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AUTHOR Oliveira, Victor J.; Cox, E. Jane

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ABSTRACT

This report examines the demographic and employment characteristics, geographic distribution, and earnings of the agricultural work force in the United States as of 1985. Data are from the Agricultural Work Force Supplement to the December 1985 Current Population Survey. The three components of the agricultural work force--hired farmworkers, farm operators, and unpaid farmworkers--are examined separately. A comparison of the findings from each of the three work force components follows the analytical results. Additional statistical tables, information on the source and reliability of the survey estimates, and the definitions of key terms used in this report are in the appendixes. Some of the findings of the survey are as follows: (1) more than 8 million people 14 years of age and older were employed on U.S. farms at some time during 1985, including 2.5 million who did hired farmwork, 2.9 million who operated a farm, and 3.8 million who did unpaid farmwork; (2) more than 1 million workers participated in more than one of these activities; (3) the agricultural work force was predominantly male; (4) nonfarm work was an important sources of earnings for all three agricultural work force groups. (Author/KC)



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Abstract

Over 8 million people 14 years of age and older were employed on U.S. farms at some time during 1985, including 2.5 million who did hired farmwork, 2.9 million who operated a farm, and 3.8 million who did unpaid farmwork. Over 1 million workers participated in more than one of these activities. The agricultural work force was predominantly male. Nonfarmwork was an important source of earnings for all three agricultural work force groups. This report presents findings of the 1985 Agricultural Work Force Survey.

Keywords: Agricultural work force, hired farmworker, farm operator, unpaid farmworker, racial/ethnic group, migrant farmworker, nonfarmwork

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The authors thank Leslie Whitener and Susan Pollack for sharing their experiences from studies of the hired farm working force, Steven Logan of the Bureau of the Cencus, U.S. Department of Commerce, for helping to prepare data, and Wanda Petty and Snaron Davis for typing this report.



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Summary

Over 8 million people 14 years of age and older were employed on U.S. farms at some time during 1985, according to the Agricultural Work Force Survey of 1985, including 2.5 million persons who did hired farmwork, almost 2.9 million persons who operated a farm, and about 3.8 million persons who did unpaid farmwork. Unpaid workers are persons, other than farm operators, who do farmwork without receiving cash wages or salary, or receive only a "token" cash allowance, or do farmwork for room and board or payment-in-kind. Over 1 million workers performed more than one of these three functions.

Almost 24 percent of hired farmworkers were Hispanic or black and other, compared with less than 5 percent of either the farm operators or unpaid farmworkers.

Whether workers considered agriculture their primary employment differed among the three groups. Only about 6 percent of the unpaid farmworkers cited unpaid farmwork as their primary employment during 1985, while 29 percent of the hired farmworkers cited hired farmwork and 42 percent of the farm operators cited operating a farm as their primary employment.

A large percentage of all agricultural labor force workers did nonfarmwork. Over 45 percent of both the hired farmworkers and farm operators and 69 percent of the unpaid farmworkers did nonfarmwork in 1985. Farm operators who had nonfarm jobs averaged \$10,722 in 1985 in nonfarm earnings, unpaid farmworkers averaged \$10,052 from nonfarm jobs, and hired farmworkers averaged only \$5,569 from nonfarm jobs. Hired farmworkers earned about \$40 a day from nonfarm jobs, while farm operators and unpaid farmworkers earned about \$50 per day from nonfarm jobs

Hired farmworkers had the lowest levels of education. Half of the hired farmworkers had not completed high school, while over three-quarters of the farm operators and unpaid farmworkers were high school graduates.

Hired Farmworkers

The number of hired farmworkers has not changed much since 1969. Most of the hired farmworkers in 1985 were white, young, male, and had little education, but characteristics varied across racial/ethnic groups and regions. Migrant farmworkers made up 6 percent of the total hired farm work force.

Hired farmworkers averaged 107 days of hired farmwork. Less than one-third of all hired farmworkers were regular or year-round workers working 150 or more days, but they accounted for over three-quarters of the total worker-days of hired farmwork. Hired farmworkers earned an average of \$3,247 from hired farmwork and \$2,579 from nonfarmwork. Almost 40 percent of all hired farmworkers, the majority of whom were students, were not in the labor force most of the year.

Farm Operators

The 2.9 million persons who operated a farm in: 1985 lived in about 2.3 million households. Farm operators were predominantly white, male, and older than hired farmworkers and unpaid farmworkers. Most of the female farm operators were married to other farm operators.



Farm operators averaged 236 days operating a farm in 1985. Almost one-half of all farm operators cited either grain or beef cattle as the product contributing most to the gross value of sales on the farm they operated.

Unpaid Farmworkers

Most unpaid farmworkers were white and male. Unpaid farmworkers averaged 56 days of unpaid farmwork in 1985. Over half worked fewer than 15 days at unpaid farmwork. While only 36 percent of all unpaid farmworkers lived in a household with a farm operator present, they accounted for 64 percent of the total days worked by unpaid farmworkers. Fifty-one percent of unpaid farmworkers reported nonfarm work as their primar employment status during the year.



The Agricultural Work Force of 1985

A Statistical Profile

Victor J. Oliveira and E. Jane Cox*

Introduction

Over 8 million people 14 years of age and older were employed on U.S. farms at some time during 1985. That number includes 2.5 million persons who did hired farmwork, almost 2.9 million persons who operated a farm, and about 3.8 million persons who did unpaid farmwork (table 1). Over 1 million workers, or 13 percent of the agricultural work force, participated in more than one of these three agricultural activities.

Data in this report are from the Agricultural Work Force Supplement to the December 1985 Current Population Survey (CPS). This supplement was conducted for the Economic Research Service by the Bureau of the Census, U.S. Department of Commerce. Prior to 1985, data were collected for hired farmworkers, but not for farm operators and unpaid farmworkers, by the Hired Farm Working Force Survey. The Hired Farm Working Force Survey was expanded in 1985 to include farm operators and unpaid farmworkers² as well as hired farmworkers and was renamed the Agricultural Work Force Survey. Thus, this report estimates the total number of persons employed on U.S. farms at some time during 1985.

Information on agricultural labor is necessary for evaluating the performance of U.S. agriculture, monitoring changing farm labor patterns, and determining the economic well-being of farmworkers (2, 7). In addition to number of workers, this report presents data on the demographic, economic, and regional characteristics of the agricultural work force.

The survey sample included how cholds in all 50 States and the District of Columbia, but excluded Puerto Rico and other U.S. territories and possessions. In December 1985, approximately 57,000 households were interviewed, about 4,000 of which contained persons in the

agricultural work force. Information obtained from this sample of households was expanded to provide estimate of the total agricultural work force.

This report examines the demographic and employment characteristics, geographic distribution, and earnings of the agricultural work force. The three components of the agricultural work force—hired farmworkers, farm operators, and unpaid farmworkers—are examined separately. A comparison of the findings from each of the three work force components follows the analytical results. Additional statistical tables, information on the source and reliability of the survey estimates, and the definitions of key terms used in this report are in the appendices.

Hired Farmworkers

About 2.5 million people earned cash wages or salary from farmwork in 1985. The number of hired farmworkers has not changed much since 1969. Most of the hired farmworkers were white, young, male, and had

Table 1—The agricultural work force of 1985'

Characteristic	Number
	Thousands
Agricultural work force	8,0612
Total hired farmworkers	2,522
Did hired farmwork only	1,933
Operated a farm	148
Did unpaid farmwork	364
Operated a farm and did unpaid farmwork	77
Total farm operators	2,889
Operated farm only	2,203
Did hired farmwork	148
Did unpaid farmwork	461
Did hired and unpaid farmwork	77
Total unpaid farmworkers	3,777
Did unpaid farmwork only	2,875
Did hired farmwork	364
Operated a farm	461
Did hired farmwork and	1
operated a farm	77

^{&#}x27; Data are rounded to nearest thousand.

³ Italicized numbers in parentheses refer to items in the References section.



[•] The CPS is a probability sample survey, and standard errors can be derived from the estimates. Comparisons in the text are based on data significant at the 95-percent confidence level or higher.

³ Total number of individuals in the agricultural work force adjusted for double counting between worker categories.

The authors are economists with the Agriculture and Rural Economy Division.

^{&#}x27;The Hired Farm Working Force Survey was conducted annually from 1945 to 1977, and biennially since.

² Unpaid farmworkers are persons, other than farm operators, who do farmwork without receiving cash wages or salary, or receive only a "token" cash allowance, or do farmwork for room and board or payment-in-kind.

low levels of education. Hispanics made up 13 percent of the hired farm work force, and blacks and others accounted for 11 percent. As a group, hired tarmworkers averaged 107 days of hireu farmwork and earned an average of \$3,247 from hired farmwork. Only 29 percent of all hired farmworkers reported their primary employment status during the year as hired farmwork. Migrant farmworkers accounted for 6 percent of all hired farmworkers. This section outlines the demographic, geographic, and employment and earnings characteristics of hired farmworkers.

Hired farmworkers are persons 14 years of age and older who did farmwork for cash wages or salary at any time during the year. Of the 2.5 million persons who did hired farmwork, 589,000 also operated a farm or did unpaid farmwork (table 1). The number of hired farmworkers fell from 4.3 million in 1950 to under 2.5 million in 1970 (table 2). This decline was largely due to farm mechanization, other laborsaving technological innovations, and farm enlargement (3). As increases in mechanization and technological innovations in the farm sector have leveled off, the number of hired farmworkers has remained relatively stable at about 2.5 to 2.8 million.

While the hired farm work force data in table 2 probably reflect the true trend in the hired work force, they are not complete estimates of the total number of hired farmworkers (1). Foreign as well as domestic workers do hired farmwork in the United States. The Agricultural Work Force Survey provides good coverage of domestic farmworkers, but it probably enumerates few illegal aliens, either because they have returned home before the survey is conducted in the month of December, or because they avoid enumerators due to their illegal status. Good estimates of the number of illegal aliens employed in agriculture in 1985 do not exist. Also, foreign nationals who legally did hired farmwork in this country in 1985 under the H-2 temporary foreign agricultural worker program and returned home before the survey was conducted were not included in the count of hired farmworkers.5 In 1985, about 21,000 U.S. farm jobs were certified for foreign workers by the U.S. Department of Labor under the H-2 program.

Demographic Characteristics

The 1985 hired farm work force as a whole was predominantly young, white, male, and had low levels of education. However, this work force is not a homogeneous group as worker characteristics varied across racial/ethnic groups.

Racial/Ethnic Group, Sex, and Age. Of the 2.5 million hired farmworkers, 76 percent were white, 13 percent were Hispanic, and 11 percent belonged to black or other racial/ethnic groups (table 3). Seventy-nine percent of the hired farm work force were male. Over half of all hired farmworkers were under 25 years of age, and three-quarters were under 35 years of age. The median age for all hired farmworkers was 24 years. The large proportion of youths among hired farmworkers reflects that much of hired farmwork, unlike some occupations, is low skill and requires little work experience.

The distribution of hired farmworkers by age differed significantly by racial/ethnic group (table 4). Twenty-five percent of all white farmworkers were under 18 years of age, compared with only 12 percent of the blacks and others and 10 procent of the Hispanics. The median age

Table 2-Number of hired farmworkers'

Year	Hired farmworkers
	Thousands
1950	4,342
1951	3,274
1952	2,980
1953	1 2,500
1954	3,009
1955	_
1956	3,575
1957	3,373
1958	3,962
1959	4,212 3,577
1959	3,577
1960	3,693
1961	3,488
1962	3,622
1963	3,59 <i>7</i>
1964	3,370
1965	3,128
1966	2,763
1967	3,078
1968	2,919
1969	2,717
.505	2,571
1970	2,488
1971	2,530
1972	2,809
1973	2,671
1974	2,737
	2,/3/
1975	2,638
1976	~,767
1977 i	2,730
1978	
1979	2,652
1980	
1981	2,492
1982	_
1983	2,595
1984	· ~
1985	2,522
No supply conducted	

^{— =} No survey conducted.



^{&#}x27;The H-2 program allows U.S. employers to hire foreign agricultural workers temporarily when qualified U.S. workers are not available at the time and place needed and the employment of foreign workers will not adversely affect the wages and working conditions of U.S. workers as determined by the U.S. Department of Labor

Data are rounded to nearest thousand.

of white hired farmworkers was 23 years compared with 28 years for Hispanics and 29 years for blacks and others. The dramatic decrease in the proportion of white workers after age 34 suggests that whites are more likely to use farmwork as an entry level job into the labor force, or as a supplemental job (3). On the other hand, the large proportion of minority farmworkers in the prime working ages (25-54) suggests that farmwork is not an entry level or a supplementary job for many of these workers, but a career.

Education. Hired farmworkers had low levels of education as measured by years of schooling completed. Half of all hired farmworkers had not completed high school,

Table 3-Demographic characteristics of hired farmworkers,

Characteristic	Hired farn	nworkers
,	Thousands	Percent
All hired farmworkers	2,522	100.0
Racial/ethnic group:' White Hispanic Black and other	1,922 326 274	76.2 12.9 10.9
Sex: Male Female	1,980 542	78.5 21.5
Age (years): 14-17 18-24 25-34 35-44 45-54 55-64 65 and older	552 739 601 260 185 110 75	21.9 29.3 28.8 10.3 7.3 4.4 3.0
Median age	Yea 24	

¹ The population is divided into the three mutually exclusive groups specified. See appendix III for further explanation.

