



# Farm Labor

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## Hired Workers Up 6 Percent, Wage Rates Up 6 Percent From a Year Ago

There were 1.08 million hired workers on the Nation's farms and ranches during the week of April 7-13, 2002, up 6 percent from a year ago. There were 890,000 workers hired directly by farm operators. Agricultural service employees on farms and ranches made up the remaining 189,000 workers. Migrant workers accounted for 8.8 percent of the April hired work force compared with 8.9 percent in April 2001. The estimate of migrant workers, as a percent of all hired workers, will be discontinued after this report.

Farm operators paid their hired workers an average wage rate of \$8.83 per hour during the April 2002 survey week, up 52 cents from a year earlier. Field workers received an average of \$8.06 per hour, up 45 cents from last April. Livestock workers earned \$8.43 per hour compared with \$8.01 a year earlier. The Field and Livestock worker combined wage rate was up 44 cents from last year.

Number of hours worked averaged 40.2 hours for hired workers during the survey week, unchanged from a year ago.

The largest increases in number of hired farm workers over last year occurred in California, Lake (Michigan, Minnesota, and Wisconsin), Northeast II (Delaware, Maryland, New Jersey, and Pennsylvania), Appalachian I (North Carolina and Virginia), and Corn Belt II (Iowa and Missouri) regions. Mild weather in California promoted field crop, fruit and vegetable, and seasonal activities, unlike the drier conditions in 2001, which reduced planted acres and demand for labor. In the Lake region, weather was generally more favorable for agricultural work this April. In addition to field work, dairy, poultry, hog, and equine operations continued to be active. Spring work activities got an earlier start in the Northeast and Appalachian I regions because of the mild weather. Despite isolated showers across much of the Corn Belt II region, more days were suitable for field work this year and work activities were in full swing.

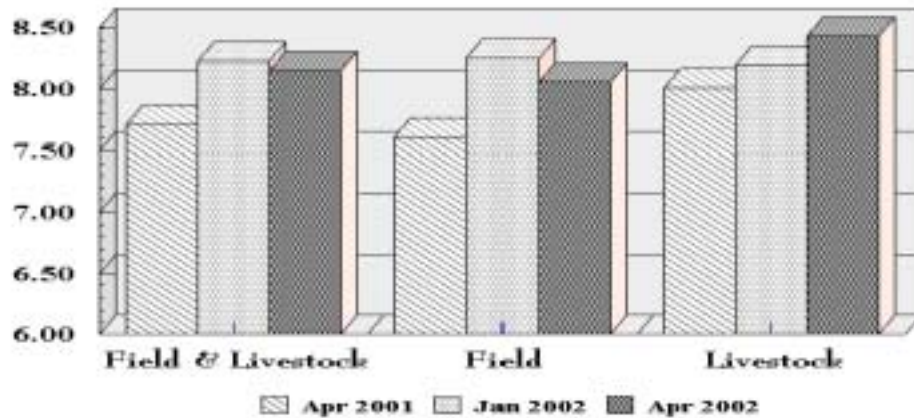
The largest decreases in number of hired farm workers, from a year ago, were in the Southern Plains (Oklahoma and Texas), Florida, Corn Belt I (Illinois, Indiana, and Ohio), Appalachian II (Kentucky, Tennessee, and West Virginia), and Mountain II (Colorado, Nevada, and Utah). Field activities in the Southern Plains region slowed as much needed rain drenched northern areas of Texas and Oklahoma. A wet week across much of Florida, Corn Belt I, and Appalachian II regions also limited field activities. Mild weather in the Mountain II region advanced work activities ahead of normal with fewer workers working longer hours. Primary activities included seeding small grains, fertilizing, field preparations for row crop planting, tending to cattle and sheep, and nursery activities.

Hired farm worker wage rates were above a year ago in all regions. The largest increases occurred in the Mountain II, Mountain III (Arizona and New Mexico) and Appalachian I regions. The higher wages resulted from fewer low paid seasonal workers on the payrolls during the survey week.

**Revisions:** The January 2002 estimates for hired workers and wage rates were revised for California and the U.S. Hired worker wage rates were also revised for Florida.

