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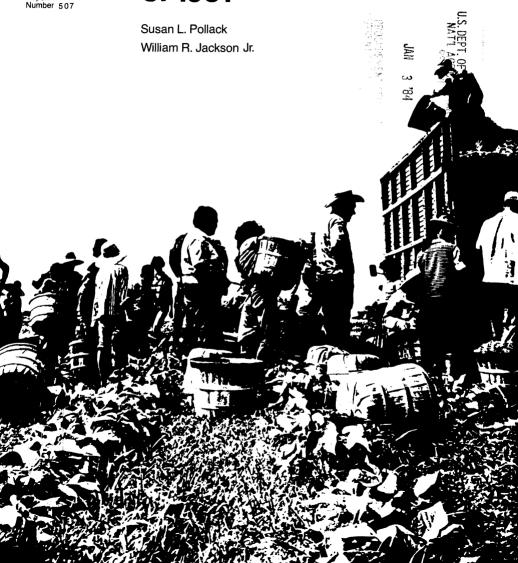
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Agricultural Economic Report

The Hired Farm Working Force of 1981



THE HIRED FARM WORKING FORCE OF 1981, by Susan L. Pollack and William R. Jackson Jr., Economic Development Division, Economic Research Service, U.S. Department of Agriculture. Agricultural Economic Report No. 507.

ABSTRACT

In 1981, approximately 2.5 million people 14 years of age and over did farmwork for cash wages and salary. The racial/ethnic composition of the work force was 73 percent white, 13 percent Hispanic, and 14 percent black and other. Fifty-five percent of the farmworkers were under 25 years old and 77 percent were male. At the time of the survey, more farmworkers resided in the South (40 percent) and North Central (28 percent) regions than in the Northeast and West. About four of five workers had nonfarm residences. The average annual earnings in 1981 were \$4,299, of which \$2,659 came from an average of 98 days of farmwork. Migrant workers accounted for only about 5 percent of all hired farmworkers.

Keywords: Hired farmworker, age, sex, racial/ethnic group, migrant, earnings, employment, education, Census Region, Standard Federal Region.

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HIGHLIGHTS

In 1981, approximately 2.5 million persons 14 years of age and over did hired farmwork, according to the recent Hired Farm Working Force Survey. Most of the workers were less than 25 years old (55 percent), white (73 percent), and male (77 percent). Hispanics made up 13 percent of the work force and blacks and others made up 14 percent. The median level of education for hired farmworkers was 11 years. Eighty-four percent lived at nonfarm residences.

All workers averaged 98 days of farmwork. Nearly three-quarters of farmworkers worked fewer than 150 days at farmwork. Regular and year-round workers made up only one-quarter of the work force but accounted for 73 percent of total days worked.

In 1981, hired farmworkers earned an average of \$4,299 from both farmwork and nonfarmwork. Only \$2,659 of this average was earned from farmwork.

Forty percent of the farmworkers were in the South at the time of the December 1981 survey. Twenty-eight percent of the workers were in the North-Central Region, followed by 24 percent in the West. Only 8 percent of the farmworkers were in the Northeast.

Only about 5 percent of the hired farmworkers (115,000) were migrant laborers in 1981, a decline from the percentage in recent years. Seventy-five percent of the migrants were white, 17 percent were Hispanic, and 8 percent were black and other. Over half of all migrants (53 percent) worked fewer than 75 days at farmwork. Migrants earned an annual average of \$3,995, and farmwork accounted for \$2,728 of that amount.

Half of the farmworkers were not in the labor force for most of the year. Those who were primarily hired farmworkers made up 28 percent of the hired farm working force. Those who were primarily nonfarmworkers made up 17 percent and had the highest average annual earnings (\$8,341) in 1981. Hispanics earned twice as much from farmwork (\$4,319) as did blacks and others (\$2,668) and whites (\$2,359).

Over the past 10 years, the number of farmworkers between the ages of 18 and 44 increased, and the number of younger workers 14 through 17 decreased. The number of days spent at farmwork increased from an average of 198 million worker-days in 1969-71 to 257 million in 1979-81.

The Hired Farm Working Force of 1981

Susan L. Pollack William R. Jackson Jr.

INTRODUCTION

About 2.5 million hired farmworkers earned cash wages or salary in 1981. According to the 1981 Hired Farm Working Force Survey, this was not significantly different from estimates in any year since 1968, when there were 2.9 million workers. Before 1968, there had been a long-term downward trend (table 1).

Through the 1960's, the migrant work force experienced a steady decline (table 2). Factors contributing to the decreased use of migrant labor included adoption of new technologies, changes in farm size, and new farm and farmworker programs. Since 1970, the number of migrant workers stabilized at around 200,000 and remained at that level until 1981. However, in 1981 the number of migrant farmworkers decreased by 47 percent to 115,000 from 217,000 only two years before.

Reasons for the decline in the number of migrants from 1979 to 1981 are not clear. One possible explanation is that the demand for migrant labor in agriculture has declined because of changing production levels and agricultural practices. However, an examination of various production data, including acres planted, acres harvested, value of production, and hours of labor required for various commodities in different regions did not provide conclusive evidence to support decreased labor demand. Also, information gathered from farm labor researchers in several States where migrants worked, as well as administrative data from Federal agencies servicing migrant farmworkers, did not generally support the idea of a diminishing need for migrant workers.

Another explanation for the decrease may be that farm operators are increasingly substituting illegal aliens for domestic farmworkers. The Hired Farm Working Force Survey probably enumerates few illegal workers, either because they have returned home before the time of the survey or because they avoid survey enumerators due to their illegal status. Therefore, an increased substitution of illegal workers for domestic laborers would appear as a decrease in the number of migrant workers in the survey data. Data on the number of illegal workers in agriculture are not available to allow a further examination of this premise.

Table 1--Hired farmworkers, by duration of farmwork, 1950-81

	:	:	Days of hired farmwork during the year $\underline{1}/$						
Year	: To	otal : I	ewer than 25	: : 25 to 74 :	: 4 : 75 to	149 : 150 to 249	250 or more		
	:			Thousands					
1950		342							
1951		274	1,118	925	379	301	551		
1952	: 2,	980	1,008	928	324	296	424		
1953 2/	:	· ·	-						
1954	-	009	1,101	756	318	364	470		
1955 2/	:								
1956	: 3,	575	1,497	920	410	305	443		
1957	: 3,	962	1,762	1,044	501	256	399		
1958	: 4,	212	1,893						
1959		577	1,412	863	502	348	452		
1060	: 3.	693	1,531	868	465	390	438		
1960		488	1,600	849	354	281	404		
1961 1962		622	1,555	933	408	284	442		
		597	1,735	771	392	309	390		
1963 1964		370	1,369	924	413	326	338		
1904	· ,	370	1,509	724	413	320			
1965	: 3,	128	1,264	807	397	282	379		
1966	: 2,	763	1,130	717	339	211	367		
1967	: 3,	078	1,338	738	327	277	397		
1968	: 2,	919	1,299	731	308	256	324		
1969		571	1,106	718	258	189	301		
1070	: : 2.	488	1,093	623	293	172	306		
1970			1,191	648	213	213	285		
1971 1972		550 80 9	1,130	663	361	288	367		
1972		671	1,085	567	351	247	421		
			1,169	619	308	274	367		
1974	: 2,	,737	1,109	019	300	2/4	307		
1975		638	1,180	556	319	228	355		
1976		767	1,145	652	347	29 0	333		
1977		730	1,056	667	322	295	391		
1978 2/	: -,	=	•						
1979		652	898	672	323	335	423		
	: -,	-							
1980 2/	:								
1981	: 2,	492	969	538	310	281	394		
	:								

^{-- =} not available.

^{1/} Data are rounded to nearest thousand and may not add to total. $\overline{2}/$ No survey conducted.

Table 2--Migrant farmworkers, by duration of farmwork, 1960-81

	:		Days	of farmwork	during the yea	r <u>1</u> /
Year	:	Total	Fewer than 25	: : 25 to 74 :	: : 75 to 149	150 and over
	:			Thousands		
	:			Housands		
1960	:	409	92	122	84	111
1961	:	395	99	131	80	85
1962	:	380	92	133	83	73
1963	:	386	108	89	111	73 78
1964	:	386	114	102	88	82
	:			-0-	00	02
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
	:					74
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 <u>2</u>						
1979	:	217	56	80	33	48
1000 -	, :					
1980 <u>2</u> ,						
1981	:	115	24	37	12	43
	:		1			
	:					

 $[\]underline{1}/$ Data are rounded to nearest thousand and may not add to total. $\underline{2}/$ No survey conducted.

Finally, because the migrant data are derived from a survey, there is the possibility of an estimation error or an increased nonsampling error associated with survey procedures (see appendix II). Additional evidence from the 1983 Hired Farm Working Force Survey is required to evaluate more closely the observed decrease in numbers of migrant farmworkers.

This report presents data on the demographic, social, and economic characteristics of persons 14 years of age and over who

did hired farmwork for at least 1 day during 1981. The report focuses on the characteristics of racial/ethnic, regional, and migratory groups of farmworkers. It also summarizes some of the more important changes and trends over the past decade in the size, composition, and employment patterns of hired farmworkers.

Data in this report are from the Hired Farm Working Force Household Survey conducted for the USDA's Economic Research Service by the Bureau of the Census, U.S. Department of Commerce. The survey sample of households includes each State and the District of Columbia, but excludes Puerto Rico and other U.S. territories and possessions. In 1981, approximately 58,000 households were interviewed; 1,555 contained persons who did hired farmwork in 1981. Information obtained from this sample of households was expanded to provide estimates of the total hired farm working force population.

The 1981 hired farm working force estimates are based on weights from the 1980 Census of Population. Estimates for 1972 to 1979 were based on weights from the 1970 Census of Population. The switchover from 1970 census weights to 1980 weights produced an "artifical bump" (slightly higher estimates) in the data series; however, the differences in the 1981 estimates based on 1970 and 1980 weights are not significant. For example, using the 1970 census weights, the 1981 total hired farmwork and migrant population estimates are 2,423,000 and 112,000, respectively. The estimates based on the 1980 census weights are 2,492,000 hired farmworkers and 115,000 migrants. Additional comparisons are presented in appendix table 17.

The Current Population Survey (CPS) is a probability sample survey, and standard errors can be derived for the estimates. Statements of comparison appearing in the text but not necessarily in the tables or figures are based on data significant at the 95-percent confidence level (two standard errors) or higher unless otherwise indicated. Additional information on the source and reliability of the survey estimates is provided in the appendix.

HIRED FARMWORKER TRAITS IN 1981 In 1981, most hired farmworkers were white, resided in the South and North Central Regions, and did not live on farms. Hired farmworker characteristics were as follows:

--73 percent were white, 13 percent were Hispanic, and 14 percent were black and other.

Data for earlier years are available in The Hired Farm Working Force of 1979, AER-473, Econ. Res. Serv., U.S. Dept. Agr., Aug. 1981, and previous issues.

 $^{^2}$ Since 1977, the Hired Farm Working Force Survey has been conducted biennially in December as a supplement to the Current Population Survey.

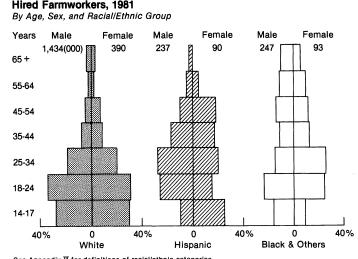
- --40 percent who were 25 years of age and over did not continue schooling past the eighth grade.
- -- 5 percent were migrants.
- -- The median age was 23.9 years.
- --84 percent did not live on farms at the time of the survey.
- --40 percent resided in the South, and 28 percent resided in the North-Central Region.

Age and Sex

Fifty-five percent of all hired farmworkers were under the age of 25, and 77 percent were male. Twenty percent of the workers were 35 to 64 years old, and another 20 percent were between 25 and 34 years old.

White farmworkers were generally younger than minority workers. The median age for whites was 22.6 years, compared with 31.7 years for blacks and others and 29.9 years for Hispanics. Sixty-one percent of all whites were under 25 years old (fig. 1). Most minority farmworkers, on the other hand, were 25 years old and over. Male and female workers were about the same age within each racial/ethnic group. The large proportion of minority farmworkers in the higher age groups suggests these

Figure 1



workers have a strong attachment to farmwork. By contrast, most whites appear to use farmwork as a starting job or for supplemental income, and find nonfarm alternatives later.

Household Status and Family Size

Farmworkers of all racial/ethnic groups were more likely to be household members than heads of households. However, heads of households were more likely to be employed for more days during the year than were other members of a household. Heads of households made up 67 percent of all farmworkers employed for 150 days or more during the year. This proportion was approximately the same for whites, Hispanics, and blacks and others. Only one third of the workers who worked fewer than 150 days were household heads.

The common perception that farmworkers are members of large families is not supported by the 1981 data. Almost half of the farmworkers' families had three or fewer immediate members (table 3). Minority farmworkers' families were more likely to be larger than were white families; 29 percent of the Hispanic farmworkers and 28 percent of blacks and others came from families with at least six people. Only 13 percent of whites came from families of this size.

Families headed by a farmworker were smaller than those headed by a nonfarmworker. Sixty-one percent of the families headed by a farmworker had three or fewer members, compared with only 30 percent of the families headed by a nonfarmworker.

Large farmworker families had higher income levels more often than did small families. Of the farmworker families with incomes of at least \$15,000, 42 percent had five or more members, compared with 3 percent with one member and 11 percent with two members. Larger families had higher incomes, probably due to higher paying nonfarm jobs of family heads supplemented by income from other family members doing farmwork. Thus, these families were less dependent on farm earnings for their major source of income. Conversely, smaller families had lower incomes, probably because of greater dependence on farm earnings for their major source of income.

Education |

In 1981, hired farmworkers had a median education of 11 years. Forty percent of the workers had completed at least high school, compared with 29 percent who had completed less than 9 years (table 4). The large number of students doing farmwork during their school breaks contributed to the proportion of workers completing 9 or more years of school. About half of the students had completed from 9 to 11 years of school.

The education levels, however, varied by racial/ethnic groups. Hispanic farmworkers had the lowest education level with a median of 7.1 years, while blacks and others had a median of 9.6 years. White farmworkers, on the other hand, had a median

³ Families are defined to include only those members of a household who are related to the head of household.

Table 3--Farmworker families, by selected characteristics and size of family, 1981

Selected characteristics	Farmworker		Perce			istril of pe					, b	by
cnaracteristics	families 1/:	1	:	2	:	3	:	4	:	5	:	6 or more
	: Thousands					<u>P</u> e	ercer	<u>ıt</u>				
Headed by farmworkers	1,018	22		22		17		18		10		11
Headed by	:											
nonfarmworkers	: 1,020	4		8		18		26		23		21
Racial/ethnic groups:	• •											
White	: 1,624	13		15		19		24		16		13
Black and other	: 234	2.3		17		12		8		12		28
Hispanic	: 181	5		14		14		17		21		29
Migratory status:	:											
Migrants	92	18		10		12		17		24		18
Nonmigrants	: 1,947	13		15		18		22		16		16
Family income:	:											
Less than \$5,000	: 326	35		18		18		13		7		9
\$5,000 - 7,499	: 215	24		13		18		16				18
\$7,500 - 9,999	: 199	15		18		23		18		16		10
\$10,000 - 14,999	: 366	11		19		16		23		15		17
\$15,000 - 24,999	: 481	6		14		15		24		22		19
\$25,000 and over	374	Õ		7		18		31		23		20
•	:	-						-				
Families for which	:											
income data are not	:											
available	: 77	9		18		25		25		12		13
	:	-				-						
All farmworker	:											
families 2/	: 2,039	13		15		18		22		16		16
-	:					-						

 $[\]underline{1}/$ Includes only those members related to the head of household. $\overline{2}/$ Numbers and percentages may not add to totals due to rounding.

of 11.7 years of schooling. Only 14 percent of Hispanics and 25 percent of blacks and others completed 12 years or more of schooling.

Forty-five percent of the farmworkers 25 years of age and over were high school graduates. However, about the same amount (40 percent) had completed less than ninth grade.

Table 4--Years of school completed by hired farmworkers, by racial/ethnic groups, 1981 1/

Education	: Unit	Whites	: Hispanics	Blacks and others	: Total
Number of workers	: : Thousands	: : 1,824	328	340	2,492
Years of school-	:	: :			
ing completed:	:	:			
0 - 4	: Percent	: 2	29	16	7
5 - 8	: do.	: 18	41	29	22
9 - 11	: do.	: 34	16	30	31
12	: do.	: 29	10	19	26
13 or more	: do.	: 17	4	6	14
Total	: do.	: 100	100	100	100
Median	: Years	: 11.7	7.1	9.6	11.0
Number of workers	:	: :			
25 years and	:	:			
older	: Thousands	: 709	206	212	1,126
Years of school-	:	: :			
ing completed:	:	:			
0 - 4	: Percent	: 4	37	25	14
5 – 8	: do.	: 19	44	34	26
9 - 11	: do.	: 16	6	19	15
12	: do.	: 37	9	13	27
13 or more	: do.	: 24	4	9	18
Total	: : do.	: 100	100	100	100
Median	: Years	: : 12.3	6.2	7.9	11.0

 $[\]underline{1}/$ Numbers and percentages may not add to totals due to rounding.

EMPLOYMENT AND EARNINGS

The average annual earnings of farmworkers in 1981 for both farmwork and nonfarmwork was \$4,299. Farmwork earnings are among the lowest of all occupations in the United States, although there are significant differences among farmworker groups. In 1981, the average annual earnings for all U.S. nonagricultural private sector production workers was \$13,270, more than three times the earnings of farmworkers.

⁴ Based on average weekly earnings, <u>Employment and Earnings</u>, <u>U.S. Dept. Labor</u>, <u>Bureau of Labor Statistics</u>, <u>January 1983</u>.

Hispanic farmworkers earned \$5,340, the highest annual farm and nonfarm earnings of all racial/ethnic groups, followed by whites who earned \$4,288, and blacks and others who earned \$3,358. While farmwork accounted for about 80 percent of the earnings of Hispanic and black and other farmworkers, it accounted for only about one-half the earnings of whites. Farmworker earnings of Hispanics were \$4,319, almost twice the farmwork earnings of blacks and others, \$2,668, and whites, \$2,359. Males earned almost twice as much as females from farmwork and nonfarmwork, \$4,829 versus \$2,526; heads of house-holds earned more than 2.5 times as much as other household members, \$6,876 versus \$2,434.

Days Worked

Farmworkers worked an average of 98 days at farmwork in 1981. Those who did only hired farmwork averaged about 129 days, and those who did both farmwork and nonfarmwork averaged 53 days of farmwork and 125 days of nonfarmwork. Earnings by days worked were as follows:

- --Casual workers, who worked fewer than 25 days at farm-work, made up 39 percent of the farm work force and earned \$2,756 annually, \$216 of which was from farm-work.
- --Seasonal workers who worked 25 to 74 days at farmwork made up 22 percent of the work force and earned \$2,799 annually, \$1,126 of which was from farmwork. Those who worked 75 to 149 days, 12 percent of all farmworkers, earned \$2,650 annually from farmwork and \$1,431 from nonfarmwork, for total annual earnings of \$4,081.
- --Eleven percent of the farm work force worked 150 to 249 days at farmwork. These workers, classified as regular workers, earned \$6,669 annually, of which \$5,908 was from farmwork.
- --Year-round workers, those working 250 days or more at farmwork, made up 16 percent of the hired farm work force. Their total average annual earnings were \$8,632, with \$8,461 from farmwork.

