. **State That You Would Like To Ask A Few Questions To Determine If The Household Qualifies For The Project And That It Will Only Take Five Minutes. Request Permission To Continue.**

You must have permission to ask the eligibility questions. A completely cooperative participant will agree to answer the eligibility questions right away. However, many people may hesitate to answer the questions, for any number of reasons. You do not want to harass the people on the telephone; however you do want to allay any legitimate concerns they may have. If the participant does not want to answer the questions, we assure them it will only take 5 minutes and, again, ask permission to proceed. (The CATI system will assist you with this process.)

The person on the telephone may ask you questions about the project, how you received their name, and so on. Please refer to Appendix II - Answering Participant Questions *at the end of this manual and become familiar with this information so that you can respond appropriately to them.*

Once you have received permission to continue, go on to the next section of the Participation Interview.

C. Ask First Set Of Eligibility Questions

1. **<u>At The Beginning Of The Set Of Eligibility Questions, You Tell Them That A Supervisor May Monitor The Call For Quality Control Purposes, And You Obtain The Name Of The Respondent</u>**. You then key into the CATI system as to whether the respondent is the female or male head of household.

2. **<u>Next, You Verify The Information About Name, Address And Telephone Number On The Screen</u>.**

   You establish, again, that you have reached the household of the person listed as the operator of the farm. *If you <u>have not</u> reached the correct household, you ask for the telephone number of the correct household, record it in the appropriate place, hang up and <u>call the new number</u>.*

   You confirm the address and telephone number. If the address has changed, record the changes in the appropriate place and proceed.

   If either the operator or the phone number has changed, the CATI system will take you to an exit loop.

   The households eligible to participate in this project are the households of the operator of the farm operation. Some farm operations do not have households; if you reach one like this, you will exit the interview. (The CATI system will assist you in this process). Some operations may have changed operators; for our purposes, this also will result in an exit from the interview. (Record all changes to the operation.)

3. **<u>Once You Have Established That The *Information* On The Screen Is *Correct* And That You Are *Speaking To Either The Female Or Male Head Of Household* And That The *Respondent Has Agreed To Answer Questions*, You Will Now: Explain</u>**

How Their Farm Was Selected; What The Project Is About; That They Are Eligible For A Drawing For A $100 Savings Bond.

The exact language you will use is:

"Your agricultural operation was randomly selected as a potential participant in a project about farming and ranching activities and injuries that MAY occur during 2007. The results from the project will be used to develop injury prevention programs that will benefit family farms and ranches. You are also eligible for a drawing for a $100 U.S. Savings Bond (Series EE), but are not required to participate in the project to be included in that drawing."

"In this interview, I would like to ask a few questions about your operation and the ages of your household members, so that I can tell if you are eligible to participate in the project. May we continue? "

This is the first time in the interview where the CATI system prompts you to explain the project in detail. It also is the first time where you mention that they are eligible for a drawing to receive a $100 savings bond.

You must have their permission to continue with the eligibility questions. As before, a completely cooperative respondent will agree to continue, but others may have concerns. Your goal is to allay their concerns while remaining polite and courteous at all times.

If the respondent hesitates to continue, the CATI system will give you a response that is appropriate for the reason they hesitate. These responses are designed to encourage the respondent to answer the eligibility questions.

Once the respondent has agreed to answer the remaining eligibility questions, you will continue with the next section of the Participation Interview.

D. Ask Second Set of Eligibility Questions

The next two eligibility questions establish that the household is involved in farming as it has been defined for this project.

1. **<u>In The First Question, You Will Establish That The Household Is Presently Involved In Farming</u>**.

The exact language you will use is:

"As of January 1st, 2007, were you actively farming or ranching or did you have land in a Conservation Reserve Program (CRP)?"

The project includes farms that were active as of January 1, 2007. This question establishes if the farm meets this criterion. If it does, you will go to the next question. If it does not, the CATI system prompts you to an exit where you will ask if they wish to be included in the drawing for the bond. If the participant has already answered this question, the CATI system automatically routes you to the next question.

2. **<u>In The Second Question, You Will Establish That The Household Was Involved In Farming As It Has Been Defined For This Project In The Preceding Year</u>**.

The exact language you will use is:

"During the past year, did you produce or have annual sales of agricultural goods of $1000 or more?"

The project includes farms that were active in the preceding year. This question establishes if the farm meets this criterion. If it does, you will go straight to the third set of eligibility questions. If it does not, you will go to the next question which asks if the farm was involved in a conservation reserve program.

The exact language you will use is:

"During the past year, were you involved in a Conservation Reserve Program (CRP)?"

If the farm meets this criterion, you will go to the next question which asks if any household members worked on the CRP land. If it does not, the CATI system prompts you to an exit where you will ask if they wish to be included in the drawing for the bond.

The exact wording is:

"Did any household members work on the CRP land, either to maintain or improve it?"

If the farm meets this criterion, you will go to the third set of eligibility questions. If it does not, the CATI system prompts you to an exit where you will ask if they wish to be included in the drawing for the bond.

E. Ask Third Set of Eligibility Questions

The Next Set Of Questions Asks For The Number Of People In The Household As Of January 1, 2007.

You need to identify the number of persons 20 years of age or older and the number of persons 19 years of age or younger. This includes all members of the household as of January 1, 2007: those who have moved away or died after January 1, 2007; students away at college; children who reside in multiple households, including this one; as well as people who live there permanently.

After you obtain the number of males and females in the respective age categories, you will verify the information you have received. If for some reason, the numbers do not add up, you are to repeat the questions until the answers are all consistent. *If there are no children, the CATI system prompts you to an exit where you ask if they wish to be included in the drawing for the bond.*

Once you have completed the questions about the operation and the members of the household, you will proceed to the next section that asks the respondent to participate in the full project. Your goal is to obtain participation from all eligible households.

F. Ask About Inclusion In Savings Bond Drawing

Before requesting participation in the project you first need to ask them if they would like to be included in the drawing for a $100 Savings Bond.

The exact language you will use is:

"Based on this information, your household is eligible for the project.

"Whether or not you decide to participate in the project, you can be included in the random drawing to receive a $100 U.S. Savings Bond. We will notify the households that are awarded the bonds at the end of the project. Would you like to be included in the drawing?"

G. Request Participation In The Project

If you have reached this stage of the interview, you have established that the household is eligible to participate. However, a male or female head of household must agree to participate before they can be included in the project.

This next statement will describe what participation in the project involves. Speak slowly and clearly.

The exact wording is:

"Now I'd like to discuss the project very briefly with you.

"Participation in the project will involve a 30-45 minute baseline interview about your household and general health status, and farming or ranching activities. We will also call you back for two shorter interviews to discuss any injuries that MAY occur during EACH six month period of 2007. A small percentage of participants will also be called for follow-up interviews from six months to two years later. Your information will remain confidential, and only group information, not individual information, will ever be used in reports from this project. Participation is voluntary and your help would be very important"

Before obtaining their consent to participate you first need to ask them if they have any questions about the project.

The exact language you will use is:

"Do you have any questions about the project?"

You will provided with a sheet titled: “Frequently Asked Questions”, for answers to the subject’s questions. Also *please refer to* Appendix II - Answering Participant Questions *at the end of this manual.*

Next you will ask for their consent, or agreement, to participate.

The exact language you will use is:

"Are you willing to participate?"

This is a crucial piece of the entire project. *If you do not receive their agreement to participate, now, you cannot call them back to ask them again.*

If they decline to participate, the CATI system prompts you to tell them that the project is very important for all farm/ranch families, and that we are including all types of farms and ranches. It asks them to reconsider. If they still decline to participate, the system prompts you to ask if they wish to be included in the drawing for the savings bond, and then asks the reason they are declining.

If they agree to participate, the system prompts you to thank them very much. You will then ask them if they want to continue with the baseline interview, or schedule it for the near future.

- END OF PARTICIPATION INTERVIEW –

IV. BASELINE INTERVIEW - Commences February 2nd, 2007

The baseline interview should take approximately 30-45 minutes. Below we list the basic components of this interview along with an explanation (in italics) for the reasoning behind each component. The exact wording of the questions in the most important segments of the interview is given here in a larger font. Although the exact wording of the other questions is not given here, the exact wording will appear on the computer screen in front of you when you actually ask the question.

First you will briefly explain to them what kind of questions will be asked and that if they are uncomfortable with answering any question they can choose to skip it.

The exact wording is:

"Now I am going to ask you questions about your farming or ranching activities and members of your household. All information we collect is confidential. If you are uncomfortable with any question, you may choose not to answer that question, and we will move on to the next question."

Each question has 'refused' and 'unknown' codes that need to be entered if a person does not want to answer the question or if they do not know the answer.

A. Household Information

First ask them about their type of agricultural operation.

The exact wording is:

"In which of these farming or ranching enterprises was your operation engaged **between January 1st and December 31st, 2006**? Please wait until I finish reading the entire list, then tell me all that apply."

It is important that you first read the list and then enter the first three of their responses; otherwise the order of their responses might be influenced by the order of the categories in the list.

Once you have recorded the 3 types of enterprise you will then ask them which one takes the most amount of work time.

The exact wording is:

"Which ONE of those enterprises required the MOST amount of WORK TIME?"

Please enter the category that most closely matches their response. If their response does not match any of the existing categories on the list then enter their enterprise in the "please specify the other enterprise" text box.

Next you will ask them about the number of acres they have in use or active production.

Following this, you will ask if any household member spent time caring for injured or sick children in the household.

The exact wording is:

"The following questions are about time **any household members** spent **caring for** children in your household (less than 20 years of age) because of injuries, illnesses or mental and physical health conditions, from July 1, 2006 through December 31, 2006."

You will then ask them about 3 categories of work that any household member missed because they were caring for the sick or injured children in the household. These questions ask if any household members missed work or chores related to their own operation, work not related to their operation, or if they were unable to do usual child care or home chores or care for other family members due to a child's injuries or health conditions.

If they answer yes to any of these questions then further questions (see section B. Household members), specific to each child in the household, will ask about the length of work time lost and the associated cost.

You will proceed to ask them about health services use by children in the household during the last 6 months of 2006.

The exact wording is:

"The following questions are about the health services used by children in your household (less than 20 years of age), from July 1, 2006 through December 31, 2006."

You will ask them if any children in the household were admitted for an overnight stay in a hospital, went to a hospital emergency room, had any form of therapy, including physical or occupational therapy, speech therapy and audiology, or visited a health care provider. If the answer to any of these is yes then further questions (see section B. Household members), specific to each child in the household, will ask for more details on the specific health service used.

B. Household Members

This next section of the interview will ask for information on each member of the household (including the head of household who is on the phone). The head of household will be asked all questions in relation to a specific household member before moving on to questions about the next person.

The exact wording of this section's introduction is:

"Now I need to collect some information about each member of your household, as of January 1st, 2007. Starting with the people 20 years of age and older (if there is one)…."

You will first ask about those household members who are 20 years of age or older. This will leave the more complex questions that will only be asked about children below the age of 20 until later in the interview.

The first things you ask them are the person's first and last names. The first name will then be used to reference the remaining questions in this section. The respondent is then asked what the person's relationship is to them. You will enter the category from the list that most closely matches their response. If the head of household on the phone is responding about themselves then enter a category of '1' (= Self (respondent)).

After asking them for the person's gender proceed to ask them for the person's **date of birth** (DOB).

The exact wording is:

"What is >Your_name's< birth date?"____/__/__ (YYYY/MM/DD)

If respondent does not know the person's date of birth or refuses to give it then ask them for the person's **age** on Jan 1st, 2007. If respondent also does not know the person's age or refuses to give it then ask them if the person was less than 20 years of age on Jan 1st, 2007. If the answer is yes then ask them if the person was less than 18 years of age on Jan 1st, 2007.

If the person was born after Jan 1st, 2007 then no more questions will be asked about him/her and you will move on to questions about the next household member.

Once the person's age is provided by the respondent or calculated by the system you may receive the following message.

"Warning – According to the relationship and birthdate/age information you have entered the person you are interviewing is too young! Please correct this information if it is in error, or explain that we cannot interview individuals who

were under 18 years of age (as of January 1st) without prior parental permission and schedule a callback."

This means that the respondent themselves is too young to be interviewed and you will need to either change the date of birth that they have provided if it was entered incorrectly or schedule a callback to speak with an older head of household.

Once this sequence of questions about the person's age is finished you will go to the question about the person's **race and ethnicity**.

Exact wording:

"Could you please tell me >Your_name's< race and ethnicity? I'll read a list of racial and ethnic groups and I'd like you to tell me ALL that describe >Title<."

10 White
11 Black, African or African American
12 American Indian or Alaskan Native
13 Hispanic or Latino
14 Asian
15 Native Hawaiian or Pacific Islander
16 Something else
17 Unknown
18 Refused

You will first READ the list and enter ALL of the race and ethnicity categories that apply to their response. If they give a race or ethnicity that does not fit any of the listed categories then enter their response in the "Please specify the other race" field. If the respondent specifies a nationality, such as Italian or Croatian, instead of a race, continue to probe for race.

You will then ask them about the person's **marital status**.

Exact wording:

"As of January 1, 2007, what was >Your_name's< marital status? I'll read you a list of marital status categories and would like you to stop me when I reach the correct one."

Only one category should be entered. If a person is married but was previously divorced then 'married' is the correct response.

Next, you will move on to questions on the person's **health insurance**. These start out with a question asking if the person had any kind of health or medical insurance during the last 6 months of 2006.

Exact wording:

"Was >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from July 1, 2006 through December 31, 2006?"

You will first READ the list of insurance categories and enter ALL of the categories that apply to their response. For the category 3 response ('a medical plan provided by an employer'), this doesn't have to be the individual's employer. It could the employer of any parent or guardian, even a non-custodial parent or guardian. If they describe an insurance type that does not fit any of the listed categories, or if they respond with category 8 ('something else') then enter their response in the "Please specify the other insurance" field.

You will then ask questions about household members' **education**. These questions will be different for adults and children. If the age of the person is **20 or over** then you will ask the respondent what is the person's **highest education level**.

Exact wording:

"As of January 1, 2007, what was the highest grade in school >Title< completed?"

Please enter the category that most closely matches their response. If their response does not match any of the existing categories on the list then enter their education level in the "Please specify the other schooling" text box.

If the age of the person is **under 20** you will ask the respondent what is the person's current **grade** in school.

Exact wording:

"During December 2006, including pre-school, what was ***>Your_name's<*** grade in school? If >Title< didn't go to school that month, what grade had >he_she< last attended?"

If their response = 9 ("N/A – Never attended school"), then you will automatically skip the remaining questions on education. Otherwise you will go on to ask them about the **number of days** the child **missed during the school year**.

Exact wording:

"From the time school started in Fall 2006, until the end of December, how many regular school days did >Title< miss?"

You should make clear to them that these are days missed for any reason, not just illness or injury.

Next, you will ask them about the **child's school performance**.

Exact wording:

"During that same period, how would you rate >Your_name's< school performance? Was it excellent, above average, average, below average or not satisfactory?"

Once the questions about the child's education are finished you will then ask the respondent about the **child's height and weight**. You will ask for the child's height in feet and inches and for their weight in pounds.

The next segment will ask about the **number of hours worked** by each member of the household. You will first ask about work related to their farming or ranching operation.

Exact wording:

"Between July 1st 2006 and December 31st 2006, did >Title< work or do chores in any activity related to your farming or ranching operation?"

If the response is yes then ask them about the number of weeks and hours/week that the person worked in each of the 6 months from July 2006 to December 2006.

Exact wording:

"During >wmonth<, how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?"

If the answer is "the whole month" then enter 4 weeks. If the answer is "0" you will then move on to the next month. If they did record weeks of work in that month, you will then ask them for the average number of hours the person worked per week for those weeks worked in that month.

Exact wording:

"For those weeks, on average, how many HOURS PER WEEK?"

Once this information is entered for all 6 months you will then repeat the sequence of questions about work time, but this time you will ask about paid work that was not related to their own operation.

Exact wording:

"Between July 1st 2006 and December 31st 2006, did >*Title*< do any paid work that was not related to your own operation?"

This can include regular full or part-time jobs, as well as babysitting, lawn mowing, newspaper delivery, work on other farms.

If the response is yes then ask them what kind of job the person did.

Exact wording:

"During that time, what was >Your_name's< primary job or occupation?"

As before, you will then ask them about the number of weeks and hours/week that the person worked in each of the 6 months from July 2006 to December 2006.

Exact wording:

"During >wmonth(*i*)<, how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?"

"For those weeks, on average, how many HOURS PER WEEK?"

You will then ask them about the person's **level of stress**.

Exact wording:

"During the past four weeks, on a scale of 0 to 10, where 0 means "not stressful" and 10 means "extremely stressful", how stressful did you feel life was for >Title<?"

Enter the number they provide, from 0 to 10.

You will then ask them if the person has any **physical limitations**.

Exact wording:

"Does/do >Title< currently have any limitations, including pain, discomfort, or restricted activity, as the result of an injury, illness or other medical condition?"

You will then ask them if these limitations are results of an injury and if those injuries are related to agricultural work. You will also ask how long the person has experienced these limitations.

Exact wording:

"How long has >Title< experienced these limitations?"

This can be entered as years, months, and days.

You will then ask a series of questions about **diagnosed health conditions** that the person may have.

Exact wording:

"Does/do >Title< have any of the following health or medical problems, which have been diagnosed at ANY TIME by a physician, chiropractor, or other health care provider?"

The health conditions are asthma, heart-related problems, diabetes, hearing problems, and vision problems. You will also be prompted to ask them if the person has any other health problems. If so, then record their response appropriate field.

The next segment contains questions about the person's **health-related quality of life**. These questions will only be asked about household members who are **5 years of age or older**. They are taken from a licensed Health Utilities Index (HUI) questionnaire.

Exact wording of the introduction to the HUI questions:

"The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and >his_her< ability to do things on a day-to-day basis, during the past four weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

"You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

The HUI will ask questions about different physical and mental characteristics.

For each question, read the entire sentence as written, emphasing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection.

The following descriptions of the HUI questions include the responses that will cause the interview to skip ahead in the sequence. It is noted where the wording is slightly different when the question is about the respondent themselves rather than another member of the household that the respondent is describing. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

>1< **"**During the past four weeks, has >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

If yes go to >**4**<

>2< "Has >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

If yes go to >**4**<

>3< **"**During the past four weeks, has >Title< been able to see at all?"

If no go to >**6**<

>4< **"**During the past four weeks, has >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

If yes go to >**6**<

>5< "Has >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

If yes go to >**6**<

>6< **"**During the past four weeks, has >Title< been able to hear what is said in a group conversation with at least three other people without a hearing aid?"

If yes go to >**11**<

>7< "Has >Title< been able to hear what is said in a group conversation with at least three other people with a hearing aid?"