Table 4-Age distribution of hired farmworkers by racial/ethnic group, 1985

Age	White	Hispanic	Black and other	
		Thousands		
All hired farmworkers	1,922	326	274	
Age (years):		Percent		
14–1 <i>7</i>	25.4	9.5	11.8	
18-24	29.7	30.4	25.7	
25-34	22.7	27.8	26.9	
35-44	9.5	13.4	12.6	
45-54	6.0	13.1	10.0	
55-64	3.7	4.8	8.2	
65 and older	3.0	1.0	4.8	
Total	100.0	100.0	100.0	
		Years		
Median age	23	28	29	

and only 17 percent had any college education (table 5). Whites generally achieved higher levels of education than did minorities; 58 percent of whites completed high school compared with 33 percent of blacks and others and only 17 percent of Hispanics. The low educational levels of minority farmworkers and their limited noufarm job alternatives help explain their greater likelihood of being employed in agriculture during their prime working years.

The hired farm work force included some people who were still in school. This was especially true of young whites who made up a large proportion of all white farmworkers. The educational levels for white farmworkers age 25 and older (an age when most schooling is completed) were significantly higher than those of white farmworkers age 14-24. Almost 75 percent of the white farmworkers age 25 and older completed high school, compared with only 44 percent of white farmworkers age 14-24. The educational levels of minority farmworkers age 25 and older did not differ significantly from those of minority farmworkers age 14-24.

Regional Location

The number of hired farmworkers varied considerably by the 10 farm production regions shown in figure 1. This variation reflects differences in size of the farm sector among regions and differences in the labor requirements of the mix of commodities produced. Farm production

Table 5-Years of education completed by all hired farmworkers and hired farmworkers 25 years of age and older, by racial/ethnic group, 1985'

Total	White	Hispanic	Black and other		
Thousands					
2,522	1,922	326	274		
	D o	cont			
1 : 4			3.2		
			22.4		
			41.5		
			27.6		
			5.3		
103	20.1	2.5	3.3		
100.0	100.0	100.0	100.0		
	Tho	usands			
1,231	863	196	171		
	Pe	rcent			
7.8	2.4	34.4	4.4		
	9.8	40.7	28.5		
15.3	13.1	10.4	32.1		
40.4	49.0	12.8	28.8		
19.2	25.8	1.8	6.1		
100.0	100.0	100.0	100.0		
	2,522 i.4 17.3 28.4 33.4 16.5 100.0 1,231 7.8 17.3 15.3 40.4 19.2	7hot 2,522 1,922 Pet 1,4 1.1 17.3 13.3 28.4 27.7 33.4 37.4 16 5 20.4 100.0 100.0 7hot 1,231 863 Pet 7.8 2.4 17.3 9.8 15.3 13.1 40.4 49.0 19.2 25.8	Thousands 2,522 1,922 326 Percent i.4 1.1 24.9 17.3 13.3 36.6 28.4 27.7 21.4 33.4 37.4 14.2 16 5 20.4 2.9 100.0 100.0 100.0 Thousands 1,231 863 196 Percent 7.8 2.4 34.4 17.3 9.8 40.7 15.3 13.1 10.4 40.4 49.0 12.8 19.2 25.8 1.8		

Numbers and percentages may not add to totals due to rounding



regions differ in soil, slope of land, climate, type of crops and commodities produced, and in the labor required to produce the commodities. The Corn Belt, Pacific, and Appalachia regions contained 47 percent of the hired farmworkers at the time of the survey. In contrast, the Delta States, Southeast, and Northern Plains regions contained only 16 percent of the Nation's hired farmworkers.

The racial/ethnic composition of the hired farm work force differed by farm production region (table 6). Whites accounted for the majority of farmworkers in all the farm production regions except the Southeast and Southern Plains. Hispanics made up 44 percent of the farmworkers in the Southern Plains, and 34 percent in the Pacific. Over one-third of the farmworkers in the Southeast and Delta States were blacks or others.

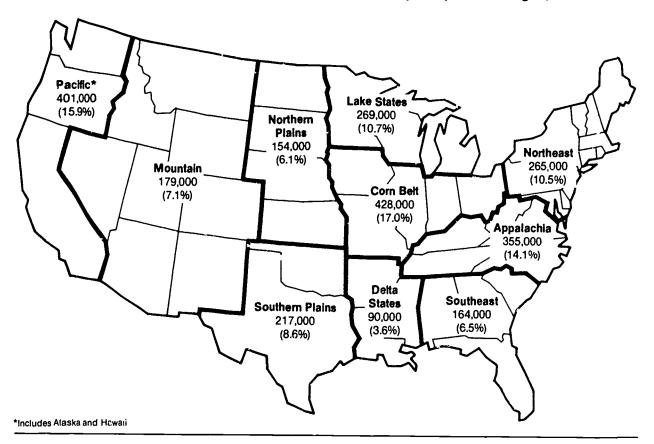
Employment and Earnings Characteristics

The earnings of hired farmworkers are among the lowest of all U.S. occupational groups, although differences among farmworker groups are significant. Over two-thirds of the farmworkers worked fewer than 150 days at hired farmwork in 1985, and many also did nonfarmwork.

Primary Employment Status During Year. Most persons who did hired farmwork in 1985 did not consider it their primary labor force activity; that is, the majority of these workers were primarily engaged in some other activity during the year. Only 29 percent of the hired farmworkers reported their primary employment status as hired farmwork; 28 percent were students and 22 percent were nonfarm workers (table 7).⁷

The primary employment status differed by racial/ethnic group. Hispanics were more likely than whites and blacks and others to report that hired farmwork was thair primary employment. Almost 57 percent of all Hispanic hired farmworkers were primarily hired farmworkers. This compares with only 35 percent of all black and other hired farmworkers and 23 percent of all white hired farmworkers. On the other hand, whites were more likely than Hispanics to be primarily nonfarmworkers. One-quarter of the whites reported nonfarmwork as their primary activity compared with only 8 percent of the Hispanics. Whites were also more likely than both Hispanics and blacks and others to be primarily students. Attending school was the primary activity of almost 33

Fig. 1—Number and percentage distribution of hired farmworkers, by farm production region, 1985





[•] See appendix I for more information on the demo? aphic and employment characteristics of hired farmworkers by urm production regions.

⁷ Primary employment status data reflect responses to a question concerning the major activity of respondents during the year. Many respondents did hired farmwork sometime during 1985 while primarily engaged in some other activity. See appendix III for more detailed information on primary employment status during year.

percent of the whites, but only 20 percent of the blacks and others, and 10 percent of the Hispanics.

Days Worked. Much hired farmwork is characterized by unstable and short-term employment largely due to the seasonal nature of agriculture. Farmwork has periods of peak labor use (fig. 2), such as during the harvesting of perishable fruits and vegetables. Only 34 percent of all hired farmworkers were employed in February compared with 67 percent in July. Seasonality of employment is even more extreme for younger workers who may be in school much of the year. Only 20 percent of workers age 14-17 years were employed from January to May, over 70 percent in July, and less than 20 percent again in November and December. There was less monthly variation in the employment levels of workers 25 years and older. But, even in this group, the percentage employed in January was 18 percentage points below the peak employment level in July.

Table 6—Geographic distribution of hired farmworkers, by racial/ethnic group, 1985¹

		Racial/ethnic group				
Farm production region	Total	White	Hispanic	Black and other		
	Thousands					
Northeast Lake States Corn Belt Northern Plains Appalachia	265 269 428 154 355	93.8 97.1 98.2 96.8 70.9	2.3 2.5 .8 .6 .4	3.9 .4 1.0 2.6 28.7		
Southeast Delta States Southern Plains Mountain Pacific	164 90 217 179 401	44.1 60.9 49.6 74.0 55.8	18.7 0 44.3 25.4 33.8	37.2 39.1 6.1 .7 10.4		
United States	2,522	76.2	12.9	10.9		

¹ Numbers and percentages may not add to totals due to rounding.

Although hired farmworkers as a group averaged 107 days of hired farmwork in 1985, the number of days worked by farmworkers varied considerably. Slightly less than one-third of all farmworkers were regular or yearround workers, working 150 days or more at hired farmwork (table 8). Thirty-seven percent of all hired farmworkers were casual workers, working fewer than 25 days at hired farmwork during the year. Seasonal workers worked 25-149 days at hired farmwork and made up 31 percent of the hired farm work force (fig. 3). While regular and year-round workers made up less than one-third of the hired farm work force, they accounted for over three-fourths of the 269 million total worker days of hired farmwork. Conversely, casual workers made up 37 percent of the work force but accounted for only 3 percent of days worked.

Because of the seasonality of agricultural employment and relatively low pay for most farmwork, many farmworkers work at nonfarm jobs to increase their income. In 1985, 46 percent of all hired farmworkers did some nonfarm work during the year (table 8). However, hired farmworkers who did some nonfarm work worked fewer days at hired farmwork than farmworkers who did only hired farmwork. Almost half of those who did farmwork only were regular and year-round workers, compared with only 12 percent of those who did nonfarmwork.

The number of days spent at hired farmwork varied by other farmworker characteristics as well (table 8). The findings indicate that:

 Hispanics were more likely to be regular and yearround workers than were whites and blacks and others. Almost 54 percent of the Hispanics worked 150 days or more compared with 27 percent of the whites and about 33 percent of the blacks and others.

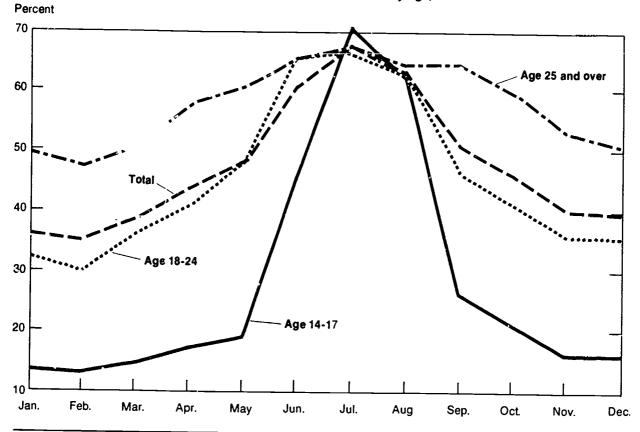
Table 7—Primary employment status during year of hired farmworkers by racial/ethnic group, 1985'

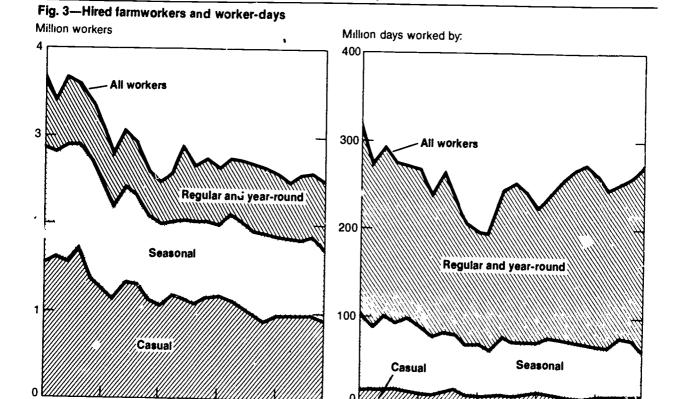
			F	Racial/ethnic gro	up
Primary employment status during year	Total I farmw		White	Hispanic	Black and other
	Thousands		Percent —		
All hired farmworkers	2,522	100.0	100.0	100.0	100.0
in labor force Hired farmwork Operated farm Unpaid farmwork Nonfarmwork Unemployed	1,531 723 127 21 560 100	60.7 28.7 5.0 .8 22.2 4.0	57.8 23.0 6.0 1.1 25.1 2.6	75.8 56.9 1.9 0 7.8 9.2	63.9 35.1 2.2 0 19.1 7.5
Not in labor force Keeping house Attending school Other	991 159 718 114	39.3 6.3 28.5 4.5	42.3 5.7 32.9 3.8	24.2 9.2 9.8 5.2	36.1 7.1 19.9 9.1

¹ Numbers and percentages may not add to totals due to rounding.



Fig. 2—Proportion of hired farmworkers employed in each month by age, 1985





Data for 1978, 1980, 1982, and 1984 interpolated--actual data not available

Regular and year-round worked 150 or more days. Seasonal worked 25-149 days. Casual worked lewer than 25 days.



- Males were more likely to be year-round workers than were females. Twenty percent of the males worked 250 or more days compared with only 8 percent of the females. Conversely, 47 percent of the females were casual workers compared with 35 percent of males.
- Younger workers worked fewer days than older workers. Almost 58 percent of the hired farmworkers age 14–17 were casual workers while
- only 8 percent were regular or year-round workers. Over half of the workers age 45–54 and 55–65 were regular or year-round workers.
- Slightly over 85 percent of the hired farmworkers who reported hired farmwork as their primary employment status during the year worked 150 or mo.e days in 1985. In comparison, only 7 percent of those who were primarily students were regular or year-round farmworkers.

