### The Farm

The Farm Accident Situation in 1948



# Accident Situation in 1948

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Estimates contained in this article are based on three sample surveys conducted by the Bureau of Agricultural Economics of the United States Department of Agriculture. The surveys were designed to obtain various items of agricultural information in addition to accidents. The farms sampled were those found in a carefully selected areas cross-section of small throughout the country. In all, 35,892 interviews were made with farmers, each of whom was asked to report on the accident experience for persons living or working on his farm, during the part of the year immediately preceding the survey. A total of 1,927 accidents were reported. For the months October through December, data related to the year 1946 and for the other 9 months, to 1948. For simplicity, throughout this report, results are referred to as relating to 1948, as it is assumed that the accidents occurring in the last quarter of 1946 are representative of those for the same quarter of

Throughout this report, only injuries resulting in one day or more lost from regular activities are counted as accidents.

During 1948, at least one resident out of every six farms was the victim of an accident involving one day or more lost from regular activities, according to estimates of the Bureau of Agricultural Economics based on three sample surveys. The surveys also indicated that at least \$36,000,000 were spent last year for medical, dental, and hospital care resulting from accidental injuries to farm people. This estimate does not include the costs of accidents to people who were killed or who suffered permanent total disabilities, nor the value of lost time. which totalled about 17,000,000 days. Reports of time lost averaged about 20 days per accident. Medical care costs, as reported, averaged \$43 per accident, and about a fourth of such costs were covered by insurance.

Falls were reported as the leading type of accident to farm people in all regions. They accounted for a fourth of all accidents. Accidents involving machines and those involving animals were next, each accounting for about an eighth of all accidents to farm people.

Seventy-two percent of all accidents to farm people, it is estimated, occurred on the farm—16 percent in the farm home and 56 percent elsewhere on the farm. Of the 28 percent of accidents occurring to farm people off the farm, 11 percent occurred on roads or streets. The other 17 percent of accidents occurring off the farm included industrial accidents suffered by farm people who were working in factories and accidents suffered by children in games at school.

Fifty-four percent of the injuries reported were sustained while the victim was engaged in farm work. Farm accidents reached a peak in September, when both farm work accidents and recreational accidents were sharply up. Six percent of all the accidents reported caused only 1 day of lost time, but another 5 percent resulted in more than 2 months lost each.

Males had an accident rate over three times as great as females, and males in the age group 25 to 44 years had the highest rate.

#### Regional Differences

The South showed the lowest rate of accidents with 27 out of every 1,000 of the farm population suffering a disabling injury at some time during the year. The rate for home accidents in the South, however, was about equal to the national rate. Hand tool accidents were the only type for which the national rate was exceeded in the South. The accident rate was slightly below the national level in the Northeast, and considerably above the national level in the North Central region and West. The North Central region had the highest rate for machine and motor vehicle accidents, and the lowest rate for hand tool accidents.

Average costs ranged from \$34 in the South to \$66 in the Northeast. The low average in the South was partly due to the very low incidence of motor vehicle and machine accidents in the South. These are the two most costly types of accidents. However, accidents of nearly all types were reported as having lower costs in the South and higher costs in the Northeast than elsewhere. The South was also lowest in extent of insurance, with 16 percent of medical costs covered, while the West, with 37 percent, was highest.

#### Farm Work Accidents

Of those accidents to farm people which actually occurred on the farm about three-fourths were accidents which happened while the person injured was engaged in farm work. Chores accounted for more than a fourth of the farm work accidents in the months from January through September, the only part of the year

for which separate information was obtained on chore accidents. When the farm work accidents are related to the number of persons working on farms, a rate of 44 disabling injuries per 1,000 working is obtained for the United States. The South was lowest with 35 and the North Central region highest, with 56 accidents per 1,000 working.

Among farm work accidents, the accident rate for falls exceeded those for machines and animals by only a small margin. Hand tools were fourth as a cause of farm work accidents. The accident rate per 1,000 working varied only slightly throughout the year but was highest in the July to September quarter.

#### Accidents by Type

#### l. Falls



Falls were first among the types of accidents in frequency of disabling injuries caused, and second in severity as measured by average time lost. Twenty-six per-

cent of all falls occurred in the home and 6 percent on roads or streets.