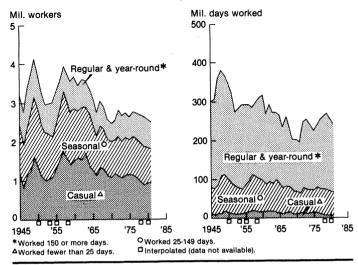
Casual and seasonal workers made up 73 percent of all workers but accounted for only 27 percent of the worker-days at hired farmwork (fig. 2).⁵ Regular and year-round workers made up about 25 percent of the work force but accounted for almost 75 percent of the worker-days.

The number of days spent at farmwork varied by racial/ethnic group. White and black and other farmworkers spent fewer days

A person completing at least 1 hour of farmwork during the day is credited with a worker-day of work.

Figure 2

Hired Farmworkers and Worker-Days



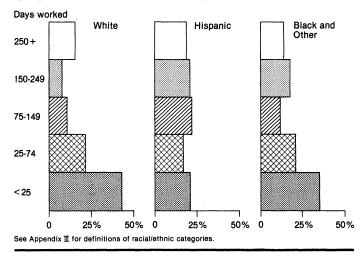
in the year doing farmwork than Hispanics (fig. 3). Whites did farmwork for an average of 91 days in 1981; blacks and others averaged 104 days of farmwork; and Hispanics averaged 131 days. Forty-three percent of the whites and 35 percent of the blacks and others worked fewer than 25 days at farmwork, compared with 21 percent of the Hispanics (the differences in number of days worked between blacks and others and Hispanics are significant at the 90-percent confidence level). Additional differences regarding days of farmwork are:

- --Female farmworkers were more likely than males to be casual workers. Over half (54 percent) of all female farmworkers did fewer than 25 days of farmwork, compared with 34 percent of the males. Conversely, only 9 percent of the females and 32 percent of the males worked 150 days or more.
- --Nonmigrants were twice as likely as migrants to be casual workers.
- --Farmworkers in Standard Federal Region IX, the Lower Pacific Coast States, were more likely to be regular and year-round workers than workers in other regions. Forty-three percent of the workers in Region IX worked 150 days or more.

Figure 3

Hired Farmworkers, 1981

By Days of Farmwork and Racial/Ethnic Groups



Primary Employment Status

The hired farm working force is comprised mostly of people whose primary activity is not hired farmwork (table 5). Only 28 percent of the Hired Farm Working Force Survey respondents listed hired farmwork as their major activity, while nearly 50 percent of the workers were not in the labor force most of the year. The majority of this latter group were students who worked during school breaks.

The type of employment at which farmworkers spend most of their time affects their annual earnings. Hired farmworkers whose primary employment was in the nonfarm sector had the highest earnings. In 1981, they earned an annual average of \$8,341, of which only \$949 came from farmwork. Workers whose primary employment was hired farmwork earned an annual average of \$7,258, with \$6,981 from farmwork. Those workers who were only casual labor force participants, including students and housewives, had the lowest average annual earnings.

There were significant differences in the primary employment status among the racial/ethnic groups. Approximately 40 percent of white farmworkers were attending school, compared with 12 percent of the Hispanics and 24 percent of blacks and others (fig. 4). (The difference in the percentage attending school most of the year between blacks and others and Hispanics is significant at the 90-percent confidence level.) Minority

Table 5-Hired farmworkers: Average annual earnings by primary employment status, 1981 $\underline{1}$ /

:		All f	armworkers		Farmwork	c only	Both farm	work and non	farmwork
Primary employment status 2/	Wor	rkers	Total	Annual farm	: Workers	Annual farm	: Workers	Total annual	Annual farm
status <u>2/</u> :	Number : I	Distribution	earnings	earnings		earnings	<u>:</u>	earnings	earnings
:	Thousands	Percent	<u>Dol</u>	lars	Thousands	<u>Dollars</u>	Thousands	<u>Doll</u>	ars
In labor force :	1,303	. 52	6,962	4,290	712	6,347	591	7,695	1,802
Hired farmwork :	706	28	7,258	6,981	601	7,172	105	7,749	5,882
Other farmwork3/:		4	2,494	1,725	70	1,825	20	4/	4/
Nonfarmwork :	420	17	8,341	949			420	8,341	9 4 9
Unemployed :	86	3	2,550	1,242	41	<u>4</u> /	46	4/	<u>4</u> /
Not in labor :									
force :	1,189	48	1,378	872	766	961	423	2,132	711
Keeping house :	199	8	1,182	866	154	913	45	<u>4/</u>	<u>4</u> /
school :	858	34	1,307	809	516	894	342	1,932	682
Other :	132	5	2,127	1,286	96	1,396	36	4/	<u>4</u> /
All hired	.								
farmworkers	2,492	100	4,299	2,659	1,478	3 , 557	1,014	5,381	1,350
Migrants	115	5	3,995	2,728	83	3,080	32	<u>4/</u>	<u>4/</u>

^{-- =} not applicable.

^{1/} Numbers and percentages may not add to totals due to rounding.

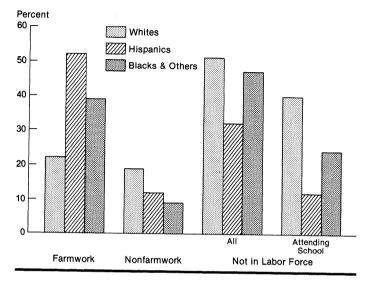
1/ Numbers and percentages may not add to totals due to rounding.

1/ Refers to respondent's chief activity during the year. See appendix for definitions.

1/ Averages not shown where base is fewer than 50,000 workers.

Hired Farmworkers, 1981

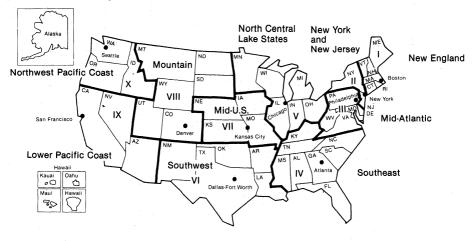
By Primary Employment Status and Racial/Ethnic Groups



farmworkers cited hired farmwork as their principal activity more often than whites. Just over half of the Hispanics and 39 percent of the blacks and others said that hired farmwork was their major activity, compared with only 22 percent of white farmworkers. The majority of Hispanic and black and other farmworkers (79 and 75 percent, respectively) said that hired farmwork was their only employment during the year. Only 53 percent of white farmworkers cited hired farmwork as their only employment.

REGIONAL DISTRIBU-TION The number and characteristics of hired farmworkers varied throughout the 10 Standard Federal Regions (SFR) (fig. 5). The demand for workers usually varied by type of crop and livestock activity, the length of the growing and harvesting seasons in the region, the extent of mechanization, and the scale of production. About 23 percent of all hired farmworkers were located in the Southeast (SFR IV) at the time of the December survey. The next largest concentration was in the North Central Lake States (SFR V) and the Southwest (SFR VI), where each had 15 percent of all workers. The Lower Pacific Coast (SFR IX) had 13 percent, and the Mid-United States (SFR VII) had 11 percent (table 6).

Standard Federal Regions



Racial/Ethnic Groups

The racial/ethnic composition of the hired farm working force also differed among the Standard Federal Regions. White farmworkers outnumbered minority farmworkers in all the Standard Federal Regions, except the Lower Pacific Coast, where the work force was made up of 49 percent Hispanic workers, 34 percent white, and 16 percent black and other. Hispanics also made up a larger percentage than blacks and others in the Southwest (SFR VI). Blacks and others, however, made up a significantly larger proportion of the farm work force than Hispanics in the Southeast (SFR IV), where 35 percent were blacks and others and 3 percent Hispanics. In the Mid-Atlantic Region (SFR III), 11 percent were blacks and others and less than 1 percent were Hispanics.

Crop and Livestock Activity

In 1981, 20 percent of all hired farmworkers were employed in grain production, more than the percentage for any other single commodity (table 7). Over 20 percent of the farmworkers were primarily involved in the production of vegetables and fruits and nuts, and another 20 percent worked in livestock and dairy activities.

Employment in crop and livestock activities varied by racial/ ethnic group. Whites and blacks and others were more often employed in field crop production than were Hispanics. About 52 percent of white farmworkers and 58 percent of black and

Table 6--Number and distribution of hired farmworkers, by racial/ethnic groups and Standard Federal Regions, 1981 1/

	All hired farmworkers								
Standard Federal Region	Tot	al	:		ution of nic groups				
	Number	Portion	White	Hispanic:	Black and other				
	: Thousands		<u>P</u>	ercent					
I-New England	: 60	2	100	2/	2/				
II-New York and	:			_	='				
New Jersey	: 101	4	86	6	8				
III-Mid-Atlantic	: 119	5	89	2/	11				
IV-Southeast	: 567	23	61	$\frac{2}{3}$	35				
V-North Central	:				33				
Lake States	: 380	15	99	1	2 /				
VI-Southwest	: 384	15	60	27	$\frac{2}{14}$				
VII-Mid-United	:	- -			14				
States	: 269	11	96	2	2				
/III-Mountain	: 107	4	92	5	4				
IX-Lower Pacific	:	,	,_	=	4				
Coast	: 334	13	34	49	16				
X-Northwest	:		٠,		10				
Pacific Coast	: 172	7	86	13	1				
United States		100	73	13	14				
	· -,	100	,,		14				

 $[\]frac{1}{2}$ Numbers and percentages may not add to totals due to rounding.

2/ Less than 0.5 percent.

other farmworkers worked in field crop production, compared with 31 percent of the Hispanic farmworkers. Hispanics, on the other hand, were primarily involved in the production of vegetables and fruits and nuts.

MIGRANTS

The number of migrant farmworkers in 1981 was significantly below the number in 1979. In 1981, only 115,000 workers reported that they did migrant work, compared with 217,000 in 1979. The 1981 estimate of migrant workers should be interpreted cautiously because it is based on a relatively small number of cases and the applicable standard errors may not fully reflect the extent of sampling and nonsampling errors. The estimate of 115,000 has a 95-percent confidence interval of 73,000 to 157,000 workers, compared with 159,000 to 275,000 workers for the 1979 estimate of 217,000 migrant farmworkers. Because of the low statistical reliability associated with the small estimate of migrant workers, some categories of data that have been published in previous issues of The Hired Farm Working Force are not presented for 1981.

Table 7--Number and distribution of hired farmworkers, by crop and livestock activity and racial/ethnic groups, 1981

Type of crop or	Wh	ites	His	panics	Blacks	and others	To	tal <u>2</u> /
livestock activity 1/	Number	Distribution	Number	Distribution	Number	Distribution	Number	Distribution
	: Thousands	Percent	Thousands	Percent	Thousands	Percent	Thousands	Percent
Grain	: : 444	24	14	4	30	9	488	20
Cotton	34	2	44	14	36	11	115	5
Tobacco	: 183	10	4	1	90	27	277	11
Other field crops	284	16	38	12	36	11	358	14
Vegetables	143	8	108	33	55	16	307	12
Fruit and tree nuts	147	8	78	24	47	14	272	11
Beef cattle	145	8	11	3	20	6	176	.7
Dairy	: 161	9	5	2	4	1	169	7
Other livestock	: 116	6	6	2	5	1	127	5
Nursery	: 52	3	13	4	10	3	75	3
Other	: 115	6	6	2	6	2	128	5
Total	: : 1,824	100	328	100	340	100	2,492	100

^{1/} A worker was assigned to the crop or livestock activity for which he or she worked the greatest number of days during the year.

^{2/} Numbers and percentages may not add to totals due to rounding.

Migrant workers are defined as those individuals who travel across county or State boundaries and stay overnight to do farmwork for cash wages or salary. In 1981, migrants made up 5 percent of all farmworkers, and they were mostly white males, under 25 years of age, who spent most of the year out of the labor force as students (tables 8 and 9). Over half the migrants worked fewer than 75 days in the year at farmwork.

Migrant farmworkers earned an annual average of \$3,995 in 1981 from farmwork and nonfarmwork, about 68 percent of which came from farmwork. Thirty-seven percent of the migrants did hired farmwork as their primary occupation in 1981. Another 50 percent were not in the labor force; that is, they either attended school, kept house, or were retired or disabled. Migrant farmworkers who headed households made up 38 percent of all migrants.

About 40 percent of all migrants had completed high school, and about 40 percent of these graduates had some college education. However, some migrants had relatively low levels of education. Thirty-four percent had less than a ninth grade education and 7 percent were classified as functionally illiterate, having attended fewer than five years of school. These percentages were similar for migrant workers 25 years of age and over.

The backgrounds of migrant and nonmigrant farmworkers did not differ significantly (tables 8 and 9). Migrant workers were very similar to the rest of the hired farm working force in that both were made up predominantly of young males who spent only a small portion of their time at farmwork, probably to supplement other sources of income. The average annual earnings from farmwork and nonfarmwork for migrants and nonmigrants were \$3,995 and \$4,314, respectively. These earning levels were not significantly different, nor was there a significant difference between their annual average farm earnings.

Over the past 10 years, some characteristics of hired farmworkers have changed, although the number of workers has remained relatively stable (table 10). Whites made up a larger proportion of workers during the 1979-81 period than they did during the 1969-71 period. The number of black and other workers has declined by almost 38 percent during that time. Comparable data on Hispanic farmworkers are not available for both periods. Prior to 1975, data for Hispanic workers were included in either white or black and other categories based on the individual's race.

The ages of workers also changed. Fewer young people (ages 14 to 17 years) apparently entered hired farmwork. However, the number of workers 18 to 34 years of age increased, possibly indicating that workers stay in farmwork longer and depend more on their farm earnings. The number of workers 45 years of age and over decreased (table 10). These workers may have left farmwork either for nonfarm employment or early retirement.

TRENDS

Table 8--Migrant and nonmigrant farmworkers, by demographic characteristics, 1981

Demographic	Mig	rant	Nonm.	igrant
characteristics	Number	Distribution	Number	Distribution
	: Thousands	Percent	Thousands	Percent
Total <u>1</u> /	: : 115	100	2,377	100
Racial/ethnic groups:	:			
Whites	: 88	75	1,736	73
Hispanics	: 19	17	309	13
Blacks and others	: 9	8	331	14
Sex and age (years):	:			
Male	: 96	100	1,823	100
14-17	: 28	29	430	24
18-24	: 29	30	574	31
25-34	: 11	11	366	20
35-44	: 9	9	170	9
45-54	: 15	16	112	6
55 and over	: 3	3	171	9
n. 1	: : 20	100	554	100
Female			144	26
14-17	: 3 : 8	$\frac{21}{2}$	270	49
18-34		$\frac{2l}{2l}$	105	19
35-54 55 and over	: 6 : 3	$\frac{\frac{2}{2}}{\frac{2}{2}}$	35	6
	:	_		
Household status:	:	20	1 002	42
Household heads	: 44	38	1,003	42
Other household	:	40	1 07/	F.0
members	: 72 :	63	1,374	58
Years of schooling	:			
completed by all	:			
workers:	:			_
0-4	: 8	7	172	7
5–8	: 31	27	525	22
9-11	: 30	26	743	31
12	: 27	23	609	26
13 and over	: 19	17	327	14
Census regions:	:			
Northeast	: 5	4	199	8
North Central	: 24	21	664	28
South	: 42	37	962	40
West	: 44	38	552	23

 $[\]underline{1}/$ Numbers and percentages may not add to totals due to rounding. $\underline{2}/$ Percentages not shown where base 1s fewer than 50,000.

Table 9--Migrant and nonmigrant farmworkers, by employment and earnings characteristics, 1981

	Mig	rant	Nonmig	grant
	Number	Distribution	Number	Distribution
	<u>Thousands</u>	Percent	Thousands	Percent
Total <u>1</u> /	115	100	2,377	100
Primary employment status:	:			
Farmwork	: 43	37	753	32
Hired farmwork	: 43	37	663	28
Without nonfarmwork	: 38	33	564	24
With nonfarmwork	5	4	100	4
Other farmwork 2/	: 0		90	4
Nonfarmwork —	: 12	10	408	17
Unemployed	: 4	3	83	3
Not in labor force	57	50	1,133	48
Keeping house	: 5	4	194	8
Attending school	50	43	808	34
	1	1	131	6
	:			
Fewer than 25	24	21	945	40
25-74	37	32	501	21
75–149	: 12	10	299	12
	28	24	253	11
250 and over	: 15 :	13	379	16
Farm and nonfarm earnings:	•			
	: 19	17	523	22
	: 18	15	231	10
	: 18	15	441	19
	: 13	11	272	11
	: 11	9	161	7
\$5,500-7,499		17	219	9
	; 7	6	222	9
\$10,000 and over	11	9	308	13
Parm earnings:				
Less than \$500		24	943	40
\$500-999		16	291	12
\$1,000-2,499		20	420	18
\$2,500-3,999		9	175	7
\$4,000-5,499		9	109	. 5
\$5,500-7,499		15	145	6
\$7,500-9,999	•	3	141	6
\$10,000 and over	3	3	152	6

^{-- =} not applicable. 1/ Numbers and percentages may not add to totals due to rounding. 2/ Includes operating a farm and unpaid family labor.

Table 10--Number of hired farmworkers, by selected characteristics, averages for 1969-71 and 1979-81

Item	3-year average	2-year average <u>1</u> /	Changes, : 1969-71 : to		of total
<u>`</u> -	1969-71	: 1979-81 :	1979-81	1969-71	: 1979-81
:	<u>The</u>	ousands		Percent	
: Total <u>2</u> /	2,536	2,527	1.2	100	100
Race: 3/ :					
Whites :	1,975	2,222	12.5*	78	86
Blacks and :					
others :	561	350	-37 . 6**	22	14
Age (years):			**		
14-17 :	849	656	-22.7	33	26
18-24 :	559	781	39.7	22	30
25-34 :	315	478	51.7	12	19
35-44 :	252	259	2.8	10	10
45-54 :	238	171	-28.2 _{**}	9	7
55-64 :	200	116	-42.0	8	5
65 and over :	124	111	-10.5	5	4
Region: :					
Northeast :	240	196	-18.3 _*	9	8
North Central :	609	737	21.0	24	29
South :	1,090	1,038	-4.8	43	40
West :	598	601	• 5	24	23
Days of farmwork::			_ **		
Fewer than 25 :	1,130	934	-17.3	45	36
25-74 :	663	605	-8.7	26	24
75-149 :	255	317	24.3	10	12
150-249 :	191	308	61.3	7	12
250 and over :	297	409	37.7	1.2	16
: Migratory status::					
Migratory :	208	166	-20.2	8	6
Nonmigratory :	2,328	2,406	3.3	92	94
Primary employ- :					
ment status: :					
Nonfarmwork :	376	458	21.8	15	18
Hired farmwork:	517	731	41.4	20	29

^{1/} A 2-year average for 1979 and 1981 was used because the hired farm working force survey became biennial after 1977. Data for 1980 are not available.

^{2/} Percentages and numbers may not add to totals due to rounding.

^{3/} Hispanic data were not available for hired farmworkers for 1969-71.

^{*} Significant at the 90-percent confidence level.

^{**} Significant at the 95-percent confidence level.

The South still had more hired farmworkers than other regions but had not gained in relative share of workers. The only region showing a significant change was the North Central Region, where the number of workers increased by 21 percent.

Hired farmworkers are working more days a year at farmwork than they did 10 years ago, thus suggesting stronger attachments to farmwork for their primary source of earnings. While the largest proportion of workers still work fewer than 25 days at farmwork, their numbers have declined by 17 percent. The number of regular workers, however, has increased by almost twothirds, and year-round workers have increased by over one-third. Overall, the number of worker-days increased from 198 million in the 1969-71 period to 257 million in the 1979-81 period. These increases are due in part to increased farm sizes, which require a larger hired farm work force to supplement family labor.