Table 8—Demographic characteristics of hired farmworkers, by days of farmwork, 19851

				Days of farmwor		
Characteristic	Total	Casual	Seas	onal	Regular a	nd year-round
		Fewer than 25	25-74	75-149	150-249	250 and ove
			Thou			
All hired farmworkers	2,522	943	509	280	344	445
Racial/ethnic group:	l l				1-0	244
White	1,922	791	395	213	179 104	344 <i>7</i> 1
Hispanic	326	55	62 53	33 35	60	30
Black and other	274	97	52	33	60	30
Sex:			401	220	272	399
Male	1,980	689	401	220 60	73	46
Female	542	254	108	60	/3	40
Age (years):		240	146	42	19	26
14–17	552	318	146	42 91	94	114
18-24	739	267	174 106	70	106	127
25–34	601	192	38	28	38	75
35–44	260	81	13	26 24	47	57
45-54	185	43 20	17	16	22	34
55-64	110		16	8	17	12
65 and oider	75	21	10	O	.,	, ,
Nonfarmwork:			200	151	82	60
Did nonfarmwork	1,168	596	280	151 129	262	386
Did farmwork only	1,354	347	229	129	202	300
Primary employment status:						
In labor force	1,531	426	218	179	294	414
Hired farmwork	723	11	18	68	258	368
Operated farm	127	42	18	23	10	33
Unpaid farmwork	21	11	2	4	4	0
Nonfarmwork	560	324	133	<i>7</i> 5	15	13 0
Unemployed	100	38	47	9	7	U
Not in labor force	991	51 <i>7</i>	290	102	51	31
Keeping house	159	88	36	15	16	4
Attending school	718	383	214	72	23	26
Other	114	46	40	15	12	1
Agricultural activity:	-					
Grains	590	243	135	76	60	76
Cotton	86	30	25	8	4	20
Tobacco	208	118	53	12	16	9
Other field crops	365	213	62	39	29	22
Vegetables or melons	196	65	55	21	34	22
Fruits or tree nuts	261	74	47	29	87	25
Horticulture specialty	130	43	22	15	29	20
Beef cattle	163	36	39	26	16	46 116
Dairy	225	37	30	21	21	116
Other livestock	203	45	29	19	39	71 19
Other	94	40	13	14	9	19

¹ Numbers and percentages may not add to totals due to rounding.

² Refers to the crop or livestock worked with the most on the longest farm job.



 Workers whose longest farm job was in livestock generally worked more days of farmwork than workers whose longest job was in crops. For example, almost 61 percent of the workers whose longest farm job was in dairy production and 54 percent of the workers in other livestock production worked 150 or more days, compared with about 12 percent in tobacco production and 14 percent in other field crops.

zarnings. The average annual earnings of all hired farmworkers was \$5,826 in 1985, of which \$3,247, or 56 percent, was from hired farmwork (table 9). The average nonagricultural private sector production worker received about \$15,660, over 2.5 times the earnings of hired farmworkers in 1985, by comparison (6). Earnings among farmworker groups differed significantly. White farmworkers had higher average annual earnings (\$6,015) than blacks and others (\$4,812). (Average annual earnings of whites and Hispanics were not significantly different at the 95-percent confidence level.) Hispanics, who had average total annual earnings of \$5,563, received a larger proportion of their earnings from farmwork than did whites and blacks and others. Farmwork accounted for 86 percent of the total earnings for Hispanic hired farmworkers, 62 percent of the total earnings of blacks and others, and only 50 percent of the total earnings of whites. Among those who did farmwork only, Hispanics had the highest earnings (\$5,804), then w hites (\$4,572), and blacks and others (\$3,906).

Farmworkers who did both hired farmwork and non-farmwork had significantly greater annual earnings (\$7,129) than did those workers who did farmwork only (\$4,702). The average farm earnings of those who did both hired farmwork and nonfarmwork was only \$1,560, or about 22 percent of their total earnings.

Farmworkers whose primary employment status during the year was nonfarmwork averaged \$10,466, of which \$1,082 was farm earnings. Those who primarily did hired farmwork averaged \$8,395, of which \$8,033 was farm earnings. Students earned only \$1,272, with \$731 coming from farmwork.

The total earnings of workers also varied by the number of days spent doing hired farmwork. Farmworkers who worked fewer than 25 days at hired farmwork, and those who worked 25–74 days received average earnings of slightly more than \$4,000, most of which was from nonfarm earnings (fig. 4). As days of farmwork increased, total earnings and the proportion derived from farmwork increased. Farmworkers working 250 days or more at hired farmwork had the highest total earnings, \$10,474, of which \$9,917 were farm earnings.

Migrant Farmworkers

A migrant farmworker is defined as someone who temporarily crosses State or county boundaries and stays overnight to do hired farmwork, or one who has no usual

Table 9—Demographic characteristics of hired farmworkers, by average annual earnings, 1985

								
Characteristic	All hired farmworkers		Those who did hired farmwork only		Those who did both hired farmwork and nonfarmwork			
	Workers	Total annual earnings	Annual farm earnings	Workers	Annual farm earnings	Workers	Total annual earnings	Annual farm earnings
	Thousands	Do	llaıs ——	Thousands	Dollars	Thousands		llars —
All hired farmworkers	2,522	5,826	3,247	1,354	4,702	1,168	<i>7,</i> 129	1,560
Racial/ethnic group: White Hispanic Black and other	1,922 326 274	6,015 5,563 4,812	3,018 4,795 3,008	920 245 189	4,572 5,804 3,906	1,002 81 85	7,340 4,836 6,833	1,592 1,749 1,003
Primary employment status during year: In labor force Hired farmwork Operated farm Unpaid farmwork Nonfarmwork Unemployed Not in labor force Keeping house	1,531 723 127 21 560 100 991	8,585 8,395 7,048 10,466 2,219 1,565 1,938	4,743 8,033 5,331 1,082 1,337 937 1,450	756 616 82 3 0 55 597	7,629 8,469 5,416 0 1,877 996 1,452	774 108 45 17 560 45 394 57	9,519 7,974 10,011 10,466 2,634 2,427 2,799	1,923 5,541 5,177 1,083 681 846 1,446
Attending school Other	718 114	1,272 2,883	731 i,516	418 78	779 1,563	300 36	2,/99 1,958 5,757	664 1,413

'Numbers may not add to totals due to rounding.

² Averages not shown when base is fewer than 50,000 workers.



place of residence and does hired farmwork in two or more counties during the year.

The supply of migrant farm labor is an important factor in U.S. farm production. Migrants supplement local labor during peak use seasons when the demand for agricultural workers frequently exceeds the supply of farmworkers living in the local area (3). Due to the perishability of many agricultural products and the seasonality of agriculture, migrant workers often provide a crucial source of labor during peak planting and harvesting periods.

The number of reported migrant farmworkers has fluctuated greatly since 1979, suggesting the possibility of an estimation error or nonsampling error associated with survey procedures (table 10). Estimates of migrant workers should be interpreted cautiously because they are based on a relatively small number of cases and the applicable standard errors may not fully reflect the extent of sampling and nonsampling errors associated with the estimates (see app. II). Data on the regional distribution and earnings of migrants are not reported because of low statistical reliability.

Demographic Characteristics. The 159,000 workers reporting migrant farmwork made up 6 percent of the

Table 10-Migrant farmworkers by days of farmwork'

		Days of farmwork					
Year	Total	Fewer than 25	25-74	75–149	150 or more		
			`. hou	sands			
1960	409	92	122	84	111		
1961	395	99	131	80	85		
1962	380	92	133	83	73		
1963	386	108	89	111	78		
1964	386	114	102	88	82		
1965	466	165	114	92	94		
1966	351	76	114	73	87		
1967	276	81	81	56	57		
1968	279	103	85	39	52		
1969	257	85	84	46	41		
1970	196	61	59	31	45		
1971	172	55	57	35	24		
1972	184	46	55	35	48		
1973	203	57	57	37	52		
1974	209	68	63	35	43		
1975	188	45	74	21	48		
1976	213	66	60	53	34		
1977	191	39	73	35	44		
1978				_	_		
1979	217	56	80	33	48		
1980		_	_		_		
1981	115	24	37	12	43		
1982			=	=			
1983	226	36	52	62	78		
1984	150	-	-	25	44		
1985	159	37	53	25	44		

^{- =} No survey conducted.

hired farm work force in 1985. The demographic characteristics of migrant farmworkers were similar to those of nonmigrant farmworkers. Both groups were mostly young, white, and male (table 11). The educational level of all migrant farmworkers did not differ significantly from that of all nonmigrants (table 12). There was also no significant difference in educational levels between migrants age 14–24 and migrants age 25 and older.

Employment Characteristics. Migrant and nonmigrant farmworkers had about the same primary employment status and were engaged in the same major agricultural activities in 1985. However, the data suggest that more migrant than nonmigrant farmworkers had nonfarm employment, that is, 64 percent of the migrants compared with only 45 percent of the nonmigrants (table 13). Furthermore, a greater percentage of nonmigrants than migrants worked fewer than 25 days, and worked 250 or more days at hired farmwork in 1985. Migrants worked an average of 95 days at hired farmwork compared with 108 days for nonmigrants.

Farm Operators

Almost 2.9 million people residing in 2.3 million households operated a farm in 1985. This was the first year in which the Agricultural Work Force Survey collected data on farm operators. Estimates of the number of farm operators before 1985 are not available from this survey. Ninety-seven percent of all farm operators were white

Table 11—Demographic characteristics of migrant and nonmigrant farmworkers, 1985¹

Characteristic	Migr. farmwo		Nonmigrant farmworkers		
	Theusands	Percent	Thousands	Percent	
Total farmworkers	159	100.0	2,363	100.0	
Racial/ethnic group: White Hispanic Black and other	115 30 14	72.4 19.0 8.6	1,807 296 260	76.5 12.5 11.0	
Sex: Male Female	117 42	73.5 26.5	1,864 500	78.9 21.1	
Age: 14-17 18-24 25-34 35-44 45-54 55-64 65 and older	33 61 38 19 3 2 3	20.6 38.3 24.1 11.7 2.0 1.5	519 679 563 241 182 108 72	22.0 28.7 23.8 10.2 7.7 4.6 3.1	
Median age	22		ears 24		

^{&#}x27; Numbers and percentages may not add to totals due to rounding.



¹ Numbers are rounded to nearest thousand and may not add to totals

and 76 percent were male. Most of the female farm operators were married to another farm operator. Over three-quarters of the farm operators had completed high school and one-third had some college education. Almost half of all farm operators cited grain or beef cattle as the product contributing most to the gross value of sales on the farm they operated. Farm operators averaged 236 days operating a farm in 1985. Forty-two percent reported

Table 12—Years of education completed by migrant and nonmigrant farmworkers, 1985¹

Years of education completed	Migrant farmworkers			Nonmigrant farmworkers		
	Thousands	Percent	Thousands	Percent		
All workers	159	100.0	2,363	100.0		
0-4	8	5.1	103	4.4		
5– 8	32	19.9	405	17.1		
9-11	39	24.8	677	28.7		
12	45	28.2	797	33.7		
13 and over	35	22.0	381	16.1		
Workers 25 years and						
older	65	100.0	1,165	100.0		
0–4	8	12.3	88	7.5		
5–8	9	13.6	204	17.5		
9–11	13	20.0	175	15.0		
12	19	28.7	478	41.0		
13 and over	17	25.4	220	18.9		
1 Niverbase and as						

^{&#}x27; Numbers and percentages may not add to totals due to rounding.

their primary employment status as operating a farm. Almost 48 percent of all farm operators did some non-farmwork. They averaged 211 days of nonfarmwork and had average nonfarm earnings of \$10,722. This section outlines the demographic, geographic, and employment characteristics of farm operators.

A farm operator is defined as any person who operated a farm which he or she owned, rented, or leased at anytime during 1985. Two or more people (such as a husband and wife, or partners) could operate one farm, and both would be included as farm operators in this definition. In the Agricultural Work Force Survey, a farm was self-defined by respondents; that is, no formal definition of a farm was given to respondents.