If yes go to >**9**<

>8< **"**During the past four weeks, has >Title< been able to hear at all?"

If yes go to >**11**<

>9< **"**During the past four weeks, has >Title< been able to hear what is said in a conversation with one other person in a quiet room without a hearing aid?"

If yes go to >**11**<

>10< "Has >Title< been able to hear what is said in a conversation with one other person in a quiet room with a hearing aid?"

1 Yes *(go to* ***>11****<)*
3 No
8 Don't know/Didn't wear a hearing aid
9 Refused

>11< **"**During the past four weeks, has >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?"

If yes go to >**16**<

>12< "Has >Title< been able to be understood partially when speaking with people who do not know >Title<?"

>13< **"**During the past four weeks, has >Title< been able to be understood completely when speaking with people who know >Title< well?"

If yes go to >**16**<

>14< "Has >Title< been able to be understood partially when speaking with people who know >Title< well?"

If yes go to >**16**<

>15< **"**During the past four weeks, has >Title< been able to speak at all?"

>16< **"**During the past four weeks, has >Title< been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?"

If yes go to >**24**<

>17< "Has >Title< been able to walk around the neighborhood without difficulty and without help or equipment of any kind?"

If yes go to >**24**<

>18< "Has >Title< been able to walk around the neighborhood with difficulty but without help or equipment of any kind?"

If yes go to >**24**<

>19< **"**During the past four weeks, has >Title< been able to walk at all?"

If no go to >**22**<

>20< "Has >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?" *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

>21< "Has >Title< needed the help of another person to walk?"

>22< "Has >Title< needed a wheelchair to get around the neighborhood?"

>23< "Has >Title< needed the help of another person to get around in the wheelchair?"

>24< **"**During the past four weeks, has >Title< had the full use of both hands and ten fingers?"

If yes go to >**28**<

>25< “Has >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?”

If no go to >**27**<

>26< “Has >Title< needed the help of another person with some tasks, most tasks or all tasks?”

1 Some tasks
2 Most tasks
3 All tasks
8 Don’t know
9 Refused

>27< “Has >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?”

>28< **“**During the past four weeks, has >Title< been able to eat, bathe, dress and use the toilet without difficulty?”

If yes go to >**31**<

>29< “Has >Title< needed the help of another person to eat, bathe, dress or use the toilet?”

>30< “Has >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?”

>31< **“**During the past four weeks, has >Title< been feeling happy or unhappy?”

1 Happy
2 Unhappy *(go to >**33**<)*
8 Don’t know
9 Refused

>32< **“**Would you describe yourself/>Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?”

1 a) happy and interested in life *(go to **>34**<)*
2 b) somewhat happy *(go to >**34**<)*
8 Don’t know *(go to >**34**<)*
9 Refused *(go to >**34**<)*

>33< **“**Would you describe yourself/>Title< as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?”

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don’t know
9 Refused

>34< **“**During the past four weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?”

If yes go to >**37**<

>35< “How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?”

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don’t know
9 Refused

>36< **“**During the past four weeks, did >Title< feel extremely fretful, angry, irritable, anxious or depressed; to the point of needing professional help?”

>37< **“**How would you describe >Your_name’s< ability to remember things, during the past four weeks:
a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?”

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don’t know
9 Refused

>38< **"**How would you describe >Your_name's< ability to think and solve day to day problems, during the past four weeks:
a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?"

1 a) able to think clearly and solveproblems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don't know
9 Refused

>39< "Has >Title< had any trouble with pain or discomfort, during the past four weeks?"

If yes go to >**41**<

>40< "How many of >Your_name's< activities, during the past four weeks, were limited by pain or discomfort: none, a few, some, most, all?"

1 None
2 A few
3 Some
4 Most
5 All
8 Don't know
9 Refused

>41< **"**Overall, how would you rate >Your_name's< health during the past four weeks:
a) excellent
b) very good
c) good
d) fair
e) poor?"

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don't know
9 Refused

After the HUI questions are finished you will ask about the respondent about the person's **overall health**.

The exact wording is:

"Using a scale of 0 to 10, where 0 means "the worst possible health" and 10 means "the best possible health", how would you rate >Your_name's< health?"

You will then ask them about the person's **overall quality of life**.

The exact wording is:

"Using a scale of 0 to 10 where 0 means "the worst possible life overall" and 10 means "the best possible life overall", how would you rate >his_her< life?"

In the next segment, you will ask them about the person's behaviors, characteristics, and activities in the last 4 weeks. These questions are only asked about those household members who are **below the age of 20**. The response for each question is based on an 11 point scale between 0 and 10.

First, ask them about the **child's development**.

Exact wording:

"On a scale of 0 to 10, where 0 means "not well at all" and 10 means "extremely well", compared to expected development for children this age, how well, overall, was >Title< doing in terms of social relationships, learning, play, chores or work?"

Then ask them about the **child's level of happiness**.

Exact wording:

"On a scale of 0 to 10, where 0 means "not happy at all" and 10 means "extremely happy", compared to children the same age, how would you rate >his_her< overall happiness?"

Then ask them to describe their **level of concern about the child**.

Exact wording:

"On a scale of 0 to 10, where 0 means "no concern" and 10 means "extreme concern", rate your level of concern about >Title<?"

The next series of questions ask **how often the child did certain activities and had certain characteristics** during the past 4 weeks.

Exact wording:

"The next questions are about your perception of >*Your_name's*< behaviors or actions during the past four weeks. Choose the answer that best describes HOW OFTEN the following happened or WAS TRUE of >Title< during that month. Would you say that >he_she< ALMOST NEVER, SOMETIMES, OFTEN or ALMOST ALWAYS..."

"Completed >his_her< work and chores?"

"Worked hard?"

"Was irritable?"

"Looked sad or down?"

"Had low energy?"

Once they respond, enter the number for the category that matches their response.

You will then ask them about their **level of strictness with the child** in relation to different topics. You will acknowledge the fact that their level of strictness is dependent on the age of the child.

Exact wording:

"The next few questions ask about YOUR experience in strictness with >Title<. We recognize that parents differ in how strict they are with their children because of children's abilities at different ages.

During the past four weeks, how STRICT were you about the FOLLOWING: Not strict, somewhat strict, moderately strict or very strict?"

"Knowing where >Title< was?"

"Knowing who >he_she< was with when >he_she< was out?"

Next ask them to describe their **level of concern** about the **child's physical health**, emotional health, and behavior.

Exact wording:

"The next few questions are about YOUR level of comfort with>Your_name's< well-being during the past four weeks. On a scale of 0 to 10, where 0 means "no concern" and 10 means "extreme concern", to what degree were you worried or concerned by >Your_name's< …"

"Physical health?"

"Emotional health?"

"Behavior?"

Next ask them how the **child's physical or emotional health or behavior affected their own time.**

Exact wording:

"On a scale of 0 to 10, where 0 means "not at all limited" and 10 means "extremely limited", to what degree were you limited in the amount of time you had for your own needs, because of >his_her< physical or emotional health or behavior?"

You will then ask them how the **child's physical or emotional health or behavior affected family activities**.

Exact wording:

"On a scale of 0 to 10, where 0 means "no interruption" and 10 means "always interrupted", to what degree were various everyday family activities interrupted, as a result of >title<'s physical or emotional health or behavior?"

The following segment will ask them to describe **work that was missed by any household member when caring for the child because of injuries or illnesses the child may have had**.

The interview will skip these questions when asking a respondent about a child in the household, if the corresponding lead-in question above (section A. Household Information) has a "No" response.

Exact wording of question description:

"In the following questions, I will ask about the amount of time any household members spent caring for >Title< because of injuries, illnesses or mental and physical health conditions, from July 1, 2006 through December 31, 2006."

First series of question are about **missed days of work or chores related to their farming or ranching operation**.

Exact wording:

>1< **"**Did any household members miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injuries, illnesses or health conditions?"

If "no", or "unknown", or "refused" then go to **>2<**

If yes then ask how many days were missed.

Exact wording:

>1a< **"**About how many (8 hour) work days were missed?"

0 Less than one day

___ 1 – 184 days

8 Unknown

9 Refused

Ask if anyone substituted for these household members when they missed work.

Exact wording:

>1b< **"**Did anyone else substitute for these household members when they missed work days?"

If "no", or "unknown", or "refused" then go to **>1d<.**

If yes then ask how much was paid for the help.

Exact wording:

>1c< "About how much was paid for this help?" ____

You will ask them if this amount is per hour, per day, per week or the total amount.

Next, ask them about the total income lost in association with the lost work days.

Exact wording:

>1d< "About how much income did these household members lose in association with these lost work days?"

0 Nothing

___ 1 – 99997 dollars

99998 Unknown

99999 Refused

The next series of questions are about **missed days of work NOT related to their farming or ranching operation**.

Exact wording:

>2< "Did any household members miss days of work not related to your farming or ranching operation, due to >Your_name's< injuries, illnesses or health conditions?"

The follow-on questions about the missed days of non-operation related work follow the same format as those for the missed days of operation related work above (see **>1a<** to **>1d<**).

The next series of questions are about **days where household members were unable to do usual child care or home chores** when caring for the child because of injuries or illnesses the child may have had.

Exact wording:

>3< "Were any household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for >Title<, due to >his_her< injuries, illnesses or health conditions?"

The follow-on questions about the missed days of usual child care or home chores follow the same format as those for the missed days of operation related work above (see **>1a<** to **>1d<**).

The next segment of the interview will ask about **health services used by the child** (< 20 years of age). The interview will skip these questions when asking a respondent about a child in the household, if the corresponding lead-in question above (see section A. Household Information) has a "No" response.

Exact wording:

"In the following questions I will ask about the health services used by children in your household, from July 1, 2006 through December 31, 2006."

You will then ask them if the child was **admitted to a hospital**, **went to a hospital emergency room** (excluding ER visits that preceded a hospital admission), **had any form of therapy, including physical or occupational therapy, speech therapy and audiology,** or **visited a doctor or other health care provider or received a health care treatment**. If the answer to any of these is yes then a follow-on question asks **how many times the health service was used in the 6-month period**.

You will then ask them if there were any **barriers that kept the child from obtaining health care**.

Exact wording:

"At any time, from July 1, 2006 through December 31, 2006, was >Title< unable to get **medical** care, tests, or treatments that >he_she< or a doctor believed to be necessary?"

Specify: _____

Enter the text of their response in the appropriate field.

You will then ask them more detailed questions about each health service the child used in the last 6 months of 2006.

If you have recorded at least one **hospitalization** then the following series of questions will be repeated for each of the hospitalizations. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

Exact wording:

"How many nights did >Title< stay in the hospital during hospitalization #>count<?"

0 Less than 1 full night

____ 1 – 184 nights

998 Unknown

999 Refused

"Did that hospital stay begin with a visit to an emergency room?"

Ask them if an illness or injury associated with their farming operation was related to the child's hospital stay.

Exact wording:

"Was the hospital stay related to an illness, injury or health condition associated with your farming or ranching operation?"

If "yes" then ask them to describe the illnesses, injuries or health conditions.

Exact wording:

"What illnesses, injuries or health conditions were discovered or led >Title< to enter the hospital?"

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

PROBE for any other conditions and enter up to 4.

"Which of the following categories best describes the reason >he_she< entered the hospital?"

1 Operation or surgical procedure

2 Treatment or therapy, not including surgery

3 Diagnostic tests only

4 Other (specify)

8 Unknown

9 Refused

You will first READ the list and then enter the category that fits their response. If their reason does not fit any of the listed categories then enter their response in the "Please specify - Other" *field.*

Next ask about any operations or surgical procedures that the child may have had during the hospitalization.

Exact wording:

"Were any operations or surgical procedures performed on >Title< during that hospital stay?"

If "yes" then ask them to describe the operations or surgical procedures.

Exact wording:

"Please describe the **operations or surgical procedures.**"

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

PROBE for any other operations or surgical procedures and enter up to 4.

If you have recorded at least one **emergency room visit** then the following series of questions will be repeated for each of the visits. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

First ask them if an illness or injury associated with their farming operation was related to the child's emergency department visit.

Exact wording:

"Was emergency department visit #>count< related to an illness, injury or health condition associated with your farming or ranching operation?"

If "yes" then ask them to describe the illnesses, injuries or health conditions.

Exact wording:

"What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?"

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

PROBE for any other conditions and enter up to 4.

"Which of these **services**, if any, did >Title< have during that visit?"

1 Laboratory tests

2 X-rays

3 MRI, CATSCAN, Sonogram or ultrasound

4 Other diagnostic test(s) (specify)

5 Other treatment (specify)

0 No services received

8 Unknown

9 Refused

Read list and enter all that apply. Do not record surgical procedures here. If they describe a diagnostic test that does not fit any of the listed categories then enter their response in the "Please specify – other diagnostic test(s)" field. If they describe a treatment that does not fit any of the listed categories then enter their response in the "Please specify – other treatment" field.

Next ask if a surgical procedure was performed on the child during the emergency room visit.

Exact wording:

"Were any surgical procedures performed on >Title< during that visit?"

If "yes" then ask them to describe the surgical procedure.

If you have recorded at least one **visit to a doctor or other health care provider** then the following series of questions will be repeated for each of the visits. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

First ask them about the type of care received.

Exact wording:

"Which category best describes the type of **care** >Title< received during visit #>count<?"

1 Well child exam or General check-up

2 Immunizations or shots

3 Diagnosis or treatment

4 Follow-up or post-operative visit

5 Other care (specify)

8 Unknown

9 Refused

If they describe a type of care that does not fit any of the listed categories then enter their response in the "Please specify – other care" field. If the response = 1 or 2 then move on to the next visit. For all other responses continue with the following questions.

Ask them to describe where the visit took place.

Exact wording:

"In which of these places did that visit take place?"

1 Walk-in or Urgent care center

2 Doctor's office or Clinic

3 Free-standing surgical center

4 Some other place (specify)

8 Unknown

9 Refused

If they describe a location that does not fit any of the listed categories then enter their response in the "Please specify – other place" field.

Ask them if an illness or injury associated with their farming operation was related to the child's visit.

Exact wording:

"Was the visit related to an illness, injury or health condition associated with your farming or ranching operation?"

If "yes" then ask them to describe the illnesses, injuries or health conditions.

Exact wording:

"What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?"

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

PROBE for any other conditions and enter up to 4.

C. More Household Information.

Exact wording:

"I just have a few more questions about your household."

If you have already recorded that the age of at least one child in the household is 17 years or younger then ask the respondent about their **caregiver status**.

If there is only one child who is 17 years of age or younger then ask the following question.

Exact wording:

"Are you >Child17<'s primary caregiver?"

If there is more than one child who is 17 years of age or younger then ask the following question instead.

Exact wording:

"Are you the primary caregiver for All children, Some Children or No children 17 years of age or YOUNGER in your household?"

0 None of them

1 Some of them

2 All of them

8 Unknown

9 Refused

Next, ask them about any **out-of-pocket medical expenses** incurred by the household in the past 6 months.

Exact wording:

"About how much did your household pay out-of-pocket for medical care in the last 6 months? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one.

0 Nothing

1 Less than $500

2 $500 - $4,999

3 $5,000 – $9,999

4 $10,000 - $19,999

5 $20,000 - $49,999

6 $50,000 or more

8 Unknown

9 Refusal

Read list until they stop you.

The last question is about their **household income**.

Exact wording:

"Please estimate your 2000 net household income, after taxes, from all sources. Would it be:"

1 Less than $15,000

2 $15,000 - $29,999

3 $30,000 - $49,999

4 $50,000 - $99,999

5 $100,000 or more

8 Unknown

9 Refusal

Read list of possible answers and enter the income range that matches their response.

The final task is to thank them for participating in the interview and remind them that they will be contacted again in six months for a shorter follow-up interview.

Exact wording:

"Thank you very much for your time today. Your cooperation gives us important information about factors that will help to better understand the experiences of families operating farms and ranches. We will be calling your household again in approximately six months for a shorter follow-up interview. We look forward to speaking with you then. GOOD-BYE."

- **END OF BASELINE INTERVIEW –**

APPENDIX I

IMPORTANT SURVEY TECHNIQUES

Participants may remember more about how the interview was conducted than they will about the topics covered in the interview. This emphasizes the importance of the interviewer being professional and capable of accepting what the participant says without apparent judgment. It is important to remember that the intent of survey interviews is to collect information. A number of factors can increase the participant's receptiveness and success of the interview:

A. Establishing A Rapport

The participant and the interviewer need to establish a good rapport**.** Rapport is a term used to refer to the interpersonal connection established between the interviewer and the participant. Rapport sets the foundation for good interviewing. The participant's impression of you during your introduction and early remarks will have a considerable impact on the rapport that will develop. You, the interviewer, need to impress the participant as being someone who is not only understanding and accepting, but sincere and courteous as well.

B. Identifying The Importance Of The Project

The extent to which an interviewer might have to explain the project will vary considerably from respondent to respondent. All households that you call should have received a letter explaining the project prior to your contact by telephone. Respondents may have several questions to ask about the project; therefore, do not assume that they will fully cooperate at this point. All prospective participants, even those who are least interested in participating, should feel that the project is important. If they question the importance of the project, you should tell them that farm/ranch accidents and injuries are a major problem and that the results of this project will be used to decrease the problem of accidents and injuries in agricultural households. If they question how their participation can help, you must assure them that their cooperation will be meaningful not only to the project results but, also ultimately, to themselves, their families and their communities.

C. Establishing Confidence Among The Participants

Participants need to feel confident in responding to the interview questions. Participants will usually not interrupt the interviewer. You, the interviewer, must therefore be alert to doubts the participant may have, even if he/she does not express them vocally (i.e., through apparent hesitation). You must attempt to clarify the questions for them.

D. Asking The Questions

Your goal is to collect accurate information through the use of the CATI data collection instrument. Data from project participants must be collected in a uniform manner. Thus, all people in a sample must be asked the same questions in the same way as they have been designed.

The following principles and techniques must be employed when using the CATI instrument:

1. **Always Remain Neutral.** The interviewer must be careful that nothing in his/her words or manner implies criticism, surprise, approval, or disapproval of either the questions asked or of the participant's answers. The questions should be asked in such a way that the same answers would be obtained no matter who was asking them.
2. **Ask all Questions Exactly as Worded**. ***Even the smallest change can affect the entire meaning of the question. Do not change even one word in the question that is on the screen.*** If a respondent does not understand the question the first time you read it, do not re-word it. Simply re-read the question as it is stated, even if you feel the question could be stated differently. Great care was taken in writing each question; every word is there for a reason. In order for all of the data collected to be meaningful and accurate, there must be no doubt that each participant heard exactly the same question asked in the same way before answering.