APPENDIX I

Appendix table 1--All hired farmworkers: Distribution by racial/ethnic groups and selected characteristics, 1981

Characteristics	: Total	: Whites	: Hispanics	: Blacks and othe			
	Thousands						
ull workers	: 2,492	1,824	328	340			
Primary employment status:	:						
Farmwork	: 796	490	170	135			
Hired farmwork	706	403	170	133			
Without nonfarmwork	: 601	320	158	123			
With nonfarmwork	: 105	83	11	10			
Other farmwork 1/	: 90	87	0	2			
Nonfarmwork -	: 420	351	39	30			
	: 86	60	13	14			
Not in labor force	: 1,189	923	106	161			
Keeping house	: 199	101	46	52			
Attending school	: 858	738	39	81			
Other	: 132	84	- 21	28			
esidence and age (years):	:						
All workers	2,492	1,824	328	340			
14-17	: 605	513	46	47			
18-24	760	603	76	82			
25-34	: 498	351	85	61			
	: 236	142	56	38			
	: 180	93	41	46			
	: 104	51	16	36			
	: 108	71	7	29			
	:						
Nonfarm residence	: 2,083	1,479	296	308			
	: 535	449	41	45			
	: 622	477	73	71			
	: 419	287	75	56			
35-44	: 187	105	47	35			
	: 152	74	38	41			
55-64	: 81	30	15	36			
65 and over	: 88	56	7 ·	24			
ears of education completed by	:						
workers 25 and over:	:						
	1,126	709	206	212			
	: 159	31	76	53			
	: 296	132	91	72			
	: 165	112	13	40			
	: 308	264	18	27			
	: 198	170	8	20			
	:						
	:						
	: 115	88	19	. 9			
Nonmigratory	2,377	1,736	309	331			
tandard Federal Regions:	:						
I	: 60	60	0	0			
11	: 101	87	6	8			
III	: 119	106	ő	13			
IV	: 567	347	18	201			
V	: 380	377	3	0			
VI	: 384	229	102	53			
	: 269	258	6	6			
VIII	: 107	98	5	4			
IX	: 334	115	165	54			
X	: 172	148	23	2			
	:						
ensus regions:							
Northeast	: 204	190	6	8			
North Central	: 688	672	. 8	8			
	: 1,004	627	113	265			
	595	335	201	59			
ays of farmwork:	:						
	: 969	781	69	110			
25-74	: 538	781 409	69 57	119 73			
75-149	: 310	198	72	40			
150-249	: 281	150	70	61			
	394	285	61	48			
			••	40			
ousehold status:	•						
Heads	: 1,046	752	142	152			
Other members	: 1,446	1,072	185	189			
	:						

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Appendix table 1--All hired farmworkers: Distribution by racial/ethnic groups and selected characteristics, 1981--continued

Characteristics	: Total	: Whites	: Hispanics	: Blacks and others				
	Percent							
All workers	: 100	100	100	100				
Primary employment status:	:							
Farmwork	: 32	27	52	40				
Hired farmwork	: 28	22	52	39				
Without nonfarmwork	: 24	18	48	36				
With nonfarmwork	: 4	5	4	3				
Other farmwork 1/	: 4	5	0	1				
Nonfarmwork	: 17	19	12	. 9				
Unemployed	: 3	3	4	4				
Not in labor force Keeping house	: 48	51	32	47				
Attending school	: 8 : 34	.6	14	15				
Other	: 5	40 5	12 6	24				
Residence and age (years):	:							
All workers	: 100	100	100	100				
14-17	: 24	28	14	100				
18-24	: 31	33	23	24				
25-34	: 20	19	26	18				
35-44	: 9	8	17	10				
45-54	. 7	5	12	14				
	. 4	3	5	11				
65 and over	: 4	4	2	9				
Nonfarm residence	: 100	100	100	100				
	: 26	30	14	15				
	: 30	32	25	23				
	: 20	19	25	18				
35-44	: 9	7	16	11				
	. 7	5	13	13				
	: 4	2 4	5 2	12 8				
	•		-	· ·				
Years of education completed by workers 25 and over:	:							
	: 100	100	100	100				
	: 14 : 26	4	37	25				
		19	44	34				
	: 15 : 27	16 37	6	19				
13 and over	: 18	24	9 4	13 9				
figratory status:	:							
Migratory	: 5	5	6	3				
Nonmigratory	95	95	94	97				
tandard Federal Regions:	:							
I II	: 2	3	0	0				
III	: 4	5	2	2				
	; 5 ; 23	6	0	4				
		19	6	59				
·		21	1	0				
		13	31	15				
	: 11 : 4	14 5	2	2				
<u>-</u>	: 13		2	1				
x	. 13 : 7	6 8	51 7	16 0				
ensus regions:	:							
Northeast	. 8	10	2	2				
North Central	: 28	. 37	2	2 2				
South	: 40	34	34	78				
West	: 24	18	61	17				
ays of farmwork:	: :							
Fewer than 25	: 39	43	21	35				
25-74	: 22	22	17	21				
	: 12	11	22	12				
150-249 250 and over	: 11	8	21	18				
	: 16 :	16	19	14				
ousehold status: Heads		4.1						
	: 42 : 58	41 59	43 57	45 55				
OLIGE MEMBELS								

Zeros indicate estimate was fewer than 500. $\frac{1}{2}$ Includes operating a farm and unpaid family labor.

Appendix table 2--All hired farmworkers: Distribution by racial/ethnic groups, sex, and selected characteristics, 1981

Characteristics	To		Whi	tes	Hisp	anics	Blacks an	d other
Characteristics	Male	Female	Male	Female	Male	Female	Male	Femal
	:			Thou	sands			
11 workers	: : 1,918	574	1,434	390	237	, 90	247	.9
rimary employment status:	:							
Farmwork	: 721	75	450	40	149	21	122	1
Hired farmwork	: 636	70	368	35	148	21	120	1
Without nonfarmwork	: 536	66	288	32	137	21	111	. 1
With nonfarmwork	: 100	4	80	3	11	0	9	
Other farmwork 1/	: 85	5	82	5	0	0	2	
Nonfarmwork	: 325	96	268	83	36	3	22	
Unemployed	: 83	3	58	2	12	1	13	_
Not in labor force	: 790	400	658	265	42	64	91	7
Keeping house	: 15	184	13	89	1	45	2	
Attending school	: 653	205	572	166	20	19	61	2
Other	: 122	10	73	10	21	0	28	
esidence and age (years):	:						217	
All workers	: 1,918	574	1,434	390	237	90	247	9
14-17	458	147	396	116	23	22	39	2
18-24	: 603	158	481	121	63	13	59	
25-34	: 377	121	272	79	67	18	38	2
35-44	: 179	58	112	29	41	16	26	1
45-54	: 127	53	67	26	. 24	16	35	1
55-64	: 82	22	43	8	12	4	27	
65 and over	: 92 :	16	61	11	7	0	24	
Nonfarm residence	: 1,592	490	1,162	317	212	84	219	8
14-17	: 405	131	348	101	20	21	37	
18-24	: 487	135	376	101	61	13	50	
25-34	: 317	102	222	65	60	15	35	2
35-44	: 143	44	88	17	33	14	22	1
45-54	: 102	50	51	22	21	. 16	29	1
55-64	: 66	15	28	. 2	. 10	4	27	
65 and over	: 73	14	47	9	7	0	19	
ears of education completed	:							
by workers 25 and over:	:							
All workers	: 857	269	556	153	152	54	150	
0-4	: 121	38	31	0	51	25	39	1
5-8	: 244	52	120	12	67	25	57	
9-11	: 131	34	91	21	13	0	27	
12	; 220	88	193	70	14	3	13	1
13 and over	: 141	57	120	50	7	2	14	
digratory status:	:							
Migratory	: 96	20	74	14	13	6	9	
Nonmigratory	: 1,823	554	1,360	377	225	84	238	,
Standard Federal Regions:	:							
I	: 39	21	39	21	0	0	0 8	
II	: 79	22	67 90	19 16	· · · 0	0	13	
III	: 103	16				5	143	
IV	: 435	132	278	69.	13 3	0	0	
V	: 288	91	286	91				
VI	: 310	74	197	32	69	33	43 4	
VII	: 204	65	195	63	5 3	1	4	
VIII	: 93	14	85	12		2		
IX X	: 252 : 116	82 56	92 103	23 44	129 11	36 12	31 1	
	:	50	103	• • •			-	
Census regions: Northeast	: : 161	43	149	41	4	2	8	
	: 527	43 161	514	159	8	1	6	
North Central South	: 785	219	510	117	78	35	198	
West	: 444	151	261	74	148	52	35	
	:							
Days of farmwork: Fewer than 25	: 658	312	553	228	38	31	67	
	: 390	149	312	98	30	26	48	
						21		
25-74	: 247	63	163					
25-74 75-149		63 26	163 141	35 9	51 58		34 55	
25-74	: 247 : 254 : 369	63 26 24	163 141 264	35 9 21	58 61	12 0	55 45	

Appendix table 2--All hired farmworkers: Distribution by racial/ethnic groups, sex, and selected characteristics, 1981--continued

Characteristics	·	otal	Whi	tes	His	panics	Blacks a	nd other
	Male:	Female	Male	Female	Male:	: Female	Male	Fema1
ull workers	:				cent			
	: 100 :	100	100	100	100	100	100	10
rimary employment status: Farmwork	: 38	13	31	10				
Hired farmwork	: 33	12	26	9	63 62	24 24	49 48	1
Without nonfarmwork	: 28	11	20	8	58	24	45	1
With nonfarmwork	: 5	1	6	1	5	Ö	3	•
Other farmwork 1/	: 4	.1	6	1	0	. 0	1	
Nonfarmwork Unemployed	: 17 : 4	17 1	19 4	21	15	4	9	
Not in labor force	: 41	70	46	0 68	5 17	1 71	5	_
Keeping house	: 1	32	1	23	0	71 50	37 1	7. 5.
Attending school	: 34	36	40	43	9	21	25	2
Other	: 6	2	5	3	ģ	0	11	٠, ١
esidence and age (years):	:							
All workers	: 100	100	100	100	100	100	100	100
14-17	: 24	26	28	30	10	25	16	
11 71	: 31	27	34	31	26	15	24	2.
	20 .	21	19	20	28	20	15	2
	: 7	10 9	8 5	8 7	17	17	11	1:
55-64	: 4	4	3	2	10 5	18 5	14	1
	: 5	3	4	3	3	0	11 10	1
	: : 100	100	100	100	100	100	100	10
14-17	: 25	27	30	32	9	25	17	10
	: 31	28	32	32	29	15	23	2
	: 20	21	19	21	28	18	16	2:
	: 9	9	7	5	16	17	10	1:
45-54 55-64	: 6	10	4	7	10	19	13	1:
	: 4 : 5	3 3	3 4	1 3	5 3	5 0	12 9	10
ears of education completed by workers 25 and over:	: : :					·	,	,
All workers	100	100	100	100	100	100	100	100
0-4	: 14	14	6	0	34	46	26	21
	: 28	19	22	8	44	46	38	24
	: 15	13	16	14	8	0	18	21
and the second s	: 26	33	35	46	9	5	9	23
	: 16 :	21	21	33	5	4	9	10
igratory status: Migratory	: 5	3	_		_	_		
Nonmigratory	· 95	97	5 95	. 96	5 95	. 7 93	4 96	100
andard Federal Regions:	:							
I		4	3	5	0	0	0	(
II .		4	5	5	2	2	3	ò
III		3	6	4	0	0	5	(
V .		23	19	18	6	5	58	62
V VI		16 13	20	23	1	0	0	0
VII		11	14 14	8 16	29 2	36	17	10
VIII		2	6	3	1	1 2	2 2	2
IX		14	6	6	54	40	12	25
x :	6	10	7	11	5	13	1	20
nsus regions:	:							
Northeast		7	10	10	2	2	3	c
North Central		28	36	41	3	1	2	2
South West		38 26	36 18	30 19	33 62	39 58	80 14	72 26
	!		••	•	02	50	14	20
ys of farmwork: Fewer than 25		54	39	58	16	35	27	
25-74		26	22	25	13	35 29	27 19	56 27
75-149		11	11	9	21	23	14	7
150-249	13	5	10	2	24	13	22	7
250 and over	19	4	18	5	26	ő	18	3

Zeros indicate estimate was fewer than 500. $\underline{1}/$ Includes operating a farm and unpaid family labor.

Appendix table 3-Hired farmworkers who did fewer than 25 days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981

		: : Whites :	: Hispanics	: Blacks and oth				
	Thousands							
ll workers	: : 969	781	69	119				
	: :							
Farmwork	: 50	49	0	1				
Hired farmwork	: 2	2	0	0				
	: 2	2	0	0				
	: 0	0 .	0	0				
	: 48	47	0	1				
Nonfarmwork	: 249	214	16	19				
	: 42	33	6	3				
Not in labor force	: 629	486	47	96				
	: 106	55	14	36				
Attending school	: 454	380	29	46				
Other	: 69 :	51	4	14				
sidence and age (years):	:							
All workers	: 969	781	69	119				
14-17	: 333	280	24	29				
18-24	: 279	236	16	26				
25-34	: 167	133	15	19				
35-44	: 60	42	5	12				
43 34	: 52	34	9	9				
33 04	: 25	18	0	7				
65 and over	: 55 :	37	0 .	17				
Nonfarm residence	: 859	687	64	108				
14-17	: 304	256	21	27				
18-24	: 248	209	15	24				
25-34	: 147	117	14	16				
35-44	: 55	38	5 9	12 9				
45-54	: 48	31		7				
55-64	: 17	10	0					
65 and over	: 40	26	0	14				
ears of education completed by	:							
workers 25 and over:	:							
All workers	: 358	265	29	64				
0 4	: 32	9	3	20				
5-8	: 83	53	13	17				
9-11	: 49	31	6	12				
12	: 124	108	. 6	10				
13 and over	: 70 :	63	2	5				
igratory status:	:							
Migratory	: 24	23	1	1				
Nonmigratory	: 945 :	758	68	118				
tandard Federal Regions:	:							
I	: 24	24	0	0				
II	: 24	21	0	3 5				
III	: 40 : 229	35 154	0	75				
IV	: 188	188	0	, ,				
V VI	: 150	94	43	14				
VII	: 143	139	2	2				
VIII	: 39	34	2	3				
IX	: 73	39	19	15				
X	: 59	54	3	1				
	:							
ensus regions: Northeast	: 63	60	0	3				
North Central	: 345	338	2	4				
South	: 398	265	41	92				
West	: 163	118	26	19				
	:							
ousehold status: Heads	: : 325	268	15	43				
Other members	: 644	513	55	76				
	:							

26

Characteristics	: Total	: Whites	: Hispanics	: Blacks and others
	:	Pe	rcent	
All workers	100	100	100	100
Primary employment status: Farmwork	: 5			
Hired farmwork	: 5 : 0	6	0	1
Without nonfarmwork	: 0	0	0	0
With nonfarmwork	. 0	0	0	0
Other farmwork 1/	. 0	6	0	0
Nonfarmwork	: 26	27	23	1
Unemployed	: 20	4	9	16 2
Not in labor force	: 65	62	67	81
Keeping house	: 11	7	21	30
Attending school	: 47	49	41	38
Other	: 7	7	6	12
desidence and age (years):	:			
All workers	: 100	100	100	100
14-17	: 34	36	35	24
18-24	: 29	30	23	22
25-34	: 17	17	22	16
35-44	: 6	5	8	10
45-54	: 5	4	12	7
55-64 65 and over	: 3 : 6	2 5	0	6 15
Nonfarm residence	: 100	100		
14-17	: 35	37	100	100
18-24	: 29	30	33 23	25
25-34	: 29	17	23	22
35-44	: 17	6	8	15
45-54	: 6	5	14	11 8
55-64	: 2	i	0	6
65 and over	: 5	4	0	13
ears of education completed by	:			
workers 25 and over:	:			
All workers	: 100	100	100	100
0-4	: 9	3		31
5-8	: 23	20		27
9-11	: 14	. 12		19
12	: 35	41		16
13 and over	: 20 :	24		8
igratory status: Migratory	: 2	3		
Nonmigratory	: 98	97	1 99	1 99
tandard Federal Regions:	:			
I	: 2	3	0	0
II	: 3	3	ŏ	š
III	: 4	5	0	4
IV	: 24	20	0	63
V	: 19	24	0	0
VI	: 16	12	62	12
VII	: 15	18	3	2
VIII	: 4	4	3	3
X X	: 8 : 6	5 7	28 5	12 1
ensus regions:	:	,	,	•
Northeast		•		_
North Central	: 7 : 36	8	0	3
South	: 36	43	3	4
West	: 17	34 15	60 . 38	78 16
ousehold status:	:			
Heads	: 34	34	21	36
Other members	: 66	66	79	64

Zeros indicate estimate was fewer than 500. -- = base was fewer than 50,000 persons. 1/ Includes operating a farm and unpaid family labor.

Appendix table 4--Hired farmworkers who did 25 to 149 days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981

	: Total	: Whites	: Hispanics	: Blacks and othe			
	: : Thousands						
	:						
	: 848 :	607	128	113			
Primary employment status:	:	76	45	26			
	: 147 : 117	47	45	25			
	: 94	29	40	25			
	: 23	18	5	0			
	: 30	29	0	1			
Nonfarmwork	: 157	126	21	11			
	: 42	24	7	11 65			
	: 502	382	55 29	16			
Keeping house Attending school	: 89 : 355	43 311	9	35			
Other	: 58	27	17	14			
Residence and age (years):	:						
All workers	: 848	607	128	113			
14-17	: 236	200	18	18			
18-24	: 298	232	28	38			
25-34	: 147	93	33	21 9			
35-44	: 63	35 16	19 18	13			
45–54 55–64	: 47 : 25	12	7	6			
65 and over	: 33	20	5	7			
Nonfarm residence	: : 733	503	123	106			
14-17	: 206	172	16	18			
18-24	: 250	186	28	36			
25-34	: 132	81	32	19 9			
35-44	: 53	27	17 18	12			
45-54	: 43 : 20	13 7	7	6			
55-64 65 and over	: 29	18	5	6			
Years of education completed by	:						
workers 25 and over:	:						
All workers	: 314	175	82	57			
0-4	: 51	6	36	10 20			
5-8	: 89	31	38 2	8			
9–11 12	: 32 : 77	22 65	3	10			
12 13 and over	: 65	52	4	9			
Migratory status:	:						
Migratory	: 49	49	0	0			
Nonmigratory	: 799 :	559	128	113			
Standard Federal Regions:	:		0	0			
I II	: 18 : 43	18 35	6	3			
III	: 40	34	ő	6			
IV	: 194	123	5	66			
v	: 122	120	3	0			
VI	: 115	72	25	19			
VII	: 82	77	3 2	2 1			
VIII	: 43	39 31	69	16			
IX X	: 116 : 74	59	15	0			
Census regions:	:						
Northeast	: 74	65	6	3			
North Central	: 222	214	6	2			
South West	: 331 : 222	211 117	29 87	91 17			
	:	***	•				
Household status: Heads	: : 272	197	43	33			
Other members	: 576	411	85	80			

Continued--

Characteristics	: Total	: Whites	: Hispanics	: Blacks and other				
	: Percent							
All workers	: 100	100	100	100				
Primary employment status:	:							
Farmwork	: 17	13	35	23				
Hired farmwork	: 14	8	35	22				
Without nonfarmwork	: 11	.5	31	22				
With nonfarmwork	: 3	3	4	0				
Other farmwork 1/	: 4	5	0	1				
Nonfarmwork	: 19	21	17	9				
Unemployed	: 5	4	5	10				
Not in labor force	: 59	63	43	58				
Keeping house	: 10	7	23	14				
Attending school Other	: 42 : 7	51 4	7 13	31 12				
Residence and age (years):	:							
All workers	: 100	100	100	100				
14-17	: 28	33	14	16				
18-24	: 35	38	22	33				
25-34	: 17	15	26	19				
35-44	: 7	6	15	8				
45-54	: 6	3	14	12				
55-64 65 and over	: 3 : 4	2 3	6	5 7				
Nonfarm residence	: 100	100						
14-17	: 28	34	100	100				
18-24	: 34		13	17				
		37	23	34				
	: 18 : 7	16 5	26	18				
45-54	. ,	3	14	. 8				
55-64	: 3	1	15	11				
65 and over	: 4	4	6 4	6 6				
dears of education completed by	:							
workers 25 and over:	:							
All workers	: 100	100	100	100				
	: 16	3	44	18				
	: 28	18	46	35				
	: 10	13	2	14				
	: 25	37	4	18				
	: 21 :	30	5	16				
ž., •	: 6	8	0	0				
Nonmigratory	: 94 :	92	100	100				
tandard Federal Regions:	:							
	: 2	3	0	0				
	5	6	5	2				
	5	6	0	5				
	: 23	20	4	59				
	: 14 : 14	20	2	0				
	: 14	12	19	17				
	: 10	13 6	2 2	1				
	: 14	5	54	1				
х	: 9	10	12	14 0				
ensus regions:	: :							
	: 9	11	5	2				
	: 26	35	4	2				
	: 39 : 26	35 19	23 68	81 15				
ousehold status:	:		•	.,				
	: : 32	32	33	20				
	· 52 : 68	68	67	29				
other members		00	6/	71				

Zeros indicate estimate was fewer than 500. $\underline{1}/$ Includes operating a farm and unpaid family labor.