Falls from vehicles and those due to slipping or tripping were important categories for all age groups. Falls accounted for about 40 percent of accidents to children under 5, who usually fell from chairs, beds, moving vehicles, or by tripping over objects. Children 5 to 13 suffered most of their falls while playing. For those from 14 to 24 most of the falls also occurred during recreational activities such as bicycling, skating, and playing baseball or basketball. Older members of this group suffered falls from wagons, trucks, and hay mows.

Falls occurring on stairs or steps and those resulting from slipping on ice were a source of very few disabling injuries for those under 24, but were important for all age groups after 24, and made up a particularly large proportion of falls experienced by women. For persons of 25 to 44

years, over a fourth of all falls were from vehicles, usually trucks or wagons. For persons over 44, a tenth of all falls resulted from slipping on ice or snow and about a fourth were other falls which did not involve a drop from one level to another. Persons over 65 were the most liable to falls, with one out of every 75 such persons suffering a disabling fall sometime during the year. This was more than twice the rate for people under 45.

The large number of unclassified falls were cases where the report merely stated that the person fell. Probably most of these were falls not involving a drop from one level to another. Besides the falls classed as such, many falls are classed under other types of accidents. For example, those associated with machinery, animals, and moving motor vehicles appear under those types.

#### 2. Machines



Machinery accidents in the youngest age groups involved children playing around machines of all kinds, usually when the machines were in operation. Trac-

tors accounted for 28 percent of all machinery accidents in the surveys, and nearly 4 percent of all accidents to farm people. Cranking tractors was the action most frequently reported to result in injuries, usually sprained or broken wrists or arms. Following in order of frequency were injuries sustained while attaching other implements to tractors, being struck or run over by tractors that tipped over or reared, and jumping or falling off tractors. Combines and threshing machines accounted for about a third as many accidents as tractors. Corn pickers and corn shellers together accounted for 6 percent of machine accidents. Four of the corn sheller accidents resulted in loss of fingers or hands. Home machinery used chiefly by women accounted for only 3 percent of all machinery accidents.

The large category of other and unclassified machine accidents includes a variety of farm machines such as cultivators, ensilage cutters, corn elevators, manure spreaders, and various specialized harvesting machines, as well as the industrial machinery accidents occurring to farm people working off farms.

#### 3. Animals



Horses and mules were exceeded only by autos and trucks among the specific agents causing farm accidents. They accounted for 7 percent of all farm accidents, and horses were responsible for by far the greatest proportion of this

total. Persons under 24 were most often riding the animals when they were thrown, fell off, or had the animal fall with the rider. Persons over 24 were more often handling the animals when injured through being kicked, having a foot stepped on or sustaining injuries trying to control runaways. Cows and steers accounted for 3 per cent of all farm accidents. Kickings were the most frequent occurrence in accidents involving cows and steers, but many other kinds of injuries were also incurred in the handling of these animals. Bulls were responsible for less than 1 percent of all farm accidents. Dogs caused a still smaller number.

#### 4. Motor Vehicles



About a tenth of all accidents to farm people were motor vehicle accidents, but these accidents accident for 14 percent of the time lost and medical costs of

all accidents. Persons in the 14 to 24 year age group had the highest motor vehicle accident rate. Children were most often the victims of pedestrian accidents, which generally occurred when they were going to or from school. However, a third of the pedestrian accidents happened on farms, often when cars were backing or starting.

Only about two-thirds of the auto and truck accidents were reported in sufficient detail so that they could definitely be classed as pedestrian or nonpedestrian accidents. Of these, over three-fourths were nonpedestrian accidents, mostly collisions between two motor vehicles, but also including a considerable number of cases where cars or trucks overturned or ran off the road. About a seventh of the classified nonpedestrian accidents were suffered by small children falling from moving cars or by older persons falling or thrown from moving trucks. It is believed that the unclassified auto and truck accidents were chiefly nonpedestrian accidents.

#### 5. Handling Objects



This type, of course, includes the handling of objects other than those covered more specifically under types previously discussed. Over half of the cases resulted

from lifting heavy objects, such as logs, lumber or other construction materials, pieces of farm machinery, or sacks of feed. This category accounted for about 4 percent of all farm accidents, with back injuries resulting in a great majority of the cases. About one out of 15 of these accidents resulted in ruptures.