3. **Hold The Participant's Interest..** Try to keep your attention focused on the participant and not overly absorbed in the questionnaire. However, you should also try to stay alert to the flow of the interview and whether, or not, the answers being given are sufficient, clear and appropriate to the questions asked.

E. Probing

Probing is the technique used by the interviewer to obtain more specific and necessary information. For example, if an answer seems inadequate in relation to the information needed for the project, you may need to probe in order to obtain more information. Probing has three major functions:

- to motivate the participant to enlarge upon, clarify, or explain his/her answers;
- to focus the participant's answers so that irrelevant and unnecessary information can be eliminated;
- to pinpoint information, such as dates, names, locations, as accurately as possible.

Interviewers must fully understand the purpose and meaning of each question. Once you understand the purpose or rationale of each, you will find it much easier to decide if you have a satisfactory answer or whether you should probe for a clearer and more complete one.

Probing should not bias the response or antagonize the participant.

Probes must always be neutral. Remember, you want to motivate the participant to respond more fully or to focus his/her answer without introducing bias, especially your own views. The potential for bias is great in the use of probes. Under the pressure of the interviewing situation, the interviewer may quite unintentionally imply that some answers are more acceptable than others or may hint that a participant might want to consider this or include that in giving a response. **Do not lead the participant into an answer**.

1. Types Of Probes

A number of different neutral probes that appear as a part of a normal conversation can be used to stimulate a fuller, more complete response.

- An expression of interest and understanding;
- An expectant pause;
- Repeating the question;
- Repeating the participant's reply;
- A neutral question or comment.

a. Probes to Clarify:

1) **What do you mean by . . .?**
2) **What do you mean exactly?**
3) **Could you please explain that a little?**
4) **I don't think I quite understand.**

b. Probes for Specificity :

1) **What in particular do you have in mind?**
2) **Can you be more specific about that?**

3) **Tell me about that: who/what/when/where/why . . .?**

c. Probes for Data Specificity:

1) **Was that before or after your hospitalization?**
2) **What type of farm equipment was that?**
3) **Were you working at the time?**

d. Probes for Relevance:

1) **I see. Well, let me ask you again...(Repeat question exactly as worded).**
2) **Would you tell me exactly how you mean that?**

e. Probes for completeness:

1) **What else?**
2) **What else can you think of?**
3) **What other reason/things/examples can you think of?**

2. <u>When to Stop Probing</u>

If at any time the participant becomes obviously irritated or annoyed, discontinue probing. We do not want the participant to refuse the rest of the interview. If the participant accepts the probing, continue until you have obtained as much information as possible to fully answer the question. If the probing is done correctly, you will most likely obtain a complete answer.

APPENDIX II

ANSWERING PARTICIPANTS' QUESTIONS

Respondents will undoubtedly have questions about the interview as the interview progresses. They may also ask similar questions when you make the initial phone contact.

A. Typical Questions Participants Ask:

1. **Why are you interviewing me?**
2. **Who gave you my name?**
3. **Why are you doing this project?**
4. **Why are you interviewing me? We didn't have any injuries.**
5. **Who will see the information I give you?**
6. **How will the information be used?**
7. **How long will this take?**

You must have ready and convincing answers to questions such as these. Examples of how to respond to these types of questions are given below:

B. Examples of Responses to Respondents' Questions

1. Why are you interviewing me?

It is important that we interview you since this is a project of farm households that are representative of the entire agricultural community.

2. Who gave you my name?

Your farm was picked randomly from a list that is maintained by the National Agricultural Statistics Service for each state.

3. Why are you doing this project?

The purpose of the project is to determine the extent and the consequences of farm/ranch-related injuries among household members. The findings will also serve as a basis for determining the best ways to prevent such injuries. Specifically, we are asking questions about the farm or ranch, farming/ranching operation-related activities, household members, and any injuries that may occur during 2007. The findings will provide important information that will be used in the development of relevant injury prevention programs.

4. Why are you interviewing me? We didn't (don't) have any injuries.

Farm/ranch households with no injuries are just as important to the project as those households that have injuries. All of the information we obtain is important and essential in helping to gain a full understanding of the injury problem. Because there are many different types of farms/ranches and exposures to various activities, it is important to determine differences between those that have injuries and those that do not. This information serves as a basis for development of injury prevention programs.

5. Who Will See The Information I Give You? How Will The Information Be Used?

A *coded number* is assigned to each person interviewed so that *all information is then identified by the number only*. An individual is never identified in any report since results of the project are presented in group form only. For example, a result might be presented in the following form:

- Dairy farming was considered the major farm enterprise for 32% of farms surveyed.
- Injuries occurred among 9% of farms surveyed.
- 53% of all farm-related injuries required a doctor's care.

APPENDIX III

CONTENTS OF INFORMATION PACKET SENT TO HOUSEHOLDS THAT WERE SELECTED FOR PARTICIPATION INTERVIEW

REGIONAL RURAL INJURY STUDY - III
2007

INJURY INTERVIEW # 1

INTERVIEWER MANUAL

A COLLABORATIVE EFFORT:

University of Minnesota
Regional Injury Prevention Research Center
and
U.S.D.A. National Agricultural Statistics Service

REGIONAL RURAL INJURY STUDY – III

FIRST 6-MONTH INJURY INTERVIEW

INTERVIEWER MANUAL

August 2007

A COLLABORATIVE EFFORT:

University of Minnesota
Regional Injury Prevention Research Center
and
U.S.D.A. National Agricultural Statistics Service

REGIONAL RURAL INJURY STUDY – III
INJURY INTERVIEW # 1
INTERVIEWER MANUAL

I. OVERVIEW OF THE REGIONAL RURAL INJURY STUDY - III (RRIS-III)

A. The Project

The overall objective of this project is to identify and quantify the short- and long-term physical disabilities, and psychosocial and economic consequences of injuries that occur among children and youths living in agricultural operation households. The project focuses on people who live in the five-state region of Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin.

Injury consequences will be identified by comparing follow-up/evaluation data with baseline data, between those households with own-agricultural-operation-related injuries (OAOR-injured) and those without *own-agricultural-operation-related injuries (non-OAOR*-injured).

B. Sequences of Interviews and Types of Data Collection

There are several distinct stages of the project.

I. ELIGIBILITY SCREENING AND PARTICIPATION INTERVIEW

II. BASELINE DATA COLLECTION INTERVIEW (prior to injury data collection periods; refer, also, to EVALUATION/FOLLOW-UP INTERVIEWS)

Demographics

Household information: type of agricultural operation; acres in active production; household income/economic status measurements; out-of-pocket medical expenses.
All household members: days lived in household; age; gender; race; education level; marital status; insurance/type of coverage, hours worked on and off the agricultural operation

Specific to children (those <20 years): height/weight; specific grade in school

Health Status/Disability – Physical, Psychosocial, and Economic Status *(*All household Members*)*

- Quality of Life measures (includes physical and mental health); perceived stress
- Current health limitations – history of prior agricultural/other injury
- Diagnosed health conditions
- *Specific to children (those <20 years):* Number of missed school days; school performance; developmental/ behavioral characteristics; parental monitoring/strictness; health services used; work time lost by household members caring for sick or injured children

III. <u>INJURY DATA COLLECTION</u> (two data collection periods of six-months, each = 12 months total)

INJURY INTERVIEW #1

Injury experience - January 1, 2007 through June 30, 2007

- Agricultural operation-related (other activity-related injuries)
  - Date/time of event
  - Location
  - Source/vehicle of injury (e.g., animal, tractor, motor vehicle, other large machinery, surfaces/falls, chemicals, etc.)
  - Associated activity/surrounding circumstances
  - Anatomical location(s)/types/diagnosis(es) of injury(ies)

Immediate and Short-term consequences

- Hospitalization, including hospital days for outpatient procedures (length); other type of health care (emergency department visit, clinic visit/urgent care, mental health/counseling)
- Length and degree of restricted activity from regular activities
- Current restriction/disability; type of persistent problems
- Length of lost school time
- Length of lost work time for child due to injury
- Length of lost work time for adult(s) due to child's injury
- Estimate to replace cost of work that child was doing on the agricultural operation/lost earnings
- Health care costs (total and personal; deductibles)
- Restricted activity/disability due to other events in past 6 months
- Health-related quality of life (changes in)

INJURY INTERVIEW #2

Injury experience - July 1, 2007 through December 31, 2007 (same as Injury Interview #1)

Immediate and Short-term consequences (same as Injury Interview #1)

Six-month continued consequences follow-up for Injuries identified in Injury Interview #1 (see Immediate and Short-term consequences)

IV. <u>EVALUATION/FOLLOW-UP #1</u>: (following injury data collection periods)

One-year follow-up subsequent to Injury Interview #1

Changes in Household Demographics (see II. Baseline Interview for description of questions)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (see II. Baseline Interview for description of questions)

Continued consequences follow-up for Injuries identified in Injury Interview #1 (see Immediate and Short-term consequences)

Six-month continued consequences follow-up for Injuries identified in Injury Interview #2 (see Immediate and Short-term consequences)

V. ***EVALUATION/FOLLOW-UP #2:*** (following injury data collection periods)

One-year follow-up subsequent to Injury Interview #2

Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued consequences follow-up for Injuries identified in Injury Interview #2 (same as above)

VI. ***EVALUATION/FOLLOW-UP #3:*** (following injury data collection periods)

Two-year follow-up subsequent to Injury Interview #1

Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued consequences follow-up for Injuries identified in Injury Interview #1 (same as above)

VII. ***EVALUATION/FOLLOW-UP #4:*** (following injury data collection periods)

Two-year follow-up subsequent to Injury Interview #2

Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued consequences follow-up for Injuries identified in Injury Interview #2 (same as above)

FIGURE 1. OVERVIEW OF THE PROJECT TIMELINE

INTERVIEW	2007	2008	2009	2010
Eligibility Screening and Participation Interview	Feb			
Baseline Interview	Feb			
Injury Interview #1	Aug			
Injury Interview #2		Feb		
Evaluation/Follow-up #1		Aug		
Evaluation/Follow-up #2			Feb	
Evaluation/Follow-up #3			Aug	
Evaluation/Follow-up #4				Feb

C. How Participants Are Contacted for the Injury Interview # 1

Participants are contacted both by mail and by telephone.

1. Information Packet

In July 2007, an information packet was sent to all farm/ranch households that are eligible and willing to participate in the study, based on their responses to the initial participation interview. The packets are sent from the USDA National Agricultural Statistics Service (NASS) Office. The packet contains a letter, information sheets, and worksheets. The letter, on University of Minnesota letterhead, is from the Project Investigators. This letter thanks them for their willingness to participate and provides brief information about the upcoming injury interview. The information sheet describes the types of questions that will be asked in the injury interview, provides an injury definition for this study, describes types of injuries, and gives examples of persistent problems that may result from injuries. The information packet contains 2 worksheets.

The first worksheet asks the recipient to record injuries incurred by each household member during the period from January 2007 through June 2007. Information requested for each injury include the following: date, source, type, body part affected, persistent problems, and length of restricted activity. A calendar and body-part chart are included for reference. The second worksheet will ask the recipient to record the type of medical insurance for each member of the household. In addition, this worksheet also asks the recipient to record their best estimate of the number of months worked, the average number of weeks worked per month and the average number of hours worked during each of those weeks, for the period from January 2007 through June 2007, for each member of the household. This will be asked separately for work that is related to their agricultural operation and work that is related to other activities.

The purpose of these worksheets is to improve the accuracy and speed of responses to the corresponding questions in the injury telephone interview.

2. Injury Interview # 1

You will begin calling participants on the telephone within a few weeks after these packets are sent. The first full 6-month injury interview will consist of 2 sections, **the household log** and **injury log**. The **household log** will be used to update household information that was obtained in the baseline interview, for the 6-month period between January 1st and June 30th, 2007. This will include information on the operation such as type of operation and number of acres in use. For each household member we will obtain updated information about their type of medical insurance, average number of work hours per week, and health-related quality of life. The respondent will also be asked if household members suffered from illnesses during this period that resulted in restricted activity or persistent problems. **The injury log** will obtain, for each member of the household, information about injuries incurred during the first 6 months of 2007, that includes date of the injury, type of injury, location of injury event, body part affected, and a description of how the event occurred. In addition, information on the short-term consequences of the injuries will be obtained. This includes type of health care sought, length of restricted activity and persistent problems. For injuries incurred by children, we will ask more detailed questions about health care services used and medical expenses. Also, for injuries among children, we will ask about lost work time and the associated economic cost. Households that choose not to participate in the full 6-month injury interview will be asked to complete a brief abbreviated interview (Appendix III).

D. How Data for the Project Are Collected

The data for this project are collected by interviewing participants on the telephone. While you, the interviewer, are speaking to the participant, the questions you ask will appear on the top of a computer screen in front of you. After you enter the answer to one question, a new question will appear on the screen. This method of interviewing, using questions on a computer screen and collecting information directly into the computer, is made possible by the Computer-Assisted Telephone Interview (CATI) system. It is very important that you ***enter exactly what the participant told you***

because the CATI system takes you to the next appropriate screen depending upon answers previously given.

The question you ask the participant appears at the top of the computer screen, but the place you enter the answer is at the bottom of the screen. The bottom of the screen contains a list of abbreviated words with spaces for entries next to them. The abbreviated words are what we call the *variable names* that refer to each question. You do not need to know, remember or understand the variable names; they are there more for our reference than for yours.

Most of the questions you ask will have only a few possible answers listed. Some questions will also allow the participant to select more than one of the possible answers. Possible answers will appear below the question, and each answer will be next to a number. For many of the questions, you will fill in the blank next to the variable name with the *number (or the numbers)* next to the answer(s) the participant gives you. Sometimes you will fill in the blank with a word or short phrase (up to 25 characters). At other times, you will be instructed by the program to enter the response directly into the F9 Notes, followed by "///", so that the entry can be quickly located and extracted. The place where you fill in the answer(s) will be blinking on the screen, so you do not have to know where to place the cursor. The CATI system will place it for you, automatically.

II. FIRST 6-MONTH INJURY INTERVIEW - Begins August, 2007

The injury interview should take approximately 20-30 minutes, for an average sized family with an average number of experiences. Some will be longer and some shorter. Below we list the basic components of this interview along with an explanation (in italics) for the reasoning behind each component. The exact wording of the questions in the most important segments of the interview is given here in a larger font. Although the exact wording of the other questions is not given here, the exact wording will appear on the computer screen in front of you when you actually ask the question.

A. Talking to correct respondent.

After verifying that you have contacted the correct household the next step is to get the preferred respondent on the phone. The preferred respondent for the injury interview is the head of household who responded to the baseline interview. The name of this respondent will be carried forward from the baseline interview and will appear on the screen. If this person is unavailable then a callback should be scheduled. If he/she will not be available for a callback then you will ask to speak with the other head of household. If the other head of household is currently unavailable then you will schedule a callback to speak with him/her.

When you have the desired respondent on the phone you will verify their name, that they are the male or female head of household, and whether or not they are the same respondent from the baseline interview. You will then proceed with the introduction to the injury interview.

B. Conducting the Interview

The introduction reminds them of the purpose of the study, that they agreed to participate in the study and that they are eligible for the savings bond drawing. It briefly summarizes the type of questions that you will be asking them and reassures them that the data we collect is confidential. You will explain that if they are uncomfortable with answering any question they can choose to skip it.

Once you have obtained their permission to continue with the interview you will ask them if they have received the interview information packet with the colored forms.

The exact language you will use is:

"We recently mailed you an interview information packet containing two letters and a set of colored forms. It would be helpful if you had the forms in front of you as we speak. Do you have them available?"

If they do have the forms available you will ask them if they can get them. If the forms are unavailable then you can still proceed with the interview.

1a. Household Information

a. First ask them about their type of agricultural operation.

The exact wording is:

"In which of these farming or ranching enterprises was your operation engaged **between January 1st and June 30th, 2007**? Please wait until I finish reading the entire list, then tell me all that apply."

It is important that you first read the list and then enter the first three of their responses; otherwise the order of their responses might be influenced by the order of the categories in the list.

Please enter the categories that most closely match their responses. If a response does not match any of the existing categories on the list, or if you don't know which category it fits, then enter their enterprise in the "please specify the other enterprise" text box.

b. Once you have recorded their enterprises, you will then ask them which one took the most amount of work time. *(If only one was recorded, this question will not appear.)*

The exact wording is:

"Which ONE of those enterprises required the MOST amount of WORK TIME?"

Again, please enter the category that most closely matches their response. If their response does not match any of the existing categories on the list, or if you don't know which category it fits, then enter their enterprise in the "please specify the other enterprise" text box.

c. Next you will ask them about the number of acres they have in use or active production.

1b. <u>Household Members</u>

This next section of the interview will ask for information on each member of the household (including the head of household on the phone). The head of household will be asked all questions in relation to a specific household member before moving on to questions about the next person.

The exact wording of this section's introduction is:

> "The next set of questions is about the people who were identified as members of your household AS OF JANUARY 1, 2007. This includes those living in your household now, and anyone who may have moved out or passed away since January 1, students away at college, and children who reside in multiple households, including yours"

You will then refer them to the gold forms which they, hopefully, will have in front of them and filled out with information for several of the upcoming questions. For questions related to individual household members, the interview will refer to each person using the name that was provided in the baseline interview.

a. If it is not the same respondent as the baseline interview, the respondent is asked what the person's relationship is to them. You will enter the category from the list that most closely matches their response. If the person on the phone is responding about themselves then automatically enter a category of '1' = Self (respondent), without reading the question to them. *This question is skipped if you are speaking to the same respondent, because the relationship to them was collected in the baseline interview.*

b. You will then verify that the person was living in the household during the 6 months between January 1st and June 30th, 2007.

"Did >first_name< live in your household as of June 30, 2007?"

People on vacation on June 30, 2007 are considered to be living in the household.

If the answer is 'no', you will ask the following:

"Did >first_name< move or pass away between January 1 and June 30, 2007?"

People who moved will include those who left for school or to live in another household, whether temporarily or permanently There is also a response category for household members who did not live in the household at any time during the six months. This category often includes students away at school who had not returned by June 30th.

If the person moved or passed away during the 6-months then you will ask the respondent in which month and on what day of the month this occurred.

c. You will proceed to ask them for the person's **date of birth** (DOB), *but only if this was not provided in the baseline interview or the information in the baseline interview was inconsistent*. If they refuse to give the person's DOB or if they do not know it, then you will ask them for the person's age as of January 1st, 2007, but only if this was not provided in the baseline interview. If the person's age is unknown and they refuse to give it, then you will ask them if the person was less than 20 years of age on January 1st, 2007, if this information was not already provided in the baseline interview.

At this point in the interview, if the person was not in residence in the household during the 6 months then the interview will move on to the next person. If the person was in residence in the household during the 6 months then you will ask the respondent if the person was below the age of 18 on July 1st, 2007, if their age is unknown, but they have already been identified as less than 20.

