

Volume III—Part 2—Chapter 2

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Chapter 2. Employment of Persons in Household of Farm Operators

Introduction--This chapter contains data regarding persons in the households of farm operators, their hours of work at farmwork, and at work off the farm. The data relate directly to the households of 3,075,000 of the farm operators included in the 1964 Census of Agriculture. The data presented exclude the households of operators of large-scale farms, abnormal farms, and operators of farms with an expenditure of \$10,000 or more for hired farm labor in 1964. The chapter also contains data on the number of hired farm workers and their hours of work for the 3,075,000 farms.

The data presented in this chapter indicate the extent of the employment of members of the household of the farm operator at farmwork and at jobs off the farm operated, and the employment of hired farm workers on the 3,075,000 farms. The data indicate the age distribution for members of the farm operator's household, the seasonal distribution for hours at farmwork and at jobs off the farm, and the extent of full-time employment of members of the households of the farm operators. Most of the data are presented by economic class of farm and type of farm.

Definition of a farm--The farms for this survey were selected from farms counted in the 1964 Census of Agriculture. See page 8 for the farm definition.

Persons in household of farm operator--The farm operator was asked to list for each reporting period the name of each person 10 years old and over living in his household. Persons in the household include not only members of the farm operator's family living in the household but also relatives, hired workers, and others.

Hours of work--The farm operator was asked to report for each weekly reporting period the hours worked at farmwork and at jobs off the farm. Farmwork was to include work in fields, milking, care and feeding of livestock and poultry, care and repair of equipment and buildings, keeping farm records, and planning and supervising farmwork.

Age of persons working--The data in all except a few tables relate to persons 14 years old and over. (There are a few tables relating to persons 10 to 13 years of age.)

Economic class of farm--The farms included in this survey were assigned to the economic class in which they were classified in the 1964 Census of Agriculture. See page 9 for a description of the economic classes of farms for the 1964 census.

Type of farm--The farms were assigned to the same type of farm group in which they were classified in the 1964 Census of Agriculture. The farms in each type of farm group include not only commercial farms, but also part-time and part-retirement farms. For a description of the types of farms, see page 10.

Description of sample--The sample used for the survey of farm workers was selected from 447 primary sampling units consisting of counties (or pairs of adjacent counties). Sampling units were assigned probabilities on the basis of the total value of farm products sold in 1959 for farms with a value of farm products sold of less than \$100,000.

The farms to be included in the survey of farm workers were selected systematically in pairs of farms from farms included in the 1964 Census of Agriculture in the primary sampling units; the selection rate within each primary sampling unit was inversely proportional to the probability of selection of the primary sampling unit.

The sample overall sampling rate was one in 418.5. Abnormal farms (farms operated by institutions, Indian reservations, etc.) were excluded from the sample. Also farms with a total value of farm products sold of \$100,000 or more and all farms with an expenditure of \$10,000 or more for hired farm labor were excluded from the sample, as these two groups of farms were to be included in the survey of hired farm workers.

Because it was desired to publish estimates by type of farm, farms with 5 or more acres of land in fruit orchards, or with 200 fruit trees, or with 2 or more acres of berries were sampled at the rate of one out of 139.5; and farms with 10 or more acres of vegetables, or \$1,000 or more from the sale of vegetables, or horticultural specialty products were sampled at the rate of one out 104.6. Higher sampling rates were required for these types of farms because the overall sampling rate of 1 in 418.5 would not have provided a large enough sample.

Tables 1 and 2 provide estimates for 1964 for the farms included in the survey for the number of farms, land in farms, and cropland harvested, by economic class of farm, type of farm, size of farm, and tenure of farm operator.