Appendix table 5--Hired farmworkers who did 150 or more days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981

	: Total	: Whites	: Hispanics	: Blacks and other			
	: Thousands						
	:						
ill workers	: 674 :	435	130	109			
Primary employment status:	:						
Farmwork	: 598	366	124	108			
Hired farmwork	: 587	354	124	108 98			
Without nonfarmwork	: 505 : 82	289 65	118 6	10			
With nonfarmwork Other farmwork 1/	: 62	12	0	0			
Nonfarmwork	: 14	12	ž	ĭ			
Unemployed	: 3	3	ō	ō			
Not in labor force	: 59	55	4	0			
Keeping house	: 5	3	2	0			
Attending school	: 49	47	2	0			
Other	: 6	6	0	0			
Residence and age (years):	:						
All workers	: 674	435	130	109			
• • • •	: 36	33	4	.0			
18-24	: 184	135	32	18			
25-34	: 183	125	37	21 17			
	: 114	65	32 14	25			
45-54	: 81 : 54	42 22	9	24			
55-64 65 and over	: 20	14	2	4			
Nonfarm residence	: : 491	289	108	94			
14-17	: 25	21	4	70			
18-24	: 123	83	30	11			
25-34	: 139	89	29	21			
35-44	: 79	41	25	13			
45-54	: 61	30	11	20			
55-64	: 44	13	7	24			
65 and over	: 19 :	12	2	4			
Years of education completed by	:						
workers 25 and over:	:						
All workers	: 454	268	95 38	91 23			
0-4	: 76 : 124	15 48	38 41	23 35			
5-8	: 124 : 83	48 58	5	20			
9-11 12	: 83	91	8	7			
13 and over	: 64	55	3	6			
figratory status:	:						
Migratory	. 42	16	18	. 8			
Nonmigratory	: 632	419	113	100			
Standard Federal Regions:	:						
I	: 18	18	0	0			
II	: 34	31	0	2			
III	: 38	36	0	2			
IV	: 143	70	13	60 0			
V	: 70	70 64	35	20			
VI	: 118 : 44	42	1	20			
VII VIII	: 25	25	i	0			
IX	: 144	45	77	23			
x	: 39	35	5	0			
Census regions:	:			•			
Northeast	: 67	64	0	2			
North Central	: 122	120	1	2			
South	275	151	43	81			
West	: 210 :	100	87	24			
Household status:		288	. 05	76			
Heads	: 449 : 226	288 148	85 45	76 33			
Other members	. 440	140	40	33			

Continued--

Appendix table 5--Hired farmworkers who did 150 or more days of farmwork: Distribution by racial/ethnic groups and selected characteristics, 1981--continued

Primary employment status: Farawork Hired faramork Without nonfaramork With nonfaramork With nonfaramork Other faramork 1/ Nonfaramork Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-5-6 55-64 65 and over Nonfaram residence 14-17 18-24 25-34 35-44 45-54 55-65 65 and over Years of education completed by workers 25 and over: All workers 1 0-0-4 5-8 9-11 12 13 and over digratory status: Migratory Nonmigratory Nonmigratory Nonmigratory Standard Federal Regions: I II III IV	89 87 75 12 2 2 0 9 1 7 1 1 00 5 5 27 27 17 12 8 3 3	100 84 81 66 15 3 3 1 11 11 11 100 7 31 29 15 10 5 3 100 7 29 31 14	100 96 96 96 91 5 0 1 0 3 2 1 0 100 3 2 4 28 25 11 7 2 100 4 28 27 23	100 99 99 90 9 0 1 0 0 0 0 16 20 16 22 4 100 0 12 22
All workers Primary employment status: Farmwork Hired farmwork Without nonfarmwork With unonfarmwork Uther farmwork 1/ Nonfarmwork Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-56 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-45 45-56 65 and over Nonfarm residence 14-17 18-24 25-34 35-45 55-64 18-24 25-34 35-45 55-64 55-68 9-11 12 13 and over Igratory status: Migratory Nonmigratory Nonmigratory tandard Federal Regions: I II III III III III III III	89 87 75 12 2 2 2 0 9 1 1 7 1 1 00 5 5 27 27 27 17 12 8 3	84 81 66 15 3 3 1 13 1 11 11 11 100 7 31 29 15 10 5 3	96 96 97 91 5 0 1 0 3 2 1 1 0 100 3 2 4 28 25 111 7 2	99 99 90 9 0 1 0 0 0 0 0 16 220 16 23 22 4
Farmwork Hired farmwork With nonfarmwork With nonfarmwork Other farmwork 1/ Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-46 45-34 35-47 45-34 35-48 45-54 55-64 10-4 5-8 9-11 11 12 13 and over Ingratory status: Migratory Nonmigratory Nonmigratory tandard Federal Regions: III III IV	87 75 12 2 2 0 9 1 7 1 1 00 5 5 27 27 17 11 2 8 3 3 0 0 5 5 5 2 2 1 1 2 2 7 1 1 1 2 1 2 1 1 1 2 1 2 1	81 66 15 3 1 1 13 1 11 11 11 100 7 31 29 15 10 5 3	96 96 97 91 5 0 1 0 3 2 1 1 0 100 3 2 4 28 25 111 7 2	99 99 90 9 0 1 0 0 0 0 0 16 220 16 23 22 4
Farmwork Hired farmwork With nonfarmwork With nonfarmwork Other farmwork 1/ Nonfarmwork I nonfarmwork With nonfarmwork Other farmwork 1/ Nonfarmwork Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-65 65 and over Residence in desired in the service of the service o	87 75 12 2 2 0 9 1 7 1 1 00 5 5 27 27 17 11 2 8 3 3 0 0 5 5 5 2 2 1 1 2 2 7 1 1 1 2 1 2 1 1 1 2 1 2 1	81 66 15 3 1 1 13 1 11 11 11 100 7 31 29 15 10 5 3	96 91 5 0 1 0 3 2 1 1 0	99 90 90 11 00 00 00 100 16 20 16 23 22 4
Without nonfarmwork With nonfarmwork Other farmwork 1/ Nonfarmwork Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Residence and over Nonfarm residence 14-17 18-24 25-34 35-46 45-34 35-46 45-36 55-64 65 and over Residence 11-11 11	75 12 2 2 0 9 1 7 1 1 00 5 27 27 17 12 8 3 00 5 25 28 16	81 66 15 3 1 1 13 1 11 11 11 100 7 31 29 15 10 5 3	96 91 5 0 1 0 3 2 1 1 0	99 90 90 11 00 00 00 100 16 20 16 23 22 4
With nonfarmwork Other farmwork 1/ Nonfarmwork Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers All workers All workers All workers All workers I 8-24 25-34 35-44 45-54 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-55-65 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-55-64 65 and over Residence and age (years): All workers 11 11-12 12 13 and over 15 and over 16 and over 17 and over 18 and over 18 and over 19 and over 19 and over 10 and over 10 and over 11 and over 12 and over 13 and over 14 and over 15 and over 16 and over 17 and over 18 and over 18 and over 19 and over 19 and over 10 and over 10 and over 10 and over 11 and over 12 and over 13 and over 14 and over 15 and over 16 and over 17 and over 18 and over 18 and over 19 and over 19 and over 10 and over 10 and over 10 and over 11 and over 12 and over 13 and over 14 and over 15 and over 16 and over 17 and over 18 and over 18 and over 19 and over 19 and over 19 and over 10 and over 10 and over 10 and over 11 and over 12 and over 13 and over 14 and over 15 and over 16 and over 17 and over 18 and over 19 and over 19 and over 19 and over 10 and over 10 and over 10 and over 11 and over 12 and over 13 and over 14 and over 15 and over 16 and over 17 and over 18 and over 18 and over 18 and over 19 and ov	12 2 2 0 9 1 7 1 1 00 5 27 27 17 12 8 3 00 5 5 27 27 27 17 22 27 17 22 27 27 17 22 27 27 27 27 27 27 27 27 27 27 27 27	15 3 3 1 13 11 11 100 7 31 29 15 10 5 3	91 5 0 1 0 3 2 1 0 100 3 24 28 25 11 7 2 100 4 28 27	90 9 0 1 0 0 0 0 0 0 16 20 16 23 22 4
Other farmwork 1/ Nonfarmwork Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 165 and over Years of education completed by workers 25 and over: All workers 10-4 5-8 9-11 12 13 and over igratory status: Migratory Nonmigratory Nonmigratory tandard Federal Regions: I III III IV V	2 2 0 9 9 1 7 1 1 00 5 27 27 27 27 17 12 8 3	3 3 1 13 1 11 11 11 100 7 31 29 15 10 5 3 100 7 29 31 14	5 0 1 0 3 2 1 0 100 3 24 28 25 11 7 2 100 4 28 27	9 0 1 0 0 0 0 0 1 1 6 2 0 1 6 2 2 4 1 1 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1
Nonfarmwork Unemployed	2 0 9 1 7 1 1 000 5 27 27 17 12 8 3 00 5 5 228 28 16	3 1 13 11 11 100 7 31 29 15 10 5 3 100 7 29 31	1 0 3 2 1 1 0 0 3 3 2 4 2 8 2 5 1 1 7 7 2 1 1 1 1 0 0 4 4 2 8 2 7 2 7	1 0 0 0 0 0 0 10 16 20 16 23 22 4
Unemployed Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Vears of education completed by workers 25 and over: All workers 10-4 5-8 9-11 12 13 and over igratory status: Migratory Nonmigratory tandard Federal Regions: I III III IV V	0 9 1 7 1 1 00 5 27 27 17 12 8 3 3 00 5 5 22 27 12 22 27 12 22 23 24 25 25 26 26 26 27 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	1 13 1 1 1 1 1 100 7 31 29 15 10 5 3	0 3 2 1 0 100 3 24 28 25 111 7 2 100 4 28 27	0 0 0 0 0 0 100 0 16 20 16 23 22 4
Not in labor force Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Residence 14-17 18-18-19 18-24 18-24 18-24 18-24 18-38 18-38 18-38 18-38 18-38 19-3	9 1 7 7 1 00 5 27 27 17 12 8 3 00 5 5 5 27 27 22 17 12 8 3	13 1 11 10 7 31 29 15 10 5 3 100 7 29 31	3 2 1 0 100 3 24 28 25 111 7 2 100 4 28 27	0 0 0 0 0 100 16 203 22 4 100 0 12 22
Keeping house Attending school Other Residence and age (years): All workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over I dears of education completed by workers 25 and over: All workers O-4 5-8 9-11 12 13 and over igratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	1 7 7 1 1 000 5 5 27 27 17 12 8 8 3 00 5 5 25 28 16	1 11 1 100 7 31 29 15 10 5 3 100 7 29 31	2 1 0 100 3 24 28 25 111 7 2 100 4 28 27	0 0 0 0 100 0 16 20 16 23 22 4 100 0
Other Residence and age (years): All workers All workers 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Rears of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over Rigratory status: Migratory status: Migratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	7 1 000 5 27 27 17 11 8 3 3 000 5 5 25 28 116	11 100 7 31 29 15 10 5 3 100 7 29 31	100 3 24 28 25 11 7 2 100 4 28 27	0 0 100 0 16 20 16 23 22 4 100 0 12 22
Residence and age (years): Al1 workers 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Rears of education completed by workers 25 and over: Al1 workers 0-4 5-8 9-11 12 13 and over rigratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	00 5 27 27 17 11 2 8 3 3 00 5 5 25 228 116	1 100 7 31 29 15 10 5 3 100 7 29 31 14	0 100 3 24 28 25 111 7 2 100 4 28 27	0 100 0 16 20 16 23 22 4 100 0 12 22
Residence and age (years): All workers 11 workers 18-24 25-34 35-44 45-54 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 65 and over 18-24 25-34 35-44 45-54 65 and over Rears of education completed by workers 25 and over: All workers 0-4 11 workers 0-1 12 13 and over 12 13 and over 13 and over 14 10 12 12 13 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15	5 27 27 17 12 8 3 00 5 25 28	7 31 29 15 10 5 3 100 7 29 31 14	3 24 28 25 11 7 2 100 4 28 27	0 16 20 16 23 22 4 100 0
All workers : 14-17	5 27 27 17 12 8 3 00 5 25 28	7 31 29 15 10 5 3 100 7 29 31 14	3 24 28 25 11 7 2 100 4 28 27	0 16 20 16 23 22 4 100 0
14-17 18-24 25-34 35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Workers 25 and over: All workers 0-4 12 13 and over igratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	5 27 27 17 12 8 3 00 5 25 28	7 31 29 15 10 5 3 100 7 29 31 14	3 24 28 25 11 7 2 100 4 28 27	0 16 20 16 23 22 4 100 0
25-34 35-64 45-54 35-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Years of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over idgratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	27 17 12 8 3 00 5 25 28 16	29 15 10 5 3 100 7 29 31 14	24 28 25 11 7 2 100 4 28 27	16 20 16 23 22 4 100 0 12 22
35-44 45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Tears of education completed by workers 25 and over: 411 workers 10-4 5-8 9-11 12 13 and over igratory status: Migratory Nonmigratory Nonmigratory tandard Federal Regions: III III IV v	17 12 8 3 00 5 25 28 16	15 10 5 3 100 7 29 31 14	25 11 7 2 100 4 28 27	20 16 23 22 4 100 0 12 22
45-54 55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Wears of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over digratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	12 8 3 00 5 225 228 16	10 5 3 100 7 29 31 14	11 7 2 100 4 28 27	23 22 4 100 0 12 22
55-64 65 and over Nonfarm residence 14-17 18-24 25-34 35-44 45-54 55-64 65 and over Tears of education completed by workers 25 and over: All workers 10-4 5-8 9-11 12 13 and over igratory status: Migratory Nonmigratory Nonmigratory tandard Federal Regions: I II III IV V	8 3 00 5 25 28 16	5 3 100 7 29 31 14	7 2 100 4 28 27	22 4 100 0 12 22
65 and over Nonfarm residence	3 00 5 25 28 16	3 100 7 29 31 14	2 100 4 28 27	4 100 0 12 22
Nonfarm residence	5 25 28 16	7 29 31 14	4 28 27	100 0 12 22
14-17 18-24 25-34 35-44 45-54 55-64 65 and over **Gears of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over igratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	5 25 28 16	7 29 31 14	4 28 27	0 12 22
25-34 35-44 45-54 35-64 65 and over fears of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over digratory status: Migratory Monmigratory tandard Federal Regions: I II III IV V	28 16	29 31 14	28 27	12 22
35-44 45-54 55-64 65 and over fears of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over figratory status: Migratory Nonmigratory tandard Federal Regions: I II III III IV V	16	31 14	27	22
45-54 55-64 65 and over Years of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over idigratory status: Migratory Monmigratory tandard Federal Regions: I II III IV V				
55-64 65 and over fears of education completed by workers 25 and over: All workers	12			14
65 and over (ears of education completed by workers 25 and over: All workers 0-4 5-8 9-11 12 13 and over (igratory status: Migratory Nonmigratory tandard Federal Regions: I II III III IV V		10	10	21
Wears of education completed by workers 25 and over: All workers 3-6 -8 9-11 12 13 and over digratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	9 4	4	6 2	26
All workers 1 0-4 5-8 9-11 12 13 and over figratory status: figratory figratory findame fit		7		4
O-4 5-8 9-11 12 13 and over figratory status: Migratory Nonmigratory Standard Federal Regions: I II III IV V	00	100		
5-8 9-11 12 13 and over 13 gratory status: Migratory Nonmigratory Nonmigratory It I II III IV V	17	6	100 40	100 25
12 13 and over figratory status: Migratory Nonmigratory Standard Federal Regions: I II III III V	27	18	43	38
13 and over digratory status: Migratory Migratory standard Federal Regions: I II III IV V	18	22	5	22
Migratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	24	34	8	8
Agratory status: Migratory Nonmigratory tandard Federal Regions: I II III IV V	14	20	3	7
Nonmigratory : tandard Federal Regions: : : : : : : : : : : : : : : : : : :				
tandard Federal Regions: I II III IV V	6 94	4 96	14 86	8 92
I : : : : : : : : : : : : : : : : : : :	•	,,,	00	92
II : : : : : : : : : : : : : : : : : :	3	4	•	
IV :	5	7	0	0 2
<u>v</u> :	6	8	ŏ	2
<u></u>	21	16	10	55
V1 :	.0	16	0	Ö
VII	7	15	26	18
VIII	7 4	10	0	2
· ·	1	6 10	1	0
X :		8	59 3	21 0
ensus regions:	6			,
Northeast :	6	15	0	2
North Central :	0		0	2 2
South :	0 8	28	33	75
;	0 8 1	35		22
ousehold status: :	0 8		67	22
Other members	0 8 1	35		70

Zeros indicate estimate was fewer than 500. $\underline{1}'$ Includes operating a farm and unpaid family labor.