Once a respondent's age is provided or calculated by the system you may receive the following message.

"Warning – According to the relationship and birth date/age information you have entered the person you are interviewing may be too young! Please correct this information if it is in error, or explain that we cannot interview individuals who were under 18 years of age (as of January 1st) without prior parental permission and schedule a callback."

This means that the respondent is too young to be interviewed and you will need to either change the date of birth or age that they have provided if it was entered incorrectly or schedule a callback to speak with an older head of household.

d. Next, you will move on to questions on the person's **health insurance**. If the person was living in the household for only part of the 6 months then you will first state the following:

I'd like to ask you some questions about >first_name< even though >he_she< was not living with you as of June 30th

Then ask if the person had any kind of health or medical insurance during the first 6 months of 2007.

Exact wording:

"Was >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from January 1, 2007 through June 30, 2006?"

If they were insured, you will need to probe to find out if they had insurance coverage for the entire time or part of the time. If it was only part of the time, you will ask how long.

Exact wording:

"During that period, for how many months DID >Title< have health care coverage?"

THEN you will ask the types of insurance coverage they had, READ the list of insurance categories and enter ALL of the categories that apply to their response. For the category 3 response ('a medical plan provided by an employer'), this doesn't have to be the individual's employer. It could the employer of a spouse, any parent or guardian, even a non-custodial parent or guardian. If they describe an insurance type that does not fit any of the listed categories, or if they respond with category 8 ('something else') then enter their response in the "Please specify the other insurance" field.

e. The next segment will ask about the **number of hours worked** by each member of the household. You will first ask about work related to their farming or ranching operation.

Exact wording:

"Between January 1st 2007 and June 30th 2007, how many months did >Title< work or do chores in any activity related to your farming or ranching operation?"

If the response is "0" then you will then move on to ask them about work not related to their operation.

If the response is greater than "0" then ask them about the **number of weeks** that the person **worked** on their operation **in an average month** from January 2007 thru June 2007.

Exact wording:

"During that time, in an average working month how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?"

If the answer is "the whole month" then enter 4 weeks. You will then ask them for the **average number of hours** the person **worked per week**.

Exact wording:

"For those weeks, on average, how many HOURS PER WEEK?"

Once this information is entered you will then repeat the sequence of questions about work time, but this time you will ask about **paid work that was <u>not related</u> to their own operation**.

These questions will be skipped if the person is less than 12 years of age.

Exact wording:

"Between January 1st 2007 and June 30th 2007, how many months did >Title< do any paid work that was not related to your own operation?"

This can include regular full or part-time jobs, as well as babysitting, lawn mowing, newspaper delivery, and work on other farms.

If the response is greater than "0" then ask them **what kind of job** the person did.

Exact wording:

"During that time, what was >Your_name's< <u>primary</u> job or occupation?"

As before, you will then ask them about the number of weeks and hours/week that the person worked in an average month from January 2007 to June 2006.

Exact wording:

"During that time, in an average working month how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?"

"For those weeks, on average, how many HOURS PER WEEK?

f. The next segment contains questions about the person's **health-related quality of life**. These questions will only be asked about household members who are **5 years of age or older and living in the household as of June 30, 2007**. (Questions 31-33 & 41 **are** asked for household members less than 5 years of age.) They are taken from a licensed Health Utilities Index (HUI®) questionnaire and MUST BE ASKED EXACTLY AS WRITTEN (even if the wording may occasionally be awkward).

Exact wording of the introduction to the HUI® questions:

"The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and >his_her< ability to do things on a day-to-day basis, during the past four weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

"You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

"All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

The HUI will ask questions about different physical and mental characteristics.

For each question, read the entire sentence as written, emphasizing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection.

The following descriptions of the HUI questions include the responses that will cause the interview to skip ahead in the sequence. It is noted where the wording is slightly different when the question is about the respondent themselves rather than another member of the household that the respondent is describing. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

>1< "During the past four weeks, has >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

If yes, go to **>4<**

>2< "Has >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

If yes, go to **>4<**

>3< "During the past four weeks, has >Title< been able to see at all?"

If no, go to **>6<**

>4< "During the past four weeks, has >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

If yes, go to **>6<**

>5< "Has >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

If yes, go to **>6<**

>6< "During the past four weeks, has >Title< been able to hear what is said in a group conversation with at least three other people without a hearing aid?"

If yes, go to **>11<**

>7< “Has >Title< been able to hear what is said in a group conversation with at least three other people with a hearing aid?”

If yes, go to **>9**<

>8< **“**During the past four weeks, has >Title< been able to hear at all?”

If yes, go to **>11**<

>9< **“**During the past four weeks, has >Title< been able to hear what is said in a conversation with one other person in a quiet room without a hearing aid?”

If yes, go to **>11**<

>10< “Has >Title< been able to hear what is said in a conversation with one other person in a quiet room with a hearing aid?”

1 Yes *(go to **>11**<)*
3 No
8 Don’t know/Didn’t wear a hearing aid
9 Refused

>11< **“**During the past four weeks, has >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?”

If yes go to **>16**<

>12< “Has >Title< been able to be understood partially when speaking with people who do not know >Title<?”

>13< **“**During the past four weeks, has >Title< been able to be understood completely when speaking with people who know >Title< well?”

If yes go to **>16**<

>14< “Has >Title< been able to be understood partially when speaking with people who know >Title< well?”

If yes go to **>16**<

>15< **“**During the past four weeks, has >Title< been able to speak at all?”

>16< **“**During the past four weeks, has >Title< been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?”

If yes go to **>24**<

>17< “Has >Title< been able to walk around the neighborhood without difficulty and without help or equipment of any kind?”

If yes go to **>24**<

>18< “Has >Title< been able to walk around the neighborhood with difficulty but without help or equipment of any kind?”

If yes go to **>24**<

>19< **“**During the past four weeks, has >Title< been able to walk at all?”

If no go to **>22**<

>20< “Has >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?” *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

>21< “Has >Title< needed the help of another person to walk?”

>22< “Has >Title< needed a wheelchair to get around the neighborhood?”

>23< “Has >Title< needed the help of another person to get around in the wheelchair?”

>24< **“**During the past four weeks, has >Title< had the full use of both hands and ten fingers?”

If yes go to **>28**<

>25< “Has >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?”

If no go to **>27**<

>26< “Has >Title< needed the help of another person with some tasks, most tasks or all tasks?”

1 Some tasks
2 Most tasks
3 All tasks
8 Don’t know
9 Refused

>27< “Has >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?”

>28< **“**During the past four weeks, has >Title< been able to eat, bathe, dress and use the toilet without difficulty?”

If yes go to **>31**<

>29< “Has >Title< needed the help of another person to eat, bathe, dress or use the toilet?”

>30< “Has >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?”

>31< **“**During the past four weeks, has >Title< been feeling happy or unhappy?”

1 Happy
2 Unhappy *(go to >**33**<)*
8 Don’t know
9 Refused

>32< **“**Would you describe yourself/>Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?”

1 a) happy and interested in life *(go to **>34**<)*
2 b) somewhat happy *(go to >**34**<)*
8 Don’t know *(go to >**34**<)*
9 Refused *(go to >**34**<)*

>33< **“**Would you describe yourself/>Title< as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?”

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don’t know
9 Refused

>34< **“**During the past four weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?”

If yes go to **>37**<

>35< “How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?”

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don’t know
9 Refused

>36< **“**During the past four weeks, did >Title< feel extremely fretful, angry, irritable, anxious or depressed; to the point of needing professional help?”

>37< **“**How would you describe >Your_name’s< ability to remember things, during the past four weeks:
a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?”

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don’t know
9 Refused

>38< **“**How would you describe >Your_name’s< ability to think and solve day to day problems, during the past four weeks:

a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?”

1 a) able to think clearly and solve problems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don’t know
9 Refused

>39< “Has >Title< had any trouble with pain or discomfort, during the past four weeks?”

If yes go to **>41**<

>40< “How many of >Your_name’s< activities, during the past four weeks, were limited by pain or discomfort: none, a few, some, most, all?”

1 None
2 A few
3 Some
4 Most
5 All
8 Don’t know
9 Refused

>41< **“**Overall, how would you rate >Your_name’s< health during the past four weeks:

a) excellent
b) very good
c) good
d) fair
e) poor?”

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don’t know
9 Refused

g. After the HUI questions are finished you will ask the respondent about any non-injury related events or illnesses that the person may have experienced in the first 6 months of 2007 and that resulted in restricted activity.

The exact wording is:

"Did any non-injury related events, such as illnesses, that occurred in the six-month period between January 1st and June 30th, 2007, result in restriction of >Your_name's< normal activities? Normal activities are the things a person would ordinarily do on any given day"

If the answer is 'yes' then you will ask if the person is experiencing any persistent problems related to these non-injury events:

"At the present time, are there any PERSISTENT problems or symptoms related to these NON-INJURY events, including things such as numbness, pain, weakness, or some type of impairment?"

You will then move to the next household member to ask these non-injury related questions.

3. Injury Log

A. Introduction

Once the basic household information is collected, you will then move on to ask the respondent about injuries that each household member may have experienced during the first 6 months of 2007.

But first you will ask them to locate the light blue form that was included in the information packets which was sent to them. T**he LIGHT BLUE** ***form contains definitions and examples of injuries.*** You will have a copy of this form and you will also have these definitions and examples on your computer screen. ***You are to read these definitions and examples slowly, making sure the respondent understands.***

For this project, an accident/injury is defined if at least one of the following criteria are met:

1. Restricted normal activities for at least four hours;

2. Resulted in a loss of consciousness, confusion, or memory loss for any length of time;

3. Required professional health care, including care by doctors, nurses, chiropractors, dentists or other healthcare professionals.

Examples of possible injuries (listed on the light blue form and on your screen) include:

- A brain injury or loss of consciousness resulting from a fall;
- A broken arm from working with machinery;
- An animal bite or kick;
- A brief loss of consciousness after breathing toxic gas such as silo gas or manure pit gas;
- A burn or blister due to heat or chemical contact;
- Abdominal injuries resulting from a motor vehicle crash;
- A leg fracture from a sports or recreational activity;
- A strained/pulled back from lifting, twisting, etc.;
- A cut/laceration from working with a tool;
- A bruise/contusion from falling item or being struck by/against equipment or an animal.

Also, note that injuries may occur from:

- excessive exposure to cold, such as frostbite;
- excessive exposure to heat, such as heat stress/heat stroke;
- exposure to bodies of water/liquid, including drowning or near-drowning.

These are examples and not the only injuries that may have occurred. They are just a few of the types of injuries that *may have restricted normal activity for at least 4 hours, and/or resulted in a loss of consciousness and/or required some type of professional healthcare*. It is also important to emphasize that you are collecting information on accidents/injuries that occurred ***between January 1, 2007 and June 30,***

2007. (If there is any question about the date, collect all of the pertinent information and make a notation about the date being in question.)

B. Overview of Questions

Once you have finished orienting the respondent to the information on the **LIGHT BLUE *form (Definitions) and* BEIGE *forms (Examples of injuries)***, you will now proceed to the **ROSE *form (Persons injured)*.** The CATI system will route you through each member of the household who is listed on the roster you verified in the first section of this interview.

a. For ***each household member,*** you will ask if they had **any injuries or accidents during the first 6 months of 2007**:

> "DURING THE SIX-MONTH PERIOD, BETWEEN JANUARY 1st AND JUNE 30th, 2007, Did >Title< have ANY type of accidents or injuries?"

If the answer is NO, you will ask if any injuries occurred to the next person on the roster. The CATI system will continue to guide you through the list of people who lived in the household. If the answer is YES, for any of the household members, you will be guided through a set of questions related to the reported injury/injuries (e.g. number of injuries, farming or non-farming, where it happened, source, etc.)

b. **Number of injury events**

> "During that time, how many accidents or injuries did >Title< have, that were related to YOUR farming or ranching operation in any way? This includes activities such as transportation on roadways, or any other aspect of your operation, including raising animals for recreation or home use? It could also include someone who was injured while standing or playing in an area where these activities were taking place."

For this question, do not include bookwork (e.g. household accounting), housework or house repair.

"How many accidents or injuries did >Title< have, related to SOMEONE ELSE'S farming or ranching operation?"

"How many accidents or injuries did >Title< have, that were related to activities OTHER THAN farming or ranching?"

Next, **confirm the total number of injuries** reported so far:

"So >Title< had _____ injuries total from January 1, 2007 to June 30, 2001.

_____ Related to your operation

_____ Related to someone else's operation

_____ Related to activities other than farming or ranching.

Is this correct?"

Next, you will ask questions about where the injury occurred, the source of the injury, the circumstances surrounding the injury event, and the consequences of the injury. *The interview <u>first</u> loops through all known injuriy events related to their own farming or ranching operation,* ***>type_inj<*** *= "Related to your own operation". <u>Then</u> the interview loops through all injury events related to someone else's farming or ranching operation,* ***>type_inj<*** *= "Related to someone elses operation". <u>Then</u> the interview loops through all injury events related to something other than farming or ranching,* ***>type_inj<*** *= "Related to activities other than farming/ranching".*

c. **Location of injury event**

"Referring to injury # >iinj< >type_inj<, where did the accident or injury happen?"

The computer screen will contain a list of locations, including around the farm or ranch, roadway, in or around the house, sports or recreation area, work, school, and public place. Examples that fit within the choices include:

```
1  In or around the house
2  Roadway  (farm/ranch operation road or public road)
3  Around the farm or ranch
4  Sports or recreation area
5  Work (other than on the farm or ranch)
6  School
7  Cabin/operator owned vacation property
8  Someone else's house
9  Someone else's farm or ranch
10 Public place (restaurant or other public place)
11 Public outdoor area (park, lake, etc...)
12 Other
98 Unknown
99 Refused
```

You will need to probe before assigning an answer to "other," since probing might clarify the answer as belonging to one of the categories listed above. Do NOT read the list of choices to the respondent. Simply ask the question and then enter the number for the choice that most closely matches the respondent's answer.

d. **Source of injury**

"Which of the following SOURCES were involved in the accident/injury? I need to read the entire list before you give me your answer. After I read the list, please tell me the one or two sources that were most directly involved in causing the accident"

Then you will read the following list of sources:

```
1   Tractor
2   Motor Vehicle
3   Other Large machinery/ Equipment
4   Small power equip/hand tools
5   Livestock or animals, including insects
6   Storage structures
```

7 Chemicals/drugs/ medications/Bio-aerosols
8 Body of water
9 Falls / Surfaces
10 Sports / Recreation
11 Housework
12 Yardwork/gardening
13 Work related (non-farm)
14 Something else (physical object)
15 General Activity
16 None - No secondary source
98 Unknown
99 Refused

If the respondent cannot identify one or two sources, emphasize that they need to specify the one or two ***most important*** sources.

e. The next questions ask about the **circumstances of the injury/accident event**:

"Tell me in your own words, what >was_were< >Title< **DOING** at the time of the injury?"

"In your own words, **HOW** did the accident happen?"

*For both these questions **type response exactly as stated** + **end with ///**. After entering information, press ESC to continue with interview.*

f. The next questions address **when the injury happened**:

"What was the DATE of the injury?"

If the respondent is unsure of the exact date, you will ask:

"THEN can you tell me the MONTH in which the accident happened?"

If this is unknown then you will ask the following:

"THEN can you tell me if this accident happened in the SPRING, SUMMER, FALL OR WINTER?"

If the respondent does know the date, or if the respondent has answered the season and month, you then ask:

"Did it happen in the MORNING, AFTERNOON, EVENING OR NIGHT?"

The next questions deal with the **nature and seriousness of the injury**

g. First ask **what body parts were injured**

"What PARTS OF THE BODY were injured? If you have the **LIGHT GREEN** form with the figure, it will help you to answer this question."

List up to six body parts as identified on the light green form provided to the respondent and as identified on the CATI system.

h. For each injured body part you will ask the respondent to describe the **type of injuries**.

"Describe what **TYPES OF INJURIES** occurred to the >inj_part1$_i$< Examples include: bruise or contusion, broken bone or fracture, amputation, or loss of consciousness."

Type response exactly as stated + end with ///. *After entering information, press ESC to continue with interview.* Refer the respondent to the BEIGE form in their packet. This form lists types of injuries, and their definitions. *There may be more than one type of injury for each body part; probe for all types of injuries.*

i. Ask respondent to describe the **seriousness of the injury**.

"How would you RATE THE SERIOUSNESS of this overall injury. Was it Minor, Moderate, Serious, Severe or Life-threatening?"

NOTE: There is a maximum severity category level of DEATH that can be coded for this question. IF YOU ALREADY KNOW THE SUBJECT DIED AS A RESULT OF THE EVENT, PLEASE JUST CODE "DEATH" AND DO NOT READ THIS QUESTION. After you have coded the event as having caused death, many other questions will be skipped, so that the respondent will not be unduely distressed by seemingly irrelevant questions.

j. If the injury event DID NOT result in death, you will then ask if there was a **loss of consciousness**.

"As a result of this accident, was there a LOSS OF CONSCIOUSNESS?"

If the answer to this question is YES, you will ask:

"Was this due to a BLOW TO THE HEAD, BEING OVERCOME BY FUMES OR SOMETHING ELSE?"

If something else then you will ask the respondent to specify the reason.

Then ask them about the duration of the unconsciousness:

"HOW LONG did it last?"

k. you will then ask if there was **confusion or memory loss**.

"Was there CONFUSION OR MEMORY LOSS?"

If the answer to this question is YES, you will ask:

"Was this due to a BLOW TO THE HEAD, BEING OVERCOME BY FUMES OR SOMETHING ELSE?"

If something else then you will ask the respondent to specify the reason.

Then ask them about the duration of the confusion or memory loss:

"HOW LONG did it last?"

The following questions address the **consequences of the injuries**.

l. Ask **how long were normal activities restricted**, as a result of the injury.

"As a result of this accident, HOW LONG were normal activities restricted? Normal activities are the things a person would ordinarily do on any given day."

m. Ask about **PERSISTENT problems or symptoms** related to the injury.

"If you can turn to the **TWO BEIGE FORMS** in the packet, it will help you identify some types of problems and symptoms.

At the present time, are there any PERSISTENT problems or symptoms related to this injury, including things such as numbness, pain, weakness, or some type of impairment?"

n. If the answer to this question is YES, you will ask **what body parts are affected by the persistent problems or symptoms**:

"What PARTS OF THE BODY are affected? If you can turn to the **light green form** with the figure, it will help you answer this question."

o. Then ask about the **types of persistent problems or symptoms**.