Collection of data--The questionnaire used for the survey asked for persons working and hours worked for a period of one week. (See page 184 for a copy of the questionnaire.) The sample was divided into five panels and the farm operators in each panel were asked to fill a questionnaire once during each 4 or 5-week period. The sample was divided into five panels in order to obtain data for every week during a 1-year period. Questionnaires were mailed to farm operators in each panel once every 4 weeks. Exception: Questionnaires were mailed to two panels for 12 selected weeks-- March 21-27, April 18-24, May 23-29, June 20-26, July 18-24, August 22-28, September 19-25, October 24-30, November 21-27, December 19-25, January 23-29, and February 20-26. The date of mailing was such that the questionnaire would be received by the farm operator on the Saturday that ended the weekly reporting period. Farm operators were asked to fill out and mail the questionnaire on the Monday following the end of the reporting period. Farm operators from whom filled questionnaires had not been received by the end of Wednesday following the weekly reporting period were telephoned on Thursday, Friday, and Saturday and the information for filling the questionnaire was obtained by telephone by a trained interviewer. Between 76 and 80 percent of the questionnaires were obtained by mail and the remaining 20 to 24 percent were obtained by telephone, or in a small number of cases by a personal visit by an interviewer.

The first week covered by the survey was the week ending March 27, 1965, and the last, March 19, 1966. Thirteen weekly reports were obtained from 79.9 percent of the farm operators and 12 weekly reports were obtained from 20.1 percent of the farm operators.

Reports for all required weeks were obtained for all farms. For a few farms (less than 30) the information for the questionnaire for one or more weeks was estimated on the basis of the questionnaires for other weeks for the same farm.

Office processing-- Selected data (acres in farm, acres of cropland harvested, etc.) for each farm included in the survey were available from the 1964 Census of Agriculture and these data were used in checking the data reported on each questionnaire. Approximately one-half of the farms were also included in the 1965 Sample Survey of Agriculture. At the end of the last survey period, the questionnaires for the 12 or 13 reporting periods for each farm were reviewed for consistency. When available the questionnaire for the 1965 Sample Survey of Agriculture was used for detecting problems or inconsistencies. Punch cards were prepared for the reports for each farm and the punching of these cards was verified 100 percent and all errors found were corrected. The punch cards were checked by a computer to determine that all cards for the 12 or 13 reporting periods were in the file, that all codes and other information required for each farm were present and consistent. All reports for 100 or more hours of work for a week for any persons 14 years old and over were checked and all reports of 40 or more hours of work for a week for persons 10 to 13 years of age were checked. All errors found as a result of the check by computers were corrected and the corrections verified.

The tabulations were reviewed by an agricultural statistician for reasonableness, consistency, etc. All tabulation procedures were tested before they were used.

Method of estimation-- Estimates were prepared by assigning weights to each farm for each week. Weights were assigned separately to the farms in each region and within each region to farms in economic class I and to all farms not in economic class I. The weights for all farms except those selected on the basis of the special criteria for fruit or vegetable acreage or sales were determined by taking the ratio of the number of farms included in the sample to the number of farms in the corresponding category for the 1964 Census of Agriculture.

The weights assigned to farms in economic class I varied from 311 to 472, and from 412 to 466 for farms in other economic classes. Farms sampled on the basis of acres of fruit, etc., were assigned a weight of 139.5 and those sampled on the basis of acres of vegetables, etc., were assigned a weight of 104.6.

Adjustments in weights were made when making estimates for the weeks for which reports were obtained from two panels. Estimates of hours worked for 52 weeks were made by multiplying the totals for 13 weekly reporting periods by 4. (Changes in weights were made to adjust totals for farms from which reports were obtained for only 12 weeks so that the totals for these farms would represent totals for 52 weeks.)

Sampling errors-- Estimated totals for data for all items are subject to sampling errors. Approximate measures of sampling errors for selected items may be obtained from tables 75 and 76.

Tables 75 and 76 show percentage limits such that the chances are 2 out of 3 that the difference between an estimate based wholly or in part on a sample of farms and the figure that would have been obtained if the information had been collected for all farms would be no more than the percentage specified. The chances are about 99 out of 100 that the difference would be less than 2 1/2 times the percentage given in tables 75 and 76.

Sampling errors were calculated by a random group method. In each region, each farm was assigned at random to one of 10 groups. The sampling errors shown in tables 75 and 76 are relative errors, obtained by taking the square root of the relative variance. The sampling errors in tables 75 and 76 may be overstated because no adjustments were made to take into account (1) the fact that major parts of the sample were selected within a sample of counties and the random group method of calculation would overstate the between county part of the variance and (2) that the estimates are ratio estimates as weights were assigned to individual farms so as to make the number of farms for selected groups equal to the number of farms in 1964 for the corresponding groups. For characteristics related to number of farms, the variances might be reduced by the ratio estimate; for other characteristics (aggregates such as cropland harvested, etc.), the ratio adjustment would have little effect on the variance.