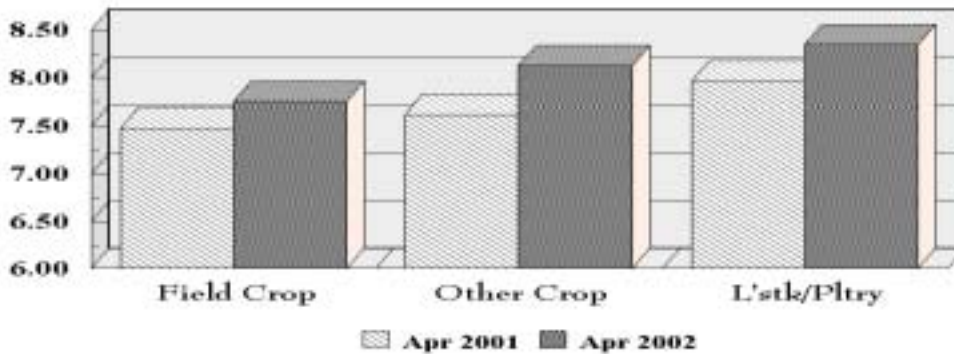
## U.S. Wage Rates by Type of Worker

Dollars/Hour



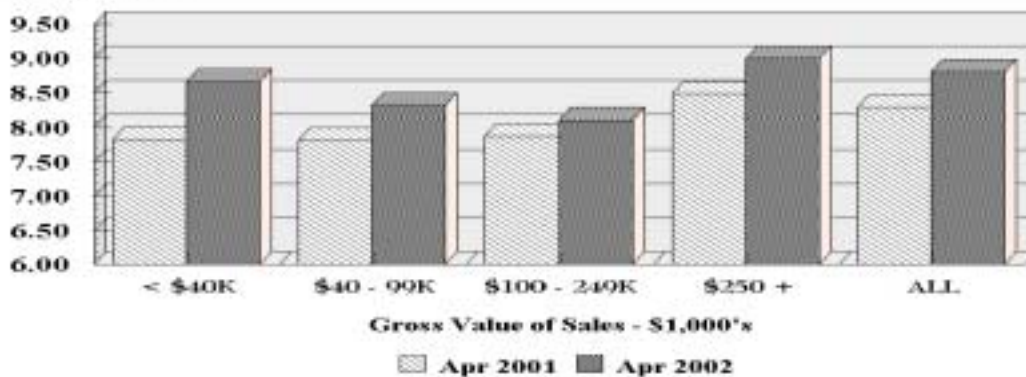
## Wage Rate of Field & Livestock Workers By Type of Farm

Dollars/Hour



## Wage Rates of All Hired Workers by Economic Class of Farm

Dollars/Hour



**Farm Labor: Employment and Wage Rates, United States,  
April 7-13, 2002, with Comparisons <sup>1</sup>**

Farm Employment	April 8-14, 2001	January 6-12, 2002	April 7-13, 2002
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>
Hired Workers	804	*707	890
150 Days or More	627	*584	722
149 Days or Less	177	*123	168
Agricultural Services Workers Working on Farms	215	183	189
Hired Farm & Service Workers	1,019	*890	1,079
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
Migrant Workers Percent of Hired Farm & Service Workers	8.9	7.6	8.8
	<i>Hours per Week</i>	<i>Hours per Week</i>	<i>Hours per Week</i>
Hours Worked Hired	40.2	*38.5	40.2
	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
Wage Rates for All Hired Workers <sup>2 3</sup>	8.31	*8.97	8.83
Type of Worker			
Field & Livestock Combined	7.71	*8.23	8.15
Field	7.61	8.25	8.06
Livestock	8.01	*8.20	8.43

\* Revised.

<sup>1</sup> Excludes AK.

<sup>2</sup> Benefits, such as housing and meals, are provided some workers but the values are not included in the wage rates.

<sup>3</sup> Excludes Agricultural Service Workers.

**Hired Workers: Number and Hours Worked by Region  
and United States, April 7-13, 2002 <sup>1</sup>**

U.S. and Region <sup>2</sup>	Hired			
	Number of Workers	Expected to be Employed		Number of Hours Worked
		150 Days or More	149 Days or Less	
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>Hours per Week</i>
Northeast I	44	38	6	40.6
Northeast II	45	35	10	35.7
Appalachian I	36	29	7	38.2
Appalachian II	23	14	9	34.4
Southeast	44	34	10	44.1
FL	52	46	6	40.6
Lake	55	42	13	36.2
Cornbelt I	43	31	12	34.0
Cornbelt II	27	21	6	32.5
Delta	30	21	9	37.1
Northern Plains	37	29	8	46.0
Southern Plains	60	50	10	39.6
Mountain I	28	23	5	43.0
Mountain II	25	20	5	37.7
Mountain III	20	18	2	46.2
Pacific	69	56	13	38.4
CA	245	209	36	43.7
HI	7	6	1	35.8
US <sup>3</sup>	890	722	168	40.2

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Region map on page 13.