"What are the exact TYPES OF PERSISTENT PROBLEMS OR SYMPTOMS occurring to the >inj_symptoms2$_i$<?
Please refer to the **two beige forms**."

p. You then will ask questions about **care of the injury**

"The following questions are about care of the injury. Was the injury TREATED BY A HEALTH CARE PROFESSIONAL, such as a doctor, nurse, chiropractor, dentist or other healthcare professional?"

q. If the answer to this question is "yes", you will ask about the **location of the care**:

"In WHICH of the following places did >Title< receive care?"

You will read the following list and indicate whether or not care was received at each of these places:

1 A doctor's office or clinic
2 Walk-in or Urgent care center or "minute clinic" (nursing clinic located in a retail store)
3 A hospital emergency department
4 A hospital as an in-patient (admitted to a hospital)
5 Outpatient: hospital or surgical center (free-standing)
6 A dentist's office
7 A chiropractor's office
8 At the scene of the accident
9 Any other health care facility
98 Unknown
99 Refusal

If they were admitted to a hospital you will be prompted to ask about their hospital stay.

r. First ask about the **length of the hospital stay**.

"HOW LONG >was_were< >Title< in the hospital?"

You will then ask more detailed questions about the person's hospital stay if they are below 20 years of age and the injury event was related to their own farming operation.

s. You will first **verify that this injury event was related to the respondent's operation**:

“For clarification, WAS THIS injury associated with >Your_Name’s< activities related to your farming or ranching operation? This includes activities such as transportation on roadways, or any other aspect of your operation, such as raising animals for recreation or home use. It could also include someone who was injured while standing or playing in AREAS WHERE FARMING OR RANCHING ACTIVITIES WERE TAKING PLACE.”

If the answer to this question is "no", you will ask if the injury was related to various hazards that were associated with their operation.

“Was it in any way related to motor vehicles, machinery, equipment, tools, livestock or working animals, storage structures, chemicals or bodies of water that are part of your farming or ranching operation?”

If the answer to this question is "no", then ask the following:

“Was it in any way related to someone else's farming or ranching activities on YOUR operation?”

If the answer to this is “no”, you will ask the following:

“In what way was it related to YOUR farming or ranching operation?”

Type response exactly as stated + end with ///. After entering information, press ESC to continue with interview

You will need to assess this final response and determine if the injury was indeed related to their farming or ranching operation. If it was in any way related to motor vehicles, machinery, equipment, tools, livestock or working animals, storage structures, chemicals or bodies of water that are part of their farming or ranching operation then you will proceed with asking questions about their health care treatment.

Once you have confirmed that the injury event was related to their farming and ranching operation you will proceed with more detailed questions about the injury-related health care.

t. First ask them about **operations or surgical procedures** related to the injury event

"Were any **operations or surgical procedures** performed on >Title< as a result of this injury event?"

If "yes" then ask them to describe the operations or surgical procedures.

Exact wording:

"Please describe the **operations or surgical procedures."**

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

PROBE for any other operations or surgical procedures and enter up to 4.

u. Next, ask about **specific health care services** received.

"Which of these **services**, if any, did >Title< have as a result of this injury event?"

1 Treatment or Therapy, other than surgery (specify)
2 Laboratory tests
3 X-rays
4 MRI, CATSCAN, Sonogram or ultrasound
5 Other diagnostic test(s) (specify)
0 No services received
8 Unknown
9 Refused

Read list and enter all that apply. Do not record surgical procedures here.

If applicable, ask respondent to specify other diagnostic tests.

"Please specify – Other diagnostic test(s)"

Also, if applicable, ask about specific forms of treatment or therapy

"Please specify – Other treatment or therapy"

v. Next, ask them about any **<u>out-of-pocket medical expenses</u>** incurred by the household as a result of this injury.

"As a result of this injury event, about HOW MUCH did your household pay out-of-pocket for medical care? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one."

Read the following list until they stop you:

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

The remaining questions in the injury section are asked only if the injured person is less than 20 years of age.

w. Go on to ask them about **school days** the child may have **missed as a result of the injury**.

"As a result of this injury, HOW MANY regular school days did >Title< miss?"

x. Ask if **injured child missed days of work or chores related to respondent's agricultural operation.**

"Did >Title< **miss days of work or chores** related to your farming or ranching operation, as a result of >his_her< injury?"

If yes then ask the following:

"About HOW MANY (8 hour) days were missed?"

0 Less than one day
___ 1 – 184 days
8 Unknown
9 Refused

Next, ask about any substitute workers

"Did **anyone substitute** for >Title< when >he_she< missed work?"

If yes then ask the following:

"About HOW MUCH was paid in whole dollars for this help?" ____

You will ask them if this amount is per hour, per day, per week or the total amount.

Then ask them how much income child lost because of lost work days.

"About how much income did your operation lose in association with those lost work days?"

y. The next series of questions are about **days of work NOT related to their farming or ranching operation that injured child may have missed**.

Exact wording:

"Did >Title< lose ANY TIME from work at job(s) NOT RELATED to YOUR farming or ranching operation as a result of the injury?"

The follow-up questions about missed days of non-operation related work follow the same format as those for the missed days of operation related work above.

z. The following segment will ask them to describe **work that was missed by other household members due to the child's injury**.

"Did **any other household members** miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injury?"

"About HOW MANY (8 hour) days were missed?"

"Did **anyone else substitute** for these household members when they missed work?"

"About HOW MUCH was paid in whole dollars for this help?"

You will ask them if this amount is per hour, per day, per week or the total amount.

Then ask them how much income the household members lost because of lost work days.

"About HOW MUCH income did these household members lose in association with those lost work days?"

The next series of questions are about **missed days of work NOT related to their farming or ranching operation**.

"Did **any other household members** miss days of work not related to your farming or ranching operation, due to >Your_name's< injury?"

The follow-up questions about missed days of non-operation related work follow the same format as those for the missed days of operation related work above.

The final task is to thank them for participating in the interview and remind them that they will be contacted again in six months for the next interview.

Exact wording:

"Thank you very much for your time today. Your cooperation gives us important information about factors that will help to better understand the experiences of families operating farms and ranches. We will be calling your household again in approximately six months for another brief interview. We look forward to speaking with you then. Goodbye."

- **END OF INJURY INTERVIEW –**

APPENDIX I
IMPORTANT SURVEY TECHNIQUES

Participants may remember more about how the interview was conducted than they will about the topics covered in the interview. This emphasizes the importance of the interviewer being professional and capable of accepting what the participant says without apparent judgment. It is important to remember that the intent of survey interviews is to collect information. A number of factors can increase the participant's receptiveness and success of the interview:

A. Establishing A Rapport

The participant and the interviewer need to establish a good rapport**.** Rapport is a term used to refer to the interpersonal connection established between the interviewer and the participant. Rapport sets the foundation for good interviewing. The participant's impression of you during your introduction and early remarks will have a considerable impact on the rapport that will develop. You, the interviewer, need to impress the participant as being someone who is not only understanding and accepting, but sincere and courteous as well.

B. Identifying The Importance Of The Project

The extent to which an interviewer might have to explain the project will vary considerably from respondent to respondent. All households that you call should have received a letter explaining the project prior to your contact by telephone. Respondents may have several questions to ask about the project; therefore, do not assume that they will fully cooperate at this point. All prospective participants, even those who are least interested in participating, should feel that the project is important. If they question the importance of the project, you should tell them that farm/ranch accidents and injuries are a major problem and that the results of this project will be used to decrease the problem of accidents and injuries in agricultural households. If they question how their participation can help, you must assure them that their cooperation will be meaningful not only to the project results but, also ultimately, to themselves, their families and their communities.

C. Establishing Confidence Among The Participants

Participants need to feel confident in responding to the interview questions. Participants will usually not interrupt the interviewer. You, the interviewer, must therefore be alert to doubts the participant may have, even if he/she does not express them vocally (i.e., through apparent hesitation). You must attempt to clarify the questions for them.

D. Asking The Questions

Your goal is to collect accurate information through the use of the CATI data collection instrument. Data from project participants must be collected in a uniform manner. Thus, all people in a sample must be asked the same questions in the same way as they have been designed.

The following principles and techniques must be employed when using the CATI instrument:

1. **Always Remain Neutral.** The interviewer must be careful that nothing in his/her words or manner implies criticism, surprise, approval, or disapproval of either the questions asked or of the participant's answers. The questions should be asked in such a way that the same answers would be obtained no matter who was asking them.

2. **Ask all Questions Exactly as Worded**. ***Even the smallest change can affect the entire meaning of the question. Do not change even one word in the question that is on the screen.*** If a respondent does not understand the question the first time you read it, do not re-word it. Simply re-read the question as it is stated, even if you feel the question could be stated differently. Great care was taken in writing each question; every word is there for a reason. In order for all of the data collected to be meaningful and accurate, there must be no doubt that each participant heard exactly the same question asked in the same way before answering.

3. **Hold The Participant's Interest.** Try to keep your attention focused on the participant and not overly absorbed in the questionnaire. However, you should also try to stay alert to the flow of the interview and whether, or not, the answers being given are sufficient, clear and appropriate to the questions asked.

E. Probing

Probing is the technique used by the interviewer to obtain more specific and necessary information. For example, if an answer seems inadequate in relation to the information needed for the project, you may need to probe in order to obtain more information. Probing has three major functions:

- to motivate the participant to enlarge upon, clarify, or explain his/her answers;
- to focus the participant's answers so that irrelevant and unnecessary information can be eliminated;
- to pinpoint information, such as dates, names, locations, as accurately as possible.

Interviewers must fully understand the purpose and meaning of each question. Once you understand the purpose or rationale of each, you will find it much easier to decide if you have a satisfactory answer or whether you should probe for a clearer and more complete one.

Probing should not bias the response or antagonize the participant.

Probes must always be neutral. Remember, you want to motivate the participant to respond more fully or to focus his/her answer without introducing bias, especially your own views. The potential for bias is great in the use of probes. Under the pressure of the interviewing situation, the interviewer may quite unintentionally imply that some answers are more acceptable than others or may hint that a participant might want to consider this or include that in giving a response. **Do not lead the participant into an answer**.

1. Types Of Probes

A number of different neutral probes that appear as a part of a normal conversation can be used to stimulate a fuller, more complete response.

- An expression of interest and understanding;
- An expectant pause;
- Repeating the question;
- Repeating the participant's reply;
- A neutral question or comment.

a. Probes to Clarify:

1) What do you mean by . . .?

2) What do you mean exactly?

3) Could you please explain that a little?

4) I don't think I quite understand.

b. Probes for Specificity:

1) What in particular do you have in mind?

2) Can you be more specific about that?

3) Tell me about that: who/what/when/where/why . . .?

c. Probes for Data Specificity:

1) Was that before or after your hospitalization?

2) What type of equipment was that?

3) Were you working at the time?

d. Probes for Relevance:

1) I see. Well, let me ask you again...(Repeat question exactly as worded).

2) Would you tell me exactly how you mean that?

e. Probes for completeness:

1) What else?

2) What else can you think of?

3) What other reason/things/examples can you think of?

2. <u>When to Stop Probing</u>

If at any time the participant becomes obviously irritated or annoyed, discontinue probing. *We do not want the participant to refuse the rest of the interview*. If the participant accepts the probing, continue until you have obtained as much information as possible to fully answer the question. If the probing is done correctly, you will most likely obtain a complete answer.

APPENDIX II

FREQUENTLY ASKED QUESTIONS: ANSWERING PARTICIPANTS' QUESTIONS

(Remove this copy from manual for use during Interviews)

Respondents will undoubtedly have questions about the interview as the interview progresses. They may also ask similar questions when you make the initial phone contact.

A. Typical Questions Participants Ask:

1. **Why are you interviewing me?**
2. **Who gave you my name?**
3. **Why are you doing this project?**
4. **Why are you interviewing me? We didn't have any injuries.**
5. **Who will see the information I give you?**

You must have ready and convincing answers to questions such as these. Examples of how to respond to these types of questions are given below:

B. Examples of Responses to Respondents' Questions

1. **Why are you interviewing me?**

   It is important that we interview you since this is a project of farm and ranch households that are representative of the entire agricultural community.

2. **Who gave you my name?**

   Your farm or ranch was picked randomly from a list that is maintained by the National Agricultural Statistics Service for each state.

3. **Why are you doing this project?**

   The purpose of the project is to determine the extent and the consequences of farm/ranch-related injuries among household members. The findings will also serve as a basis for

determining the best ways to prevent such injuries. Specifically, we are asking questions about the farm or ranch, farming/ranching operation-related activities, household members, and any injuries that may occur during 2007. The findings will provide important information that will help to better understand the experiences of family owned agricultural operations.

4. Why are you interviewing me? We didn't (don't) have any injuries.

Farm/ranch households with no injuries are just as important to the project as those households that have injuries. All of the information we obtain is important and essential in helping to gain a full understanding of the injury problem. Because there are many different types of farms/ranches and exposures to various activities, it is important to determine differences between those that have injuries and those that do not.

5. Who Will See The Information I Give You? How Will The Information Be Used?

A *coded number* is assigned to each operation interviewed so that *all information is then identified by the number only*. No individual operation or person is ever identified in any report, because results of the project are presented in group form only. For example, a result might be presented in the following form:

- Dairy farming was considered the major farm enterprise for 32% of farms surveyed.
- Injuries occurred among 9% of farms surveyed.
- 53% of all farm-related injuries required a doctor's care.

APPENDIX III

ABBREVIATED INTERVIEW: LIMITED SET OF QUESTIONS FOR NON-RESPONDENT HOUSEHOLDS

Household Information

a. First, you will ask them about the number of acres they have in use or active production.

The exact wording is:

"The first set of questions are about YOUR farming or ranching operation.

Between January 1st, 2007 and June 30th, 2007, of the acres that you own, plus the acres that you rent or lease from someone else, how many did you have in use or active production, including land in hay and pasture? Do not include wasteland, woodlands, or land in long-term CRP (Conservation Reserve Programs) or any set-aside programs."

b. Next, ask them about their type of agricultural operation.

The exact wording is:

"During that time, in which of these farming or ranching enterprises was your operation engaged? Please wait until I finish reading the entire list, then tell me all that apply."

It is important that you first read the list and then enter the first three of their responses; otherwise the order of their responses might be influenced by the order of the categories in the list.

Please enter the categories that most closely match their responses. If a response does not match any of the existing categories on the list, or if you don't know which category it fits, then enter their enterprise in the "please specify the other enterprise" text box.

c. Once you have recorded their enterprises, you will then ask them which one took the most amount of work time. *(If only one was recorded, this question will not appear.)*

The exact wording is:

"Which ONE of those enterprises required the MOST amount of WORK TIME?"

Again, please enter the category that most closely matches their response. If their response does not match any of the existing categories on the list, or if you don't know which category it fits, then enter their enterprise in the "please specify the other enterprise" text box.

Injuries

This next section of the interview will first ask if any members of the household had any injury events, either associated with their own operation or associated with activities other than farming or ranching.

The exact wording of this section's introduction is:

"Next I will be asking a few questions about each member of your household and any injury events they may have experienced. By injury we mean any accident or injury event that:

[READ SLOWLY!!]

- **Restricted normal activities for at least 4 hours;**

  AND/OR

- **Resulted in loss of consciousness, loss of awareness, or amnesia for any length of time;**

  AND/OR"

  AND/OR

- **Required professional health care, including doctors, nurses, chiropractors, dentists, or other health care professionals.**

This includes accidents or injuries that:

1) Happened ON OR OFF THE FARM OR RANCH; and
2) Were minor, serious or fatal."

"Let me give you a few examples of the types of injuries we're interested in. These include:

- A brain injury or loss of consciousness resulting from a fall;
- A broken arm from working with machinery;
- An animal bite or kick;
- A brief loss of consciousness after breathing toxic gas such as silo gas or manure pit gas;
- A burn or blister due to heat or chemical contact;"
- "Abdominal injuries resulting from a motor vehicle crash;
- A leg fracture from a sports or recreation activity;
- A strained/pulled back from lifting, twisting, etc.;
- A cut or laceration from working with a tool;
- A bruise or contusion from a falling item or being struck by or against equipment or an animal."

a. You will then ask if any household member(s) had any accidents or injuries associated with their own farming or ranching operation, between January 1, 2007 and June 30, 2007.

b. Then, you'll ask if any household member(s) had any accidents or injuries related to activities other than farming or ranching.

c. If nobody had either type of accident or injury, the abbreviated interview ends. Otherwise, if one or more household member had any accidents or injuries the interview will loop through the household members.

If any household members had accidents or injuries associated with their own farming or ranching operation, you will ask about accidents or injuries they may have had during that period, associated with their farming or ranching operation.

The exact wording of the first question is:

"Between January 1st, 2007 and June 30th, 2007, did >he_she< have any accidents or injuries that were in any way related to YOUR farming or ranching operation?"

If the answer is “yes”, you will ask them the number of events the person had.

Then, you will ask about the **number of hours worked** related to their farming or ranching operation.

Exact wording:

“During that time, how many months did >he_she< work or do chores in any activity related to your farming or ranching operation?”

If the response is greater than “0” then ask them about the **number of weeks** that the person **worked** on their operation **in an average month** from January 2007 thru June 2007.

Exact wording:

“During that time, in an average working month how many weeks did >first_name< work or do chores in any activity related to your farming or ranching operation?”

If the answer is “the whole month” then enter 4 weeks. You will then ask them for the **average number of hours** the person **worked per week**.

Exact wording:

“For those weeks, on average, how many HOURS PER WEEK?”

THEN, if any household members had accidents or injuries associated with activities other than farming or ranching, you will ask about accidents or injuries the individual may have had during that period.

The exact wording of the first question is:

“During those months did >he_she< have any accidents or injuries related to activities OTHER THAN farming or ranching?”

If the answer is “yes”, you will ask them the number of events the person had.

When the injury information has been collected on the last household member, the abbreviated interview ends.

APPENDIX IV

CONTENTS OF INFORMATION PACKET SENT TO HOUSEHOLDS PRIOR TO INJURY INTERVIEW # 1

- **White form**: Description of interview sections
- **Light blue form**: Injury Definition/Examples and Sources of Injuries
- **Beige forms**: Types of Injuries/Persistent Problems
- **Light green form**: Location of Injury/Body parts affected
- **Rose forms**: Worksheet for injury descriptions
- **Gold forms**: Worksheet for medical insurance and work hours

REGIONAL RURAL INJURY STUDY - III
2008

EVALUATION # 1
INJURY FOLLOW-UP INTERVIEW

INTERVIEWER MANUAL

A COLLABORATIVE EFFORT:

University of Minnesota
Regional Injury Prevention Research Center
and
U.S.D.A. National Agricultural Statistics Service

REGIONAL RURAL INJURY STUDY – III

FIRST EVALUATION - FOLLOW-UP INTERVIEW

INTERVIEWER MANUAL

August 2008

A COLLABORATIVE EFFORT:

University of Minnesota
Regional Injury Prevention Research Center
and
U.S.D.A. National Agricultural Statistics Service

REGIONAL RURAL INJURY STUDY – III
EVALUATION # 1 - INJURY FOLLOW-UP
INTERVIEWER MANUAL

I. OVERVIEW OF THE REGIONAL RURAL INJURY STUDY - III (RRIS-III)

A. The Project

The overall objective of this project is to identify and quantify the short- and long-term physical disabilities, and psychosocial and economic consequences of injuries that occur among children and youths living in agricultural operation households. The project focuses on people who live in the five-state region of Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin – both those who were injured and those who were not.