Sharp objects causing injuries covered a wide variety ranging from broken dishes to fish hooks. This is one of the few categories where breakage or defects in the item handled was responsible for a considerable number of injuries. About a

third of these accidents were the result of dishes or glassware breaking when being washed or handled. Rough objects causing injuries were chiefly wood and lumber.

#### 6. Hand Tools



Axes were involved in nearly half of the hand tool accidents. It was most often reported that the person injured was engaged in chopping wood, when the axe

slipped or glanced, or missed its object, causing many injuries to feet or toes. At least one out of every 10 accidents involving axes occurred when axes were not in cutting use, but were being carried or sharpened, or fell on people when they were apparently not carefully disposed of between usage.

Knives were second in importance among hand tools causing injuries, and pitch forks third.

Comments rarely indicated defective tools as the cause of hand tool accidents, but the inference generally was that the tools were not used with sufficient care or skill.

#### 7. Stepping on or Striking Against Objects



Injuries f r o m this type of accident were less severe than for any other type, but they nevertheless resulted in an average of 11 days lost per accident. One out

of every six of these accidents occurred in the home. A considerable number of accidents caused by stumbling, jumping, and slipping are classified under this type because they resulted in sprained ankles rather than falls. Only about a third of the injuries in this type resulted from striking against objects.

#### 8. Falling and Flying Objects



This type embraces subgroups of very diverse descriptions and includes a larger proportion of off-farm accidents than any other type, even motor vehicles. A c c i-

dents incurred in the cutting of trees and hauling or handling of logs or lumber predominated. About a third of the accidents involved in handling and hauling lumber occurred to farm people while they were working off farms, usually in saw mills or at lumbering. Falling tools, machinery, or equipment included several cases caused by jacks slipping from under farm machines or wagons, and also a number of industrial accidents. Injuries sustained when particles flew into persons' eyes also included a considerable number of off-farm work accidents.

#### 9. Burns or Shock



Burns or shock were the least frequent type of farm accident, but these accidents were third in the average cost of medical care. Accidents of this type which

occurred to the very young generally resulted from children playing around stoves or outdoor fires. Adults were most often injured when starting or tending stoves or oil burners. Often stoves exploded when being ignited with kerosene. Some explosions of gas stoves were also reported. All of the scaldings reported in the survey occurred to women or children. Sixtytwo percent of all burns occurred in the home.

#### Sources of Error in the Farm Accident Surveys

Because of difficulties of remembering, the total number of accidents was undoubtedly underreported in the surveys, particularly those occurring to persons other than farm operators, those of lesser severity, and those occurring early in the reporting period. For these and other reasons the indicated total time lost, costs, and accident rates are probably too low, but it is believed that at least three-fourths of the accidents were reported.

In addition to the biases indicated in the preceding paragraph, results are subject to sampling errors which are greatest for categories having the fewest accidents. Thus, for example, the sample number of 476 falls has a sampling error of about 6 percent while the sample number of tractor accidents has a sampling error of about 15 percent.

Rates per 1000 farm population are based on January 1948 farm population, with age and sex composition taken from unpublished data relating to April 1948. Some inaccuracies in rates per 1,000 farm population result from the fact that the accident data are not exactly comparable with the farm population data, since accidents of nonresident farm operators and their families, as well as accidents happening to hired workers not living on farms, are included.

Separate indications of the numbers of fatal and permanent total disability accidents are not shown because there were only 23 fatal and 7 permanent total disability accidents reported in the surveys. These accidents were excluded from all computations of costs and time lost.

## Farm Accident Survey Statistics

Table 1. Accidents to farm people and farm workers, 1948. Sample number of accidents, rate per 1,000 farm population, time lost and medical cost, by regions and by type of accident