<sup>3</sup> Excludes AK.

**Hired Workers: Wage Rates for Type of Workers and All Hired Workers  
by Region and United States, April 7-13, 2002 <sup>1</sup>**

U.S. and Region <sup>2</sup>	Type of Worker			Wage Rates for All Hired Workers
	Field	Livestock	Field & Lvstk Combined	
	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
Northeast I	8.35	8.56	8.42	9.14
Northeast II	8.20	7.01	7.78	8.83
Appalachian I	7.42	8.60	7.86	8.45
Appalachian II	6.89	7.87	7.31	7.63
Southeast	7.28	8.29	7.42	7.94
FL	7.75	7.50	7.72	8.57
Lake	9.43	8.44	9.01	9.88
Cornbelt I	8.59	8.90	8.70	9.23
Cornbelt II	7.84	9.82	8.89	9.34
Delta	7.05	7.06	7.05	7.50
Northern Plains	8.48	8.06	8.31	9.22
Southern Plains	6.92	7.78	7.31	7.95
Mountain I	7.55	7.92	7.80	8.00
Mountain II	8.06	8.58	8.26	8.95
Mountain III	7.51	8.35	7.71	8.21
Pacific	8.18	9.45	8.33	9.10
CA	8.33	10.20	8.47	9.13
HI <sup>4</sup>	9.40		9.43	11.14
US <sup>3</sup>	8.06	8.43	8.15	8.83

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Region map on page 13.

<sup>3</sup> Excludes AK.

<sup>4</sup> Insufficient data for livestock.

**Hired Workers: Number and Hours Worked by Region  
and United States, January 6-12, 2002<sup>1</sup>**

U.S. and Region <sup>2</sup>	Hired			
	Number of Workers	Expected to be Employed		Number of Hours Worked
		150 Days or More	149 Days or Less	
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>Hours per Week</i>
Northeast I	33	31	2	40.0
Northeast II	33	29	4	38.1
Appalachian I	29	26	3	36.6
Appalachian II	25	15	10	34.4
Southeast	25	21	4	35.7
FL	62	50	12	37.2
Lake	38	33	5	33.5
Cornbelt I	30	25	5	40.4
Cornbelt II	24	21	3	33.5
Delta	24	18	6	33.1
Northern Plains	28	25	3	38.5
Southern Plains	61	54	7	41.5
Mountain I	18	16	2	34.5
Mountain II	17	13	4	33.2
Mountain III	18	16	2	47.7
Pacific	48	39	9	34.6
CA	*186	*145	*41	*42.1
HI	8	7	1	37.0
US <sup>3</sup>	*707	*584	*123	*38.5

\* Revised.

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Region map on page 13.

<sup>3</sup> Excludes AK.

**Hired Workers: Wage Rates for Type of Worker and All Hired Workers  
by Region and United States, January 6-12, 2002 <sup>1</sup>**

U.S. and Region <sup>2</sup>	Type of Worker			Wage Rates for All Hired Workers
	Field	Livestock	Field & Lvstk Combined	
	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
Northeast I	9.58	7.80	8.69	9.46
Northeast II	8.71	6.88	7.95	8.87
Appalachian I	7.73	7.94	7.83	8.72
Appalachian II	6.72	7.18	6.93	7.29
Southeast	7.56	7.61	7.58	8.08
FL	8.15	*8.55	*8.20	*8.97
Lake	10.22	8.26	8.94	9.91
Cornbelt I	9.03	9.22	9.15	9.75
Cornbelt II	8.62	9.41	9.26	9.74
Delta	7.90	7.21	7.61	7.95
Northern Plains	8.34	8.41	8.39	9.00
Southern Plains	7.82	7.37	7.57	8.05
Mountain I	8.02	7.74	7.81	8.34
Mountain II	8.54	8.48	8.51	9.15
Mountain III	7.57	8.48	7.85	8.42
Pacific	8.18	9.64	8.42	9.21
CA	8.25	9.69	*8.36	*9.22
HI <sup>4</sup>	9.36		9.33	10.90
US <sup>3</sup>	8.25	*8.20	*8.23	*8.97

\* Revised.