The definition of farm operator used in this report was designed to measure self-employment in agriculture instead of farms as economic entities. Consequently, the definition of a farm operator used in this report differs from the definition of a farm used by the National Agricultural Statistics Service (NASS) and the Census of Agriculture. Their definition of a farm permits only *one* operator to be counted per farm, and farms are defined as places from which \$1,000 or more of agricultural products were sold or normally would have been sold during the year. Therefore, the data on number of farm operators in this report differ from the data on number of

Fig. 4—Earnings of hired farmworkers by days of farmwork, 1985

Earnings (thousand dollars) 10 Nonfarm earnings Farm earnings 8 6 All hired Fewer than 25-74 75-149 150-249 250 or more 25 days days days days days



farms reported by others who use the farm and not the operator as the unit of analysis. For example, NASS determined that there were 2,275,000 farms in the United States in 1985 and the Census of Agriculture reported 2,241,0J0 in 1982, to cite the most recent data available (4, 5). These data on number of farms are somewhat less than the number of farm operators reported here (2,889,000). However, the similarity between the data on

Table 13—Employment characteristics of migrant and nonmigrant farmworkers, 1985'

Characteristic	Migra farmwo		Nonmigrant farmv:orkers		
	Thousands	Percent	Thousands	Percent	
Total	159	100.0	2,363	100.0	
farmworkers	109	100.0	2,303	100.0	
Primary em- ployment					
status: In labor force	93	58.4	1,439	60.9	
Hired farm- work	31	19.6	692	29.3	
Farm operator	5	3.2	122	5.2	
Unpaid				_	
farmworker	3	2.0	18	.7	
Nonfarmwork	46	28.9	514	217	
Unemployed	7	4.7	93	3.9	
Not in labor		41.6	925	39.1	
force	66	41.6	923	٠.ود	
Keeping house	11	6.6	148	6.3	
Attending school	48	30.3	670	28.4	
Other	7	4.6	107	4.5	
Other	1 ′	4.0			
Days worked:					
Fewer than 25	37	23.2	906	38.3	
25-74	53	33.6	456	19.3	
75–149	25	15.8	255	10.8	
150-249	35	21.9	310	13.1	
250 and over	9	5.6	436	18.5	
Agricultural ac-					
tivity:²				22.0	
Grains	25	16.0	565	23.9	
Cotton	4	2.2	83	3 5	
Tobacco	6	3.5	202	8.6	
Other field	1	.1.4	247	14.7	
Crops	18	11.4	347	14./	
Vegetables or	26	16.5	170	7.2	
melons Fruit or tree	20	10.5	170	7.4	
nuts	1 13	8.1	248	10.5	
Horticulture	"	0.,	2.0		
specialty	9	5.6	121	5.1	
Beef cattle	13	8.1	150	6.4	
Dairy	17	10.7	208	8.8	
Other livestock	17	10.4	186	7.9	
Other	12	7.5	82	3.5	
Nonform					
Nonfarm work:	1				
Did non-	102	64.0	1,067	45.1	
farmwork	102	04.0	1,007	73.1	
Did farmwork only	57	36.0	1,297	54.9	
Numbers and De					

^{&#}x27; Numbers and percentages may not add to totals due to rounding

farm operators in this report and the estimate of farm numbers becomes more apparent when the number of farm operator households is compared with the number of farms (table 14). A farm operator household is a household in which at least one farm operator resided. Data from the 1985 Agricultural Work Force Survey show that about 25 percent of farm operator households had more than one operator. Thus, the number of farm operator households in 1985 (2,263,000) is similar to the number of farms reported by both NASS and the Census of Agriculture.

Demographic Characteristics

Farm operators in 1985 were mostly white, middle aged, and male. Ninety-seven percent of all farm operators were white, 1 percent were Hispanic, and 2 percent belonged to black or other racial/ethnic groups (table 15). About 6 percent of all farm operators were under 25 years of age; over half were 45 years of age or older. Over three-quarters of all farm operators were male.

Table 14—Number of farm operator households, 19851

Characteristic	Households		
	Thousands	Percent	
One farm operator Two farm operators Three or more farm operators	1,695 530 39	74.9 23.4 1.7	
Total	2,263	100.0	

Numbers and percentages may not add to totals due to rounding.

Table 15—Demographic characteristics of farm operators, 1985'

Characteristic	Farm op	erators
	Thousands	Percent
All farm operators	2,889	100.0
Racial/ethnic group: White Hıspanıc Black and other	2,789 30 70	96.5 1.0 2.4
Sex: Male Female	2,204 685	76.3 23.7
Age (years): 14-17 18-24 25-34 35-44 45-54 55-64 65 and older	35 128 505 656 623 609 333	1.2 4.4 17.5 22.7 21.6 21.1 11.5
Median age		ars 6

¹ Numbers and percentages may not add to totals due to rounding.

² Refers to the Crop or livestock worked with the most on the longest farm job.

^{*}Because of the small number of minority farm operators, data on farm operators were not broken down by racial/ethnic group.

The household relationship of farm operators differed by sex. The data suggest that most female farm operators operated the farm jointly with their spouse. Seventy percent of the male operators lived in households in which they were the only farm operator, compared with only 23 percent of the female operators. Over 70 percent of the female operators were married to another farm operator, compared with only 22 percent of the male operators.

Farm operators had high levels of formal education (table 16). Three-quarters of all farm operators completed high school and one-third had some college education. There was no significant difference between the educational levels of farm operators 25 years of age and older and those of farm operators age 14–24.

Regional Location

Most farm operators were located in the eastern half of the country (fig. 5). The Corn Belt and Appalachia each accounted for about 19 percent of all farm operators, and the Lake States for another 12 percent. Com Belt farm operators were primarily involved in grain production (including com, wheat, soybeans, and feed grains). Tobacco was the major crop in Appalachia. Dairy and grains were the major Lake States commodities. No other

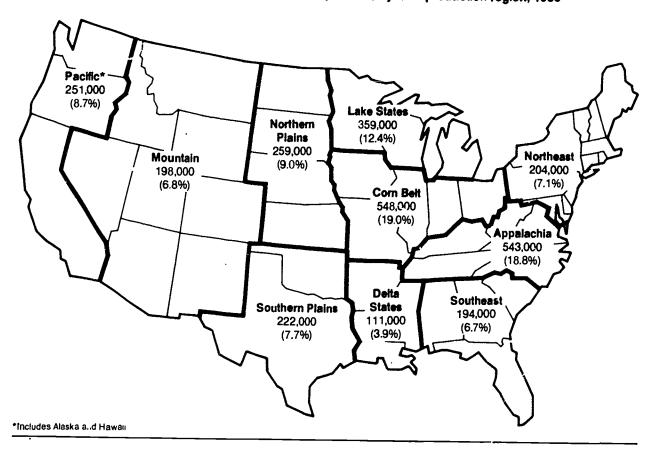
farm production region accounted for more than 9 percent of the farm operators.9

Table 16—Years of education completed by all farm operators and operators 25 years of age and older, 1985'

Education	Farm op	erators	
	Thousands	Percent	
All farm operators	2,889	100.0	
Years of education completed:			
0-4	18	.6	
5–8	368	12.7	
9–11	314	10.9	
12	1,214	42.0	
13 and over	975	33.7	
Farm operators 25 years and older	2,727	100.0	
Years of education completed:			
0–4	18	.7	
5–8	352	12.9	
9-11	283	10.4	
12	1,135	41.6	
13 and over	938	34.4	

^{&#}x27; Numbers and percentages may not add to totals due to rounding.

Fig. 5—Number and percentage distribution of farm operators, by farm production region, 1985



^{*}The characteristics of farm operators by farm production region are presented in appendix I.

Employment Characteristics

Farm operators averaged 236 days operating a farm in 1985. Over two-thirds of all farm operators worked 150 or more days operating a farm and 58 percent worked 250 or more days (table 17). Only 11 percent were casual farm operators working fewer than 25 days in 1985. Almost one-half of all farm operators cited either grains or beef cattle as the product contributing most to the gross value of sales on the farm, they operated.

The majority of farm operators reported their primary employment status in 1985 as other than operating a farm. Only 42 percent of all farm operators reported their primary employment activity during the year as operating a farm, while 36 percent were primarily nonfarmworkers. An additional 17 percent were not in the labor force; most of these were keeping house.

About 1.4 million or 48 percent of all farm operators did some nonfarmwork during the year (table 17). Among these, nonfarmwork accounted for a major portion of their work time as measured by days worked. Farm operators who did nonfarmwork averaged 211 days of nonfarmwork during the year (and 189 days operating a farm) and had average annual nonfarm earnings of \$10,722.

Unpaid Farmworkers

Unpaid farmworkers, almost 3.8 million people in 1985, made up the largest (47 percent) component of the agricultural work force in 1985.10 Unpaid farmworkers are those who do farmwork without receiving cash wages or salary, or receive only a "token" cash allowance, or do farmwork for room and board or payment-in-kind. Almost 24 percent of the unpaid farmworkers also worked as hired farmworkers and/or farm operators. Ninety-five percent of the unpaid farmworkers were white, 63 percent were male, and 77 percent had completed high school. Unpaid farmworkers averaged 56 days of unpaid farmwork, with over 55 percent working fewer than 15 days. Only 6 percent of all unpaid farmworkers reported unpaid farmwork as their primary employment status during the year, while 51 percent were primarily nonfarm workers. Only 36 percent of the unpaid farmworkers lived in a household with a farm operator present, but they accounted for 64 percent of the total days worked by unpaid farmworkers. This section outlines the demographic, geographic, and employment characteristics of unpaid farmworkers.

Contrary to popular impression, most unpaid workers were not immediate family members of farm operators. Only 36 percent of the unpaid farmworkers lived in a household with a farm operator present (table 18). However, these unpaid workers do work longer at unpaid work than unpaid workers in nonfarm operator house-

Table 17—Employment characteristics of farm operators, 1985

Characteristic	Farm op	erators
	Thousands	Percent
All farm operators	2,889	100.0
Primary employment status:		
In labor force	2,388	82.7
Hired farmwork	62	2.1
Operating a farm	1,211	41.9
Unpaid farmwork	47	1.6
Nonfarmwork	1,048	36.3
Unemployed	20	.7
Not in labor force	501	17.3
Keeping house	296	10.2
Attending school	73	2.5 4.6
Other	132	4.0
Days worked as farm operator:		
Fewer than 25	310	10. <i>7</i>
25-74	345	12.0
75–149	266	9.2
150–249	297	10.3
250 and over	1,671	57.8
Agricultural activity:2		
Grains	741	25 <i>.7</i>
Cotton	32	1.1
Tobacco	230	8.0
Other field crops	183	6.3
Vegetables or melons	117	4.1
Fruit or tree nuts	105	3.6
Horticulture specialty	69	2.4
Beef cattle	662	22.9
Dairy	288	10.0
Other livestock	353	12.2
Other	108	3.7
Nonfarmwork:		
Did nonfarmwork	1,381	47.8
Did farmwork only	1,508	52.2

' Numbers and percentages may not add to totals due to rounding.

Table 18-Unpaid farmworkers and worker-days, 1985

Unpaid farmworkers who—		Unpaid Worker-c		days	
	Thousands	Percent	Thousands	Percent	
Lived in household with a farm opera- tor present	1,363	36.1	135,100	154.2	
Lived in household without a farm op- erator present	2,414	63.9	75,479	35.8	
Total	3,777	100.0	210,579	100.0	



¹º Since this was the first year that the Agricultural Work Force Survey collected information on unpaid farmworkers, there are no estimates of the number of unpaid farmworkers before 1985. Other data sources which collect information on unpaid farmworkers (for example, NASS) include only those who did unpaid work on farms for at least 15 hours during the survey week. This survey includes all workers who did unpaid work at any time during the year, even for a single day.

² Reters to the crop or livestock that contributed most to the gross sales on the farm.

holds, because they accounted for 64 percent of the total days worked by unpaid farmworkers. On average, unpaid workers living in households with a farm operator present did 99 days of unpaid farmwork in 1985, compared with only 31 days of unpaid farmwork for people living in households without a farm operator present.

Demographic Characteristics

The majority of unpaid farmworkers were white, and 63 percent were male (table 19). Unpaid workers were relatively young; 60 percent of all unpaid farmworkers were 14–34 years of age and 10 percent were under 18. The median age for all unpaid farmworkers was 31 years.

Unpaid workers generally had high levels of education, as measured by years of schooling completed. Seventy-seven percent of the unpaid workers had completed high school and 35 percent had some college education (table 20). The percentage of unpaid farmworkers 25 years and older (when most schooling is completed) who completed high school was significantly greater than that of unpaid farmworkers age 14–24.