|  | , , , ,                                |  | Exclud   | Excluding fatal and permanent total disabilities |  |                                  |  |  |  |
|--|--|--|--|--|--|----------------------------------|--|--|--|
|  | Sample                                 | Rate                                   | Days   | lost   | Medi   | Medical cost                     |  |  |  |
| Region<br>or<br>Type of accident   | number<br>of<br>αccidents              | per 1000<br>farm<br>population         | Total  | Average<br>per<br>accident                       | Total  | Averaĝe<br>per<br>accident       |  |  |  |
| Region   |  |  | 1,000 days                                       | days   | \$(000)  | \$                               |  |  |  |
| Northeast<br>North Central<br>South<br>West<br>United States   | 159<br>697<br>867<br>204<br>1,927      | 29.5<br>37.6<br>26.6<br>40.3<br>31.3   | 1,480<br>6,320<br>7,770<br>1,660<br>17,230       | 22<br>20<br>21<br>18<br>20                       | 4,490<br>14,390<br>12,940<br>4,200<br>36,020       | 66<br>47<br>34<br>46<br>43       |  |  |  |
| Type of Accident   | 1                                      |  |  | 1  |  |                                  |  |  |  |
| Falls of persons Machines Animals Motor vehicles Handling objects Hand tools Stepping on or striking | 476<br>248<br>233<br>179<br>159<br>150 | 7.7<br>4.0<br>3.8<br>2.9<br>2.6<br>2.4 | 5,020<br>2,150<br>1,930<br>2,410<br>1,170<br>880 | 24<br>20<br>19<br>31<br>16<br>13                 | 9,490<br>6,710<br>3,730<br>4,930<br>2,140<br>1,710 | 45<br>61<br>36<br>64<br>30<br>25 |  |  |  |
| against objects Falling or flying objects Burns or shock Other or unknown                            | 146<br>102<br>81<br>153                | 2.4<br>1.7<br>1.3<br>2.5               | 740<br>860<br>630<br>1,440                       | 11<br>19<br>19<br>23                             | 1,220<br>1,840<br>1,690<br>2,560                   | - 19<br>41<br>50<br>40           |  |  |  |
| Total all types  | 1,927                                  | 31.3                                   | 17.230   | 20   | 36,020   | 43                               |  |  |  |
|  |  |  |  |  |  | · · · · · ·                      |  |  |  |

| Table 2. Percent of medical codents covered by insurance, | sts of acci-<br>regions.                        | Table 3. Accidental workers, 194 populatio          | 8. Rate                             | n people an<br>per 1,000 fo<br>e and sex. | d farn                       |
|---|---|---|-------------------------------------|---|------------------------------|
| Region  Northeast North Central South West                | covered by<br>insurance<br>33<br>24<br>16<br>37 | Age Under 14 14 to 24 25 to 44 45 to 64 65 and over | Males<br>23<br>56<br>64<br>55<br>47 | Females 11 12 14 21 20                    | Tota<br>17<br>35<br>39<br>39 |
| United States   | 26  | Total   | 47                                  | 14  | / 31                         |

Table 4. Accidents to farm people and farm workers, 1948. Rates per 1000 farm population by place and type, for regions.

| Place of accident  | Northeast  | North<br>Central   | South  | West   | U. S.   |
|--|--|--|--|--|---|
| Home Elsewhere on farm Road or street Elsewhere or unknown Total   | 4.I<br>16.0<br>2.8<br>6.6                                  | 5.0<br>23.3<br>4.2<br>5.1  | 5.1<br>13.4<br>3.3<br>4.8  | 5.5<br>23.4<br>4.0<br>7.4  | 5.0<br>17,4<br>3.6<br>5.3                                   |
| Type of Accident   | 29.5   | 37.6   | 26.6   | 40.3   | 31.3  |
| Falls of persons Machines Animals Motor vehicles Handling objects Hand tools Stepping on or striking against objects Falling or flying objects Burns or shock Other or unknown | 8.9<br>4.6<br>1.5<br>2.3<br>2.2<br>2.1<br>1.5<br>.6<br>2.9 | 9.4<br>6.8<br>4.3<br>4.0<br>3.0<br>1.3<br>2.7<br>2.1<br>1.5<br>2.5 | 6.5<br>2.2<br>3.3<br>2.2<br>2.3<br>2.8<br>2.3<br>1.2<br>1.3<br>2.5 | 8.8<br>4.7<br>7.3<br>3.8<br>3.3<br>4.0<br>1.7<br>3.1<br>1.5<br>2.1 | 7.7<br>4.0<br>3.8<br>2.9<br>2.4<br>2.4<br>1.7<br>1.3<br>2.5 |
| Total  | 29.5   | 37.6   | 26.6   | 40.3   | 31.3  |

Table 5. Accidents to farm people and farm workers, 1948. Sample number and percent by type and agent.