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Region map on page 13.

<sup>3</sup> Excludes AK.

<sup>4</sup> Insufficient data for livestock.

**Hired Workers: Number and Hours Worked by Region  
and United States, April 8-14, 2001 <sup>1</sup>**

U.S. and Region <sup>2</sup>	Hired			
	Number of Workers	Expected to be Employed		Number of Hours Worked
		150 Days or More <sup>3</sup>	149 Days or Less <sup>3</sup>	
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>Hours per Week</i>
Northeast I	41	33	8	38.8
Northeast II	35	28	7	38.4
Appalachian I	28	23	5	39.1
Appalachian II	27	14	13	36.4
Southeast	37	26	11	42.7
FL	63	52	11	39.9
Lake	43	34	9	36.5
Cornbelt I	51	40	11	37.6
Cornbelt II	21	17	4	37.5
Delta	34	28	6	45.5
Northern Plains	37	30	7	40.3
Southern Plains	77	59	18	38.6
Mountain I	23	19	4	46.4
Mountain II	29	24	5	41.0
Mountain III	22	19	3	46.1
Pacific	61	42	19	38.8
CA	168	133	35	42.1
HI	7	6	1	36.2
US <sup>3</sup>	804	627	177	40.2

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Region map on page 13.

<sup>3</sup> Excludes AK.



**Hired Workers: Wage Rates for Type of Worker and All Hired Workers  
by Region and United States, April 8-14, 2001 <sup>1</sup>**

U.S. and Region <sup>2</sup>	Type of Worker			Wage Rates for All Hired Workers
	Field	Livestock	Field & Lvstk Combined	
	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
Northeast I	8.28	7.92	8.11	8.98
Northeast II	7.95	6.60	7.60	8.42
Appalachian I	7.32	7.39	7.34	7.70
Appalachian II	6.85	7.36	7.03	7.31
Southeast	7.01	7.53	7.05	7.61
FL	7.75	7.90	7.77	8.40
Lake	8.93	8.82	8.87	9.57
Cornbelt I	8.09	8.69	8.23	8.62
Cornbelt II	8.19	8.55	8.41	8.80
Delta	6.55	7.34	6.65	7.09
Northern Plains	8.21	8.20	8.20	8.89
Southern Plains	7.10	7.71	7.33	7.86
Mountain I	7.11	7.16	7.14	7.48
Mountain II	7.37	7.58	7.44	7.99
Mountain III	6.92	6.80	6.90	7.46
Pacific	7.75	8.75	7.87	8.40
CA	7.82	9.02	7.96	8.59
HI <sup>4</sup>	9.06		9.03	10.67
US <sup>3</sup>	7.61	8.01	7.71	8.31

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Region map on page 13.

<sup>3</sup> Excludes AK.

<sup>4</sup> Insufficient data for livestock.

**Field and Livestock Workers Combined: Wage Rates, by Type  
of Farm, by Region and 48 States <sup>1</sup>**

Region <sup>2</sup>	April 8-14, 2001				April 7-13, 2002			
	Field Crops	Other Crops	L'stk & Poultry	All Farms	Field Crops	Other Crops	L'stk & Poultry	All Farms
	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
Northeast	6.93	7.94	7.85	7.86	( <sup>3</sup> )	8.44	7.72	8.11
Appalachian	7.02	7.26	7.21	7.19	6.94	7.55	7.97	7.64
Southeast	7.21	7.30	8.29	7.49	7.20	7.52	7.91	7.57
Lake	( <sup>3</sup> )	8.61	8.80	8.87	( <sup>3</sup> )	9.60	8.33	9.01
Cornbelt	8.73	7.47	8.73	8.28	8.32	8.55	9.05	8.77
Delta	6.60	6.22	7.05	6.65	6.90	( <sup>3</sup> )	7.05	7.05
Northern Plains	7.86	8.68	8.20	8.20	8.64	8.78	7.90	8.31
Southern Plains	6.99	7.07	7.66	7.33	6.97	6.88	7.68	7.31
Mountain	( <sup>3</sup> )	7.36	7.09	7.15	7.00	7.50	8.24	7.91
Pacific	7.70	7.80	8.78	7.94	8.16	8.27	10.15	8.44
48 States	7.48	7.62	7.96	7.71	7.75	8.13	8.35	8.15