Regional Location

The distribution of unpaid farmworkers by farm production region resembled that of farm operators. The Corn

Belt, Appalachia, and Lake States regions accounted for half of all the unpaid farmworkers (fig. 6). The Northeast was the only other region that had over 10 percent of the Nation's unpaid farmworkers. Data on the characteristics

Table 19—Demographic characteristics of unpaid farmworkers, 1985

Characteristic	Unpaid farmworkers			
	Thousands	Percent		
All unpaid farmworkers	3,777	100.0		
Racial/ethnic group: White Hispanic Black and other	3,597 44 135	95.2 1.2 3.6		
Sex: Male Female	2,388 1,389	63.2 36.8		
Age (years): 14-17 18-24 25-34 35-44 45-54 55-64 65 and older	364 769 1,136 682 353 271 201	9.6 20.4 30.1 18.0 9.4 7.2 5.3		
Median age	<i>Year</i> 31	3		

¹ Numbers and percentages may not add to totals due to rounding

Fig. 6—Number and percentage distribution of unpaid farmworkers, by farm production region, 1985

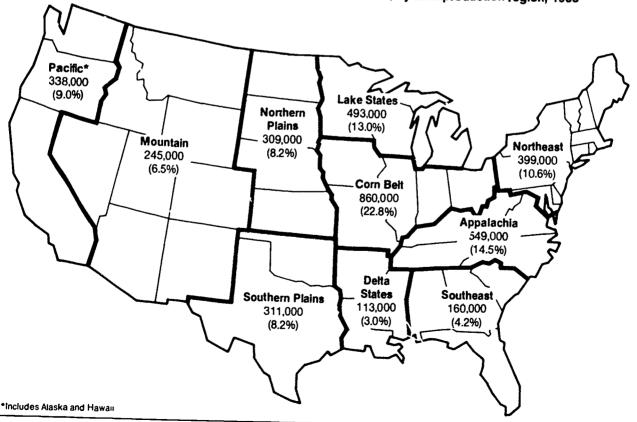




Table 20—Years of education completed by all unpaid farmworkers and unpaid farmworkers 25 years and older, 1985

Education	Unpaid far	mwork e rs	
	Thousands	Percent	
All unpaid farmworkers	3,777	100.0	
Years of education completed:			
0-4 5-8 9-11 12 13 and over	12 349 505 1,579 1,331	.3 9.3 13.4 41.8 35.3	
Workers 25 years and older	2,644	100.0	
Years of education completed:			
0–4 5–8 9–11 12 13 and over	12 195 220 1,164 1,054	.4 7.4 8.3 44.0 39.9	

¹ Numbers and percentages may not add to totals due to rounding.

of unpaid farmworkers by farm production region are presented in appendix I.

Employment Characteristics

Unpaid farmworkers as a group averaged 56 days of unpaid farmwork in 1985. However, most unpaid workers worked fewer than the average number of days. Fifty-five percent of all unpaid workers worked fewer than 15 days, and 28 percent worked fewer than 5 days (table 21). Only 18 percent of unpaid workers worked 100 or more days at unpaid farmwork. About two-thirds of those who did 100 or more days of unpaid farmwork resided in farm operator households.

Few unpaid farmworkers did unpaid farmwork as their major labor force activity in 1985. Only about 6 percent of all unpaid farmworkers reported unpaid farmwork as their primary employment status during the year, while 51 percent were primarily nonfarm workers. Over one-third of the unpaid farmworkers were not in the labor force most of the year. Most were primarily keeping house or going to school.

Unpaid farmworkers were heavily involved in non-farmwork. Sixty-nine percent of all unpaid farmworkers did nonfarmwork at some time during the year (table 21). Those unpaid farmworkers who did nonfarmwork worked an average of 201 days of nonfarmwork during the year (and 39 days of unpaid farmwork), and earned an average of \$10,052 from nonfarmwork during the year.

Comparison of the Agricultural Work Force Components

The Agricultural Work Force Survey provides national level data on persons age 14 years and older who did farmwork at some time during the year. In 1985, over 8 million persons did farmwork, including 2.5 million hired farmworkers, 2.9 million farm operators, and 3.8 million unpaid farmworkers. Over 1 million workers participated in two or more of these activities. Although there is considerable diversity within each farmworker group, each had distinct characteristics associated with it:

 Hired farmworkers were more likely to be members of minority groups than either farm operators or unpaid farmworkers. Almost one-quarter of all hired farmworkers were Hispanic or black or other, compared with less than 5 percent of both the farm operators and unpaid farmworkers.

Table 21—Employment characteristics of unpaid farmworkers, 1985¹

Characteristic	Unpaid far	mworkers
	Thousands	Percent
All unpaid farmworkers	3,777	100.0
Primary employment status: In labor force Hired farmwork Operating a farm Unpaid farmwork Nonfarmwork Unemployed Not in labor force Keeping house Attending school	2,436 74 197 208 1,912 45 1,341 529 624	64.5 2.0 5.2 5.5 50.6 1.2 35.5 14.0 16.5
Other Days worked as unpaid farmworker: Fewer than 5 5–14 15–24 25–99 100 and over	1,048 1,039 340 682 668	27.7 27.5 9.0 18.1 17.7
Agricultural activity: ² Grains Cotton Tobacco Other field crops Vegetables or melons Fruit or tree nuts Horticulture specialty Beef cattle Dairy Other livestock Other	792 34 167 545 251 133 60 811 358 466 159	21.0 .9 4.4 14.4 6.6 3.5 1.6 21.5 9.5 12.3 4.2
Nonfarmwork: Did nonfarmwork Did farmwork only	2,606 1,171	69.0 31.0

Numbers and percentages may not add to totals due to rounding.



³ Refers to the crop or livestock worked with the most on the longest unpaid farm job.

- Hired farmworkers had the lowest level of education as measured by years of schooling completed. Onehalf of the hired farmworkers had not completed high school while over three-quarters of the farm operators and unpaid farmworkers were high school graduates.
- On average, farm operators were the oldest members of the agricultural work force with a median age of 46 years. The median age of unpaid farmworkers was 31 years and only 24 years for hired farmworkers.
- While the majority of hired farmworkers in each group were male, unpaid farmworkers were the most likely to be female. Almost 37 percent of the unpaid farmworkers were female, compared with 22 percent of the hired farmworkers, and 24 percent of the farm operators.
- Only about 6 percent of the unpaid farmworkers cited unpaid farmwork as their primary employment during the year, while 29 percent of the hired farmworkers cited hired farmworker and 42 percent of the farm operators cited operating a farm as their primary employment in 1985.

Despite differences in basic characteristics among the three groups, they all shared one important characteristic—a large percentage of workers were engaged in nonfarmwork. Over 45 percent of both the hired farmworkers and farm operators, and 69 percent of the unpaid farmworkers, did some nonfarmwork in 1985.

Nonfarmwork was an important source of earnings for all three groups, but farm operators and unpaid farmworkers had higher average earnings from nonfarmwork than did hired farmworkers. Farm operators who had nonfarm jobs earned an average \$10,722 in 1985 in nonfarm earnings. Unpaid farmworkers who did nonfarmwork had about the same amount of earnings from nonfarmwork (\$10,052), but hired workers who did nonfarmwork earned only an average of \$5,569 from nonfarmwork. Part of the group difference in nonfarm earnings is due to farm operators and unpaid workers working more days at nonfarmwork than hired workers; farm operators who had nonfarm jobs averaged 211 days, unpaid workers averaged 201 days, and hired workers averaged 140 days. But some of the difference is because hired workers earned less per day than did farm operators and unpaid workers. On average, hired workers earned about \$40 per day of nonfarmwork, while farm operators and unpaid workers earned about \$50 per day.

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Appendix I: Statistical Tables

Appendix table 1-Number of hired farmworkers by days of farmwork¹

		Days of hired farmwork				
Year	Fewer than 25	25–74	75–149	150–249	250 and over	
			Thousands			
1000	NA	NA	NA	NA	NA	
1950	1,118	925	379	301	551	
1951	1,110	928	324	296	424	
1952	1,008				_	
1953	1 101	— 756	318	364	470	
1954	1,101	/30	310			
1955			440	305	443	
1956	1,497	920	410	305	399	
1957	1,762	1,044	501	256	NA	
1958	1,893	NA	NA	NA 246		
1959	1,412	863	502	348	452	
1960	1,531	868	465	390	438	
1961	1,600	849	354	281	404	
1901	1,555	933	408	284	442	
1962	1,735	771	392	309	390	
1963 1964	1,369	924	413	326	338	
1904	1,303	724				
1965	1,264	807	397	282	379	
1966	1,130	717	339	211	367	
1967	1,338	738	327	277	397	
1968	1,299	731	308	256	324	
1969	1,106	731 718	258	189	301	
1707	1,100	, 10				
19 <i>7</i> 0	1,093	623	293	172	306	
1971	1,191	648	213	213	285	
1972	1,130	663	361	288	367	
1973	1,085	567	351	247	421	
1974	1,169	619	308	274	367	
	i	rr.	319	228	355	
1975	1,180	556	347	290	333	
1976	1,145	652	322	295	391	
1977	1,056	667	322	293	-	
1978			323	335	423	
1979	898	672	323	333	743	
1980	_	_	-	_	_	
1981	969	538	310	281	394	
1982	-	_	-		-	
1983	973	491	397	386	349	
1984	-	_	_	· -	_	
1985	943	509	280	344	445	



^{— =} No survey conducted.

NA = Not available.

Data are rounded to nearest thousand

Appendix table 2—Demographic and employment characteristics of all hired farmworkers and those who did farmwork only, by average number of days worked and earnings, 1985

Classes to	Number	Farm and	Hired far	mworkers	Workers	who did farmy	vork only
Characteristic	of workers	nonfarm earnings	Days worked	Annual earnings	Number of workers	Days worked	Annual earnings
	Thousands	Dollars	Number	Dollars	Thousands	Number	Dollars
All workers	2,522	5,826	107	3,247	1,354	148	4,702
Racial/ethnic group:							
White	1,922	6,015	101	3,018	920	145	4,572
Hispanic	326	5,563	145	4,795	245	1 <i>7</i> 3	5,804
Black and other	274	4,812	104	3,008	189	131	3,906
Sex:							
Male	1,980	6,399	114	3,642	1,081	161	5,292
Female	542	3,733	79	1,801	273	98	2,367
Age (years):	1						
14-17	552	1,092	48	743	354	49	693
18-24	739	5,243	99	2,666	302	159	4,691
25–34 35–44	601	9,201	124	4,268	268	205	7,219
45-54	260 185	8,367	139	4,736	144	193	6,910
55–64	110	7,666 7,084	170	6,269	135	201	7,543
65 and older	75	4,186	169 119	5,280 3,626	85 65	196 130	6,060 3,602
Days ot farmwork:				,		.50	3,002
Fewer than 25	943	4,131	10	222	2.4=		
25-74	509	4,041	45	232 1,201	347 229	10	210
75-149	280	5,6 <i>7</i> 9	106	2,810	129	45 106	1,283 2,720
150-249	344	7,215	198	6,259	262	200	6,438
250 and over	445	10,474	313	9,917	386	312	10,260
Primary employment							
status:							
Hired farmwork	723	8,395	241	8,033	616	250	8,469
Farm operator	127	7,048	131	5,331	82	136	5,416
Unpaid farmworker	21	2	2	2	4	2	2
Nonfarmwork Unemployed	560	10,466	41	1,083	0	0	0
Keeping house	100 159	2,219 1,938	48	1,337	55	63	1,877
Attending school	718	1,272	53 48	1,450	101	61	1,452
Other	114	2,883	55	731 1,516	418 <i>7</i> 8	52 50	<i>77</i> 9 1, 5 63
Migratory status:				•	-	- •	.,505
Migrant	159	5,692	95	2,588	E 7	100	2.422
Nonmigrant	2,363	5,835	108	3,291	57 1,297	109 150	3,423 4,758
Years of education completed by workers 25 years and older:					,		.,, 50
0-4	96	5,782	182	5,549	90	192	E 0.73
5–8	213	5,946	154	4,878	164	180	5,872 5,545
9–11	188	6,719	145	4,214	113	193	5,730
12	497	9,205	124	4,526	238	195	7,628
13 and over	236	10,799	130	5,048	93	214	8,642

¹ Numbers may not add to totals due to round...g. ² Averages not shown when base is fewer than 50,000.

Appendix table 3—Demographic and employment characteristics of hired farmworkers who did both farmwork and nonfarmwork, by average number of days worked and earnings, 1985¹

	Number	Farm and	Hired fa	armwork	Nonfai	mwork
Characteristic	of workers	nonfarm earnings	Days worked	Annual earnings	Days worked	Annual earnings
	Thousands	Dollars	Numbei	Dollars	Number	Dollars
All workers	1,168	7,129	59	1,560	140	5,568
Racial/ethnic group:				4 700	4.40	F - 4 -
White	1,002	7,340	60	1,592	142 96	5,747
Hispanic	81	4,836	6! 43	1,749 1,003	96 150	3,086 5,830
Black and other	85	6,833	43	1,003	150	3,030
Sex:				1.661	1.42	(0(7
Male _	900	7,727	59	1,661	143	6,067
Female	268	5,123	59	1,224	128	3,899
Age (years):						0.70
14–17	198	1,805	46	833	66	972
18-24	437	5,625	\$7 50	1,267	139	4,358
25–34	333	10,799	59 <i>7</i> 1	1,890 2,022	176 157	8,909 8,163
35–44	116 50	10,185 7,998	88	2,022 2,807	152	5,191
45–54 55–64	25	7,990	20	2,007	132	3,131
65 and older	10	2	2	2	2	2
Days of farmwork:						
Fewer than 25	596	6,416	9	245	151	6,171
25–74	280	6,303	45	1,133	137	5,1 <i>7</i> 0
75 – 149	151	8,202	106	2,887	13 <i>7</i>	5,316
150-249	82	9,713	194	5,684	98	4,029
250 and over	60	11,860	317	7,697	105	4,163
Primary employment status:	i					
Hired farmwork	108	7,974	191	5,541	70	2,433
Farm operator	45	2	2	2	2 2	2
Unpaid farmworkers	17	2	2	1 002		
Nonfarmwork	560	10,466	41	1,083	204	9,383
Unemployed	45	2.700	40	1,446	64	1,353
Keeping house	57 300	2,799 1,958	40 42	664	76	1,294
Attending school Other	36	1,930	2	2	, ,	1,254
A47						
Migratory status: Migrant	102	6,968	87	2,118	133	4,850
Nonmigrant	1,067	7,144	56	1,507	140	5,637
•						
Years of education completed by workers 25 years and older:						
0–4	6	2	2	2	2	2
5-8	49	2	2	2	2	2
9–11	75	8,206	73	1,933	135	6,273
12	259	10,659	58	1,666	181	8,993
13 and over	144	12,192	76	2.727	179	9,465