| <u> </u>  |                               | type ar                         | ia ageni.   | <u> </u>      |
|---|-------------------------------|---------------------------------|---|---------------|
| Type & Agent<br>(or other sub-group)                            | Sample<br>no. of<br>accidents | Percent<br>of total<br>for type | Type & Agent no. of (or other sub-group)  | of total      |
| Falls of Persons  |                               |                                 | Stepping on or striking objects   |               |
| Vehicles  | 91                            | 19                              | Stepping on nails 42  | 29            |
| Stairs or steps   | 39                            | 8                               | Stepping on other sharp   |               |
| Home furniture  | 18                            | 4                               | objects 21  | 15            |
| Ladders   | 18<br>16                      | 4 3                             | Stumbling, jumping or slip-   | 16            |
| Hay mows<br>Floor openings                                      | 14                            | 3                               | ping (other than falls) 24 Striking legs, knees or arms 24 Striking ingers or hands 14 Striking eyes, face, head 12 Other or unclassified 9 | 16            |
| Scaffolds   | 13                            | 3                               | Striking fingers or hands 14  | 10            |
| Trees   | 9                             | 2.                              | Striking eyes, face, head 12  | 8             |
| Others from different level<br>Total different level            | 1 45<br>263                   | 9                               | Other or unclassified 9   | . 6           |
| Ice or snow   | 38                            | 55<br>8                         | Total for type 146  | 100           |
| Others on same level  | 108                           | 23                              |   |               |
| Others on same level<br>Total on same level                     | 146                           | 31                              |   |               |
| Unclassified  | 67                            | 14                              | Falling or flying objects   |               |
| Total for type  | 476                           | 100                             | Trees or logs—cutting 22  |               |
|   |                               | 100                             | Logs or lumber—other handling 22  | 21<br>24      |
|   |                               |                                 | Tools, machines or equipment 24<br>Particles flying in eyes 24  | 24            |
| Machines  |                               | - 1                             | Accidental shootings 9  |               |
| Tractors  | 70                            | 28                              | Other or unclassified 1   | ĭ             |
| Combines & thresh, mach   | ines 22                       | 9<br>7                          | Total for type 102  | 100           |
| Power saws  | 15                            | 6                               |   |               |
| Haying equipment<br>Power saws<br>Plows, discs, and harro       | ows II                        | 4                               |   |               |
| . wagons .  | 10                            | 4                               | Burns or shock  |               |
| Corn pickers<br>Corn shellers                                   | 9                             | 4                               | Stoves, oil burners, heaters 16   |               |
| Wash. & other home mach   | ines 7                        | 2<br>3                          | Hot water 16  | 20            |
| Other or unclassified   | 82                            | 33                              | Ironing & other cooking 8<br>Gasoline 8   | 10<br>10      |
|   |                               |                                 | Welding 6   | 7             |
| Total for type  | 248                           | 100                             | Acids, caustics, poisons 7  | . 9           |
| 3   |                               |                                 | Other or unclassified 20  | 24            |
| Animals   |                               |                                 | Total for type 81   | 100           |
| Horses or mules   | 134                           | 58                              |   |               |
| Cows or steers  | 55                            | 24                              | 0411 150  | 100           |
| Bulls   | 15<br>12                      | ` 6<br>5                        | Other or unknown types 153  | 100           |
| Dogs<br>Other or unclassified                                   | 17                            | . 7                             | Total all types 1,927   | <b>—</b> ,    |
|   |                               |                                 | 1   | è             |
| Total for type  | 233                           | 100                             |   |               |
|   |                               |                                 |   | <del></del>   |
| Motor vehicles  | -                             |                                 |   |               |
| Auto and truck total  | 149                           | 84                              | Table 6. Farm work accidents, 194   |               |
| Padactrion  | 18                            | . 10                            | 1,000 working, by region, perso   | n injured     |
| Non-pedestrian  | 62                            | 35                              | and type.   | ate per 1,000 |
| Collisions Running off road or overturning                      | 37                            | 21                              | Region  | working       |
| overturning   | 17                            | 9                               | Northeast   | 48            |
| Passenger falls<br>Unclassified auto or tr                      | . 8                           | 5.                              | North Central   | 56            |
| Unclassified auto or tr   | uck 69                        | 39                              | South .   | 35            |
| Wordtorcycle  | 10 -                          | 5                               | West  | 54            |
| Vehicles not in motion  | 16                            | 9                               | United States   | 44            |
| Other or unclassified   | 4                             | 2                               |   |               |
| Total for type  | 179                           | 100                             | Person Injured  |               |
|   |                               |                                 | Farm operators  | 45            |
| Handling ob!  |                               |                                 | Members of family   | 51            |
| Handling objects  |                               |                                 | Hired workers   | 28            |
| Heavy objects<br>Sharp objects                                  | 84<br>26                      | . 53<br>16                      | Total   | 44            |
| Sharp objects Bulky objects Rough objects Other or unclassified | 12                            | 8                               |   |               |
| Rough objects   | 11                            | 7.                              |   | •             |
| Other or unclassified   | 26                            | 16                              | Type  |               |
| Total for type  | 159                           | 100                             | Falls of persons  | 9.3           |
|   |                               |                                 | Machines  | 8.1           |
| The second second second  | 1 11                          | <del></del> -                   | Animals<br>Hand tools   | 8.1<br>5.0    |
| Hand tools  | 3 1                           | •                               | Stepping on or striking   | 0.0           |
| Axes  | 70                            | 47                              | against objects   | 3.7           |
| Knives  | 32                            | 21.                             | Handling objects  | 3.6           |
| Pitch forks<br>Hammers  | 12<br>8                       | 8 .                             | Falling and flying objects Burns or shock   | 2.3           |
| Hand saws   | 7                             | 4                               | Motor vehicle   | 1.1<br>.8     |
| Other or unclassified   | 21                            | 14                              | Other or unknown  | 2.0           |
| Total for type  | 150                           | 100                             |   | 44.0          |
| Total for type  | 100                           | 100                             | All types   | 22.0          |