Injury consequences will be identified by comparing follow-up/evaluation data with baseline data, between those households with own-agricultural-operation-related injuries (OAOR-injured) and those without *own-agricultural-operation-related injuries (non-OAOR-*injured).

B. Sequences of Interviews and Types of Data Collection

There are several distinct stages of the project.

I. ELIGIBILITY SCREENING AND PARTICIPATION INTERVIEW

II. BASELINE DATA COLLECTION INTERVIEW (prior to injury data collection periods; refer, also, to EVALUATION/FOLLOW-UP INTERVIEWS)

Demographics

Household information: type of agricultural operation; acres in active production; household income/economic status measurements; out-of-pocket medical expenses

All household members: days lived in household; age; gender; race; education level; marital status; insurance/type of coverage; hours worked on and off the agricultural operation

Specific to children (those <20 years as of 01/01/2007): height/weight; specific grade in school

Health Status/Disability – Physical, Psychosocial, and Economic Status *(*All household Members*)*

- Quality of Life measures (includes physical and mental health); perceived stress
- Current health limitations – history of prior agricultural/other injury
- Diagnosed health conditions
- *Specific to children (those <20 years as of 01/01/2007):* Number of missed school days; school performance; developmental/ behavioral characteristics; parental monitoring/strictness; health services used; work time lost by household members caring for sick or injured children

III. INJURY DATA COLLECTION (two data collection periods of six-months, each = 12 months total)

INJURY INTERVIEW #1

Injury experience - January 1, 2007 through June 30, 2007

- Agricultural operation-related (and other activity-related injuries)
  - Date/time of event
  - Location
  - Source/vehicle of injury (e.g., animal, tractor, motor vehicle, other large machinery, surfaces/falls, chemicals, etc.)
  - Associated activity/surrounding circumstances
  - Anatomical location(s)/types/diagnosis(es) of injury(ies)

Immediate and Short-term consequences

- Hospitalization, including hospital days for inpatient procedures (length); other type of health care (emergency department visit, clinic visit/urgent care, mental health/counseling)
- Length and degree of restricted activity from regular activities
- Current restriction/disability; type of persistent problems
- Length of lost school time
- Length of lost work time for child due to injury
- Length of lost work time for adult(s) due to child's injury
- Estimate to replace cost of work that child was doing on the agricultural operation/lost earnings
- Health care costs (total and personal; deductibles)
- Restricted activity/disability due to other events in past six months
- Health-related quality of life (changes in)

INJURY INTERVIEW #2

Injury experience - July 1, 2007 through December 31, 2007 (same as Injury Interview #1)

Immediate and Short-term consequences (same as Injury Interview #1)

Six-month continued consequences follow-up for Injuries identified in Injury Interview #1 (see Immediate and Short-term consequences)

IV. EVALUATION/FOLLOW-UP #1: (following injury data collection periods)

One-year follow-up, subsequent to Injury Interview #1

Changes in Household Demographics (see II. Baseline Interview for description of questions)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (see II. Baseline Interview for description of questions)

Continued consequences follow-up for Injuries identified in Injury Interview #1 (see Immediate and Short-term consequences)

Six-month continued consequences follow-up for Injuries identified in Injury Interview #2 (see Immediate and Short-term consequences)

V. EVALUATION/FOLLOW-UP #2: (following injury data collection periods)

One-year follow-up subsequent to Injury Interview #2

Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued consequences follow-up for Injuries identified in Injury Interview #2 (same as above)

VI. EVALUATION/FOLLOW-UP #3: (following injury data collection periods)

Two-year follow-up subsequent to Injury Interview #1

Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued consequences follow-up for Injuries identified in Injury Interview #1 (same as above)

VII. EVALUATION/FOLLOW-UP #4: (following injury data collection periods)

Two-year follow-up subsequent to Injury Interview #2

Changes in Household Demographics (same as above)

Changes in Health Status/Disability – Physical, Psychosocial, and Economic Status (same as above)

Continued consequences follow-up for Injuries identified in Injury Interview #2 (same as above)

FIGURE 1. OVERVIEW OF THE PROJECT TIMELINE

INTERVIEW	2007	2008	2009	2010
Eligibility Screening and Participation Interview	Feb			
Baseline Interview	Feb			
Injury Interview #1	Aug			
Injury Interview #2		Feb		

Evaluation/Follow-up #1		**Aug**		
Evaluation/Follow-up #2			**Feb**	
Evaluation/Follow-up #3			**Aug**	
Evaluation/Follow-up #4				**Feb**

C. How Participants Are Contacted for the Evaluation # 1 - Follow-Up Interview

Participants are contacted both by mail and by telephone.

1. Letter

In July 2008, two letters were sent to all farm/ranch households that were selected to participate in the next phase of the study. One letter, written on University of Minnesota letterhead, is from the Project Investigators. This letter thanks them for their continued willingness to participate and provides brief information about the upcoming interview. A second, supporting letter was also Included from the respective USDA, Agricultural Statistics offices, in which the relevant agricultural operations were located. You will begin calling participants on the telephone within a few weeks after these letters are sent.

2. Evaluation Interview # 1

The purpose of these **Evaluation Interviews** is to obtain, for each member of the household, information that includes work status, quality of life, health limitations and health conditions, and health care costs. For children in the household, information will also include school performance, developmental/behavioral characteristics, health services used, and work time lost by household members caring for sick or injured children. This will update the information we obtained on these topics in the Baseline interview, which was conducted during the first six months of 2007. Participants in this interview include all households that reported a child injury during the first six months of 2007 and a random selection of households that reported no injuries among children during the same period.

3. Second Six-Months Injury Follow-up Interview

The **second six-month injury follow-up section** will obtain information on health care sought, length of restricted activity and persistent problems for each injury event that was reported for the second six months of 2007. For injuries incurred by children, we will ask more detailed questions about health care services used and medical expenses. Also, for injuries among children, we will ask about lost work time and the associated economic costs.

D. How Data for the Project Are Collected

The data for this project are collected by interviewing participants on the telephone. While you, the interviewer, are speaking to the participant, the questions you ask will appear on the top of a computer screen in front of you. After you enter the answer to one question, a new question will appear on the screen. This method of interviewing, using questions on a computer screen and collecting information directly into the computer is made possible by the Computer-Assisted Telephone Interview (CATI) system. It is very important that you ***enter exactly what the participant told you*** because the CATI system takes you to the next appropriate screen, depending upon answers previously given.

The question you ask the participant appears at the top of the computer screen; but the place you enter the answer is at the bottom of the screen. The bottom of the screen contains a list of abbreviated words with spaces for entries next to them. The abbreviated words are what we call the *variable names* that refer to each question. You do not need to know, remember or understand the variable names; they are there more for our reference than for yours.

Most of the questions you ask will have only a few possible answers listed. Some questions will also allow the participant to select more than one of the possible answers. Possible answers will appear below the question, and each answer will be next to a number. For many of the questions, you will fill in the blank next to the variable name with the *number (or the numbers)* next to the answer(s) the participant gives you. Sometimes you will fill in the blank with a word or short phrase (up to 25 characters). At other times, you will be instructed by the program to enter the response directly into the F9 Notes, followed by "///", so that the entry can be quickly located and extracted. The place where you fill in the answer(s) will be blinking on the screen, so you do not have to know where to place the cursor. The CATI system will place it for you, automatically.

II. EVALUATION # 1/INJURY FOLLOW-UP INTERVIEW - Begins August 2008

The interview should take approximately 30-45 minutes. The length will depend on whether the household will be doing the evaluation interview only, the injury follow-up interview only, or both*. It is important that they complete all that are included for their household.* Below we list the basic components of this interview, along with an explanation (in italics) for the reasoning behind each component. The exact wording of the questions in the most important segments of the interview is given here in a larger font. Although the

exact wording of the other questions is not given here, the exact wording will appear on the computer screen in front of you when you actually ask the question.

A. Talking to correct respondent.

After verifying that you have contacted the correct household, the next step is to get the preferred respondent on the phone. The preferred respondent for the injury interview is the person who responded to the last interview. The name of this respondent will be carried forward from the previous interview and will appear on the screen. If this person is unavailable, then a callback should be scheduled. If he/she will not be available for a callback, then you will ask to speak with the other head of household. If the other head of household is currently unavailable then you must schedule a callback to speak with him/her.

When you have the desired respondent on the phone, you will verify: their name; that they are the male or female head of household; and **whether or not they are the same respondent from the previous interview (whose name appears on the screen)**. You will then proceed with the introduction to the interview.

B. Conducting the Interview

The introduction reminds them of the purpose of the study, that they agreed to participate in the study, and that they are eligible for the savings bond drawing. It briefly summarizes the type of questions that you will be asking them and reassures them that the data we collect is confidential. You will explain that if they are uncomfortable with answering any question they can choose to skip it.

1. Household Information

a. Once you have obtained their permission to continue with the interview you will ask them about their type of agricultural operation.

The exact wording is:

"In which of these farming or ranching enterprises was your operation involved **between January 1st and June 30th, 2008**? Please wait until I finish reading the entire list, then tell me all that apply."

It is important that you first read the list and then enter the first three of their responses; otherwise the order of their responses might be influenced by the order of the categories in the list.

Please enter the categories that most closely match their responses. If a response does not match any of the existing categories on the list, or if you don't know which category it fits, then enter their enterprise in the "please specify the other enterprise" text box.

b. Once you have recorded their enterprises, you will then ask them which one took the most amount of work time. *(If only one was recorded, this question will not appear.)*

The exact wording is:

"Which ONE of those enterprises required the MOST amount of WORK TIME?**"**

Again, please enter the category that most closely matches their response. If their response does not match any of the existing categories on the list, or if you don't know which category it fits, then enter their enterprise in the "please specify the other enterprise" text box.

c. Next you will ask them about the number of acres they have in use or active production.

If they respond with a number of 'quarters', this corresponds to quarter sections which are 180 acres each.

d. Following this, if the interview is associated with follow-up of 2nd 6 month injury events only it skips directly to the Household Members section (below), otherwise you will ask if any household member spent time caring for injured or sick children in the household THAT RESULTED IN LOST WORK TIME.

The exact wording is:

"The following questions are about time **any household members** spent **caring for** children in your household (less than 20 years of age) because of injuries, illnesses or mental and physical health conditions, from January 1st through June 30th, 2008."

You will then ask them about 3 categories of work that any household members may have missed because they were caring for sick or injured children in the household. These questions ask if any household members missed work or chores related to their own operation, work not related to their operation, or if they were unable to do usual child care or home chores or care for other family members due to a child's injuries or health conditions.

If they answer YES to any of these questions then further questions, specific to each child in the household, will ask about the length of work time lost and the associated costs (see section 2. Household Members).

e. You will proceed to ask them about <u>health services used</u> by children (<20 years as of 01/01/2007) in the household during the last six months of 2008.

The exact wording is:

"The following questions are about the health services used by children in your household (less than 20 years of age), from January 1st through June 30th, 2008."

You will ask them if any children in the household were admitted for an overnight stay in a hospital, went to a hospital emergency department, or visited a health care provider. If the answer to any of these is YES then further questions, specific to each child in the household, will ask for more details on the health services used (see section 3. Health Services).

2. <u>Household Members</u>

This next section of the interview will ask for information on each member of the household (including the head of household on the phone). The head of household will be asked all questions in relation to a specific household member before moving on to questions about the next person. The order is based upon the order in which household members were reported during the baseline interview, ***so the respondent may not be asked about their own information first.***

The exact wording of this section's introduction is:

> "The next set of questions is about the people who were identified as members of your household AS OF JANUARY 1, 2007. This includes those living in your household now, and anyone who may have moved out since January 1st of 2007 or passed away since December 31st, 2007, students away at college, and children who reside in multiple households, including yours"

For questions related to individual household members, the interview will refer to each person, using the name that was provided in the baseline interview. People born after January 1st, 2007 and those who moved onto the operation after January 1st, 2007 were not members of the household as of January 1st, 2007, so they will not appear in the household roster. (In a few isolated instances, household members may be missing from the baseline interview and adding them now is impossible. HOWEVER, if you become aware that one or more of the people who were household members as of January 1, 2007 are missing, please add an F9 note including their age as of January 1, 2007, gender, and if they had any farming and non-farming injuries between January 1 and June 30, 2007, and between July 1 and December 31, 2007.)

d. If it is not the same respondent as the previous interview, the respondent is asked what the person's relationship is to them. You will enter the category from the list that most closely matches their response. If the person on the phone is responding about themselves, then automatically enter a category of '1' = Self (respondent), without reading the question to them. *This question is skipped if you are speaking to the same respondent, because the relationship to them was collected in the previous interview.*

e. You will then verify that the person was living in the household during the six months between January 1st and June 30th, 2008. The wording of this question will depend on the response to the equivalent question from the previous interview. If in the previous interview the respondent said that the person was not living in the household, as of December 31st, 2007, you will ask…

"In the last interview, we were told that >first_name< >stat<. Did >he_she< live in your household at any time between January 1st and June 30th, 2008?"

Where >stat< = "moved before December 31, 2007" or "did not live in the household between July 1 and December 31, 2007.

Alternatively, if the person was reported as living in the household for the full six months between July 1st and December 31st, 2007, then the following question is asked.

"Did >first_name< live in your household as of June 30th, 2008? *People on vacation on June 30th, 2008 are considered to be living in the household."*

If the answer is 'no', and the household **did not** respond to the 2nd six-month interview then you will ask the following:

"Did >first_name< move or pass away between July 1st, 2007 and June 30th, 2008?"

If the answer is 'no', and the household **did** respond to the 2nd six-month interview, then you will ask the following:

"Did >first_name< move or pass away between January 1st and June 30th, 2008?"

People who moved will include those who left for school or to live in another household, whether temporarily or permanently. There is also a response category for household members who did not live in the household at any time during the specified period.

If the person moved or passed away during the specified period then you will ask the respondent in which month and on what day of the month this occurred.

f. You will proceed to ask them for the person's **date of birth** (DOB), *but only if this was not provided previously or the previous date was inconsistent*. If they refuse to give the person's DOB or if they do not know it, then you will ask them for the person's age as of January 1st, 2007, but only if this was not provided in the baseline interview. If the

person's age is unknown and they refuse to give it, you will then ask them if the person was less than 20 years of age on January 1st, 2007 (if this information was not already provided in the baseline interview).

At this point in the interview, if the person was not in residence in the household during the six-month period, then the interview will move on to the next person. If the person was in residence in the household during the six-month period, then you will ask the respondent if the person was below the age of 18 on January 1st, 2008 -- if their age is unknown, but they have already been identified as less than 20.

Once a respondent's age is provided or calculated by the system, you may receive the following message.

"Warning – According to the relationship and birth date/age information you have entered, the person you are interviewing may be too young! Please correct this information if it is in error, or explain that we cannot interview individuals who were under 18 years of age (as of January 1st) without prior parental permission -- and schedule a callback."

This means that the respondent is too young to be interviewed and you will need to either change the date of birth or age that they have provided if it was entered incorrectly or schedule a callback to speak with an older head of household.

d. If the person was living in the household for only part of the six months then you will first state the following:

"I'd like to ask you some questions about >first_name< even though >he_she< was not living with you as of June 30th."

e. If the interview is associated with follow-up of 2nd 6 month injury events only it skips directly to the Second 6-month Injury Follow-up section (below). Otherwise, if they are 16 years of age or older, you will next ask about the person's **marital status**.

f. Next, you will move on to questions on the person's **health insurance.**

Ask if the person had any kind of health or medical insurance during the first six months of 2008.

Exact wording:

"Was >Title< covered by any type of health or medical insurance, including Medicare or Medicaid, from **January 1st through June 30th, 2008**?"

If they were insured, you will need to probe to find out if they had insurance coverage for the entire time or part of the time. If it was only part of the time, you will ask for how long.

Exact wording:

"During that period, for how many months DID >Title< have health care coverage?"

THEN you will ask the types of insurance coverage they had, READ the list of insurance categories and enter ALL of the categories that apply to their response. For the category 3 response ('a medical plan provided by an employer'), this doesn't have to be the individual's employer. It could the employer of a spouse, any parent or guardian, even a non-custodial parent or guardian. If they describe an insurance type that does not fit any of the listed categories, or if they respond with category 8 ('something else') then enter their response in the "Please specify the other insurance" field.

g. You will then ask questions about household members' **education**. These questions will be different for adults and children. If the age of the person is **20 or over** (as of 01/01/2007) then you will ask the respondent what is the person's **highest education level**.

Exact wording:

"As of July 1st, 2008, what was the highest grade in school >Title< completed?"

Please enter the category that most closely matches their response. If their response does not match any of the existing categories on the list then enter their education level in the "Please specify the other schooling" text box.

If the age of the person is **under 20** (as of 01/01/2007), you will ask the respondent what is the person's 'current' **grade** in school.

Exact wording:

"During June 2008, including pre-school, what was >Your_name's< grade in school? If >Title< didn't go to school that month, what grade had >he_she< last attended?"

If their response = 97 ("N/A – Never attended school"), then you will automatically skip the remaining questions on education. Otherwise you will go on to ask them about the **number of days** the child **missed during the school year**.

Exact wording:

"From the time school started, following the holiday break in January 2008, until the end of June, how many regular school days did >Title< miss?"

You should make clear to them that these are days missed for any reason, not just illness or injury.

If their response = 997 ("N/A – Did not attend school"), then you will automatically skip the remaining question on education. Otherwise you will go on to ask them about the **child's school performance**.

Exact wording:

"During that same period, how would you rate >Your_name's< school performance? Was it excellent,

above average, average, below average or not satisfactory?"

h. Once the questions about the child's education are finished you will then ask the respondent about the **child's height and weight**. You will ask for the child's height in feet and inches and for their weight in pounds. *(These questions are skipped for people 20 years of age or over.)*

i. The next segment will ask about the **number of hours worked** by each member of the household. You will first ask about work related to their farming or ranching operation.

Exact wording:

"Between January 1st and June 30th, 2008, how many months did >Title< work or do chores in any activity related to your farming or ranching operation?"

If the response is "0" you will then move on to ask them about work not related to their operation.

If the response is greater than "0", then ask them about the **number of weeks** that the person **worked** on their operation **in an average month** from January 2008 through June 2008.