¹ Numbers may not add to totals due to rounding. ² Averages not shown when base fewer than 50,000 workers

Appendix table 4—Demographic and employment characteristics of all hired farmworkers, by farm production .egion, 1985¹

	т				Farm 1	production	region				
Characteristic	United States	North- east	Lake States	Corn Belt	Northern Plains	Appala- chia	South- east	Delta States	Southern Plains	Moun- tain	Paci- fic
						Thousands					
All hired farmworkers	2,522	265	269	428	154	355	164	90	217	179	401
Racial/ethnic group: White Hispanic Black and other	1,922 326 274	249 6 10	262 7 1	421 3 4	149 1 4	251 2 102	72 31 61	55 0 35	108 96 13	132 45 1	224 135 42
Sex: Male Female	1,980 542	200 65	210 59	340 88	127 27	258 97	123 41	86 4	165 53	154 25	31 <i>7</i> 84
Age (years): 14-17 18-24 25-34 35-44 45-54 55-64 55 and over	552 739 601 260 185 110 75	72 56 64 27 21 12	78 78 58 26 12 7	115 136 101 31 17 13	32 46 38 19 7 5	66 109 87 34 28 14	27 36 33 31 24 11	14 24 28 8 4 10 2	30 72 56 11 22 19	32 62 39 23 10 8	84 120 96 51 39 11
Years of education completed by workers 25 years old and older: 0-4 5-8 9-11 12 13 and over	96 213 188 497 236	2 24 19 62 30	1 11 12 73 17	5 13 12 98 49	0 9 4 39 24	7 38 39 76 20	13 18 39 20 10	2 11 14 16 8	26 30 20 27	6 13 8 31 26	32 47 21 55 41
Days of farmwork: Fewer than 25 25–74 75–149 150–249 250 and over	943 509 280 344 445	92 51 21 29 73	97 60 31 33 50	221 .70 46 40 52	55 40 23 11 25	160 76 38 37 43	23 35 24 50 31	33 7 11 18 20	85 48 23 22 39	55 46 25 12 41	123 76 39 92 71
Migratory status: Migrant Nonmigrant	159 2,363	6 259	20 250	19 410	8 146	7 347	24 140	3 87	31 186	23 156	19 382
Nonfarm:vork: Did nonfarmwork Pid farmwork only	1,168 1,354	113 152	131 139	236 192	80 74	166 189	52 112	30 59	112 106	98 81	151 250
Primary employment status during year: Hired farmwork Operated farm Unpaid farmwork Nonfarmwork Unemployed Keeping house Attending school Other	723 127 21 560 100 159 718 114	85 10 0 57 8 11 85	59 14 1 74 6 11 88 16	84 33 8 104 10 25 156	35 18 3 34 3 6 50 4	66 12 2 94 22 41 87 30	78 8 2 18 8 9 34 7	38 2 0 22 6 1 !5	57 8 0 46 8 21 63 15	54 11 1 36 12 12 44 8	167 10 3 76 17 21 97
Agricultural activity: ² Grains Cotton Tobacc Other field crops Vegetables or melons Filts or tree nuts Horticulture specialty Beef cattle Dairy Other livestock Other	590 86 208 365 196 261 130 163 225 203 94	25 0 3 56 23 34 10 8 55 32 20	90 0 4 43 8 7 14 6 74 21	198 8 5 82 18 3 8 17 16	77 2 0 22 3 0 0 19 10 17 4	31 5 180 24 18 2 27 12 22 18	14 4 10 11 38 22 28 14 2	20 12 0 17 5 3 6 13 4 7	30 35 6 44 33 2 8 27 2 12	36 17 0 43 11 13 1 26 15	68 3 0 23 40 175 27 21 26 12 6

Data are rounded to nearest thousand.
Refers to the crop or livestock worked with most on the farm where respondent worked the greatest number of days in 1985.



Appendix table 5—Geographic distribution of all hired farmworkers and those who did farmwork only, by average number of days worked and earnings, 1985

		All hired farmworkers Farmworkers who did hired farmwork only					
Farm production	Number	Farm and	Farm	work		Davis	Annual
region	of workers	nonfarm earnings	Days worked	Annual earnings	Number of workers	Days worked	earnings
	Thousands	Dollars	Number	Dollars	Thousands	Number	Dollars
United States	2,522	5,826	107	3,247	1,354	148	4,702
Northeast Lake States Corn Belt Northern Plains Appalachia	265 269 428 154 355	6,460 6,002 5,409 5,985 5,024	131 114 79 96 85	3,455 3,137 2,339 3,033 2,300	152 139 192 74 189	170 162 124 146 112	4,669 4,809 3,651 4,881 3,209
Southeast Delta States Southern Plains Mountain Pacific	164 90 217 179 401	6,097 5,708 5,569 6,007 6,357	143 129 101 116 118	4,465 3,404 3,105 3,808 4,366	112 59 106 81 250	167 156 149 174 154	5,215 4,327 4,758 6,303 5,861

Appendix table 6—Geographic distribution of hired farmworkers who did both farmwork and nonfarmwork, by average number of days worked and earnings, 1985

	Number	Farm and	Farm	work	Nonfarmwork		
Farm production region	of workers	nonfarm earnings	Days worked	Annual earnings	Days worked	Annual earnings	
	Thousands	Dollars	Number	Dollars	Number	Dollars	
United States	1,168	7,129	59	1,560	140	5,568	
Northeast	113	8,872	77	1,822	158	7,050	
Lake States	131	7,266	63	1,367	153	5,900	
Com Belt	236	6,835	42	1,273	138	5,562	
Northern Plains	80	<i>7</i> ,003	49	1,328	141	5,675	
Appalachia	166	7,093	55	1,265	148	5,828	
Southeast	52	8,008	91	2,841	130	5,167	
Delta States	30	, ı	1	1	1	1	
Southern Plains	112	6,336	56	1,543	126	4,794	
Mountain	98	5,761	69	1,736	122	4,025	
Pacific	151	7,179	58	1,886	130	5,293	

^{&#}x27; Averages not shown when base is fewer than 50,000 workers



Appendix table 7—Annual total, farm, and nonfarm earnings of hard farmworkers, by farm production region, 19851

					Farm p	production	region				
Characteristic	United States	North- east	Lake States	Corn Belt	Northern Plains	Appala- chia	uth- east	Delta States	Southern Plains	Moun-	Paci- fic
						Thousands				1 1011	
All hired farmworkers	2,522	265	269	428	154	355	164	90	217	179	401
Annual total earnings, all hired farmworkers: Less than \$500 \$500-999 \$1,000-2,499 \$2,500-3,999 \$4,000-5,499 \$5,500-7,499	505 197 367 233 178 257	55 21 35 18 16 26	59 22 37 25 18 26	102 30 73 47 24 19	18 18 28 14 12	93 25 45 40 29	27 14 19 5 23	13 10 2 7 17	43 19 38 19	26 21 30 17 9	69 18 60 40 20
\$7,500-9,999 \$10,000 and over	240 544	34 61	23 58	32 101	11 35	33 32 57	.30 15 32	19 9 13	11 29 49	11 17 48	65 39
Annual farm earnings, all hired farmworkers: Less than \$500 \$500-999 \$1,000-2,499 \$2,500-3,999 \$4,000-5,499 \$5,500-7,499 \$7,500-9,999 \$10,000 and over	989 302 338 161 126 208 155 243	102 33 32 12 9 27 26 26	104 32 52 19 12 17 8 24	213 57 47 23 18 24 16 31	54 22 30 11 7 9 7	172 45 40 29 13 21 19	38 15 23 4 26 24 18	29 10 4 11 12 15 4 6	98 28 26 11 8 5 17 24	55 28 31 12 7 7 8 31	91 125 32 54 29 14 60 32 55
Annual nonfarm earn- ings, hired farmworkers who did nonfarmwork:											
Less than \$500 \$500–999 \$1,000–2,499 \$2,500–3,999 \$4,000–5,499 \$5,500–7,499 \$7,500–9,999 \$10,000 and over	213 132 211 128 80 59 76 269	21 8 19 9 10 7 6 32	22 16 25 9 12 7 8 32	56 36 27 23 7 9 11 67	12 10 15 7 4 8 5	18 7 40 21 16 15 8 41	9 9 11 4 6 0 3 10	1 3 4 3 2 6 4 7	22 9 25 13 10 2 12	22 15 22 8 6 3 8	29 19 24 30 7 3 12 28

¹ Numbers may not add to totals due to rounding



Appendix table 8—Demographic and employment characteristics of farm operators, by farm production region, 1985¹

		T			Farm	production	region				
Characteristic	United States	North- east	Lake States	Corn Belt	Northern Plains	Appala- chia	South- east	Delta States	Southern Plains	Moun- tain	Paci- fic
	States			1 00.1	, , , , , , ,	Thousands		1	<u>. </u>	<u></u>	<u> </u>
All farm operators	2,889	204	359	548	259	543	194	111	222	198	251
Racial/ethnic group: White Hispanic Black and other	2,789 30 70	197 6 2	358 0 1	545 3 0	256 2 1	517 0 26	181 2 11	109 0 2	209 4 9	180 12 6	238 1 12
Sex: Male Female	2,204	148 56	272 87	449 99	204 55	409 134	160 34	87 25	154 68	143 54	177 74
Age (years): 14-17 18-24 25-34 35-44 45-54 55-64 65 and older	35 128 505 656 623 609 333	1 7 40 41 51 43 22	4 9 110 85 49 61 41	3 19 79 101 125 160 61	1 10 61 39 44 66 38	7 34 74 155 105 99 68	10 12 29 46 48 29 21	0 5 21 19 30 25	4 13 26 40 67 53 20	4 15 31 53 42 35 19	2 5 35 77 62 39 31
Years of education completed by workers 25 years old and older: 0-4 5-8 9-11 12 13 and over	18 352 283 1,135 938	0 22 33 89 51	1 48 29 161 106	5 53 57 267 144	1 37 21 114 76	7 110 71 191 122	0 21 21 66 65	1 15 6 48 36	2 19 9 88 88	1 13 18 55 92	0 13 18 56 158
Days of farmwork: Fewer than 25 25–74 75–149 150–249 250 and over	310 345 266 297 1,671	15 23 12 20 134	33 29 33 26 239	41 35 50 56 364	25 23 25 23 163	63 94 43 73 270	18 29 14 36 97	21 8 14 10 58	20 48 18 14 122	28 26 17 21 105	44 30 39 19 119
Nonfarmwork: Did nonfarmwork Did farmwork only	1,381 1,508	100 104	140 219	229 319	103 157	296 246	111 83	53 58	143 79	89 109	11 <i>7</i> 134
Primary employment status during year: Hired farmwork Operated farm Unpaid farmwork Nonfarmwork Unemployed Keeping house Attending school Other	62 1,211 47 1,048 20 296 73 132	8 85 2 75 0 21 5	9 186 3 108 0 38 3	11 280 17 165 4 40 7 24	6 144 6 56 3 24 7	10 168 8 239 9 70 11 27	2 54 0 98 0 16 15	3 41 1 46 0 10 2	4 64 6 122 0 19 6	5 94 1 51 2 27 9 8	2 95 2 89 2 30 8 23
Agricultural activity: ² Grains Cotton Tobacco Other field crops Vegetables or melons Fruits or tree nuts Horticulture specialty Beef cattle Dairy Other livestock Other	741 32 230 183 117 105 69 662 288 353 108	19 0 3 15 5 6 10 23 54 47 23	120 2 3 27 14 0 3 21 121 42 6	248 2 6 23 9 2 7 115 51 75	124 0 2 18 1 0 1 63 15 30 4	68 6 206 17 42 6 9 104 29 45	28 0 7 10 16 10 10 66 0 39	18 2 1 6 6 1 0 51 5 9	33 13 2 16 12 0 7 110 2 15	57 6 0 25 4 6 4 61 4 26 4	26 0 0 27 8 75 17 49 7 26

Data are rounded to the nearest thousand. Refers to the crop or livestock that contributed most to the gross sales on the farm.