Table 7. Accidents to farm people and farm workers, 1948. Rates per 1,000 farm population by age and by sex, for types of accidents.

|  | ."                             | · A                                    | ge group                               | group                                   |   |  |                                 | - 1 is is is                           |  |
|--|--------------------------------|--|--|---|---|--|---------------------------------|--|--|
| Type of accident   | Under<br>14 yrs.               | 14 to 24                               | 25 to 44                               | 45 to 64                                | 65 yrs.<br>& over                       | Males                                  | Females                         | Total                                  |  |
| Falls of persons Machines Animals Motor vehicles Handling objects Hand tools   | 5.7<br>1.5<br>1.9<br>1.4<br>.5 | 5.0<br>4.9<br>3.9<br>4.7<br>2.8<br>3.1 | 7.2<br>5.8<br>5.2<br>2.9<br>4.0<br>3.7 | 11.8<br>5.2<br>4.1<br>3.9<br>4.1<br>2.1 | 13.3<br>3.3<br>5.6<br>2.0<br>1.9<br>2.3 | 9.9<br>6.9<br>5.9<br>4.0<br>4.3<br>4.2 | 5.4<br>.9<br>1.5<br>1.7<br>.7   | 7.7<br>4.0<br>3.8<br>2.9<br>2.6<br>2.4 |  |
| Stepping on or strik-<br>ing against objects<br>Falling or flying objects<br>Burns or shock<br>Other or unknown<br>Total | 2.0<br>.3<br>.9<br>1.6<br>17.0 | 2.5<br>2.5<br>2.2<br>3.6<br>35.2       | 3.0<br>2.2<br>1.6<br>3.2<br>38.8       | 2.2<br>2.0<br>1.1<br>2.4<br>38.9        | 2.2<br>2.0<br>.8<br>1.4<br>34.8         | 3.2<br>3.1<br>1.6<br>4.1<br>47.2       | 1.5<br>.1<br>-1.1<br>.8<br>14.3 | 2.4<br>1.7<br>1.3<br>2.5<br>31.3       |  |

Table 8. Accidents to farm people and farm workers, 1948. Type and place of accident by activity of injured person.