Exact wording:

"During that time, in an average working month, how many weeks did >Title< work or do chores in any activity related to your farming or ranching operation?"

If the answer is "the whole month" enter 4 weeks. You will then ask them for the **average number of hours** the person **worked per week**.

Exact wording:

"For those weeks, on average, how many HOURS PER WEEK?"

Once this information is entered, you will repeat the sequence of questions about work time, but this time you will ask about **paid work that was <u>not related</u> to their own operation**.

These questions will be skipped if the person is less than 12 years of age.

<u>Exact wording:</u>

"Between January 1st and June 30th, 2008, how many months did >Title< do any paid work that was not related to your own operation?"

This can include regular full- or part-time jobs, as well as babysitting, lawn mowing, newspaper delivery, and work on other farms.

If the response is greater than "0", ask them **what kind of job** the person did.

<u>Exact wording</u>:

"During that time, what was >Your_name's< <u>primary</u> job or occupation?"

As before, you will ask them about the number of weeks and hours/week that the person worked in an average month from January through June 2008.

<u>Exact wording</u>:

"During that time, in an average working month how many weeks did >Title< work or do chores in any paid activity NOT related to your farming or ranching operation?"

"For those weeks, on average, how many HOURS PER WEEK?"

j. You will then ask them about the person's **<u>level of stress</u>**.

Exact wording:

"During the past four weeks, on a scale of 0 to 10, where 0 means "not stressful" and 10 means "extremely

stressful", how stressful did you feel life was for >Title<?"

Enter the number they provide, from 0 to 10.

k. You will then ask them if the person has any **physical limitations**.

Exact wording:

"Does/do >Title< currently have any limitations, including pain, discomfort, or restricted activity, as the result of an injury, illness or other medical condition?"

You will then ask them if these limitations are results of an injury and if those injuries are related to agricultural work. You will also ask how long the person has experienced these limitations.

Exact wording:

"How long has >Title< experienced these limitations?"

This can be entered as years, months, and days.

l. You will then ask a series of questions about **diagnosed health conditions** that the person may have.

Exact wording:

"Does/do >Title< have any of the following health or medical problems, which have been diagnosed at ANY TIME by a physician, chiropractor, or other health care provider?"

The health conditions are asthma, heart-related problems, diabetes, hearing problems, and vision problems. You will also be prompted to ask them if the person has any other health problems. If so, record their response in the appropriate field.

m. The next segment contains questions about the person's **health-related quality of life**. These questions will only be asked about household members who are **5 years of age or older and living in the household as of June 30, 2008**. (Questions 31-33 and 41 **are** asked for all household members, including those less than 5 years of age.) They are taken from a licensed Health Utilities Index (HUI®) questionnaire and MUST BE ASKED EXACTLY AS WRITTEN (even if the wording may occasionally seem awkward).

Exact wording of the introduction to the HUI® questions:

"The next set of questions asks about various aspects of >Your_name's< overall health. When answering these questions we would like you to think about >his_her< health and >his_her< ability to do things on a day-to-day basis, during the past four weeks. To define a 4-week period, please think about what the date was 1 month ago today and recall the major events that >he_she< has experienced during this period. Please focus your answers on >Your_name's< abilities, disabilities and how they have felt during the past 4 weeks."

"You may feel that the questions do not apply to >Title<, but it is important that we ask the same questions about each subject. Also, a few questions are similar; please excuse the apparent overlap and answer each question independently.

"All information you provide is confidential. There are no right or wrong answers; what we want is your opinion about >Your_name's< abilities and feelings."

The HUI will ask questions about different physical and mental characteristics.

For each question, read the entire sentence as written, emphasizing the underlined words, or words in italics or bold, if any. DO NOT READ the response options, except if listed as part of the question. DO NOT READ "Don't know" or "Refused" responses. Encourage respondents to answer each question to the best of their recollection.

The following descriptions of the HUI questions include the responses that will cause the interview to skip ahead in the sequence. It is noted where the wording is slightly different when the question is about the respondent themselves, rather than another member of the household that the respondent is describing. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

>1< **"**During the past four weeks, has >Title< been able to see well enough to read ordinary newsprint without glasses or contact lenses?"

If YES, go to **>4<**

>2< "Has >Title< been able to see well enough to read ordinary newsprint with glasses or contact lenses?"

If YES, go to **>4<**

>3< **"**During the past four weeks, has >Title< been able to see at all?"

If NO, go to **>6<**

>4< **"**During the past four weeks, has >Title< been able to see well enough to recognize a friend on the other side of the street without glasses or contact lenses?"

If YES, go to **>6<**

>5< "Has >Title< been able to see well enough to recognize a friend on the other side of the street with glasses or contact lenses?"

If YES, go to **>6<**

>6< **"**During the past four weeks, has >Title< been able to hear what is said in a group conversation with at least three other people without a hearing aid?"

If YES, go to **>11<**

>7< “Has >Title< been able to hear what is said in a group conversation with at least three other people with a hearing aid?”

If YES, go to **>9**<

>8< **“**During the past four weeks, has >Title< been able to hear at all?”

If NO, go to **>11**<

>9< **“**During the past four weeks, has >Title< been able to hear what is said in a conversation with one other person in a quiet room without a hearing aid?”

If YES, go to **>11**<

>10< “Has >Title< been able to hear what is said in a conversation with one other person in a quiet room with a hearing aid?”

1 Yes *(go to **>11**<)*
3 No
8 Don’t know/Didn’t wear a hearing aid
9 Refused

>11< **“**During the past four weeks, has >Title< been able to be understood completely when speaking >his_her< own language with people who do not know >Title<?”

If YES go to **>16**<

>12< “Has >Title< been able to be understood partially when speaking with people who do not know >Title<?”

>13< **“**During the past four weeks, has >Title< been able to be understood completely when speaking with people who know >Title< well?”

If YES go to **>16**<

>14< “Has >Title< been able to be understood partially when speaking with people who know >Title< well?”

If YES go to **>16**<

>15< **“**During the past four weeks, has >Title< been able to speak at all?”

>16< **"**During the past four weeks, has >Title< been able to bend, lift, jump and run without difficulty and without help or equipment of any kind?"

If YES go to **>24**<

>17< "Has >Title< been able to walk around the neighborhood without difficulty and without help or equipment of any kind?"

If YES go to **>24**<

>18< "Has >Title< been able to walk around the neighborhood with difficulty but without help or equipment of any kind?"

If YES go to **>24**<

>19< **"**During the past four weeks, has >Title< been able to walk at all?"

If NO go to **>22**<

>20< "Has >Title< needed mechanical support, such as braces or a cane or crutches, to be able to walk around the neighborhood?" *[Enumerator: This asks about walking, so do not include wheelchairs here.]*

>21< "Has >Title< needed the help of another person to walk?"

>22< "Has >Title< needed a wheelchair to get around the neighborhood?"

>23< "Has >Title< needed the help of another person to get around in the wheelchair?"

>24< **"**During the past four weeks, has >Title< had the full use of both hands and ten fingers?"

If YES go to **>28**<

>25< "Has >Title< needed the help of another person because of limitations in the use of >his_her< hands or fingers?"

If NO go to **>27**<

>26< “Has >Title< needed the help of another person with some tasks, most tasks or all tasks?”

1 Some tasks
2 Most tasks
3 All tasks
8 Don’t know
9 Refused

>27< “Has >Title< needed special equipment, for example special tools to help with dressing or eating, because of limitations in the use of >his_her< hands or fingers?”

>28< **“**During the past four weeks, has >Title< been able to eat, bathe, dress and use the toilet without difficulty?”

If YES go to **>31**<

>29< “Has >Title< needed the help of another person to eat, bathe, dress or use the toilet?”

>30< “Has >Title< needed special equipment or tools to eat, bathe, dress or use the toilet?”

>31< **“**During the past four weeks, has >Title< been feeling happy or unhappy?”

1 Happy
2 Unhappy *(go to >**33**<)*
8 Don’t know
9 Refused

>32< **“**Would you describe yourself/>Title< as having felt:
a) happy and interested in life, or
b) somewhat happy?”

1 a) happy and interested in life *(go to **>34**<)*
2 b) somewhat happy *(go to >**34**<)*
8 Don’t know *(go to >**34**<)*
9 Refused *(go to >**34**<)*

>33< **“**Would you describe yourself/>Title< as having felt:
a) somewhat unhappy
b) very unhappy
c) so unhappy that life was not worthwhile?”

1 a) somewhat unhappy
2 b) very unhappy
3 c) so unhappy that life was not worthwhile
8 Don’t know
9 Refused

>34< **“**During the past four weeks, did >Title< ever feel fretful, angry, irritable, anxious or depressed?”

If NO go to **>37**<

>35< “How often did >Title< feel fretful, angry, irritable, anxious or depressed: rarely, occasionally, often, or almost always?”

1 Rarely
2 Occasionally
3 Often
4 Almost always
8 Don’t know
9 Refused

>36< **“**During the past four weeks, did >Title< feel extremely fretful, angry, irritable, anxious or depressed; to the point of needing professional help?”

>37< **“**How would you describe >Your_name’s< ability to remember things, during the past four weeks:
a) able to remember most things
b) somewhat forgetful
c) very forgetful
d) unable to remember anything at all?”

1 a) able to remember most things
2 b) somewhat forgetful
3 c) very forgetful
4 d) unable to remember anything at all
8 Don’t know
9 Refused

>38< **“**How would you describe >Your_name’s< ability to think and solve day to day problems, during the past four weeks:
a) able to think clearly and solve problems
b) had a little difficulty
c) had some difficulty
d) had a great deal of difficulty
e) unable to think or solve problems?”

1 a) able to think clearly and solve problems
2 b) had a little difficulty
3 c) had some difficulty
4 d) had a great deal of difficulty
5 e) unable to think or solve problems
8 Don’t know
9 Refused

>39< “Has >Title< had any trouble with pain or discomfort, during the past four weeks?”

If NO go to **>41**<

>40< “How many of >Your_name’s< activities, during the past four weeks, were limited by pain or discomfort: none, a few, some, most, all?”

1 None
2 A few
3 Some
4 Most
5 All
8 Don’t know
9 Refused

>41< **“**Overall, how would you rate >Your_name’s< health during the past four weeks:
a) excellent
b) very good
c) good
d) fair
e) poor?”

1 a) excellent
2 b) very good
3 c) good
4 d) fair
5 e) poor
8 Don’t know
9 Refused

n. After the HUI questions are finished, you will ask the respondent about the person's **overall quality of life**.

The exact wording is:

"Using a scale of 0 to 10 where 0 means "the worst possible life overall" and 10 means "the best possible life overall", how would you rate >his_her< life, during the past 4 weeks?"

o. In the next segment, you will ask them about the person's behaviors, characteristics, and activities **during the last 4 weeks**. These questions are only asked about those household members who were **below the age of 20 as of 01/01/2007**. The response for each question is based on an 11-point scale between 0 and 10.

First, ask them about the **child's development**.

Exact wording:

"On a scale of 0 to 10, where 0 means "not well at all" and 10 means "extremely well", compared to expected development for children this age, how well, overall, was >Title< doing in terms of social relationships, learning, play, chores or work?"

Then, ask them to describe their **level of concern about the child**.

Exact wording:

"On a scale of 0 to 10, where 0 means "no concern" and 10 means "extreme concern", rate your level of concern about >Title<?"

p. The next series of questions ask **how often the child did certain activities and had certain characteristics during the past 4 weeks**.

Exact wording:

"The next questions are about your perception of >*Your_name's*< behaviors or actions during the past four weeks. Choose the answer that best describes HOW OFTEN the following happened or WAS TRUE of >Title< during that month. Would you say that >he_she< ALMOST NEVER, SOMETIMES, OFTEN or ALMOST ALWAYS..."

"Completed >his_her< work and chores?"

"Worked hard?"

"Was irritable?"

"Looked sad or down?"

"Had low energy?"

Once they respond, enter the number for the category that matches their response.

q. You will then ask them about their **level of strictness with the child** in relation to different topics. You will acknowledge the fact that their level of strictness is dependent on the age of the child.

Exact wording:

"The next few questions ask about YOUR experience in strictness with >Title<. We recognize that parents differ in how strict they are with their children because of children's abilities at different ages."

"During the past four weeks, how STRICT were you about the FOLLOWING: Not strict, somewhat strict, moderately strict or very strict?"

"Knowing where >Title< was?"

"Knowing who >he_she< was with when >he_she< was out?"

r. Next, ask them to describe their **level of concern** about the **child's physical health**, emotional health, and behavior.

Exact wording:

"The next few questions are about YOUR level of comfort with>Your_name's< well-being during the past four weeks. On a scale of 0 to 10, where 0 means "no concern" and 10 means "extreme concern", to what degree were you worried or concerned by >Your_name's< …"

"Physical health?"

"Emotional health?"

"Behavior?"

s. Next, ask them how the **child's physical or emotional health or behavior affected their own time.**

Exact wording:

"On a scale of 0 to 10, where 0 means "not at all limited" and 10 means "extremely limited", to what degree were you limited in the amount of time you had for your own needs, because of >his_her< physical or emotional health or behavior?"

t. You will then ask them how the **child's physical or emotional health or behavior affected family activities**.

Exact wording:

"On a scale of 0 to 10, where 0 means "no interruption" and 10 means "always interrupted", to what degree were various everyday family activities interrupted, as a result of >title<'s physical or emotional health or behavior?"

u. The following segment will ask them to describe **work that was missed by any household member when caring for the child because of injuries or illnesses the child may have had**.

The interview will skip these questions when asking a respondent about all children in the household, if the corresponding lead-in question above (section 1. Household Information) has a "No" response.

Exact wording of question description:

"In the following questions, I will ask about the amount of time any household members spent caring for >Title< because of injuries, illnesses or mental and physical health conditions, from January 1st through June 30th, 2008."

The first series of questions are about **missed days of work or chores related to their farming or ranching operation**.

Exact wording:

>1< "Did any household members miss days of work or chores related to your farming or ranching operation, due to >Your_name's< injuries, illnesses or health conditions?"

If "no", or "unknown", or "refused" then go to **>2<**

If YES then ask how many days were missed.

Exact wording:

>1a< **"**About how many (8 hour) work days were missed?"

0	Less than one day
___	1 – 184 days
8	Unknown
9	Refused

Ask if anyone substituted for these household members when they missed work.

Exact wording:

>1b< **"**Did anyone else substitute for these household members when they missed work days?"

If "no", or "unknown", or "refused" then go to **>1d<.**

If YES, then ask how much was paid for the help.

Exact wording:

>1c< "About how much was paid in whole dollars for this help?" ____

You will ask them if this amount is per hour, per day, per week or the total amount.

Next, ask them about the total income lost in association with the lost workdays.

Exact wording:

>1d< "About how much income did these household members lose in association with these lost work days?"

0	Nothing
___	1 – 99997 dollars
99998	Unknown
99999	Refused

The next series of questions are about **missed days of work NOT related to their farming or ranching operation**.

Exact wording:

>2< **"**Did any household members miss days of work not related to your farming or ranching operation, due to >Your_name's< injuries, illnesses or health conditions?"

The follow-up questions about missed days of non-operation related work follow the same format as those for the missed days of operation related work above (see **>1a<** to **>1d<**).

The next series of questions are about **days where household members were unable to do usual childcare or home chores** when caring for the child because of injuries or illnesses the child may have had.

Exact wording:

>3< **"**Were any household members unable to do usual child care or home chores (e.g., cooking, housekeeping, laundry) or care for other family members because of time spent caring for >Title<, due to >his_her< injuries, illnesses or health conditions?"

The follow-up questions about missed days of usual childcare or home chores follow the same format as those for the missed days of operation related work above (see **>1a<** to **>1d<**).

v. The next segment of the interview will ask about **health services used by the child** (< 20 years of age as of 01/01/2007). The interview will skip these questions when asking a respondent about a child in the household, if the corresponding lead-in question above (see section 1. Household Information) has a "No" response.

Exact wording:

"In the following questions I will ask about the health services used by children in your household, from January 1st through June 30th, 2008."

You will then ask them if the child was **admitted to a hospital**, **went to a hospital emergency department** (excluding Emergency Department visits that preceded a hospital admission), or **visited a doctor or other health care provider or received a health care treatment.** If the answer to any of these is YES, then a follow-up question asks **how many times the health service was used in the six-month period**.

You will then ask them if there were any **barriers that kept the child from obtaining health care**.

Exact wording:

"At any time, from January 1st through June 30th, 2008, was >Title< unable to get **medical** care, tests, or treatments that >he_she< or a doctor believed to be necessary?"

Specify: _____

Enter the text of their response in the appropriate field.

You will later ask them more detailed questions about each health care service the child used in the first six months of 2008.

3. Health Services

a. If you have recorded at least one **hospitalization** for *any of the children*, then the following series of questions will be repeated for each hospitalization, for each of the children with any reported hospitalizations. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

Exact wording:

"How many nights did >Title< stay in the hospital during hospitalization #>count<?"

0	Less than 1 full night
____	1 – 184 nights
998	Unknown
999	Refused

"Did that hospital stay begin with a visit to an emergency department?"

Ask them if an illness or injury associated with their farming or ranching operation was related to the child's hospital stay.

Exact wording:

"Was the hospital stay related to an illness, injury or health condition associated with your farming or ranching operation?"

If "YES" then ask them to describe the illnesses, injuries or health conditions.

Exact wording:

"What illnesses, injuries or health conditions were discovered or led >Title< to enter the hospital?"

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

PROBE for any other conditions and enter up to 4.

"Which of the following categories best describes the reason >he_she< entered the hospital?"

1 Operation or surgical procedure
2 Treatment or therapy, not including surgery
3 Diagnostic tests only
4 Other (specify)
8 Unknown
9 Refused

You will first READ the list and then enter the category that fits their response. If their reason does not fit any of the listed categories then enter their response in the **"**Please specify - Other" *field.*

Next ask about any operations or surgical procedures that the child may have had during the hospitalization.

Exact wording:

"Were any operations or surgical procedures performed on >Title< during that hospital stay?"

If "YES" then ask them to describe the operations or surgical procedures.

Exact wording:

"Please describe the **operations or surgical procedures.**"

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

PROBE for any other operations or surgical procedures and enter up to 4.

b. If you have recorded at least one **emergency department visit** for *any of the children*, then the following series of questions will be repeated for each visit, for each of the children with any reported emergency department visit. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

First ask them if an illness or injury associated with their farming or ranching operation was related to the child's emergency department visit.

Exact wording:

"Was emergency department visit #>count< related to an illness, injury or health condition associated with your farming or ranching operation?"

If "YES", then ask them to describe the illnesses, injuries or health conditions.

Exact wording:

"What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?"

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

PROBE for any other conditions and enter up to 4.