Appendix table 6--All hired farmworkers: Days of farmwork by selected characteristics, 1981

			Number	of hired farmworke	rs	
Characteristics :	Total	Fewer than 25 :	25 to 74	y days worked : 75 to 149	: 150 to 249	: 250 and ove
:			Th	ousands		
: All workers :	2,492	969	538	310	281	394
Ethnic groups: : Whites :	1,824	781	409	198	150	285
Hispanics :	328	69	57	72	70	61
Blacks and others :	340	119	73	40	61	48
: Primary employment status: :						
Farmwork :	796	50	43	104	229	370
Hired farmwork :	706	2	22	95	224	363
Without nonfarmwork :		2	17	78	170	335
With nonfarmwork :	105	. 0	6	17	54	28
Other farmwork 1/	90	48	21	9	5	7
Nonfarmwork :		249	105	53	10	5
Unemployed :		42	24	18	3	0
Not in labor force		629	366	136	40	19
Keeping house		106	70	19	3	2
Attending school		454	272	83	31	18
Other		69	24	34	6	0
Sev and age (years):						
Den und age () care).		658	390	247	254	369
Males	-,	229	155	38	25	10
14-17 18-24		200	132	96	72	103
10 24		116	47	45	65	103
25 54		33	18	22	28	78
33		19	16	18	27	46
45-54 55-64		18	8	11	27	18
65 and over	92	42	13	17	10	10
Fameles	: : 574	312	149	63	26	24
remares		103	32	11	0	0
17 17		79	59	10	7	3
18-24		52	33	22	. 6	8
25-34	121 58	26	- 11	12	3	5
35-44	53	33	11	2	4	3
45-54			1.	5	5	4
55-64 65 and over	: 22 : 16	6 13	1	1	0	1
	:					
Residence:	: : 409	111	73	43	57	126
Nonfarm	2,083	859	465	267	223	268
Migratory status:	:					•
Migratory status.	115	24	37	12	28	15
Nonmigratory	2,377	945	501	299	253	379
Standard Federal Regions:	:					
I standard rederal Regions.	60	24 .	11	: 7	10	8
ĬI	101	24	29	14	11	22
III		40	33	7	4	34
IV		229	134	60	. 77	66
v		188	82	41	27	43
VI		150	68	48	42	76
VII		143	45	37	18	26
VIII	107	39	27	16	8	18
IX	334	73	60	56	66	78
x	172	59	50	23	18	21
Census regions:	:					
Northeast	204	63	50	24	22	44
North Central	688	345	136	86	48	74
South	1,004	398	221	110	120	155
West		163	132	90	90	121
HEBL	. ,,,,	103	132	30	3 0	121

Continued--

Appendix table 6--All hired farmworkers: Days of farmwork by selected characteristics, 1981--continued

Characteristics				of hired farmworkers		
Characteristics	: Total	: Fewer than 25 :	25 to 74	y days worked : 75 to 149	: 150 to 249	: 250 and over
	:			ercent		
All workers	: 100	39	22	12	11	, 16
Ethnic groups:	:					1
Whites	: 100	43	22	11	8	16
Hispanics	: 100	21	17	22	21	19
Blacks and others	: 100	35	21	12	18	14
Primary employment status:						
Farmwork Hired farmwork	: 100	6	5	13	29	46
	: 100	0	3	13	32	51
With nonfarmwork	: 100	0	3	13	28	56
Other farmwork 1/	: 100	0	6	16	51	27
Nonfarmwork	: 100	53 59	23	. 10	5	8
Unemployed	: 100	48	25 28	13 21	2	1
Not in labor force	: 100	53	31	11	3 3	0
Keeping house	: 100	53	35	9	1	2 1
	: 100	53	32	10	4	2
	: 100	52	18	26	4	0
Sex and age (years):	:					
	: 100	34	20	13	13	19
	: 100	50	34	8	6	2
	: 100	33	22	16	12	17
	: 100	31	13	12	17	27
	: 100	18	10	12	16	44
	: 100	15	13	14	21	.37
	: 100 : 100	. 22 46	10 15	13 18	33 10	"22 11
	: 100	54	26	11	5	4
	: 100	70	22	8	0	0
	: 100	50	38	6	4	2
25-34	: 100	43	27	18	5	7
	: 100	46	20	20	6	8
	: 100	61	20	4	8	6
	: 100					
	: 100					
Residence	:					
	: 100 : 100	27	18	10	14	31
	: 100 :	41	22	13	11	13
	:					
	: 100	21	32	10	24	13
Nonmigratory	100	40	21	13	11	16
Standard Federal Regions:	:					
I	: 100	39	18	12	16	14
	: 100	24	28	14	11	22
	: 100 : 100	34	28	6	4	29
		40	24	11	14	12
•		49	22	11	7	11
	: 100 : 100	39 53	18	13	11	20
	: 100	36	17 25	14	7	10
	: 100	22	25 18	15	7	17
X :	: 100	34	. 18	17 14	20 11	23 12
	: :					
Northeast		31	25	12	11	22
	100	50	20	12	7	11
South	: 100	40	22	11	12	15
West	: 100	27	22	15	15	20

Zeros indicate estimate was fewer than 500.

-- = base was fewer than 50,000 persons.

1/ Includes operating a farm and unpaid family labor.

Appendix table 7--All hired farmworkers: Demographic characteristics by average number of days worked and earnings, 1981

	: : Thousands	: : Farm and	: :	Farmwork	:	: Workers who did hired : farmwork only				
	: Thousands : of	: nonfarm		Earn	: inge	Thousands:	Days		ings	
	: workers	: earnings	. worked	: Daily :		of : Workers :	worked	Daily :		
	<u>:</u>	<u></u>	·							
	: Number	Dollars	Number	<u>Doll</u>	ars	Numb	er	<u>Doll</u>		
11 workers	: 2,492 :	4,299	98	27.20	2,659	1,478	129	27.64	3,55	
Jonnac Stocks one	•			06.00	0.050	063	125	26.24	3,29	
HILLES	: 1,824	4,288	91	26.03	2,359	963		33.28	4,99	
Man b b ann a a	: 328	5,340	131	32.89	4,319	259	150			
Blacks and others	: 340	3,358	104	25.71	2,668	256	119	25.98	3,098	
	: 1,918	4,829	112	27.47	3,073	1,145	147	27.86	4,09	
	: 1,434	4,713	102	26.45	2,710	781	138	26.63	3,68	
Hispanics	: 237	6,447	155	33.26	5,155	178	186	33.64	6,25	
Blacks and others	: 247	3,948	125	25.42	3,175	186	146	25.70	3,74	
P1	: : 574	2,526	51	25.19	1,276	333	66	25.94	1,71	
Females Whites	: 390	2,725	47	22.71	1,071	182	71	22.98	1,62	
	: 90	2,420	69	30.72	2,114	81	71	31.18	2,22	
Hispanics	: 93	1,796	48	27.74	1,327	70	49	28.16	1,38	
Blacks and others	. 93	1,/90	40	21.14	1,52/		.,		-,,,	
Sex and age (years):				17 (1	750	/.10	48	18.19	87	
14-17	: 605	934	43	17.61	753	418	48 142	27.04	3,84	
18-24	: 760	4,624	93	26.84	2,488	343				
25-34	: 498	6,785	120	30.70	3,684	252	176	31.73	5,58	
35-44	: 236	6,405	159	29.10	4,631	169	195	28.85	5,63	
45-54	: 180	5,460	146	27.35	3,980	122	186	28.41	5,27	
55-64	: 104	4,597	147	27.82	4,077	86	158	27.84	4,40	
65 and over	: 108	2,575	79	24.64	1,938	88	88	24.63	2,16	
Males	:									
14-17	: 458	1,028	48	16.95	818	326	54	17.45	93	
18-24	: 603	4,965	106	26.85	2,846	280	160	26.85	4,29	
	: 377	7,736	138	31.09	4,277	187	207	32.21	6,68	
25-34	: 179	7,748	188	29.78	5,596	119	243	29.55	7,19	
35-44	: 127	6,586	181	27.74	5,032	89	225	28.85	6,49	
45-54	: 127	4,932	148	29.11	4,300	67	161	28.90	4,65	
55-64 65 and over	: 92	2,769	86	24.98	2,152	77	94	24.89	2,34	
	:									
Females	: 147	640	26	21.51	550	92	28	23.34	64	
14-17	: 158	3,317	42	26.76	1,115	63	64	29.18	1,87	
18-24		3,811	65	28.14	1,829	65	85	28.37	2,40	
25-34	: 121	2,225	70	23.41	1,628	49				
35-44		2,223	60	24.55	1,484	34				
45-54	: 53	2,791		24.33	1,404	19				
55-64	: 22					11				
65 and over	: 16					11	_			
Household and migrant	:									
status: Household heads	: 1,046	6,876	139	29.96	4,151	584	200	30.22	6,057	
Household heads Migratory	: 1,046					24				
Nonmigratory	: 1,003	6,907	138	30.21	4,182	560	200	30.50	6,106	
Other household members	: : 1,446	2,434	68	23.13	1,579	895	82	23.51	1,92	
Migratory	: 72	2,676	94	24.37	2,300		99	23.86	2,35	
Nonmigratory	: 1,374	2,421	67	23.04	1,542	835	81	23.48	1,89	
Years of education com- pleted by workers 25 and	:									
over:	:							06.15		
All workers	: 1,126	5,888	131	29.05	3,799		169	29.43	4,98	
0-4	: 159	4,593	143	29.52	4,217	140	153	29.62	4,54	
5-8	: 296	5,116	138	28.68	3,949	217	163	28.98	4,73	
9–11	: 165	5,860	160	27.65	4,410		195	28.17	5,48	
12	: 308	6,333	111	29.82	3,303	160	154	30.39	4,67	
13 and over	: 198	7,417	118	29.69	3,504		204	30.35	6,19	

^{-- =} base was fewer than 50,000 persons.

Appendix table 8--All hired farmworkers: Employment characteristics by average number of days worked and earnings, 1981

Characteristics	: Thousands : of	: Farm and		Farmwor		:	farmwork	did hire k only	đ
	: workers	: nonfarm : earnings	Days	Ear	nings	Thousands	Davs	: Ear	nings
		:	worked	: Daily	:Annual	of : Workers :	worked	·	: Annua
	: : Number	Dollars	Number		lars	Numb			
	: 2,492	4,299	98	27.20	2,659	1,478			lars
Primary employment status:	:	,	30	27.20	2,000	1,470	129	27.64	3,557
Farmwork	· : 796	. 700							
777 . 1 6	· 796 : 706	6,720	218	29.35	6,387	671	226	29.30	6,613
***		7,258	238	29.39	6,981	601	245	29.33	7,172
*** . 1		7,172	245	29.33	7,172	601	245	29.33	7,17
		7,749	197	29.86	5,882	0			
		2,494	62	28.04	1,725	70	64	28.44	1,825
77 1 1	- 420	8,341	38	25.01	949	0			-,
	86	2,550	44	28.40	1,242	41			
17	: 1,189	1,378	43	20.44	872	766	47	20.54	961
	199	1,182	36	23.91	866	154	38	24.25	913
A. 1	858	1,307	44	18.60	809	516	49	18.41	894
Other	132	2,127	47	27.47	1,286	96	52	26.93	1,396
Residence, sex, and days of farmwork:									
Fewer than 25	969	2 754	•						
25-74		2,756 2,799	9	22.76	216	444	10	21.79	222
75-149			45	24.85	1,126	274	45	24.64	1,108
150-249	310	4,081	107	24.85	2,650	195	107	25.73	2,742
250 and over	201	6,669 8,632	198 308	29.84 27.43	5,908 8,461	206 360	201	30.12	6,051
Nonfarm residence		•		27.43	0,401	300	309	27.63	8,547
	2,005	4,266	88	27.80	2,436	1,173	117	28.36	3,321
A= =:		2,906	10	22.55	216	376	11	21.43	226
	103	2,934	45	25.05	1,132	225	45	24.61	1,113
	267	4,246	106	25.19	2,683	165	107	25.88	2,758
	223	6,802	198	30.19	5,980	168	201	30.49	6,116
250 and over :	268	8,854	301	28.66	8,624	239	301	28.87	8,686
Males									
Fewer than 25 :	658	3,212	9	24.59	230	286	• •		
25-74 :	390	3,001	46	24.60	1,132		10	23.69	229
75-149 :	247	4,343	108	24.47		190	46	24.00	1,104
150-249 :	254	6,618	198	29.65	2,640	150	108	25.19	2,727
250 and over :	369	8,733	308	27.81	5,858 8,554	184 336	201 308	29.79	5,978
Females :					0,554	550	308	28.02	8,640
Fewer than 25	312	1 700							
25-74	149	1,792	10	19.04	185	158	11	18.77	208
75 and over	149	2,270 4,875	43 172	25.54 26.03	1,109	84	43	26.19	1,115
		.,0.5	1,2	20.03	4,488	91	183	26.63	4,881
igratory status and days :									
of farmwork:									
Migratory :	115	3,995	112	24.37	2,728	83	130	23.77	3 000
Fewer than 25 :	24					13		23.77	3,080
25-74 :	37					25			
75-149 :	12					7			
150 and over :	42					38			
Nonmigratory :	2,377	4 214							
Fewer than 25		4,314	97	27.35	2,656	1,395	129	27.87	3,585
25-149	945	2,751	9	22.70	213	430	10	21.51	214
150-249	799	3,305	68	24.99	1,705	437	72	25.50	1,824
050	253	6,755	199	30.09	5 ,9 80	182	202	30.53	6,162
250 and over :	379	8,710	309	27.63	8,534	346	310	27.90	8,642

Zeros appear where estimate was fewer than 500.

-- = base was fewer than 50,000 persons.

1/ Includes operating a farm and unpaid family labor.

Appendix table 9--All hired farmworkers: Regions and racial/ethnic groups by average number of days worked and earnings, 1981

	: : Thousands	: : Farm and	:	Farmwork	:	: farmwork only					
	; of	: nonfarm		Earni	ngs	Thousands:	Dane	: Farni	ngs		
	: workers	: earnings	worked	: Daily :		of : Workers :	worked	: Daily :	Annual		
	;	<u> </u>	<u> </u>	: Dally :	unuai :	WOLKELS .		· Daily ·			
	: Number	Dollars	Number	<u>Dolla</u>	ars	Number	<u>er</u>	<u>Dolla</u>	rs		
ll workers	2,492	4,299	98	27.20	2,659	1,478	129	27.64	3,557		
ensus regions:	:							07.41	, 200		
Northeast	: 204	4,400	115	25.82	2,977	109 100	156 157	27.41 26.88	4,268		
Whites	: 190	4,457	117	25.41	2,967	4	137	20.00	-,25		
Hispanics	: 6					5					
Blacks and others	: 0										
North Central	: 688	4,025	75	26.92	2,019	350	98	27.38	2,69		
Whites	: 672	4,043	75	26.84	2,018	342	99	27.35	2,09		
Hispanics	: 8					3 5					
Blacks and others	: 8					3					
South	: 1,004	3,786	97	22.95	2,217	627	126	22.67	2,85		
Whites	: 627	3,987	91	21.90	2,003	345	129	21.15	2,71		
Hispanics	: 113	4,435	114	27.27	3,115	81	137	27.41	3,74		
Blacks and others	: 265	3,036	101	23.13	2,341	201	117	23.30	2,73		
	:			20.66		393	153	34.40	5,24		
West	: 595	5,446	120	33.60	4,037 3,366	393 176	153	32.84	5,04		
Whites	: 335	5,244	105 145	31.97 35.47	5,157	170	158	35.77	5,66		
Hispanics	: 201	5,992	119	34.04	4,037	45					
Blacks and others	: 59	4,738	119	34+04	-,05/	45					
standard Federal Regions:	:										
I	: 60	4,547	100	22.56	2,246	29					
Whites	: 60	4,547	100	22.56	2,246	29					
Hispanics	: 0					0					
Blacks and others	: 0					U					
	: 101	4,295	120	28.66	3,450	52	146	32.14	4,70		
II	: 101	4,401	124	28.18	3,506	44					
Whites Hispanics	: 6					4					
Blacks and others	: 8					5					
	:					7.	.7/	17.42	3,06		
III	: 119	3,744	123	17.84	2,193	76 68	176 185	17.79	3,28		
Whites	: 106	4,019	128	18.18	2,318	0	100	17.79	3,20		
Hispanics	: 0					9					
Blacks and Others	: 13					-					
IV	: 567	3,450	89	22.38	2,000	356	116	22.32	2,59		
Whites	: 347	3,630	80	21.38	1,720	186	112	21.14	2,37		
Hispanics	: 18					18			2 (
Blacks and others	: 201	3,070	97	23.48	2,281	152	115	23.35	2,67		
	: 200	3,937	76	25.66	1,955	184	98	25.01	2,45		
V	: 380 : 377	3,937	77	25.66	1,963	184	98	25.01	2,45		
Whites	: 3//	3,936				0					
Hispanics Blacks and others	: 0					0					
Blacks and Others	: "										
VI	: 384	4,590	105	26.45	2,783		136	26.27	3,5		
Whites	: 229	4,784	99	25.80	2,560		138	24.71	3,4 4,0		
Hispanics	: 102	4,775	111	29.38	3,274	68	136	29.96	4,0		
Blacks and others	: 53	3,385	119	23.49	2,800	, 42					
	: : 269	4,149	71	28.30	2,010	141	96	29.88	2,8		
VII Whites	: 258	4,149	70	28.14	1,980		95	29.97	2,8		
Whites Hispanics	: 6					3			-		
Blacks and others	: 6					4			-		
	:			07.1-	0.70	1 59	143	27.55	3,9		
VIII	: 107	4,742	99	27.18	2,70		143	27.35	3,9		
Whites	: 98	4,697	102	26.87	2,75	3	143		-,,		
Hispanics	: 5 : 4					1			-		
Blacks and others	: 4		_								
IX	: 334	6,161	137	37.05	5,07	7 253	160	37.12	5,9		
Whites	: 115	6,678	130	37.92	4,93	1 68	184	36.97	6,8		
Hispanics	: 165	6,326	145	37.26	5,41		159	37.57	5,9		
Blacks and others	: 54	4,545	126	34.40	4,33	4 43			-		
	:	2 052	00	26 72	2 40	7 96	121	28.72	3,4		
x	: 172	3,888	90 84	26.73 28.02	2,40		118	31.14	3,6		
Whites	: 148 : 23	4,018	84	20.02	2,36	22			-		
Hispanics	: 23					1			-		
Blacks and others	: 2					•					

Zeros appear where estimate was fewer than 500. -- = base was fewer than 50,000 persons.

Appendix table 10--Hired farmworkers who did farmwork and nonfarmwork: Demographic characteristics by average number of days worked and earnings, 1981

01	: Thousands	·	:	Farmwork		:	Nonfarmwo	ork
Characteristics	: of	: nonfarm	Days	: Earr	nings	Days	: Earr	ings
	: workers	: earnings	worked	Daily	Annual	worked	Daily	Annua1
	Number	Dollars	Number	<u>Do</u> 1	lars	Number	<u>Do</u> 1	lars
All workers	1,014	5,381	53	25.63	1,350	125	32.18	4,03
Ethnic groups and sex:	:							
Whites	: 861	5,401	52	25.46	1,316	128	31.82	4,08
Hispanics	: 69	6,641	60	29.30	1,765	128	38.09	4,08
Blacks and others	: 84	4,149	57	24.00	1,362	91	30.66	2,78
Males	: : 773	5,921	60	26.05	1.564	100	01.00	
Whites	: 652	5,948	60	25.94	1,564 1,548	128 131	34.00 33.67	4,35
Hispanics	: 60	7,019	63	29.86	1,867	131	39.71	4,40
Blacks and others	: 61	4,565	62	23.38	1,442	100	39.71	5,153 3,123
Females	: : 241	3,643	29	22.82				
Whites	: 208	3,688	27		662	116	25.72	2,98
Hispanics	: 9	J,000	<u></u>	22.08	5 9 0	121	25.56	3,098
Blacks and others	: 23							
Sex and age (years):	:							
14-17	: 188	1,066	31	15.59	400	e-7	10.04	
18-24	: 417	5,263	52	26.39	482 1,372	57 127	10.24	584
25-34	: 246	8,014	63	27.74	1,372	161	30.56	3,89
35-44	: 68	8,323	69	30.85	2,140		39.00	6,27
45-54	: 58	5,846	60	20.38	1,224	167 144	37.12	6,18
55-64	: 18			20.30	1,224	144	32.01	4,62
65 and over	: 20							
Males	:							
14-17	: : 132	1,246	34	15.01	518	66	10.00	70
18-24	: 323	5,546	59	26.86			10.96	729
25-34	: 190	8,773	69	27.76	1,596	123	32.13	3,950
35-44	: 60	8,861	77	31.17	1,909 2,405	165	41.62	6,864
45-54	: 38			J1•1/	2,403	170	37.90	6,456
55-64	: 15							
65 and over	: 15							
Females	:	*						
14-17	: 55	633	22	17.74	395	٠,		
18-24	: 94	4,289	26	22.78	602	34 142	6.92 25.90	238
25-34	: 56	5,435	42	27.62	1,165	142	29.04	3,688
35-44	: 8			27.02	1,105	147	29.04	4,270
45-54	: 20							
55-64	; 3							
65 and over	: 4							
lousehold and migrant status:	:							
Household heads	: 463	7,907	60	28.89	1,747	161	38.15	6,160
Migratory	: 20							0,100
Nonmigratory	: 443 :	7,922	60	28.98	1,749	161	38.30	6,173
Other household members	: : 551	3,258	46	22.04	1,016	95	23.64	2 2/1
Migratory	: 12					7J	23.64	2,241
Nonmigratory	: 539	3,235	46	21.83	994	95	23.57	2,242
ears of education completed	:							
by workers 25 and over:	:							
All workers	· • 409	7,480	63	27.23	1,725	154	37.26	E 7
0-4	: 19	7,400			1,743	154	37.26	5,755
5-8	79	6,160	67	26.63	1,772	134	32.72	4,388
9-11	: 52	6,664	83	25.03	2,089	123	37.06	4,388
12	: 149	8,115	65	28.36	1,831	171	36.74	6,284
13 and over	: 110	8,389	50	27.50	1,364	172	40.91	7,025

^{-- =} base was fewer than 50,000 persons.