Appendix table 9—Demographic and employment characteristics of farm operators who did nonfarmwork by average number of nonfarmwork days worked and earnings, 1985'

	Number	Nonfarmwork		
Characteristic	of workers	Days worked	Annual earnings	
	Thousands	Number	Dollars	
All workers	1,381	211	10,722	
Age (years):				
14–17	1 11	2	2	
18–24	63	163	7,418	
25–34	266	210	11,117	
35–44	404	218	12,254	
45–54	340	217	9,800	
55-64	252	214	10,943	
65 and older	45	2	10,5 15	
Sex:				
Male	1,084	218	11,431	
Female	297	187	8,135	
Days of farmwork:				
Fewer than 25	219	217	10,666	
25–74	237	223	11,463	
75–149	178	210	11,864	
150-249	179	192	9,333	
250 and over	567	210	10,504	
Primary employment status:	1			
Hired farmwork	13	2	2	
Operated farm	194	116	4,709	
Unpaid farmwork	19	2	1,703	
Nonfarmwork	1,048	240	12,596	
Unemployed	4	2	2	
Keeping house	49	2	2	
Attending school	21	2	2	
Other	.33	2	2	
Years of education completed by				
workers 25 years and older:	i			
0-4	6	2	2	
5-8	110	228	10,983	
9–11 12	134	210	10,785	
13 and over	522	213	11,093	
Numbers may not add to totals due to rounding	533	213	10,761	

Appendix table 10—Geographic distribution of farm Operators who did nonfarmwork, by average number of nonfarmwork days worked and earnings, 1985

		Nonfarmwork	
Farm production region	Number of workers	Days worked	Annual earnings
	Thousands	Number	Dollars
United States	1,381	211	10,722
Northeast	100	214	10,653
Lake States	140	202	9,976
Combelt	229	213	10,825
Northern Plains	103	173	8,744
Appalachia	296	218	11,413
Southeast	111	226	11,775
Delta States	53	232	13,457
outhern Plains	143	219	10,119
1ountain	89	184	9,892
Pacific	117	219	10,577



¹ Numbers may not add to totals due to rounding.
² Averages not shown when base is fewer than 50,000 workers.

Appendix table 11—Demographic and employment characteristics of unpaid farmworkers, by farm production region, 1985'

						production				T: -	
Characteristic	United States	North- east	Lake States	Corn Belt	Northern Plains	Appala- chia	South- east	Delta States	Southern Plains	Moun- tain	Paci- fic
	5.005	1		L.	<u>. </u>	Thousands					
All unpaid farmworkers	3,777	399	493	860	309	549	160	113	311	245	338
Racial/ethnic group: White Hispanic Black and other	3,597 44 135	379 7 12	487 0 6	853 0 7	299 2 7	526 0 23	140 2 18	106 0 7	283 11 17	220 13 12	304 9 25
Sex: Male Female	2,388 1,389	258 141	303 190	559 301	187 122	338 211	95 65	81 31	219 92	164 81	184 155
Age (years): 14-17 18-24 25-34 35-44 45-54 55-64 65 and older	364 769 1,136 682 353 271 201	42 76 138 74 36 20 14	39 87 168 103 36 28 31	91 193 232 134 81 77 52	30 64 88 48 22 31 25	47 116 150 112 74 29 21	16 41 39 27 12 14	12 19 39 15 15 6	29 56 118 47 32 17	28 55 64 44 25 24 6	29 64 100 79 19 26 22
Years of education completed by workers 25 years old and older: 0-4 5-8 9-11 12 13 and over	12 195 220 1,164 1,054	2 10 19 115 135	1 32 27 175 132	2 44 59 316 156	0 21 13 93 88	4 41 42 188 113	2 11 12 36 41	1 7 6 33 35	0 12 18 71 124	0 5 9 58 90	0 13 14 77 141
Days of unpaid farmwork: Fewer than 5 5-14 15-24 25-99 100 and over	1,048 1,039 340 682 668	149 90 40 62 58	154 125 49 78 87	210 215 57 176 202	59 94 24 68 63	130 135 74 114 97	36 46 5 38 35	27 30 12 21 24	103 102 44 31 31	81 77 17 40 30	98 127 19 54 40
Nonfarmwork: Did nonfarmwork Did farmwork only	2,606 1,171	302 96	333 160	556 305	186 122	399 150	115 45	69 44	240 71	176 69	22 9 109
Primary employment status during year. Hired farmwork Operated farm Unpaid farmwork Nonfarmwork Unemployed Keeping house Attending school Other	74 197 208 1,912 45 529 624 187	10 10 9 243 5 40 67 16	13 27 21 253 3 74 69 33	15 40 70 377 14 140 164 41	7 40 22 121 3 48 49	5 30 25 310 5 75 83 18	6 9 13 63 0 22 29 18	1 5 8 62 0 11 21 6	2 11 11 198 4 24 49	5 16 8 118 6 36 43 13	11 11 20 169 6 59 51
Agricultural activity: ² Grains Cotton Tobacco Other field crops Vegetables or melons Fruits or tree nuts Horticulture specialty Beef cattle Dairy Other livestock Other	792 34 167 545 251 133 60 811 358 466 159	37 1 6 78 35 27 17 38 78 55 27	133 0 7 65 29 15 3 33 138 47 24	289 10 5 129 33 8 6 162 68 126 25	126 0 0 24 4 1 2 95 16 35 5	54 0 145 82 63 5 6 111 15 44 23	18 2 2 7 29 6 8 38 2 29 19	9 1 1 17 15 1 0 43 1 23 2	32 9 1 42 25 8 8 132 2 27 23	44 0 0 48 14 12 0 84 5 31 6	50 11 0 54 4 50 8 76 32 47 5

¹ Numbers may not add to totals due to rounding.
² Refers to the crop or livestock worked with the most on the longest unpead farm job



Appendix table 12—Demographic and employment characteristics of unpaid workers who did nonfarmwork, by average number of nonfarmwork days worked and earnings, 1985

	Number	Nonfa	rmwork
Characteristic	of	Days	Annual
	workers	worked	earnings
	Thousands	Number	Dollars
All workers	2,606	201	10,052
Age (years):			
14-17	130	65	933
18-24	633	180	7,247
25-34	926	223	12,225
35-44	540	222	12,509
45-54	217	202	8,933
55-64	126	202	10,684
65 and older	34	2	2
Sex:			
Male	1,749	214	11,375
Female	85 <i>7</i>	174	7,353
Days of farmwork:	1		
Fewer than 25	1,847	208	10,527
25-74	380	194	9,504
<i>7</i> 5–149	170	171	8,172
150-249	89	156	6,873
250 and over	120	183	9,505
Primary employment			
status:			
Hired farmwork	35	2	2
Operated farm	46	2	2
Unpaid farmwork	66	155	7,710
Nonfarmwork	1,912	234	12,500
Unemployed	22	2	2
Keeping house	137	93	1,985
Attending school	325	97	1,951
Other	64	173	8,503
Years of education			
completed by workers			
25 years and older.			
0-4	2	2	2
5–8	55	179	8,210
9–11	137	193	9,057
12	803	216	11,549
13 and over	845	255	12,419

¹ Numbers may not add to totals due to rounding. ² Averages not shown when base is fewer than 50,000 workers

Appendix table 13—Geographic distribution of unpaid workers who did nonfarmwork, by average number of nonfarmwork days worked and earnings, 1985

		Nonfarmwork	
Farm production region	Number of workers	Days worked	Annual earnings
	Thousands	Number	Dollars
United States	2,606	201	10,052
Northeast	302	216	11,085
Lake States	333	203	10,229
Corn Belt	556	189	9,474
Northern Plains	186	190	9,075
Appalachia	399	211	10,603
Southeast	115	185	7,556
Delta States	69	229	11,501
Southern Plains	240	205	10,610
Mountain	1 <i>7</i> 6	196	9,524
Pacific	229	193	10,307

1 Numbers may not add to totals due to rounding.

Appendix II: Source and Reliability of Estimates

Estimates in this report are based on data obtained in December 1985 from supplementary questions in the CPS of the Bureau of the Census.

Sampling Procedures and Questionnaire Design

The CPS sample was initially selected from 1980 census files and is updated periodically to reflect new home construction. This sample includes 729 areas comprising 1,973 counties, independent cities, and minor civil divisions in each State and the District of Columbia, but excludes Puerto Rico and other U.S. territories and possessions. Trained interviewers collected the information from approximately 59,500 U.S. households. The supplementary questions on the December survey were asked of persons 14 years of age and older who did farmwork (including hired farmworkers, farm operators, and unpaid farmworkers) during 1985. Questions concerned the number of days of farmwork, migratory status of hired farmworkers, hired nonfarmwork and wages, principal employment status in 1985, residence, and other matters. Persons who did farmwork during 1985 but who died, entered the armed forces, or were no longer in the civilian noninstitutional population for other reasons were not included. Also, foreign nationals who did farmwork in this country and returned to their homes before the field collection were not included.

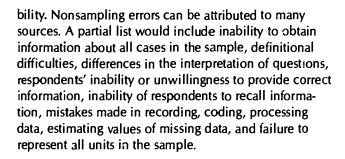
The estimating procedure used for the CPS data involves the expansion of the sample results to independent estimates of the U.S. civilian noninstitutional population by age, race, and sex. These independent estimates are based on statistics from the 1980 Census of Population; statistics on births, deaths, immigration, and emigration; and statistics on the number of people in the armed forces.

Reliability of the Estimates

Since the CPS estimates in this report are based on a sample, they may differ somewhat from the figures that would have been obtained from a complete census using the same schedules, instructions, and enumerators. There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling standard errors are provided for data in this report, but the extent of nonsampling error is unknown. Consequently, particular care should be exercised in the interpretation of figures based on a relatively small number of cases or on small differences among estimates.

Nonsampling Variability

As in any survey work, results are subject to errors of response and nonreporting in addition to sampling varia-



Undercoverage in the CPS results from missed housing units and missed persons within sampled households. Overall undercoverage, as compared with the level of the 1980 decennial census, is about 7 percent. C S undercoverage varies with age, sex, and race. Undercoverage is generally larger for males than females and for blacks and other races than for whites. Ratio estimation to independent age-sex-race population controls partially corrects for the bias due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Sampling Variability

Since the size of most nonsampling errors is unknown, the reliability of an estimate is described only in terms of standard errors. These are primarily measures of sampling variability; that is, the variations that might occur by chance because a sample, rather than the whole of the population, is surveyed. As calculated for this report, the standard error also partially measures the effect of certain response and enumeration errors, but it does not measure any systematic biases in the data. The chances are about 68 out of 100 that an estimate from the sample would differ from a complete census figure by less than the standard error. The chances are about 90 out of 100 that this difference would be less than 1.6 times the standard error, and the chances are about 95 out of 100 that the difference would be 1.96 times the standard error.

Comparability With Other Data

Data obtained from the CPS are not entirely comparable with data obtained from other governmental sources. This is due in large part to differences in survey processes. Therefore, caution should be used when comparing data in this report with data from other sources.

Standard Error Tables and Their Use

Appendix tables 14–17 provide approximations of standard errors of various estimates shown in this report for



data on total, white, and black and other farmworkers (including hired farmworkers, farm operators, and unpaid farmworkers). To obtain standard errors for workers of Hispanic origin, multiply the standard error in appendix tables 14–17 by 1.4.

Standard errors for values not shown in the standard errors tables may be calculated by using formulas (1), (2), or (3) as appropriate or approximated by interpolation. To derive standard errors that would be applicable to a wide variety of items and could be prepared at a moderate cost, a number of approximations were required. The tables of standard errors (along with the factor for persons of Hispanic origin) thus indicate the size of the standard errors rather than the precise standard error for any specific item.

Standard Errors of Estimated Numbers

Appendix table 14 shows standard errors, σ_x for estimated numbers of farmworkers. Linear interpolation may be used to obtain standard errors for intermediate values not shown in the tables.

Alternately, standard errors can be calculated using the following formula (1), which was used to compute the tabular standard errors. Direct computation will give more accurate results than linear interpolation.

$$\sigma_x = c \sqrt{ax^2 + bx}, \tag{1}$$

where x is the actual size of the estimate (not rounded to thousands); a is 0.000489; b is 4,859; and c is 1.0 for total, white, or black and other persons, and 1.4 for persons of Hispanic origin. Formula (1) is used to calculate standard errors for estimated numbers of farmworkers only.

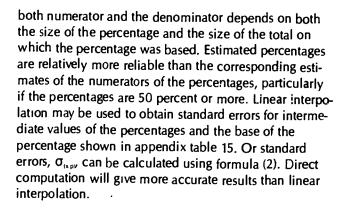
Standard Errors of Estimated Percentages

Appendix table 15 shows standard errors of estimated percentages of farmworkers. The reliability of an estimated percentage computed by using sample data for

Appendix table 14—Standard errors for estimated numbers of farmworkers (68 chances out of 100)

Size of estimate	Standard error
Thou	ısands
10	7
25	11
50	16
100	22
250	35
500	51
1,000	73
2,500	123
3,000	138

Note: To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.



$$\sigma_{(x,p)} = c \sqrt{\frac{b}{x} p (100-p)},$$
 (2)

where x is the actual size (not rounded to thousands) of the subclass of the population which is the base of the percentage; p is the percentage ($0 \le p \le 100$); b is 4,859; and c is 1.0 for total, white, or black and other persons, and 1.4 for persons of Hispanic origin. Formula (2) is used to calculate standard errors for estimated percentages of farmworkers only.

Standard Errors of Estimated Averages

Averages are subject to large sampling variability since the sample estimates of an average are affected by extreme values. Appendix table 16 shows standard errors of average numbers of days worked, and appendix table 17 shows standard errors of average annual earnings. Linear interpolation may be used to obtain standard errors for intermediate values not shown.