Persons in household of farm operator-- The count of persons in the household of the farm operator includes only persons 10 years old and over. The average number of persons per household and the distribution of households by number of persons vary by economic class of farm and by type of farm. The average number of persons per household is lowest for part-retirement farms and livestock ranches and highest for farms in economic classes I and II and other field-crop farms. Almost three-fourths of the households of the part-retirement farms consist of one or two persons. More than three out of five other field-crop farms had four or more persons in the household, while less than one out of three livestock ranches had four or more persons in the household.

Total hours of work by members of households of farm operators-- There are significant variations in the number of hours worked during the 52 weeks by members of the households of farm operators. Of the 3,075,000 farm operators, 104,000 reported 0 hours of work for farm and off-farm work during all of the 13 weeks for which information regarding hours worked was obtained; an additional 84,000 reported 0 hours of farmwork; and 340,000 reported less than 800 hours of farmwork. Of the 7.1 billion hours worked by farm operators, 5.8 billion hours were worked by farm operators who worked 2,000 or more hours during the year.

A large proportion of the hours of work off farm was reported by persons working 2,000 hours or more during the year. Over 80 percent of the hours of work off the farm by the head of the household, one-third of the hours of work off the farm by wives of farm operators, and almost two-thirds of the hours of work off the farm by persons related to the farm operator (excluding wives) were reported by persons working 2,000 or more hours at all types of work during the year.

More than four-fifths of the hours of work off the farm by farm operators were reported by the 912,000 farm operators who spent more hours at work off the farm than at farmwork. These 912,000 farm operators reported an average of less than 11 hours per week at farmwork during the 52 weeks.

More than 2,171,000 wives of farm operators reported hours worked on and/or off the farm. Of the 1.8 billion hours worked by these wives, approximately three-fifths were spent at farmwork and two-fifths at work off the farm. About 95 percent of the hours of work off the farm were reported by the 627,000 wives of farm operators for whom the hours of work off the farm represented more than half of the total hours they worked. Hours of farmwork were reported by 56 percent of these 627,000 wives and the hours of farmwork for the wives reporting any hours of farmwork averaged 4 hours per week.

Approximately 85 percent of the hours of work at farmwork by wives was reported by the 1,407,000 wives for whom the ratio of hours of farmwork to total hours worked was 90 percent or more. Only 4 percent of these 1,407,000 wives performed any work off the farm and the hours of off-farm work by these 3 percent averaged 1 hour per week.

Related persons, other than wives, in the household of the farm operator reported one-fifth of the total hours of work, 18 percent of the hours of farmwork, and 24 percent of the hours worked off the farm reported by farm operators and related members of their households. Almost three-fifths of the 2.2 billion hours worked by related members of the farm operator's household, excluding hours worked by wives, were worked at farmwork. Over three-fifths of the hours of farmwork were reported by the approximately 683,000 related members for whom the ratio of hours of farmwork to total hours of work was 90 or over. Only one out of seven of these 683,000 reported any work off the farm and the hours of work off the farm by those reporting work off the farm averaged only 2 hours per week.

Members of household by ratio of hours of farmwork to total hours worked--The head of the household, his wife, and other members of the household related to the farm operator worked 11,101 million hours during the 52-week period. Of this total 7,441 million hours or 67 percent was spent at farmwork. Of the 7,441 million hours of farmwork, 5,074 million hours or 68 percent was performed by the head (or farm operator), 1,061 million by wives, and 1,306 million by other members of the farm operator's household related to him. Hours worked off the farm by the head, wife, and other members of the farm operator's household related to him totaled 3,660 million. Of this total, 55 percent were reported by the head or farm operator, 21 percent by the wife, and 24 percent by other members of the household of the farm operator related to him.

More than one-sixth of the 3,660 million hours of work off the farm was performed by the head and related members of the farm operator's household, who did not perform any farmwork. More than 60 percent of the work off the farm was reported by the head and related members of the farm operator's household for whom the off-farm work comprised 75 percent or more of the total hours worked and 86 percent of the work off farm was reported by farm operators and related members of their households, who reported that less than half of their total hours of work was on the farm operated.