Appendix table 11--Hired farmworkers who did farmwork and nonfarmwork: Employment characteristics by average number of days worked and earnings, 1981

	: Thousands	: : Farm and	:	Farmwork		:	Nonfarmw	ork
Characteristics	: Thousands : of	: nonfarm	Days	: Earn	ings	Days	Earn	ings
Onar accertocres	: workers	: earnings	: worked	Daily	Annual	worked	Daily	Annual
	: Number	Dollars	Number	<u>Doll</u>	ars	Number	<u>Do1</u>	lars
All workers	: : 1,014	5,381	53	25.63	1,350	125	32.18	4,031
Primary employment status:	:							0 107
Farmwork	: 124	7,295	174	29.69	5,168	69	31.03	2,127 1,867
Hired farmwork	: 105	7,749	197	29.86	5,882	60	31.08	1,007
Without nonfarmwork	: 0			25 62	1,350	125	32.18	4,031
With nonfarmwork	: 1,014	5,381	53 	25.63	1,330	123	J2.10	
Other farmwork 1/	: 20		38	25.01	949	198	37.33	7,393
Nonfarmwork	: 420	8,341	30	23.01				
Unemployed	: 46		35	20.19	711	76	18.73	1,421
Not in labor force	: 423	2,132		20.17	/11			
Keeping house	: 45 : 342	1,932	36	18.98	682	75	16.66	1,250
Attending school	: 342	1,932						
Other	: 30							
Residence, sex, and days of farmwork:	:							
All workers	:	/ 000	9	23.69	211	142	33.04	4,682
Fewer than 25	: 526	4,893 4,550	46	25.06	1,145	117	29.10	3,40
25-74	: 264 : 115	6,345	107	23.38	2,493	111	34.60	3,851
75–149		8,389	190	29.03	5,509	82	34.99	2,881
150-249	: 74 : 34	0,509						
250 and over	: 34							
Nonfarm residence	: 910	5,485	50	26.10 23.58	1,294 208	129 144	32.43 33.16	4,19 4,78
Fewer than 25	: 483	4,990	9 45	25.47	1,149	118	29.44	3,488
25-74	: 240	4,637		24.08	2,562	117	35.02	4,090
75-149	: 102	6,652	106 190	29.22	5,565	93	35.77	3,31
150-249	: 55	8,878	190	29.22	J, 505			
250 and over	: 28 :							
Males	•			05 01	222	149	35.50	5,27
Fewer than 25	: 372	5,507	9	25.31 25.17	232 1,159	120	30.38	3,63
25-74	: 200	4,797	46 107	23.36	2,508		35.70	4,30
75-149	: 98	6,811	189	29.28	5,546	79	34.82	2,74
150-249	: 70 : 33	8,294	109	29.20	J, J40			
250 and over	: 33							
Females	:				171	105	25.99	3,25
Fewer than 25	: 154	3,412	. 8	19.40	161 1,100		24.70	2,68
25-74	: 64	3,780	45 	24.72 	1,100	109	24.70	2,00
75 and over	: 22							
Migratory status and days								
of farmwork: Migratory	· : 32							
Fewer than 25	: 11							
25-74	: 12							
75-149	: 5							
150 and over	: 5							
No. and an advance	: : 981	5,349	52	25.56	1,334	125	32.15	4,01
Nonmigratory	: 515	4,869	9	23.81	212		32.97	4,65
Fewer than 25	: 363	5,087	64	24.31	1,561		30.77	3,52
25-149 150-249	: 71	8,288	191	28.88	5,507		34.56	2,78
250 and over	; 33							
250 and over								

Zeros appear where estimate was fewer than 500.

^{-- =} base was fewer than 50,000 persons.

^{1/} Includes operating a farm and unpaid family labor.

Appendix table 12--Hired farmworkers who did farmwork and nonfarmwork: Regions and racial/ethnic groups by average number of days worked and earnings, 1981

Characteristics	: Thousands	: Farm and		Farmwork		<u> </u>	Nonfarmwo	
omaracceria cica	: or : workers	: nonfarm : earnings	Days	:Earn		Days	:Earn	ings
	· WOLKELS	: earnings	worked	Daily	Annua1	worked	Daily	Annua
	Number	Dollars	Number	<u>Do1</u>	lars	Number	<u>Do</u> 1	lars
All workers	: 1,014	5,381	53	25.63	1,350	125	32.18	4,03
Census regions:	:							.,
Northeast	: 96	4,550	69	21.77	1,511	128	23.76	3,03
Whites	: 90	4,703	72	21.86	1,569	131	23.94	3,13
Hispanics Blacks and others	: 2							
blacks and others	: 3							
North Central	: 338	5,403	51	26.01	1,320	123	33.10	
Whites	: 330	5,441	51	25.81	1,318	124	33.10	4,08 4,12
Hispanics Blacks and others	: 5							7,12
blacks and others	: 3							
South	378	5,331	48	24.22	1,157	130	20.00	
Whites	: 281	5,544	46	24.49	1,124	130	32.02 32.28	4,174
Hispanics	: 32							-, 42
Blacks and others	: 64	3,979	51	21.90	1,115	98	29.20	2,86
West	: 202	5,828	57	29.47	1 (00	110		4
Whites	: 159	5,461	52	29.47	1,682	118 120	35.23 32.94	4,146 3,95
Hispanics	: 29						32.94	3,95
Blacks and others	: 14							
tandard Federal Regions:	:							
I	: 31							
Whites	: 31							
Hispanics	: 0							
Blacks and others	: 0							
II	: 48							
Whites	: 43							
Hispanics	; 2							
Blacks and others	: 3							
III	: 42							
Whites	: 38							
Hispanics	: 0				-			
Blacks and others	: 4							
IV	:							
Whites	: 211 : 161	4,887	44 44	22.65	990	125	31.20	3,897
Hispanics	: 0	5,077	44	22.08	961	132	31.25	4,116
Blacks and others	50	4,271	44	24.47	1,081	103	31.01	3,190
V	:				.,	103	31.01	3,190
Whites	: 196	5,331	55	26.75	1,484	121	31.83	3,847
Hispanics	: 193	5,352	56	26.74	1,494	121	31.81	3,858
Blacks and others	: 0							
	:							
VI Whites	: 153	6,146	59	27.08	1,601	136	33.44	4,544
Whites Hispanics	108	6,323	55	28.85	1,600	139	34.04	4,723
Blacks and others	: 34 : 11							
	:							
VII	: 128	5,577	44	24.50	1,073	128	35.15	4,504
	: 123	5,654	44	23.82	1,038	131	35.25	4,616
Hispanics Blacks and others	: 3							
	: 2							
VIII	: 48							
Whites	: 43							
Hispanics	: 2							
Blacks and others	3							
	81	6,825	65	36.51	2 200	107		
Whites	: 47	0,025		20.21	2,366	107	41.79	4,459
	: 24							
	: 10							
••	: : 76	4 200		00.75				
Whites	: 74	4,389 4,354	51 51	20.75	1,052	119	28.09	3,337
Hispanics	: 1	4,334		-0.03	1,061	120	27.53	3,293
Blacks and others	: i							

Zeros appear where estimate was fewer than 500. -- = base was fewer than 50,000 persons.

Appendix table 13--All hired farmworkers: Percentage distribution of daily farm earnings by selected characteristics and regions, 1981

	Thousands		\$8.00 to:\$	11 00 to	Daily far	m earnings	20.00 to:	23.00 to:	\$26.00	Median
Characteristics	of	: Fewer :than \$8.00	\$8.00 to:\$	11.00 to:	\$14.00 to:	\$19.99	\$22.99 :	\$25.99	and over	earning
	:	: Chan \$6.00	310.00							Dollar
	: Number				-Percent-					
11 workers	2,492	8	10	5	. 8	.4	. 12	11	42	23.83
thnic groups and sex:				,	10	4	12	10	39	21.79
	: 1,824	9 3	10 7	6 2	1	7	8	11	61	29.46
	: 328 : 340	6	13	6	9	2	11	15	39	23.92
Males	: : 1,918	8	9	5	8	4	11	9	45 42	24.64
Whites	: 1,434	10	9	5 2	9	6	11 7	10	68	30.30
Hispanics Blacks and others	: 237 : 247	3 6	14	7	8	1	1í .	12	41	24.19
Females	: : 574	. 5	14	7	9	- 6	15	14	31	20.44
Whites	: 390	6	14	8	10	.6	16	13 12	28 44	20.21
Hispanics	: 90	1	18	3 5	2 11	10 2	10 11	21	33	23.57
Blacks and others	: 93 :	4	11 .	5	11		11			
rimary employment status: Farmwork	: : 796	6	6	3	4	3	10	10	58	28.02
Hired farmwork	706	6	6	3	4	2	9	10	60 59	28.40 28.45
Without nonfarmwork	: 601	7	6	4	4 5	3	8 11	10 7	61	28.11
With nonfarmwork	: 105	4 8	9 5	0 4	4	5	23	7	44	23.52
Other farmwork 1/	: 90 : 420	8 5	12	4	7	5	14	12	41	23.77
Nonfarmwork Unemployed	: 420	4	17	4	12	4	14	.7	48	25.33
Not in labor force	: 1,189	10	13	7	11	-5	12 12	11 13	31 34	20.15 20.89
Keeping house	: 199	4	13	8	6	9 4	12 11	11	27	19.50
Attending school Other	: 858 : 132	12 2	14 9	7 3	13 9	4	12	8	53	26.66
Mge (years):	:	13	15	7	15	5	11	12	22	17.03
14-17	: 605 : 760	13	8	5	8	4	13	8	46	24.83
18-24 25-34	: 498	4	ğ	3	5	4	12	11	54	27.48
35-44	: 236	4	13	4	6	4	10	7	52 41	27.30
45-54	: 180	9	10	5	3	6	9 14	16 19	46	25.44
55-64 65 and over	: 104 : 108	5 7	7 9	4 14	4 5	0	11	10	43	24.76
Days of farmwork:	:					_	.,	11	29	20.09
Fewer than 25	: 969	9	14	7	12	5 5	14 12	11	43	24.27
25-74	: 538	5 7	9 12	6 3	9 5	-4	12	14	44	25.02
75-149	: 310 : 281	6	7	4	4	3	6	9	61	29.57
150-249 250 and are	: 394	10	6	4	5	3	8	9	56	27.48
Household and migrant	:									
status:	: : 1,046	6	8	4	5	3	12	10	54	27.5
Household heads Migratory	: 1,046									
Nonmigratory	: 1,003	6	8	3	5	. 3	11	10	54	27.6
Other household members	: : 1,446	. 9	12	6	11	6	12	11	34 38	20.4
Migratory	: 72	15	9 12	7 6	7 11	5 6	7 12	13 11	33	20.3
Nonmigratory	: 1,374 :	. 8	12		11	Ÿ	12			
Census regions:	: 204	14	9	6	10	7	12	7	35	20.1
Northeast Whites	: 190	16	10	6	11	5	10	7	35	20.0
Hispanics	: 6									-
Blacks and others	: 8									-
North Central	: 688	6 6	12 12	. 6	9 9	5 5	11 11	13 13	40 39	23.6 23.3
Whites Hispanics	: 672 : 8									-
Blacks and others	. 8		,	`		-				-
South	: : 1,004	8	12	6	11	5	14	11	33 32	20.7
Whites	: 627	10	10	6	12	.5	15 15	10 11	32 41	22.8
Hispanics Blacks and others	: 113 : 265	1 6	17 16	2 6	0 11	13	11	15	32	21.9
West	: : 595	6	6	4	3	- 2	. 8	8	62	29.9 27.5
Whites	: 335	8	8	5	5	3 2	12 4	5 11	54 73	32.6
Hispanics	: 201	. 4	2 6	3 10	1 1	-0	1	13	64	30.1
Blacks and others	: 59		t)	10			-			

Continued--

Appendix table 13--All hired farmworkers: Percentage distribution of daily farm earnings by selected characteristics and regions, 1981--continued

	:Thousands				Daily f	arm earning	rs .			
Characteristics	of	: Fewer	:\$8.00 to:	\$11.00 t	0:\$14.00 to	0:\$17.00 to	. \$20 00 to	:\$23.00 t	o: \$26.00	- Median
	: workers	:than \$8.	00: \$10.00 :	\$13.99	: \$16.99	: \$19.99	\$22.99	: \$25.99	: and ove	r: earning
	Number				Percen	t				Dollars
Standard Federal Regions:	:					_				DOTTALS
I	: 60	14	8	,	••					
Whites	: 60	14	8	4	13 13	8 8	8 8	11	34	20.25
Hispanics	: 0	• •	٠	4	13	8	8	11	34	20.25
Blacks and others	: 0									
II	: : 101	9	12							
Whites	: 87	10	14	6	10	9	15	3	36	20.12
Hispanics	: 6		14	7	11	5	10	4	37	20.03
Blacks and others	: 8									
111	: : 119									
Whites	: 106	20 21	6	10	19	2	11	6	27	16.09
Hispanics	: 106	21	4	11	18	2	9	5	30	16.19
Blacks and others	: 13									
IV	:	_								
Whites	: 567 : 347	. 9	12	6	11	5	14	12	32	20.42
Hispanics	: 347 : 18	11	10	5	12	6	15	10	31	20.26
Blacks and others	: 201									
	: 201	5	16	7	11	2	10	16	33	21.89
V	: 380	8	14	7	11	3	7	15	35	01 50
Whites	: 377	8	15	7	ii	3	ż	15	34	21.58
Hispanics	: 3								34	21.07
Blacks and others	: 0									
VI	: 384	5	14	4	6	5				
Whites	: 229	6	ii	6	9	3	14 16	11 11	39	22.73
Hispanics	: 102	2	19	1	ó	13	11	11	37	21.63
Blacks and others	: 53	9	17	ŝ	6	2	11	12	43 37	24.34 22.75
VII	: : 269			_					3,	22.75
Whites	: 258	4	8	3	8	7	15	11	44	24.58
Hispanics	: 6	4	9	3	8	7	16	10	43	24.10
Blacks and others	: 6									
	:									
VIII	: 107	8	10	5	8	3	11	9		
Whites	: 98	7	11	5	8	3	12	7	47 47	24.80
Hispanics	; 5								4/	24.54
Blacks and others	: 4									
IX	: 334	4	3	4	1			_		
Whites	: 115	5	3	5	0	1	. 8	6	74	33.47
Hispanics	: 165	2	2	2	1	2	15 5	2	68	34.35
Blacks and others	: 54	6	5	9	ō	0	1	5 14	80 66	35.64 31.03
x	: 172	11	10	4	_		-			31.03
	: 148	11	10		5	3	9	13	45	25.02
	: 23			4	6	3	10	6	48	24.94
	: 23									

Zeros appear where the estimate was fewer than 500.

-- = base was fewer than 50,000 persons.

I/ Includes operating a farm and unpaid family labor.

Appendix table 14--All hired farmworkers: Percentage distribution of total annual earnings by selected characteristics and regions, 1981

	Thousand	B:		41 000	Total annu	ual earning	105 500 +0	•\$7 500 to	\$10,000	Median
Characteristics	of workers	: Fewer :than \$500	\$500 to	:\$1,000 to	\$3,999	\$5,499	: \$5,500 to : \$7,499	:\$7,500 to : \$9,999	and over	earnings
	Number				Percen	<u>t</u>				Dollars
11 workers	2,492	22	10	18	11	7	10	9	13	2,484
thnic groups and sex:	:					_	9	8	14	2,315
Whites	: 1,824	23 13	11 4	18 16	11 18	7 6	12	15	15	3,914
Hispanics Blacks and others	: 328 : 340	24	- 12	23	10	5	11	11	5	1,656
Males	: : 1,918	18	9	18	11	7 7	10 9	11 9	15 16	3,053 2,682
	: 1,434 : 237	20 6	10 4	18 13	10 17	6	15	19	20	6,288
Hispanics Blacks and others	: 247	17	14	20	12	6	13	13	6	2,512
Females	: 574	34	12 14	20 18	11 11	7 8	6 7	4	5 6	1,197 1,266
Whites Hispanics	: 390 : 90	32 34	4	24	20	6	6	5	3	1,246
Blacks and others	93	43	9	29	4	2	5	5	2	789
Primary employment status:			3	11	12	9	18	19	21	6,50
Farmwork Hired farmwork	: 796 : 706	6 1	2	11	13	10	20	22	22	7.13
Without nonfarmwork	: 601	1	3	11	13	9	20	21	23 20	7,07 7,41
With nonfarmwork	: 105	0	0 8	10 16	12 8	14 5	17 8	28 1	9	7,41
Other farmwork 1/ Nonfarmwork	: 90 : 420	46 0	2	8	16	10	16	14	34	7,32
Unemployed	: 86	20	16	27	15	7	10	0 1	4 0	1,79
Not in labor force	: 1,189	40	17 14	26 30	9 11	4	1	0	0	83
Keeping house	: 199 : 858	41 42	18	25	8	4	2	ĭ	ŏ	67
Attending school Other	: 132	29	. 17	29	14	5	1	2	3	1,15
age (years):	: 605	50	19	21	6	2	1	0	0	49
14-17 18-24	: 760	12	. 19	23	16	9	9	10	12	3,1
25-34	: 498	. 9	4	13	11	7	14	17	25 23	6,3 6,0
35-44	: 236	12	5 5	13 17	11 15	8 10	16 13	13 9	20	4,0
45-54 55-64	: 180 : 104	12 17	. 5	14	9	8	27	12	7	4,90
65 and over	: 108	34	14	17	10	9 .	5	9	2	1,19
Days of farmwork: Fewer than 25	: : 969	50	11	10	7	5	4	3	10	4
25-74	: 538	10	20	39	12	4	4	3	7	1,5
75-149	: 310	0	8	27	31	13	9 27	7 20	5 13	3,1 6,3
150-249 250 and over	: 281 : 394	0 0	1	12 9	11 7	16 5	19	26	33	8,2
Household and migrant	:									
status:	: 1,046	. 9	6	11	12	6	14	15	26	6,3
Household heads Migratory	: 1,046									-
Nonmigratory	: 1,003	9	6	12	12	6	14	15	27	6,4
Other household members	: 1,446	31	13	23	11	. 8	.6	5 0	3	1,2
Migratory Nonmigratory	: 72 : 1,374	22 32	23 13	20 24	8 11	11 7	13 6	5	3	1,2
Census regions:	:					:		•		2,4
Northeast	: 204	19	11 9	22 22	10 10	7	9 9	9 10	14 14	2,4
Whites Hispanics	: 190	20								
Blacks and others	. 8									-
North Central	: 688	28 28	12 12	16 16	9	8	7 7	7 7	13 13	2,0
Whites Hispanics	: 672 : 8	28 					<u>.</u>			-
Blacks and others	: 8					-			- -	-
South	: 1,004	24	10	19	- 11	7	12	10	8	2,2
Whites	: 627	23	9	20	10 15	8 5	11 16	8 23	11 3-	2,2
Hispanics Blacks and others	: 113 : 265	26 24	2 14	10 22	11	6	11	9	3	1,5
West .	: : 595	13	8	19	15	5	9	11	20	3,5 3,3
Whites	: 335	15 7	12 4	16 20	15 19	6 6	8 10	8 12	20	4,2
Hispanics Blacks and others	: 201 : 59	22	4	29	3	1	9	20	13	2,4
Diacks and Concis										