"Which of these **services**, if any, did >Title< have during that visit?"

1 Laboratory tests
2 X-rays
3 MRI, CATSCAN, Sonogram or ultrasound
4 Other diagnostic test(s) (specify)
5 Other treatment (specify)
0 No services received
8 Unknown
9 Refused

Read list and enter all that apply. Do not record surgical procedures here. If they describe a diagnostic test that does not fit any of the listed categories then enter their response in the "Please specify – other diagnostic test(s)" field. If they describe a treatment that does not fit any of the listed categories, then enter their response in the "Please specify – other treatment" field.

Next ask if a surgical procedure was performed on the child during the emergency department visit.

Exact wording:

"Was a surgical procedure performed on >Title< during that visit?"

If "YES", then ask them to describe the surgical procedure.

d. If you have recorded at least one **visit to a doctor or other health care provider** for *any of the children*, then the following series of questions will be repeated for each visit, for each of the children with any reported visit to a doctor or other health care provider. Responses for individual questions are shown only when they contain something other than "Yes", "No", "Don't know", and "Refused".

First ask them about the type of care received.

Exact wording:

"Which category best describes the type of **care** >Title< received during visit #>count<?"

1 Well child exam or General check-up
2 Immunizations or shots
3 Diagnosis or treatment
4 Follow-up or post-operative visit
5 Other care (specify)
8 Unknown
9 Refused

If they describe a type of care that does not fit any of the listed categories then enter their response in the "Please specify – other care" field. If the response = 1 or 2 the interview moves on to the next visit. For all other responses it continues with the following questions.

Ask them to describe where the visit took place.

Exact wording:

"In which of these places did that visit take place?"

1 Walk-in or Urgent care center
2 Doctor's office or Clinic
3 Free-standing surgical center
4 Some other place (specify)
8 Unknown
9 Refused

If they describe a location that does not fit any of the listed categories then enter their response in the "Please specify – other place" field.

Ask them if an illness or injury associated with their farming or ranching operation was related to the child's visit.

Exact wording:

"Was the visit related to an illness, injury or health condition associated with your farming or ranching operation?"

If “YES”, then ask them to describe the illnesses, injuries or health conditions.

Exact wording:

“What illnesses, injuries or health conditions were discovered or led >Title< to make that visit?”

Condition #1: _____

Condition #2: _____

Condition #3: _____

Condition #4: _____

PROBE for any other conditions and enter up to 4.

4. <u>Second six-month injury follow-up section</u>

This next section asks about the continued consequences of injuries that occurred during the 2nd six months of 2007, as reported in the previous interview. If no injuries were reported for all household members then this section is skipped.

“The next questions are about continued problems or consequences of accidents and injuries that occurred to >Title< during the last 6 months of 2007.”

You will first remind the participant about the number of injuries that were previously reported.

“When we talked with your household on >InjIntDate<, it was reported that >Title< had >total_injuries< injuries total, between July 1st and December 31st, 2007.

I will now ask you about problems or consequences of these injuries, since we last talked with your household on >InjIntDate<.”

The program loops through the injury events for that household member. When there are no more events it moves on to the next household member for whom there was at least one event previously reported.

Each injury event is referenced by its description in the 2nd six-month injury interview, including its date, location, injury source(s), and the body parts affected.

The exact wording is:

"The following questions are about the injury >Title< experienced >in_on< >InjWhen< associated with >InjSource1< >InjSource2<, in or around >InjWhere<, involving >his_her< >InjPart1<>InjPart2<>InjPart3< >InjPart4<>InjPart5<>InjPart6<."

So, the quality of the description is completely dependent upon the amount of information entered by the enumerator who collected the initial injury report, in February 2008.

a. You will first ask, as a result of the injury event, **how long normal activities were restricted,** since we last spoke with them.

"Since we last talked with your household, on >InjIntDate<, as a result of this injury, HOW LONG were normal activities restricted? Normal activities are the things a person would ordinarily do on any given day."

This does not just mean farming/ranching activities, it refers to ALL normal activities the person engages in on a given day.

b. Ask about **PERSISTENT problems or symptoms** related to the injury.

"At the present time, are there any PERSISTENT or CONTINUED problems or symptoms related to this injury, including things such as numbness, pain, weakness, or some type of impairment?"

c. If the answer to this question is YES, you will ask **what body parts are affected by the persistent problems or symptoms**:

"What parts of the body are affected?"

Up to six can be entered from the list provided and entering code 127 ("No additional body parts") ends the loop.

d. Then ask about the **types of persistent problems or symptoms** occurring to each body part.

"What are the exact types of persistent or continued problems or symptoms occurring to the >FUI_symptoms2$_i$<?"

Up to six can be entered from the list provided.

e. You then will ask questions about **care of the injury**

"The following questions are about care of the injury, since we last talked with your household on >InjIntDate<. Was the injury TREATED BY A HEALTH CARE PROFESSIONAL, such as a doctor, nurse, chiropractor, dentist or other healthcare professional?"

f. If the answer to this question is "YES", you will ask about the **location of the care**:

"Since >InjIntDate<, in which of the following places did >Title< receive care?"

You will read the following list and indicate whether or not care was received at each of these places:

1 A doctor's office or clinic
2 Walk-in or Urgent care center or "minute clinic" (nursing clinic located in a retail store)
3 A hospital emergency department
4 A hospital as an in-patient (admitted to a hospital)
5 Outpatient: hospital or surgical center (free-standing)
6 A dentist's office
7 A chiropractor's office
8 At the scene of the accident
9 Any other health care facility
98 Unknown
99 Refusal

If they were admitted to a hospital you will be prompted to ask about their hospital stay.

g. First ask about the **length of the hospital stay**.

"During that time, how long >was_were< >Title< in the hospital?"

You will then ask more detailed questions about the person's healthcare treatment, missed school and work, if they were **below 20 years of age as of January 1, 2007**.

h. First ask them about **operations or surgical procedures** related to the injury event

"Since >*RecallPhrase*< >in_on< >*RecallDate*<, were any operations or surgical procedures performed on >Title<, as a result of this injury event?"

If "YES", then ask them to describe the operations or surgical procedures.

Exact wording:

"Please describe the **operations or surgical procedures.**"

Operation #1: _____

Operation #2: _____

Operation #3: _____

Operation #4: _____

PROBE for any other operations or surgical procedures and enter up to 4.

i. Next, ask about **specific health care services** received.

"Since >*RecallPhrase*<, >in_on< >*RecallDate*<, which of these services, if any, did >Title< have, as a result of this injury event?"

1 Treatment or Therapy, other than surgery (specify)
2 Laboratory tests
3 X-rays
4 MRI, CATSCAN, Sonogram or ultrasound
5 Other diagnostic test(s) (specify)
0 No services received
8 Unknown
9 Refused

Read list and enter all that apply. Do not record surgical procedures here.

If applicable, ask respondent to specify other diagnostic tests.

"Please specify – The other diagnostic test(s)"

Also, if applicable, ask about specific forms of treatment or therapy

"Please specify – The other treatment or therapy"

j. Next, ask them about any **out-of-pocket medical expenses** incurred by the household as a result of this injury.

"As a result of this injury event, about HOW MUCH did your household pay out-of-pocket for medical care, >*RecallPhrase*<, >in_on< >*RecallDate*<? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one."

Read the following list until they stop you:

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

k. Ask them about **school days** the child may have **missed as a result of the injury**.

"As a result of this injury, HOW MANY regular school days did >Title< miss, since our last interview, >in_on< >InjIntDate<?"

l. Ask if **injured child missed days of work or chores related to respondent's agricultural operation.**

"Since we last talked with your household, on >InjIntDate<, did >Title< **miss days of work or chores** related to your farming or ranching operation, as a result of >his_her< injury?"

If YES, then ask the following:

"About HOW MANY (8 hour) days were missed?"

0 Less than one day
___ 1 – 184 days
8 Unknown
9 Refused

Next, ask about any substitute workers

"Did **anyone substitute** for >Title< when >he_she< missed work?"

If YES, then ask the following:

"About HOW MUCH was paid in whole dollars for this help?" ____

You will ask them if this amount is per hour, per day, per week or the total amount.

Then ask them how much income was lost because of lost work days.

"About how much <u>income</u> did your operation lose in association with those lost work days?"

m. The next series of questions are about **<u>days of work NOT related to their farming or ranching operation that injured child may have missed</u>**.

<u>Exact wording:</u>

"Since we last talked with your household, on >InjIntDate<, did >Title< lose ANY TIME from work at job(s) NOT RELATED to YOUR farming or ranching operation as a result of the injury?"

The follow-up questions about missed days of non-operation related work follow the same format as those for the missed days of operation related work, above.

n. The following segment will ask them to describe **<u>work that was missed by other household members due to the child's injury</u>**.

"Since we last talked with your household, on >InjIntDate<, did **any other household members** miss days of work or chores <u>related to your farming or ranching operation,</u> due to >Your_name's< injury?"

"About HOW MANY (8-hour) days were missed?"

"During that time, did **anyone else substitute** for these household members when they missed work?"

"About HOW MUCH was paid in whole dollars for this help?"

You will ask them if this amount is per hour, per day, per week or the total amount.

Then, ask them how much income the household members lost because of lost work days.

"About HOW MUCH income did these household members lose in association with those lost work days?"

o. The next series of questions are about **missed days of work, NOT related to their farming or ranching operation**.

"Since we last talked with your household, on >InjIntDate<, did **any other household members** miss days of work not related to your farming or ranching operation, due to >Your_name's< injury?"

The follow-up questions about missed days of non-operation related work follow the same format as those for the missed days of operation related work above.

4. More Household Information.

Exact wording:

"I just have a few more questions about your household."

a. If you have already recorded that the age of at least one child in the household is 17 years or younger, then ask the respondent about their **caregiver status**.

If there is only one child who is 17 years of age or younger then ask the following question.

Exact wording:

"Are you >Child17<'s primary caregiver?"

If there is more than one child who is 17 years of age or younger then ask the following question instead.

Exact wording:

"Are you the primary caregiver for All children, Some Children or No children 17 years of age or YOUNGER in your household?"

0 None of them
1 Some of them
2 All of them
8 Unknown
9 Refused

b. Next, ask them about any **out-of-pocket medical expenses** incurred by the household in the past six months.

Exact wording:

"About how much did your household pay out-of-pocket for medical care in the last six months? This includes out-of-pocket expenses for doctor visits, outpatient surgery, dental visits, nursing home and hospital bills, prescriptions, in-home medical care, special facilities and other medical care services. I'll read you a list of categories and would like you to stop me when I reach the correct one.

0 Nothing
1 Less than $500
2 $500 - $4,999
3 $5,000 – $9,999
4 $10,000 - $19,999
5 $20,000 - $49,999
6 $50,000 or more
8 Unknown
9 Refusal

Read list until they stop you.

c. The last question is about their **household income**.

Exact wording:

"Please estimate your net household income between July 1st, 2007 and June 30th, 2008, after taxes, from all sources. Would it be:"

1 Less than $15,000
2 $15,000 - $29,999
3 $30,000 - $49,999
4 $50,000 - $99,999
5 $100,000 or more
8 Unknown
9 Refusal

Read list of possible answers and enter the income range that matches their response.

The final task is to thank them for participating in the interview and remind them that they will be contacted again in six to twelve months for a follow-up interview.

Exact wording:

"Thank you very much for your time today. You have given us important information about factors that will help to better understand the experiences of families operating farms and ranches. We will be calling your household again in approximately six to twelve months for another interview. We look forward to speaking with you then. GOOD-BYE."

– END OF EVALUATION INTERVIEW –

APPENDIX I
IMPORTANT SURVEY TECHNIQUES

Participants may remember more about how the interview was conducted than they will about the topics covered in the interview. This emphasizes the importance of the interviewer being professional and capable of accepting what the participant says without apparent judgment. It is important to remember that the intent of survey interviews is to collect information. A number of factors can increase the participant's receptiveness and success of the interview:

A. Establishing A Rapport

The participant and the interviewer need to establish a good rapport**.** Rapport is a term used to refer to the interpersonal connection established between the interviewer and the participant. Rapport sets the foundation for good interviewing. The participant's impression of you during your introduction and early remarks will have a considerable impact on the rapport that will develop. You, the interviewer, need to impress the participant as being someone who is not only understanding and accepting, but sincere and courteous as well.

B. Identifying The Importance Of The Project

The extent to which an interviewer might have to explain the project will vary considerably from respondent to respondent. All households that you call should have received a letter explaining the project, prior to your contact by telephone. Respondents may have several questions to ask about the project; therefore, do not assume that they will fully cooperate at this point. All prospective participants, even those who are least interested in participating, should feel that the project is important. If they question the importance of the project, you should tell them that farming/ranching accidents and injuries are a major problem and that the results of this project will be used to decrease the problem of accidents and injuries in agricultural households. If they question how their participation can help, you must assure

them that their cooperation will be meaningful not only to the project results but, also ultimately, to themselves, their families and their communities.

C. Establishing Confidence Among The Participants

Participants need to feel confident in responding to the interview questions. Participants will usually not interrupt the interviewer. You, the interviewer, must therefore be alert to doubts the participant may have, even if he/she does not express them vocally (i.e., through apparent hesitation). You must attempt to clarify the questions for them.

D. Asking The Questions

Your goal is to collect accurate information through the use of the CATI data collection instrument. Data from project participants must be collected in a uniform manner. Thus, all people in a sample must be asked the same questions in the same way as they have been designed.

The following principles and techniques must be employed when using the CATI instrument:

1. **Always Remain Neutral.** The interviewer must be careful that nothing in his/her words or manner implies criticism, surprise, approval, or disapproval of either the questions asked or of the participant's answers. The questions should be asked in such a way that the same answers would be obtained no matter who was asking them.
2. **Ask all Questions Exactly as Worded**. ***Even the smallest change can affect the entire meaning of the question. Do not change even one word in the question that is on the screen.*** If a respondent does not understand the question the first time you read it, do not re-word it. Simply re-read the question as it is stated, even if you feel the question could be stated differently. Great care was taken in writing each question; every word is there for a reason. In order for all of the data

collected to be meaningful and accurate, there must be no doubt that each participant heard exactly the same question, asked in the same way before answering.

3. **Hold The Participant's Interest.** Try to keep your attention focused on the participant and not overly absorbed in the questionnaire. However, you should also try to stay alert to the flow of the interview and whether, or not, the answers being given are sufficient, clear and appropriate to the questions asked.

E. Probing

Probing is the technique used by the interviewer to obtain more specific and necessary information. For example, if an answer seems inadequate in relation to the information needed for the project, you may need to probe in order to obtain more information. Probing has three major functions:

1. to motivate the participant to enlarge upon, clarify, or explain his/her answers;

2. to focus the participant's answers so that irrelevant and unnecessary information can be eliminated;

3. to pinpoint information, such as dates, names, locations, as accurately as possible.

Interviewers must fully understand the purpose and meaning of each question. Once you understand the purpose or rationale of each, you will find it much easier to decide if you have a satisfactory answer or whether you should probe for a clearer and more complete one.

Probing should not bias the response or antagonize the participant.

Probes must always be neutral. Remember, you want to motivate the participant to respond more fully or to focus his/her answer without introducing bias, especially your own views. The potential for bias is great in the use of probes. Under the pressure of the interviewing situation, the interviewer may quite unintentionally imply that some answers are more acceptable than others or may hint that a participant might want to consider this or include that in giving a response. **Do not lead the participant into an answer**.

1. Types Of Probes

A number of different neutral probes that appear as a part of a normal conversation can be used to stimulate a fuller, more complete response.

- An expression of interest and understanding;
- An expectant pause;
- Repeating the question;
- Repeating the participant's reply;
- A neutral question or comment.

a. Probes to Clarify:

1) **What do you mean by . . .?**
2) **What do you mean exactly?**
3) **Could you please explain that a little?**
4) **I don't think I quite understand.**

b. Probes for Specificity:

1) **What in particular do you have in mind?**
2) **Can you be more specific about that?**
3) **Tell me about that: who/what/when/where/why . . .?**

c. Probes for Data Specificity:

1) **Was that before or after your hospitalization?**
2) **What type of equipment was that?**
3) **Were you working at the time?**

d. Probes for Relevance:

1) **I see. Well, let me ask you again...(Repeat question exactly as worded).**
2) **Would you tell me exactly how you mean that?**

e. Probes for completeness:

1) **What else?**

2) **What else can you think of?**

3) **What other reason/things/examples can you think of?**

2. When to Stop Probing

If at any time the participant becomes obviously irritated or annoyed, discontinue probing. *We do not want the participant to refuse the rest of the interview*. If the participant accepts the probing, continue until you have obtained as much information as possible to fully answer the question. If the probing is done correctly, you will most likely obtain a complete answer.

APPENDIX II

FREQUENTLY ASKED QUESTIONS: ANSWERING PARTICIPANTS' QUESTIONS

(Remove this copy from manual for use during Interviews)

Respondents will undoubtedly have questions about the interview as the interview progresses. They may also ask similar questions when you make the initial phone contact.

A. Typical Questions Participants Ask:

1. **Why are you interviewing me?**
2. **Who gave you my name?**
3. **Why are you doing this project?**
4. **Why are you interviewing me? We didn't have any injuries.**
5. **Who will see the information I give you?**

You must have ready and convincing answers to questions such as these. Examples of how to respond to these types of questions are given below:

B. Examples of Responses to Respondents' Questions

1. **Why are you interviewing me?**

   It is important that we interview you since this is a project of farm and ranch households that are representative of the entire agricultural community.

2. **Who gave you my name?**

   Your farm or ranch was picked randomly from a list that is maintained by the National Agricultural Statistics Service for each state.

3. Why are you doing this project?

The purpose of the project is to determine the extent and the consequences of farm/ranch-related injuries among household members. The findings will also serve as a basis for determining the best ways to prevent such injuries. Specifically, we are asking questions about the farm or ranch, farming/ranching operation-related activities, household members, and any injuries that may have occurred during 2007. The findings will provide important information that will help to better understand the experiences of family owned agricultural operations.

4. Why are you interviewing me? We didn't (don't) have any injuries.

Farm/ranch households with no injuries are just as important to the project as those households that have injuries. All of the information we obtain is important and essential in helping to gain a full understanding of the injury problem. Because there are many different types of farms/ranches and exposures to various activities, it is important to determine differences between those that have injuries and those that do not.

5. Who Will See The Information I Give You? How Will The Information Be Used?

A *coded number* is assigned to each operation interviewed so that *all information is then identified by the number, only*. No individual operation or person is ever identified in any report, because results of the project are presented in group form, only. For example, a result might be presented in the following form:

- Dairy farming was considered the major farm enterprise for 32% of farms surveyed.
- Injuries occurred among 9% of farms surveyed.
- 53% of all agricultural-related injuries required a doctor's care.