More than four-fifths of the hours worked at farmwork were performed by farm operators and related members of their households for whom the reported hours of farmwork represented 75 percent of the total hours of work on and off the farm. Almost three-fourths of all hours of farmwork by farm operators and related members of their households for whom the ratio of hours of farmwork to total hours of work was 90 or over.

On the other hand, over four-fifths of the hours of work off the farm were reported by the approximately 510,000 related members (excluding wives) of the households of the farm operators for whom the ratio of hours at farmwork to the total hours worked was less than one-half. Slightly more than two-thirds of these 510,000 persons reported any hours of farmwork and the hours of farmwork for those reporting farmwork averaged less than 9 hours per person per week.

Persons working and hours worked by economic class of farm--Both the proportion of persons 14 years old and over working, and the average hours worked per week varied significantly by economic class of farm. For example, more than 68 percent of the persons 14 years old and over and members of the households of farm operators of farms in economic classes I and II worked

during the year and the average hours worked per week for the persons working was 42.6 hours. On the other hand, 45 percent of the persons 14 years old and over, and members of the household of the farm operator on part-retirement farms worked during the year and the average hours worked per week for the persons working was 21.8 hours per week. The average hours worked off the farm per week for the persons working off the farm varied from 34 to 39 hours. The average hours worked off the farm for part-time farms was 39 or about 9 percent higher than for other economic classes of farms.

The average hours worked on the farm per week varied from 16 hours for part-time farms to 43 hours for persons on farms in economic classes I and II.

Economic class	Percentage of persons 14 years old and over working	Average hours worked per week for persons doing farmwork
Classes I and II.....	68.3	42.6
Class III.....	72.2	40.0
Class IV.....	72.2	36.8
Class V.....	66.2	29.8
Class VI.....	59.5	26.2
Part-time farms.....	63.8	15.6
Part-retirement farms.....	45.0	21.8

Persons working and hours worked by age and sex-- The percentage of persons working varied greatly by age and sex. About half the persons 14 and 15 years of age, persons 65 years old and over, and female persons worked at farmwork or at work off the farm. The average number of hours worked per week for persons 14 and 15 years of age and for females was less than 26.

Age or sex	Percent of persons 14 years old and over			Average hours worked per week		
	Working	Working at farmwork	Working off farm	Total	At farmwork	Off the farm
14 and 15 years..	54.7	52.7	5.0	18.7	17.7	18.0
16 and 17 years..	57.5	49.7	13.9	24.0	20.9	24.4
18 to 24 years...	66.9	42.1	36.9	39.1	29.1	37.7
25 to 34 years...	71.6	57.1	29.9	42.8	33.4	38.6
35 to 44 years...	74.8	59.4	32.7	44.6	35.0	38.4
45 to 54 years...	74.1	61.5	27.7	44.3	36.3	38.0
55 to 64 years...	65.6	57.1	19.6	41.2	34.9	36.3
65 years and over	41.2	39.3	4.1	29.9	28.0	31.5
Male.....	82.2	71.4	29.5	46.2	37.5	38.1
Female.....	46.7	34.8	15.5	25.6	19.2	34.1

Persons working and hours worked by type of farm--The proportion of persons 14 years old and over working, and the average hours worked per week varied by type of farm. The proportion of persons working at farmwork was higher for livestock-type farms and the average hours of work per week was highest for the livestock-type farms.

Type of farm	Percent of persons 14 years old and over		Average hours per week worked at farmwork per person working
	Working	Working at farmwork	
Cash-grain farms.....	62.5	50.7	33.4
Tobacco farms.....	64.2	52.0	27.2
Cotton farms.....	54.5	42.7	29.1
Other field-crop farms.....	59.8	49.6	35.2
Vegetable farms.....	58.3	43.8	29.8
Fruit and nut farms.....	57.3	41.1	26.2
Poultry farms.....	71.6	59.8	30.1
Dairy farms.....	78.7	72.1	42.0
Livestock farms other than poultry, dairy, and livestock ranches.....	65.4	54.0	28.8
Livestock ranches.....	68.7	56.8	28.6
General farms.....	66.6	55.8	30.7
Miscellaneous farms.....	55.9	38.8	19.9