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Appendix table 14--All hired farmworkers: Percentage distribution of total annual earnings by selected characteristics and regions, 1981--continued

Chamanda at a stand	: Thousands	3:			Total ann	ual earning	78			
Characteristics	: of : workers	: Fewer	:\$500 to	:\$1,000 t	0:67 500 to	. et 000 AV	. AF FOO .	:\$7,500 t	o: \$10,00	- Median
	: workers	- CHAII \$500	: \$999	; ş2,499	\$3,999	; \$5,499	: \$7,499	: \$9,999	:and ove	r: earnings
	: Number				Percen	t				2.11
Standard Federal Regions:	:		,		101001					Dollars
I	: 60	17	8	24	18	4	5	6	18	2,621
Whites	: 60	17	8	24	18	4	5	6	18	2,621
Hispanics	: 0						,	Ū	10	2,021
Blacks and others	: 0									
II	: 101	18	15	21	,	_				
Whites	: 87	21	11	21	6	6	11	10	13	2,299
Hispanics	: 6				5	6	13	11	12	2,356
Blacks and others	: 8									
	:									
III	: 119	24	4	24	13	5			_	
Whites	: 106	23	5	21	12	6	11 13	11 12	7	2,220
Hispanics	: 0				12	0	13	12	8	2,527
Blacks and others	: 13									
IV										
Whites	: 567	23	12	20	13	7	12	6	7	1,928
	347	23	11	21	10	8	13	5	10	2,083
	: 18									-,005
	201	25	15	19	12	7	11	8	3	1,522
	380	30	11		_	_				•
	: 377	30	12	17 17	7 7	8	8	7	13	1,808
	: 3		12			8	8	7	13	1,808
Blacks and others	: 0									
VI	:									
	: 384	24	8	16	8	7	10	16	11	3,014
	: 299 : 102	22	9	17	9	9	7	12	15	3,225
	: 102	29	2	10	7	6	16	23	7	4,426
	• 55	24	12	23	5	5	14	16	1	1,625
	: 269	26	12	13	12	•		_		
	258	26	13	14	11	9	6	7	14	2,246
Hispanics	: 6						-6 	8	15	2,158
Blacks and others	: 6									
	:									
	: 107	17	7	18	18	6	10	8	15	3,363
	98	18	7	19	17	6	ii	9	14	3,383
Hispanics Blacks and others										3,332
Blacks and others	. 4									
IX	334	10	6	20		_				
Whites		10	10	20 14	12	5	10	14	23	4,941
Hispanics		6	5	14 20	16 13	5	. 9	9	28	4,926
Blacks and others		22	3	32	0	7 1	11	14	25	5,366
:			,	32	U	1	10	22	10	2,217
X :		18	14	19	19	5	7	6	12	2,410
Whites :		18	16	19	13	6	7	7	13	2,410
Hispanics										2,029
Blacks and others :	2									

Zeros appear where estimate was fewer than 500.
-- = base was fewer than 50,000 persons.
1/ Includes operating a farm and unpaid family labor.

Appendix table 15--All hired farmworkers: Percentage distribution of annual farm earnings by selected characteristics and regions, 1981

	Thousand	s:			Annual f	arm earnings	AC 500 :	. 67 500 5	610 000	Median
Characteristics	of	: Fewer :than \$500	:\$500 to	:\$1,000 to	: \$3,999	o:\$4,000 to : \$5,499	:\$5,500 to	: \$9,999 :	\$10,000: and over:	
	:	: Luan \$500	. 9977	. 92,422	Perce					Dollars
		39	12	17	7	5	6	6	6	923
all wormers	: 2,492 :	39	12	1,	•	,	-			
	: : 1,824	44	12	17	6	5	5 10	4 11	6 12	694 2,872
	: 328 : 340	18 33	10 15	15 19	16 5	5 4	10	9	3	1,117
Blacks and others	:						7	7	8	1,206
	: 1,918 : 1,434	34 39	12 12	17 18	8 7	5 5	6	5	7	933
Hispanics	: 237	12	11	11	16 7	6 5	12 12	14 12	15 3	3,581 1,568
Blacks and others	: 247	26	16	17	,				-	
Females	574	55	12	17 14	6 4	3	4 3	2 1	1	397 342
Whites Hispanics	: 390 : 90	60 35	13 9	24	16	4	6	3	3	1,177
Blacks and others	93	51	12	26	1	1	5	3	2	347
Primary employment status:	:	_		10	12	10	18	18	19	6,106
Farmwork Hired farmwork	: 796 : 706	7 1	4	12 12	12	10	20	20	21	6,654
Without nonfarmwork	: 601	1	3	11	13	9 18	20 20	21 14	23 12	7,079 5,172
With nonfarmwork	: 105 : 90	0 55	8	20 15	10 8	4	4	1	5	415
Other farmwork <u>1</u> / Nonfarmwork	: 420	56	15	17	5	4	1	0	0	397 676
Unemployed	: 86	43	18	22	9 5	4 2	5 1	0	0	426
Not in labor force	: 1,189 : 199	54 50	17 17	19 25	6	1	0	0	Ō	512
Keeping house Attending school	: 858	57	18	18	4	2	1	0	0	408 718
Other	: 132	43	13	22	13	4	1	0	U	710
Age (years):	: 605	60	17	15	5	2	0	0	0	363
14-17 18-24	: 706	37	13	22	8	5	. 5	.5	6	1,008
25-34	: 498	31	8	17 12	8 11	6 6	10 13	11 9	15	3,096
35-44	: 236 : 180	23 26	12 13	16	8	8	8	8	13	1,674
45-54 55-64	: 104	23	7	11	6	8	26	10	6	3,895 606
65 and over	: 108	44	11	15	9	6	2	6	1	000
Days of farmwork: Fewer than 25	: 969	91	8	1	0	0	0	0	0	140
25-74	: 538	16	34	46	3	.0	0	0	0	1,000 2,536
75-149	: 310	1	13 1	30 13	35 12	14 19	28	15	10	5,643
150-249 250 and over	: 281 : 394	0	1	9	7	6	19	26	32	8,116
Household and migrant	:									
status:	: : 1,046	28	10	13	9	5	10	10	13	2,059
Household heads Migratory	: 44									2,059
Nonmigratory	: 1,003	29	10	13	9	5	10	10	13	
Other household members	: 1,446	47	14		7	.5	4 14	3 0	2 0	558 1,144
Migratory	: 72 : 1,374	26 48	20 14		8 7	12 4	3	3	2	527
Nonmigratory	:	40	1-							
Census regions: Northeast	: 204	34	14	21	6	3	4	7	10	1,104
Whites	: 190	35	13		7	2	4	8	10	1,143
Hispanics Blacks and others	: 6			=		=				
	: 688	49	12	14	6	5	5	3	4	508
North Central Whites	: 672	49	12	2 14	6		4	3	5	505
Hispanics	: 8									
Blacks and others	: 8								•	796
South	: 1,004	40	14		6		8 6	5 3	2	689
Whites	: 627 : 113	44 35	14	19	13		11	11	3	1,882
Hispanics Blacks and others	: 265	34	10		7		10	8	1	1,035
West	: : 595		10		11		7 5	9	13 11	2,026 1,149
Whites	: 335 : 201		1	1 16 B 19	8 18		10	12	17	3,256
Hispanics Blacks and others	: 201	-	1-		2		9	20	9	1,620
	<u>:</u>								(Continued

Appendix table 15-All hired farmworkers: Percentage distribution of annual farm earnings by selected characteristics and regions, 1981--continued

	:Thousands	3:			Annual fa	rm earnings				
Characteristics	: of : workers	: Fewer :than \$500	:\$500 to : \$999	:\$1,000 t	o:\$2,500 to	:\$4 000 to	:\$5,500 to	\$7,500 t	o: \$10,00	0 Median earning
	: Number									
	:				Percent					Dollars
tandard Federal Regions:	:									
I	: 60	35	11	26	10	4	3	6	4	1,228
Whites	: 60	35	11	26	10	4	3	6	4	1,228
Hispanics	: 0							•	-	1,220
Blacks and others	: 0									
II	: 101	30								
Whites	: 87	30	19	18	4	4	6	8	13	1,173
Hispanics	: 6	31	17	18	4	2	7	9	12	1,179
Blacks and others	: 8									
	: "									
III	: 119	44	9	21	9	1	5		_	_
Whites	: 106	43	10	19	9.	i	5	6	5	720
Hispanics	: 0			• • •	,		,	7	5	715
Blacks and others	: 13									
	:									
IV	: 567	40	16	18	7	5	7	4	2	786
Whites	: 347	46	16	18	4	6	6	2	2	567
Hispanics	: 18									
Blacks and others	: 201	35	16	19	7	5	10	7	1	918
v	: 200								-	710
·	: 380 : 377	49	12	17	6	3	5	2	5	502
Hispanics	: 377 : 3	50	11	17	6	3	5	2	5	498
	: 0									
	: 0									
	384	38	12	16	5	,	_			
	: 229	40	11	19	6	6 6	8	8	5	957
Hispanics	: 102	40	10	9	5	6	6	6	6	915
Blacks and others	: 53	28	18	14	5	5	10 13	12 13	6	1,033
	:		•••	•-	,	,	13	13	0	1,075
	: 269	51	12	10	6	7	4	4	4	494
	: 258	52	13	10	ő	7	4	4	4	494
	: 6									471
	: 6									
	:									
	: 107 : 98	37	13	16	9	5	7	6	6	1,047
	: 98 : 5	36	12	17	8	6	7	7	5	1,157
	: 4									·
	. .									
	334	18	9	16	.,					
	: 115	31	8	11	11 11	5 6	8	13	18	3,014
	: 165	7	9	19	11	6	3	.8	20	2,279
	: 54	22	11	19	14	1	11 10	13	18	3,885
			**	1,5	1		10	22	9	2,217
	: 172	39	12	19	12	3	6	3	,	001
	148	43	13	19	7	4	6	4	6 6	991
	23									876
Blacks and others	. 2									

Zeros appear where estimate was fewer than 500.
-- = base was fewer than 50,000 persons.
1/ Includes operating a farm and unpaid family labor.

Appendix table 16--Hired farmworkers who did farmwork and nonfarmwork: Percentage distribution of annual nonfarm earnings by selected characteristics and regions, 1981

Characteristics : of: Fewer: \$500 to: \$1,000 to: \$2,000 to: \$5,500 to: \$1,000	Median earnings	\$10,000	:\$7,500 to	:\$5,500 to	:\$4.000 to	1:\$2 500 to	-01 000 +		·		
All workers : 1,014				· c7 //00	. 65 /00	. 63 000	. \$2 400	\$500 to	: rewer		
All workers	Dollars		. 37,777	. 37,433				. 2999	:than \$500	:	
Ethnic groups and sex: Whites	2,128	15	5	7				10	26	:	All workers
Whites 1861 25 9 18 13 8 7 4 15 Blacks and others : 69 0 16 16 9 12 3 15 14 Blacks and others : 84 34 16 20 11 4 7 1 8 Males : 773 23 11 17 14 6 8 5 17 Whites : 652 23 11 17 14 6 8 5 17 Hispanics : 60 15 18 4 10 3 18 13 18 13 18 13 18 13 18 13 18 13 18 13 18 19 11 13 4 5 7 11 12 14 15 5 8 4 17 11 12 14 10 14 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>:</td> <td></td>										:	
Blacks and others	2,212 3,754										Whites
Whites	1,173										
Hispanics	2,353 2,363										
Pemales	4,044	18	13	18	3		4				
Mintes	957		1	7	3	15	14	17	33	: 61 :	Blacks and others
Hispanics : 9	1,353 1,376										
Primary employment status: Primary employment status: Farmwork										: 9	Hispanics
Farmwork										: 23 :	
Without nonfarmwork 1 05 33 17 20 24 3 2 0 2 Other farmwork 1 105 33 17 20 24 3 2 0 2 Other farmwork 1 420 3 4 11 15 12 13 11 32 Unemployed 4 46	1,296	5	0	1	3	23	22	16	29	: : 124	
With nonfarmwork : 105 33 17 20 24 3 2 0 2 Other farmwork I : 420 3 4 11 15 12 13 11 32 Unemployed : 46	1,084	2	0	2	3	24	20	17	33	: 105	
Other farawork 1/ : 20	1,084	2	0	2	3	24	20	17	33		
Unemployed : 46	6,313										
Not in labor force : 423											
Attending school : 342 50 14 19 9 4 4 1 1 0 Other : 366	567				4						Not in labor force
Age (years): 14-17 : 18	494				4						
14-17 : 188 72 11 14 1 2 1 0 0 18-24 18-24 1 1 1 0 0 0 18-24 18-24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										: 36 :	
18-24 : 417 17 13 22 16 8 9 5 11 25-34 : 246 14 6 14 14 8 9 6 30 35-44 : 68 11 5 10 13 8 12 19 21 45-54 : 58 7 9 18 26 12 6 1 20 55-64 : 18 -	253	0	0	1	2	1	14	11	72	: 188	
35-44 : 68 11 5 10 13 8 12 19 21 45-54 45-54 : 58 7 9 18 26 12 6 1 20 55-64 : 18	2,277	11	5	9	8	16	22	13	17	: 417	18-24
45-54 : 58 7 9 18 26 12 6 1 20 55-64 55-64 : 18	4,036 5,905										
65 and over : 20	3,024	20	1	6	12	26	18	9	7	: 58	45-54
Fewer than 25 : 526 24 10 14 11 10 7 5 19 25-74 : 264 27 9 22 13 4 7 6 12 75-149 : 115 19 12 19 16 7 15 3 10 150-249 : 74 31 13 17 19 4 7 3 7 250 and over : 34			==								
25-74 : 264 27 9 22 13 4 7 6 12 75-149 : 115 19 12 19 16 7 15 3 10 150-249 : 74 31 13 17 19 4 7 3 7 250 and over : 34 Rousehold and migrant : **Rousehold heads : 463 11 10 14 13 6 9 9 27 Migratory : 20 Nonmigratory : 443 11 10 14 13 6 9 9 27 **Other household members : 551 38 10 20 13 8 6 2 4 **Migratory : 12 Nonmigratory : 539 37 11 20 13 8 6 1 4 **Migratory : 539 37 11 20 13 8 6 1 4	0.504		_	-			.,				
75-149 : 115	2,524 1,703										
250 and over : 34	2,704	10	3	15	7	16	19	12	19	115	75-149
## Status: Household heads 1463 11 10 14 13 6 9 9 27 Migratory 20 Nonmigratory 443 11 10 14 13 6 9 9 27 Other household members 551 38 10 20 13 8 6 2 4 Migratory 12 Nonmigratory 539 37 11 20 13 8 6 1 4 Higratory 1 12 13 14 15 Higratory 1 12 13 15 15 Higratory 1 12 13 15 15 Higratory 1 14 15 15 Higratory 1 15	1,811				-4	19 		13	31		
Household heads : 463 11 10 14 13 6 9 9 27 Migratory : 20 Nonnigratory : 443 11 10 14 13 6 9 9 27 Cother household members : 551 38 10 20 13 8 6 2 4 Migratory : 12 Nonnigratory : 539 37 11 20 13 8 6 1 4										:	Household and migrant
Migratory : 20	4,049	27	q	q	6	13	14	10	11	: 463	
Other household members: 551 38 10 20 13 8 6 2 4 Migratory: 12 Nonmigratory: 539 37 11 20 13 8 6 1 4										: 20	
Migratory : 12 Nonmigratory : 539 37 11 20 13 8 6 1 4	4,039			9	6	13	14	10	11	: 443 :	Nonmigratory
Nonmigratory : 539 37 11 20 13 8 6 1 4	1,125	4	2	6	8	13	20	10	38		Other household members
Construction of the Constr	1,162	4	1	6	8	13	20	11	37		
census regions:	0.150	-					••	,	••	:	Census regions:
Northeast : 96 28 6 20 18 12 8 1 7 Whites : 90 26 6 21 17 12 8 2 8	2,158 2,187										
Hispanics : 2										: 2	
Blacks and others : 3										:	
North Central : 338 28 11 17 11 7 6 4 16 Whites : 330 28 11 17 11 7 6 4 16	1,950 1,981										
Hispanics : 5										: 5	Hispanics
Blacks and others : 3 :										: 3 :	Blacks and others
South : 378 23 9 17 11 9 10 7 13 Whites : 281 22 7 18 12 10 8 7 16	2,441							9			
Hispanics : 32	2,584 										
Blacks and others : 64 29 19 19 11 6 9 0 7	1,215	7	0	9	6	11	19	19	29		Blacks and others
West : 202 · 25 13 15 17 3 5 2 19	1,535										
Whites : 159 25 12 17 19 3 6 2 16 Hispanics : 29	1,821						17				
Blacks and others : 14	==										

Continued--

Appendix table 16--Hired farmworkers who did farmwork and nonfarmwork: Percentage distribution of annual nonfarm earnings by selected characteristics and regions, 1981--continued

	: Thousand	s:			Annual no	nfarm earn:	ings			Median
Characteristics	: of	: Fewer :than \$500	:\$500 to	:\$1,000 to	:\$2,500 to	:\$4,000 to	:\$5,500 t	o:\$7,500 to	\$10,000	Median
	: WOLKELB	. c. nau \$500	. 5999	: \$2,499	: \$3,999	: \$5,499	: \$7,499	: \$9,999	:and over	;
	: Number				Percen	t				Dollars
Standard Federal Regions:	:					_				
I	: 31									
Whites	: 31									
Hispanics	: 0									
Blacks and others	: 0									
II	: 48									
Whites	: 43									
Hispanics	: 75									
Blacks and others	: 3									
III	: 42									
Whites	: 42								·	
Hispanics	: 0									
Blacks and others	: 4									
IV	:									
Whites	: 211	23	8	22	12	11	7	2	15	2,098
Hispanics	: 161	21	6	23	12	12	7	3	16	2,462
Blacks and others	: 0									
blacks and others	: 50 :	27	16	20	13	7	7	0	9	1,400
v	: 196	29	12	15	13	6	7	5	14	1,999
Whites	: 193	28	12	15	14	6	7	5	14	1,999
Hispanics	: 3									.,,,,,
Blacks and others	: 0									
VI	: 153	27	8	10	12	8	11	11	12	2,968
Whites	: 108	29	6	9	15	10	5	9	17	2,968
Hispanics	: 34								17	2,910
	: 11									
	: 128	26	9	21	8	•		_		
	: 123	27	8	20	8	9	4	3 4	20	1,567
	: 3						4		21	1,587
	: 2									
	: 48	22	11	10		_				
	: 43	22	11	13 15	20 18	2	8	4	19	
	: 2		12	15	18	3	9	3	18	
	: 3					=				
	:									
IX Whites	: 81 : 47	19	22	14	12	2	6	2	23	1,340
	: 4/									
	: 24									
	:									
	: 76	32	7	20	20	3	3	3	14	1,531
	. 74	33	7	20	18	3	3	3	13	1,434
	: 1									·
Blacks and others	: 1									

Zeros appear where base was fewer than 500.

^{-- =} base was fewer than 50,000 persons.