Illustration of Use of Standard Error Tables

Table 3 of this report shows that 1,980,000 males performed hired farmwork in 1985. Interpolation of data in appendix table 14 shows the standard error for an estimate of this size to be approximately 106,000. Thus, the chances are 68 out of 100 that the estimate would have been a figure differing from a complete census figure by less than 106,000. The chances are 95 out of 100 that the estimate would have differed from a complete census figure by less than 208,000 (1.96 times the standard error).

Appendix table 1 shows that 37 percent of the farmworkers worked fewer than 25 days. Interpolation in appendix table 15 indicates that the standard error for 37 percent of a base of 2,522,000 would be approximately 2.1 percent. Consequently, chances are 68 out of 100 that the estimated 37 percent would have differed from a complete census figure by less than 2.1 percent; the chances are 95 out of 100 that the estimate would have differed from a complete census figure by less than 4.1 percent. For example, the 95-percent confidence interval would be from 32.9 to 41.1 percent.

Appendix table 15-Standard errors for estimated percentages of farmworkers (68 chances out of 100)

Base of percentage (thousands)	Estimated percentages										
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	25 or 75	35 or 65	50			
				Per	cent						
25	4.4	6.2	9.6	13.2	15.7	19.1	21.0	22.0			
50	3 1	4 4	6.8	9.4	11.1	13.5	14.9	15.6			
75	2.5	3.6	5.6	7.6	9.1	11.0	12.1	12.7			
100	2.2	3.1	4.8	6.6	<i>7</i> .9	9.5	10.5	11.0			
250	1.4	2.0	3 0	4.2	5.0	6.0	6.7	7.0			
500	1.0	1.4	2.2	3.0	3.5	4.3	4.7	4.9			
75 0	.8	1.1	1.8	2.4	2.9	3.5	3.8	4.0			
1,000	.7	1.0	1.5	2.1	2.5	3.0	3.3	3.5			
2,500	.4	.6	1.0	1.3	1.6	1.9	2.1	2.2			
3,000	.4	.6	.9	1.2	1.4	1.7	1.9	2.0			

Note: To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

Appendix table 16—Standard errors of average number of days worked (68 chances out of 100)

Base of average number of farm workers (thousands)	Average number of days worked per year per person											
	10	25	50	75	100	125	150	200	250	300		
	Number											
50 100 200 250	4.5 3.3 2.4 2.0	7.5 5.3 3.8 3.5	11.1 8.0 5.9 5.3	14.1 10.3 7.7 7.0	17.1 12.4 9.4 8.7	19.8 14.6 11.1 10.2	22.4 16.6 12.7 11.8	27.6 20.6 15.9 14.8	32.5 24.4 19.1 17.9	37.5 18.2 22.3 20.8		
500 750 1,000 2,500 3,000	1.5 1.2 1.1 .8 .8	2.6 2.3 2.0 1.6 1.5	4.2 3.6 3.4 2.8 2.7	5.5 4.9 4.6 4.0 3.8	6.9 6.2 5.9 5.2 5.1	8.2 7.6 7.1 6.3 6.2	9.6 8.8 8.4 7.6 7.5	12.3 11.4 10.8 9.9 9.8	15.0 13.9 13.4 12.3 12.2	17.7 16.5 15.9 14.7 14.6		

Note: To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

Appendix table 17-Standard errors of average annual earnings (68 chances out of 100)

Base of average number of farm workers (thousands)	Average annual earnings per person											
	100	250	500	750	1,000	2,000	3,000	4,000	5,000	6,000	7,000	9,000
	Dollars											
50	15	38	78	158	216	400	539	672	803	932	1,062	1,374
100	11	29	60	114	156	288	390	484	5 <i>77</i>	670	764	9 88
200	9	24	49	88	121	223	301	344	428	497	565	731
250	8	21	43	76	103	190	257	320	383	445	50 <i>7</i>	679
500	7	17	36	62	86	160	211	260	30 <i>7</i>	355	402	520
750	7	17	36	58	79	144	189	232	268	310	350	453
1,000	6	16	35	53	71	125	165	203	241	279	318	409
2,500	5	12	26	41	54	96	128	160	191	223	253	327
3,000	5	12	25	40	51	92	122	154	184	214	244	314

Note: To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.



Standard Error of a Difference

For a difference between two sample estimates, the standard error is approximately equal to the square root of the sum of the squared standard errors of the estimates. The estimate can be of numbers, percentages, or averages. The method will represent the actual standard error quite accurately for the difference between two estimates of the same characteristics in two different areas, or for the difference between separate and uncorrelated characteristics in the same area. If, however, there is a high positive correlation between the two characteristics, the formula will overestimate the true standard error.

Illustration of the Computation of the Standard Error of a Difference

Appendix table 1 shows that almost 18 percent of farmworkers worked 250 days and over. The apparent difference between the workers who worked fewer than 25 days (37 percent) and those who worked 250 days or more is 19 percentage points.

Appendix table 15 shows, by interpolation, the standard error for 18 percent on a base of 2,522,000 to be approximately 1.7 percent (σ_x) . The standard error for 37 percent is 2.1 percent (σ_y) . To get the standard error of the estimated difference, formula (3) for the standard error of a difference is used follows:

$$\sigma_{(x-y)} = \sqrt{\sigma_x^2 + \sigma_y^2}.$$
 (3)

Therefore, the standard error of the estimated difference is

$$2.7 = \sqrt{(1.7)^2 + (2.1)^2}.$$
 (4)

This means the chances are 68 out of 100 that the estimated differences based on the sample would vary by 2.7 percentage points from the difference derived using complete census figures. Since the standard error of the estimated difference (2.7 percentage points) is less than the difference between the two estimates (19 percentage points), it can be concluded with 68-percent confidence that the percentage of hired farmworkers who worked fewer than 25 days in 1985 is greater than the percentage of workers who worked 250 days and over in 1985.



Appendix III: Definitions and Explanations

Hired Farmworkers: Persons 14 years and older in the civilian noninstitutional U.S. population at the time of the survey who did any farmwork for cash wages or salary at any time in the year, even if only for one day. Farmwork for cash wages or salary includes: (1) work done on any farm for cash wages or salary in connection with the producing, harvesting, threshing, preparing for market, or delivery to market of agricultural products; (2) work done off the farm for a farmer by farmworkers, such as trips to buy feed, seeds, or fertilizer, or to handle other matters involved in running the farm business; (3) repairs of farm buildings and machinery, for example, performed by a hired farmworker when done along with the type of work specified in (1) and (2) above; and (4) managing a farm enterprise for cash salary.

Not included as farmwork for cash wages or salary are: (1) work performed by farm operators on their own farm, or "exchange" work between farmers; (2) work done exclusively for "pay in kind"; (3) work done without pay on a farm (a small regular cash allowance is not considered farm wages, see definition of unpaid farmworker); (4) nonfarmwork performed on a farm, such as the building of a farm structure, drilling a well, hauling agricultural products to market by commercial truckers, or domestic service in the home of a farmer; and (5) custom work such as spraying, threshing, and combining when a person is paid a combined rate for the use of equipment and labor.

Farm Operators: Persons 14 years and older in the civilian noninstitutional population of the United States at the time of the survey who operated a farm, ranch, nursery, or other agricultural enterprise which they owned, rented, or leased at any time during the year. Thus, farm operators include: (1) farmers who own and work their own incorporated or unincorporated farms, (2) sharecroppers who do farmwork and receive a share of the crop or a share of the value of the crop, (3) tenant farmers who rent farmland from someone else and pay rent either in cash or shares of agricultural products, and (4) other persons who rent or lease land for the purpose of agricultural production. Farm property owners who lease or rent their land, but are not actively involved in the day-to-day operation of the farm, are not counted as farm operators. The number of farm operators includes all persons who said they operated a farm during the year. This number may be greater than the number of farms since there may be more than one farm operator per farm household.

Unpaid Farmworkers: Persons, other than farm operators, 14 years and older in the civilian noninstitutional population of the United States at the time of the survey who worked on a farm, ranch, or nursery without receiving

cash wages or salary. Work done for a "token" cash allowance or work done for room and board or pay in kind if the worker does not receive cash wages or salary are defined as unpaid farmwork.

Work Classifications: Casual workers—persons who worked fewer than 25 days at farmwork during the calendar year. Seasonal workers—persons who worked 25–149 days. Regular workers—persons who worked 150–249 days. Year-round workers—persons who worked 250 days or more.

Days of Farmwork or Nonfarmwork: Days on which farmwork or nonfarmwork was reported. The work may have been for all or only part of a day.

Earnings from Farmwork and Nonfarmwork: Total cash wages or salary received for farmwork or for nonfarmwork. Estimates of earnings do not include the value of perquisites received in connection with farmwork nor the value of fringe benefits received in connection with nonfarmwork. Self-employment income from either farm or nonfarm businesses and profits from either farm or nonfarm businesses are not included in estimates of earnings.

Primary Employment Status During Year (termed "chief activity" in reports prior to 1976): Information on the primary amployment status of hired farmworkers during the year was derived from the question, "What was doing most of 1985—working, keeping house, going to school, or something else?" If the initial response was "working," the kind of work the person was doing most of the year was determined. "Hired farmwork" was recorded if most of a person's work was farmwork for cash wages or salary. "Operating a farm" was recorded if most of a person's working time was spent operating a farm (as an owner, tenant, or sharecropper). "Unpaid farmworker" was recorded if most of a person's working time was spent doing unpaid farmwork. "Nonfarmwork" was recorded if most of a person's working time was spent operating a nonfarm business, in a profession, working without pay in a nonfarm business, or working for wages or salary (or pay in kind) in any nonfarm activity (such as manufacturing, trade, construction, and domestic services). For the person who did not report "working" as the primary activity, information was obtained on what he or she was doing most of the year. "Looking for worl" (unemployed) was reported for a person who spent most of the time without employment but was actively looking for a job. "Keeping house" was reported for a person who spent most of the time doing housework without pay. "Going to school" was reported for a person who spent most of the time during the year attending school. The category "other" was reported for a person who spent most of the time at some activity other than named above.



Major Crop or Livestock Activity: Information on crop or livestock activity of hired farmworkers and unpaid farmworkers was derived from the question, "What crop or livestock did ______ work with most on the farm where he or she worked the greatest number of days in 1985?" Information obtained from farm operators was based on the question: "What product contributed most to the gross value of sales on the farm which _____ operated?" Categories of response included grains, to-bacco, cotton, other field crops, vegetables or melons, fruits or tree nuts, beef cattle, dairy, other livestock, horticultural specialty crops, and other.

Migratory Status: Migratory workers are hired farmworkers who (1) left their home temporarily overnight to do hired farmwork in a different county within the same State or in a different State with the expectation of eventually returning home, or (2) had no usual place of residence and did hired farmwork in two or more counties during the year. Nonmigratory hired farmworkers are those who (1) did all their hired farmwork for the year in the same county in which they lived, (2) made a permanent move from one county to another during the year (even if they did hired farmwork in both counties), or (3) commuted daily across the county or State line to work and returned home each night.

Age: Based on the person's age at last birthday.

Education Completed: Refers to the highest grade of school completed by the person. Questions on educational attainment apply only to progress in graded public, private, and parochial elementary and high schools, whether day schools or night schools. Thus, schooling is that which may advance a person toward an elementary school certificate; a high school diploma; or a college, university, or professional school degree. Schooling

in other schools was counted only if the credits obtained were regarded as transferable to a school in the regular school system.

Racial/Ethnic Group: Refers to division of the population into three mutually exclusive groups-white, Hispanic, and black and other. "Ethnic origin" was determined for this report by asking respondents their origins or descent. The answer to this question may produce results somewhat different from results based on inferred ethnic identification using such characteristics as country of birth of the person or parents, language spoken in the home, or surname. "Hispanic" includes all Mexican, Mexicano, Puerto Rican, Cuban, Central or South American, or other Hispanic persons. "White" refers to white persons other than those of Hispanic origin. "Black and other" includes blacks and other groups such as Indians, Chinese, Japanese, and others not of Hispanic origin. For simplicity of presentation, these groups are termed white, Hispanic, and black and other.

Farm Production Region: The States included in each of the 10 farm production regions are as follows: Northeast-Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New York, New Jersey, Pennsylvania, Maryland, and Delaware (the District of Columbia is included in the Northeast region); Lake States-Minnesota, Wisconsin, and Michigan; Corn Belt-lowa, Missouri, Illinois, Indiana, and Ohio; Northern Plains-North Dakota, South Dakota, Nebraska, and Kansas; Appalachia—Virginia, West Virginia, Kentucky, Tennessee, and North Carolina; Southeast—South Carolina, Georgia, Alabama, and Florida; Delta States-Mississippi, Louisiana, and Arkansas; Southern Plains—Oklahoma and Texas; Mountain—Montana, ldaho, Wyoming, Nevada, Utah, Colorado, Arizona, and New Mexico; Pacific-Washington, Oregon, California, Hawaii, and Alaska.



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