Persons working and hours worked at farmwork by age--The distribution by age of the average number of

members of the household of the farm operator working at farmwork per week was as follows:

Age of worker	Average number of persons 10 years old and over in households per week (1,000)	Average number of persons working per week at farmwork		
		Total (1,000)	Percent distribution	Percent of persons 10 years old and over in household
Total.....	9,560	5,090	100.0	53.2
10 to 13 years.....	1,154	545	10.7	47.2
14 to 15 years.....	638	336	6.6	52.7
16 to 17 years.....	590	293	5.8	49.7
18 to 24 years.....	762	321	6.3	42.1
25 to 34 years.....	890	508	10.0	57.1
35 to 44 years.....	1,498	890	17.5	59.4
45 to 54 years.....	1,697	1,044	20.5	61.5
55 to 64 years.....	1,333	761	15.0	57.1
65 years old and over.....	998	392	7.7	39.3

The distribution of hours worked at farmwork and the average hours worked at farmwork per week by age of workers were as follows:

Age of worker	Hours worked at farmwork		
	Total (1,000)	Percent distribution	Average hours worked per week
Total.....	7,921,183	100.0	29.9
10 to 13 years.....	385,214	4.9	13.6
14 to 15 years.....	308,648	3.9	17.7
16 to 17 years.....	318,590	4.0	20.9
18 to 24 years.....	486,399	6.1	29.1
25 to 34 years.....	883,480	11.1	33.4
35 to 44 years.....	1,618,499	20.4	35.0
45 to 54 years.....	1,968,283	24.8	36.3
55 to 64 years.....	1,380,386	17.4	34.9
65 years old and over.....	571,684	7.2	28.0

Farms by kind of farm labor--The classification of farms by kind of labor given in table 7 excludes the 31,000 farms (large-scale farms) with value of farm products of \$100,000 and over and the 24,000 other farms with an expenditure of \$10,000 or more in 1964 for hired farm labor. The farms excluded represent farms on which hired farm workers provided most of the hours of farmwork.

There were 0 hours of farmwork reported for any member of the household of the farm operator for approximately 100,000 farms. While these places are included in the count of farms, they do not contribute to the number of persons working on farms or to the total hours of farmwork. They do, however, contribute about 3 percent to the totals for persons in the households of farm operators and a smaller percent to the totals for persons working off the farm for pay and for the totals for hours of work off the farm.

Of the 2,969,000 farms with any farm labor reported, 1,530,000 had hours worked by hired farm workers. The hired farm workers were members of the farm operator's household on 93,000 farms and were hired workers not members of the farm operator's household on 1,397,000 farms. The hours of farmwork provided by all hired workers totaled 1,729 million and were equivalent to 19 percent of the total hours of farmwork on the 2,969,000 farms having any farm labor.

Hours of work at farmwork and/or at work off the farm were reported for households of 2,971,000 farm operators. Of these 2,971,000 farm operators, 2,887,000 reported work on the farm, 5,074 million hours worked at farmwork, and 1,998 million hours at work off the farm. Of the 2,971,000 farm operators, 1,595,000 or 54 percent reported work off the farm.

Hours worked were reported for the wife for 2,171,000 farm operators. The hours worked by wives totaled 1,840 million and were equivalent to 16 percent of the

hours worked by all members of the farm-operator households. Wives worked 1,061 million of the 7,533 million hours worked at farmwork reported for all members of the farm-operator households. Hours of work off the farm were reported for wives of 814,000 farm operators and hours worked off the farm by wives were equivalent to 21 percent of the hours worked off the farm by all members of the farm-operator households.

There were 3,013,000 farms with hours worked reported by the farm operator and members of the household related to him. On 383,000 of these farms, a related member of the household of the farm operator reported farmwork for pay on the farm operated. The hours of farmwork for pay totaled 226 million and were equal to 2 percent of the hours of farmwork performed by farm operators and members of their households. Work off the farm by related members in the household of the farm operator was reported for 2,079,000 of the 3,075,000 farm operators. The hours of off-farm work totaled 3.7 billion and were equivalent to 33 percent of the total hours worked off the farm by all members of the households of farm operators.