1/ Includes operating a farm and unpaid family labor.

Appendix table 17--Hired farmworker estimates: A comparison using 1970 and 1980 census weights, 1981

	:		D. 66		
Characteristics	19	70	19	980	Difference 1980 minus
	Number	Distribution	Number	Distribution	1970
	Thousands	Percent	Thousands	Percent	Thousands
All workers 1/	2,423	100	2,492	100	69
Racial/ethnic groups:	:				
Whites	: 1,794	74	1,824	73	30
	312	13	328	13	16
	: 317	13	340	14	23
Primary employment	:				
status:	:				
Farmwork	: 768	32	796	32	28
Hired farmwork	: 680	28	706	28	26
Without farmwork	: 578	24	601	24	23
	: 101	4	105	4	4
Other farmwork 2/	: 89	4	90	4	1
-	: 410	17	420	17	10
	: 83	3	86	3	3
	:				
force	: 1,161	48	1,189	48	28
	: 192	8 .	199	8	7
	: 840	35	858	34	18
Other	: 128	5	132	5	4
	: :				
	: 594	25	605	24	11
	; 737	30	760	31	23
	: 476	20	498	20	22
	: 231	10	236	9	5
	: 178	7	180	7	2
	: 101	4	104	4	3
65 and over	: 105	4	108	4	3
*	: :				
	: 112	5	115	5	3
9	: 2,311	95	2,377	95	66
Census Region:	:				
	: 205	8	204	8	-1
	: 692	29	688	28	-4
	: 963	40	1,004	40	41
West	: 562	23	595	24	33
	<u>:</u>				Continued-

Appendix table 17--Hired farmworker estimates: A comparison using 1970 and 1980 census weights, 1981--continued

	:	:			
Characteristics	1	970	1	980	Difference, 1980 minus
	Number	Distribution	Number	Distribution	1 97 0
	: Thousands	Percent	Thousands	Percent	Thousands
Days of farmwork:	:				
Fewer than 25	: 949	39	969	39	20
25-74	: 520	21	538	22	18
75-149	: 303	13	310	12	7
150-249	: 270	11	281	11	11
250 and over	: 380 :	16	394	16	14

 $[\]frac{1}{2}/$ Numbers and percentages may not add to totals due to $\frac{1}{2}$ Includes operating a farm and unpaid family labor. Numbers and percentages may not add to totals due to rounding.

APPENDIX II: SOURCE AND RELI-ABILITY OF ESTIMATES Estimates in this report are based on data obtained in December 1981 from supplementary questions in the CPS of the Bureau of the Census.

Sampling Procedures and Questionnaire Design

The CPS sample was initially selected from 1970 census files and is updated periodically to reflect new home construction. This sample includes 620 areas comprising 1,113 counties and independent cities 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 58,000 U.S. households. The supplementary questions on the December survey were asked of persons 14 years of age or older who performed farmwork for wages or salary during 1981. Questions concerned the number of days of farmwork for wage or salary, migratory status, hired nonfarmwork and wages, principal employment status in 1981, residence, and other matters. Persons performing hired farmwork during 1981 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 hired 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 even if it had been taken 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 variability. Nonsampling errors can be attributed to many sources. A partial list would include inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, respondents' inability or

⁶ For a detailed explanation of CPS sampling procedures, see The Current Population Survey-A Report on Methodology, U.S. Bureau of the Census, Paper 7, U.S. Govt. Print. Off., 1963.

unwillingness to provide correct information, inability of respondents to recall information, mistakes made in recording or coding the data, mistakes made in processing data, mistakes made in estimating values of missing data, and failure to represent all units in the sample.

Undercoverage in the CPS results from missed housing units and missed persons within sampled households. Overall undercoverage, as compared to the level of the 1980 decennial census, is about 7 percent. CPS undercoverage varies with age, sex, and race. Generally, undercoverage is 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 less than twice 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

The figures presented in appendix tables 18 through 22 provide approximations of standard errors of various estimates shown in this report for data on total, white, and black and other hired farmworkers. To obtain standard errors for workers of Hispanic origin, multiply the standard errors in appendix tables 18 through 22 by 1.4.

Standard errors for values not shown in the standard errors tables may be 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. As a result, the tables of standard

errors (along with the factor for persons of Hispanic origin) provide an indication of the size of the standard errors rather than the precise standard error for any specific item.

Standard Errors of Estimated Numbers

Appendix table 18 shows standard errors, $\sigma_{\rm X}$, for estimated numbers of hired 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.

$$\sigma_{x} = c\sqrt{ax^{2} + bx}, \qquad (1)$$

where x is the actual size of the estimate (not rounded to thousands); a is 0.000382; b is 3,796; 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 hired farmworkers only.

Standard Errors of Estimated Percentages

Appendix table 19 shows standard errors of estimated percentages of hired farmworkers. The reliability of an estimated percentage, computed by using sample data for both numerator and the denominator, depends on both the size of the percentage and the size of the total on which the percentage was based. Estimated percentages are relatively more reliable than the

Appendix table 18--Standard errors for estimated numbers of hired farmworkers $\underline{\mathbf{1}}/$

(68 chances out of 100)

Size of estimates	: Standard error
Th	ousands
10	6
25	10
50	14
100	20
250	31
500	45
1,000	65
2,500	109
3,000	122

^{1/} To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

Appendix table 19--Standard errors of percentages of hired farmworkers $\underline{1}/$ (68 chances out of 100)

Estimated	:		Base of	percentag	ge in th	ousands		
percentage	25	50	100	250	500	1,000	÷ 2,500	3,000
	:			Pero	cent			·
1 or 99 2 or 98	: 3.9		1.9 2.7	1.2 1.7	0.9 1.2	0.6	0.4	0.4
5 or 95	: 8.5	6.0	4.2	2.7	1.9	1.3	•5 •8	•5 •8
10 or 90 15 or 85	: 11.7 : 13.9	0.0	5.8 7.0	3.7 4.4	2.6 3.1	1.8 2.2	1.2 1.4	1.1 1.3
25 or 75 50	: 16.9 : 19.5		8.4 9.7	5.3 6.2	3.8 4.4	2.7 3.1	1.7 1.9	1.5
	:							1.0

 $\underline{1}/$ To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

corresponding estimates of the numerators of the percentages, particularly if the percentages are 50 percent or more. Linear interpolation may be used to obtain standard errors for intermediate values of the percentages and the base of the percentages shown in appendix table 19. Or standard errors, $\sigma(\mathbf{x},\mathbf{p}),$ can be calculated using formula (2). Direct computation will give more accurate results than linear interpolation.

$$\sigma_{(x,p)} = c \sqrt{\frac{b}{x} p (100 - p)},$$
 (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 \leq p \leq 100); b is 3,796; 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 hired 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 20 shows standard errors of average numbers of days of hired farmwork; appendix table 21 shows standard errors of average annual earnings; and appendix table 22 shows standard errors of average daily earnings. Linear interpolation may be used to obtain standard errors for intermediate values not shown.

In the source and reliability statement for tables 20 and 21 in The Hired Farm Working Force of 1979, standard errors were provided based on a new variance estimation procedure. However,

Appendix table 20--Standard errors of average number of days of hired farmwork $\underline{1}/$ (68 chances out of 100)

Average number of days	:	1	Ва	se of	a	verag	e,	in t	ho	usand	s,	of h	ired far	mworker	:s
of hired farmwork per year per worker	:-	50	:	100	:	200	:	250	:	500	:	750	1,000	2,500	3,000
	:									Numbe	r				
10	:	1.2		1.0		0.8		0.7		0.5		0.4	0.4	0.3	0.2
25	:	3.5		3.1		2.5		2.2		1.5		1.4	1.3	•9	• 7
50	:	10.2		7.2		6.4		5.7		4.0		3.6	3.4	2.3	2.0
75	:	16.4		11.6		9.2		8.2		5.7		4.7	4.5	2.8	2.5
100	:	19.2		13.6		10.7		9.6		6.8		5.6	5.0		2.9
125	:	20.0		14.2		10.8		9.7		7.2		5.9	4.8	3.0	2.8
150	:	19.7		14.0		10.6		9.5		6.8		5.6	3.6	2.4	2.1
200	:	15.5		11.0		7.8		7.0		5.0		4.1	3.0	2.0	1.7
250	:	11.3		8.0		5.6		5.0		3.5		2.9	1.3	.9	• 7
300	:	7.1		5.0		3.4		3.0		2.0		1.6	.8	• 5	• 4

Note: Appendix table 20 pertains to averages computed from distributions allowed to vary over the entire range of days worked. Standard errors for truncated distributions (for example, workers with fewer than 25 days of hired farmwork) are somewhat smaller.

Appendix table 21--Standard errors of average annual earnings from hired farmwork $\underline{1}/$ (68 chances out of 100)

Average earnings from hired farmwork per	:	В	ase	e of	av	erage	, in th	iousa	nds	, of hi	red farm	workers	
year per worker (Dollars)	: :	50	:	100	:	200	250	5	00	750	1,000	2,500	,000
	:							Do1	lar	s			
100	:	17		12		9	8		6	5	4	3	2
250	:	58		41		29	26		19	18	16	11	10
500	:	118		84		59	53		41	40	35	23	21
750	:	178		126		89	80		64	62	54	36	33
1,000	:	219		155		110	98		85	79	68	45	41
2,000	:	314		223		158	141	1	32	110	96	64	58
3,000	:	331		235		167	149	1	38	114	99	66	60
4,000	:	340		241		171	153	1	41	115	100	67	61
5,000	:	344		244		173	155	1	142	115	100	67	61
6,000	:	346		245		174	156]	142	115	100	67	61
9,000	:	345		245		174	156	1	142	115	100	67	61
,,	:												

^{1/} To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

 $[\]frac{1}{1}$ To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

Appendix table 22--Standard errors of average daily earnings from hired farmwork 1/

(68 chances out of 100)

Average earnings from hired farmwork per	:	В	186	of a	ver	age,	in	thous	and	s, of	h:	ired fa	arı	nworker	s
year per worker (Dollars)	:	50	:	100	:	250	:	500	:	750	:	1,000	:	2,500	3,000
	:							D	011	ars					
5.00	:	0.60		0.42		0.27		0.19		0.17		0.14		0.09	0.08
7.00	:	1.13		.81		•51		• 36		.31		.26		.16	.15
9.00	:	1.46		1.04		.66		•50		.42		• 35		•22	•20
11.00	:	1.52		1.08		•68		•53		.48		.43		• 27	•25
13.00	:	1.54		1.09		.69		• 55		•51		•47		•30	• 27
15.00	:	1.57		1.11		.71		•56		•53		• 50		.32	.29
17.00	:	1.59		1.13		.73		• 57		•55		• 52		.33	•30
19.00	:	1.62		1.15		•75		• 58		• 56		•53		•34	.31
21.00	:	1.64		1.16		.76		•59		• 57		• 54		•34	•31
25.00	:	1.66		1.18		.78		.61		•59		• 55		•35	.32
27.00	:	1.68		1.19		•80		•62		•60		•56		.35	.32
30.00	: :	1.69		1.20		.81		•63		•61		• 57		•36	•33

 $[\]frac{1}{}$ To obtain approximate standard errors for persons of Hispanic origin, multiply the above standard errors by 1.4.

re-analysis of the 1979 standard errors via the variance a and b parameters showed that the individual curves were based on only a few items; thus, the reliability of these variances is questionable. Therefore, it is recommended that the parameters and tables in the 1981 report be used to calculate standard errors for 1979 data.

Illustration
of Use of
Standard
Error Tables

Appendix table 1 of this report shows 2,492,000 persons performing hired farmwork in 1981. Interpolation of data in appendix table 18 shows the standard error for an estimate of this size to be approximately 109,000. 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 109,000. The chances are 95 out of 100 that the estimate would have differed from a complete census figure by less than 218,000 (twice the standard error).

Appendix table 1 also shows 39 percent of the farmworkers worked fewer than 25 days. Interpolation in appendix table 19 indicates the standard error for 39 percent of a base of 2,492,000 would be approximately 1.9 percent. Consequently, chances are 68 out of 100 that the estimated 39 percent would have differed from a complete census figure by less than 1.9 percent; the chances are 95 out of 100 that the estimate would

have differed from a complete census figure by less than 3.8 percent. For example, the 95-percent confidence interval would be from 35.2 to 42.8 percent.

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, and averages. This method will represent the actual standard error quite accurately for the difference between two estimates of the same characteristic 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 16 percent of farmworkers worked 250 days and over. The apparent differences between the workers who worked fewer than 25 days (39 percent) and those who worked 250 days and over is 23 percentage points.

Appendix table 19 shows, by interpolation, the standard error for 16 percent on a base of 2,492,000 to be approximately 1.4 percent (σ). The standard error for 39 percent is 1.9 percent (σ). To get the standard error of the estimated difference, formula (3) for the standard error of a difference is used as follows:

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

Therefore, the standard error of the estimated difference is

$$2.36 = \sqrt{(1.4)^2 + (1.9)^2}.$$

This means the chances are 68 out of 100 that the estimated difference based on the sample would vary by 2.36 percentage points from the difference derived using complete census figures. Since the standard error of the estimated difference (2.36 percentage points) is less than the difference between the two estimates (23 percentage points), it can be concluded with 68 percent confidence that the percentage of hired farmworkers who worked fewer than 25 days in 1981 is greater than the percentage of workers who worked 250 days and over in 1981.

APPENDIX III: DEFINITIONS AND EXPLANA-TIONS <u>Hired Farmworkers:</u> Persons 14 years old and over in the civilian noninstitutional population of the United States 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: 1) work done on any farm for cash wages or salary in connection with the production, harvesting, threshing, preparation 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 farms, or "exchange" work between farmers; 2) work done exclusively for "pay in kind;" 3) work done without pay on a family farm by a member of the farm operator's family (a small regular cash allowance is not considered as farm wages); 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.

Work Classification: Casual workers--persons who worked fewer than 25 days at farmwork. 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 Hired Farmwork or Nonfarmwork:

Days on which any hired 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.

Primary Employment Status (termed "chief activity" in reports prior to 1976): Information on the primary employment status of hired farmworkers during the year was derived from the question, "What was doing most of 1981--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. "Other farmwork" was recorded if most of a person's working time was spent operating a farm (as a tenant, owner, or sharecropper) or as an unpaid family farmworker. "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 family nonfarm business, or working for pay (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. ing for work" (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 his or her own housework. "Going to school" was reported for a person who spent most of the time during the year going to school. The category "other" was reported for a person who spent most of the time at some activity other than those named above.

Major Crop or Livestock Activity: Information on crop or livestock activity was derived from the question, "What crops or livestock did work with most on the farm where he or she worked the greatest number of days in 1981?" Categories of response included grains, tobacco, cotton, other field crops, vegetables and melons, fruit or tree nuts, beef cattle, dairy, other livestock, nursery or tree crops, and other.

Migratory Status: Migratory workers are those 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 workers 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.

Distance Traveled: Determined by asking the respondent, "What was the longest distance away from home that traveled while doing farmwork for cash wages?" Interviewers were instructed to record the mileage traveled by the workers from the time they left their homesite until the time they reached the place that was the longest distance away from their home. Distance traveled does not include miles to return to homesite.

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

Education Completed: Derived from the combination of answers to questions concerning the highest grade of school attended by the person and whether or not the grade was finished. 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—whites, Hispanics, and blacks and others. "Ethnic origin" was determined for this report by asking respondents their origin 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 his or her 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 whites, Hispanics, and blacks and others.

Family Income: As defined in this study, represents the combined total money income of the family head plus the income of all the head's relatives 14 years of age and over who were family members at the time of the survey. Family income includes wages and salaries, net income from business or farm, pensions, dividends, interest, rent, social security payments, and any other money income received by members of the family during the 12-month period prior to the interview.

Region: Hired farmworker data are presented in the report by two different regional aggregations of States, the four census regions and the 10 Standard Federal Regions.

States included in each of the four census regions are as follows: Northeast—Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, Pennsylvania, and New Jersey; North Central—Ohio, Indiana, Illinois, Wisconsin, Michigan, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas; South—Maryland, Delaware, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and Texas; and West—Montana, Wyoming, Idaho, Colorado, New Mexico, Utah, Arizona, Nevada, Washington, Oregon, California, Hawaii, and Alaska.

The States included in each of the 10 Standard Federal Regions are as follows: Region I—Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Region II—New Jersey and New York; Region III—Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia; Region IV—Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee; Region V—Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin; Region VI—Arkansas, Louisiana, New Mexico, Oklahoma, and Texas; Region VII—Iowa, Kansas, Missouri, and Nebraska; Region VIII—Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming; Region IX—Arizona, California, Hawaii, and Nevada; Region X—Alaska, Idaho, Oregon, and Washington.

Residence: Based on the classification of the place in which the worker lived at the time of the survey. Farm—hired farm—workers were classified as living on farms (farm residents) if they lived on places from which at least \$1,000 worth of agricultural products were sold or normally would have been sold in the reporting year. Prior to 1981, the old farm definition was used, with farm residents classified as those living on a place of 10 or more acres of land from which at least \$50 worth of agricultural products were sold, or less than 10 acres if as

much as \$250 worth of agricultural products were sold from the place in the reported year. Nonfarm—workers who lived in urban places, rural towns or villages, or in the open country on places that did not meet the criteria for farm classification.

Northern Great Plains Coal Mining

What are the likely effects of expanded coal mining in Montana. Wyoming, and North Dakota on the small towns and communities there? Mining activity in the sparsely populated region has grown dramatically over the last decade-from less than 20 million tons of coal in 1970, to 100 million tons in 1978, with projections for 350 million tons per year by the mid-1980's

The Fort Union coal formation, which straddles those three States contains nearly 40 percent of the Nation's coal reserves. Its coal is highly desirable because:

-It is low in sulfur, meaning that it can be burned by utility companies with less air pollution than other coal.

-It is in thick seams (some seams up to 200 feet thick), and can be recovered by strip mining.

To try to ascertain the effects of development on the region, the authors of this report used computerized simulations of various levels of coal activity to see if the communities could afford the increased level of government services and upgraded infrastructure required by new energy projects and the larger population attracted by those projects.

In the long run (10 years or more). most communities in the region will be able to pay for the services required by the new coal-related development, provided that they can tax the new developments. Without taxing authority (for instance, if the mine lies outside the taxing district of a locality), they will have problems.

Northern Great Plains Coal Mining: Regional Impacts (by Thomas F. Stinson, Lloyd D. Bender, and Stanley W. Voelker; AIB-452; July 1982; 36 pages; color illustrations; \$5; stock no. 001-000-04265-3).

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Mineral Tax Laws Reviewed

State taxes on mineral production yielded more than \$4 bil-States takes on the states in the states for 17 major mineral-producing States in 1980 and accounted for more than 20 percent of total tax revenues in 7 States. Yet, raising State revenues seems to be only a minor reason for many States in taxing mineral re-Sources. In addition, taxing minerals presents problems un-Bike those involved in other kinds of taxes (how and when to assess the value of the minerals, for example).

State Mineral Taxes, 1982, summarizes the mineral tax laws in 31 States and includes special uses for which the tax rev

enues are earmarked. The report tells you:

• Why States levy special taxes on minerals. The explanations usually given include recovering the cost of increased State services, mitigating adverse effects of increased economic activity, and ensuring a fair return to citizens (including future generations) for depleting the State's natural heritage.

 How State laws have fared in legal challenges and the reasons given by the courts in overturning some tax laws • The most common kinds of severance taxes levied on minerals, how they differ from one another, and how they While upholding others. compare with one another on factors like ease of administra-

tion, equity, and so forth.

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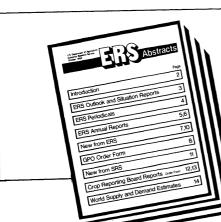
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