|                                 | Sample              | Pe                | rcent occur          | ring in              | each activit             | Y          |
|---------------------------------|---------------------|-------------------|----------------------|----------------------|--------------------------|------------|
| Type of accident                | number of accidents | Farm<br>work<br>% | House-<br>work,<br>% | Recre-<br>ction<br>% | Other or<br>unknown<br>% | Total<br>% |
| Falls of persons                | 476                 | 47                | 12                   | 21                   | 20                       | 100        |
| Machines                        | 248                 | 79                | 3                    | 3                    | 15                       | 100        |
| Animals                         | 233                 | 83                | . — ·                | 12                   | 5                        | 100        |
| Motor vehicles                  | 179                 | 11                |                      | 36                   | 53                       | 100        |
| Handling objects                | 159                 | 54                | 4                    | 8                    | 34                       | 100        |
| Hand tools                      | 150                 | 80                | 1                    | 5                    | 14                       | 100        |
| Stepping on or striking against |                     |                   |                      | 7                    | 77                       |            |
| objects                         | 146                 | 60                | 3                    | 18                   | 19                       | 100        |
| Falling or flying objects       | 102                 | 55                | i                    |                      | 35                       | 100        |
| Burns or shock                  | 81                  | 31                | 35                   | 17                   | 17                       | 100        |
| Other or unknown                | 153                 | 32                | 3                    | 31                   | 34                       | 100        |
| Total                           | 1,927               | 54                | 6                    | 17                   | 23                       | 100        |
| Place of accident <sup>1</sup>  |                     |                   |                      |                      | 11 1 2                   | Martin Co  |
| Home                            | 308                 | 25                | 33                   | 19                   | 23                       | 100        |
| Barn                            | 417                 | 89                |                      | 6                    | - 5                      | 100        |
| Elsewhere on farm               | 659                 | 82                |                      | ıĭ                   | 7                        | 100        |
| Total farm (outside home)       | 1.076               | 84                |                      | Ĝ                    | , <del>,</del> ,         | 100        |
| Road or street                  | 219                 | 15                |                      | 39                   | 46                       | 100        |
| Elsewhere or unknown            | 324                 | îĭ                |                      | 25                   | 64                       | 100        |
| Total                           |                     | 54                | 6                    | 17                   |                          |            |
| Total                           | 1,927               | 04                | ט .                  | . 17                 | 23                       | 100        |

<sup>&</sup>lt;sup>1</sup> The separation between barn and elsewhere on the farm is based on data for only the months January through September.

Table 9. Accidents to farm people and farm workers, 1948. Type of accident and activity of injured by quarters of the year.

|                                 | Sample                 | Percent               | occurring            | in each               | quarter of year | ar        |  |  |  |
|---------------------------------|------------------------|-----------------------|----------------------|-----------------------|-----------------|-----------|--|--|--|
| Type of accident                | number of<br>accidents | Jan. to<br>March<br>% | Apr. to<br>June<br>% | July to<br>Sept.<br>% |                 | otal<br>% |  |  |  |
| Falls of persons                | 476                    | 25                    | 23                   | 32                    | 20              | 100       |  |  |  |
| Machines                        | 248                    | 15                    | 28                   | 30                    | 27              | 100       |  |  |  |
| Animals                         | 233                    | 19                    | 29                   | 29                    |                 | 100       |  |  |  |
| Motor vehicles                  | 179                    | 27                    | 25                   | 25                    |                 | 100       |  |  |  |
| Handling objects                | 159                    | 16                    | 32                   | 34                    | 18              | 100       |  |  |  |
| Hand tools                      | 150                    | 19                    | 24                   | 31                    | 26              | 100       |  |  |  |
| Stepping on or striking against |                        |                       |                      |                       |                 | 200       |  |  |  |
| _ objects                       | 146                    | 16                    | 26                   | 47                    | 11.             | 100       |  |  |  |
| Falling or flying objects       | 102                    | 25                    | 31                   | . 33                  |                 | 100       |  |  |  |
| Burns or shock                  | 81                     | 28                    | 28                   | 25                    |                 | 100       |  |  |  |
| Other or unknown                | 153                    | 34                    | 17                   | 23                    | 26              | 100       |  |  |  |
| Total                           | 1,927                  | 22                    | 26                   | 31                    | 21              | 100       |  |  |  |
| Activity of injured             |                        |                       |                      | 1.                    |                 | 1.7       |  |  |  |
| Farm work                       | 1.054                  | 19                    | 26                   | 33                    | 22              | 100       |  |  |  |
| Housework                       | 110                    | 20                    | 26                   | 25                    |                 | 100       |  |  |  |
| Recreation                      | 318                    | 22                    | 30                   | 33                    |                 | 100       |  |  |  |
| Other or unknown                | 445                    | 31                    | 21                   | 26                    |                 | 100       |  |  |  |
| Total                           | 1,927                  | 22                    | 26                   | 31                    |                 | 100       |  |  |  |



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