Hours worked by persons 10 to 13 years old-- Almost half of the persons 10 to 13 years old in the households of farm operators performed some farmwork during the 52-week period. An average per week of approximately 545,000 persons 10 to 13 years of age worked one or more hours at farmwork during the year. The hours worked at farmwork by these persons totaled 385 million and this total was equal to 5.1 percent of the total hours of farmwork performed by all persons 14 years old and over in the households of farm operators. The number of persons 10 to 13 years of age working at farmwork was lowest during the winter and highest during June and July. Hours worked at farmwork during each week in July were almost 3 times the number of hours worked at farmwork during each week in February. More persons 10 to 13 years old worked on dairy farms than on any other type of farm. Persons 10 to 13 working on dairy farms comprised 22.8 percent of the persons 10 to 13 working at farmwork on all types of farms and the hours worked at farmwork by this group of persons on dairy farms represented 27.1 percent of the hours worked at farmwork by all persons 10 to 13 years old.

Persons and hours of work for farms not included in tables--The data in this chapter do not include persons and hours of work for the following group of farms:

1. Farms with a value of farm products sold of \$100,000 or more (large-scale farms). There were 31,401 of these farms in 1964. Information on number of farm operators and their hours of farmwork and number of other persons in the household of the farm operator and their hours of farmwork were collected and tabulated for a sample of these farms except for the 1,800 farms having an expenditure for hired farm labor of \$100,000 or more in 1964. The estimate for persons working and hours of farmwork during the 52-week period from March 20, 1965 to March 19, 1966 are as follows:

Subject	Farms with expenditure for hired farm labor of less than \$100,000 in 1964		Farms with expenditure for hired farm labor of \$100,000 or more in 1964	
	Average number of persons working per week	Hours of farmwork (1,000)	Estimated average number of persons working per week	Estimated hours of farmwork (1,000)
Total.....	54,100	127,972	3,600	8,330
Farm operators.....	29,600	84,656	1,800	5,148
Members of household of farm operator.....	24,500	43,316	1,800	3,182

The data for the farms with an expenditure for hired farm labor of \$100,000 or more have been estimated on the basis of the reports for large-scale farms with an expenditure of less than \$100,000 for hired farm labor.

- Farms other than large-scale farms with an expenditure for hired farm labor of \$10,000 or more in 1964. These farms totaled 24,300. On the basis of the averages for large-scale farms with the same level of expenditure for hired farm labor, the estimated average weekly number of persons working on these farms and the total hours of farmwork for these persons for the 52-week period from March 20, 1965 to March 19, 1966 are as follows:

Subject	Estimated average weekly number of persons doing farmwork	Estimated total hours of farmwork performed (1,000)
Total.....	44,420	105,100
Farm operators.....	24,300	69,500
Members of household of farm operator....	20,120	35,600

- Abnormal farms. In 1964 the total number of abnormal farms was 2,200. The number of persons working and the hours of farmwork performed by the farm operators on these abnormal farms during the 52 weeks, March 20, 1965 to March 19, 1966 are estimated as follows:

Subject	Average weekly number of persons doing farmwork	Total hours of farmwork performed (1,000)
Total.....	4,022	9,513
Farm operators.....	2,200	6,292
Members of household of farm operator....	1,822	3,221

The totals given do not include approximately 650 million hours worked at farmwork for the three groups listed above. The total hours worked by all persons, hours worked by persons not paid wages and the total hours worked by hired workers given in tables 1 to 72 represent an understatement of approximately 5 percent for each of these groups.

The estimates for the three groups listed above total:

Subject	Average weekly number of persons doing farmwork	Total hours of farmwork performed (1,000)
Total.....	106,142	250,915
Farm operators.....	57,900	165,596
Members of household of farm operator....	48,242	85,319

The farm operators working and other members of the farm operator's household working, not included in the totals for tables 1 to 72 were equivalent to approximately 3 percent of the persons included in the tables. The total hours of farmwork by farm operators and members of farms operator's household not included in totals in tables 1 to 72 were equivalent to approximately 3 percent of the totals for this item in these tables.