**All Hired Workers: Wage Rates, by Economic Class of Farm  
by Region and 48 States <sup>1</sup>**

Region <sup>2</sup>	April 8-14, 2001					April 7-13, 2002				
	Gross Value Sales-\$1000's				All Farms	Gross Value Sales-\$1000's				All Farms
	<40	40-99	100-249	250+		<40	40-99	100-249	250+	
	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
N. East	7.41	7.51	8.81	9.01	8.72	7.81	7.85	7.53	9.50	8.99
Appal.	6.58	7.33	7.81	7.60	7.52	7.50	7.84	7.69	8.47	8.15
S. East	7.51	7.93	7.38	8.26	8.10	6.30	7.56	8.47	8.36	8.27
Lake	9.95	( <sup>3</sup> )	7.79	10.07	9.57	11.49	9.97	7.97	9.73	9.88
Cornbelt	8.97	( <sup>3</sup> )	7.95	8.83	8.67	9.59	( <sup>3</sup> )	8.43	9.83	9.27
Delta	6.77	5.71	7.37	7.35	7.09	7.46	( <sup>3</sup> )	8.25	7.26	7.50
N. Plains	9.85	( <sup>3</sup> )	7.90	9.09	8.89	( <sup>3</sup> )	8.92	7.23	9.79	9.22
S. Plains	7.89	7.62	8.37	7.79	7.86	8.02	7.33	7.23	8.23	7.95
Mountain	7.98	7.24	6.81	7.82	7.66	7.44	7.58	7.95	8.55	8.35
Pacific	9.16	8.45	8.23	8.56	8.54	( <sup>3</sup> )	9.87	8.70	9.10	9.12
48 States	7.84	7.82	7.88	8.49	8.29	8.67	8.32	8.11	9.00	8.81

<sup>1</sup> Excludes Agricultural Service Workers.

<sup>2</sup> Regions consist of the following States:

Northeast: CT, DE, MD, ME, MA, NH, NJ, NY, PA, RI, VT.

Appalachian: KY, NC, TN, VA, WV.

Southeast: AL, FL, GA, SC.

Lake: MI, MN, WI.

Cornbelt: IA, IL, IN, MO, OH.

Delta: AR, LA, MS.

Northern Plains: KS, NE, ND, SD.

Southern Plains: OK, TX.

Mountain: AZ, CO, ID, MT, NM, NV, UT, WY.

Pacific: CA, OR, WA.

48 States: All States, excluding AK and HI.

<sup>3</sup> Insufficient data.

**Field and Livestock Workers: Distribution  
by Type of Farm, 48 States<sup>1 2 3</sup>**

Type of Farm	April 8-14, 2001	January 6-12, 2002	April 7-13, 2002
	<i>Percent of Field and Livestock Workers</i>	<i>Percent of Field and Livestock Workers</i>	<i>Percent of Field and Livestock Workers</i>
Field Crops	12	13	11
Other Crops	57	50	57
Livestock, Dairy, & Poultry	31	37	32
	100	100	100

**Hired Workers: Distribution by Economic  
Class of Farm, 48 States<sup>1 3</sup>**

Gross Value of Sales	April 8-14, 2001	January 6-12, 2002	April 7-13, 2002
	<i>Percent of Hired Workers</i>	<i>Percent of Hired Workers</i>	<i>Percent of Hired Workers</i>
Less than \$40,000	10	7	7
\$40,000-\$99,999	7	6	10
\$100,000-\$249,999	14	12	13
\$250,000 and over	69	75	70
	100	100	100

**Hired Workers: Distribution by Category, United States,<sup>1 3</sup>**

	April 8-14, 2001	January 6-12, 2002	April 7-13, 2002
	<i>Percent of Hired Workers</i>	<i>Percent of Hired Workers</i>	<i>Percent of Hired Workers</i>
Employed on Farms Hiring			
1 Worker	12	10	10
2 Workers	9	9	8
3-6 Workers	20	22	18
7-10 Workers	9	8	11
At least 11 Workers	50	51	53
	100	100	100

<sup>1</sup> 48 States, excluding AK and HI.

<sup>2</sup> Field and Livestock Workers combined.

<sup>3</sup> Excludes Agricultural Service Workers.

## Agricultural Services

Crew leaders and custom crews provided 189,000 workers for the Nation's farms and ranches during the week of April 7-13, 2002. Service workers in California numbered 92,000 this April, the same as last year. Florida's number of service workers was 11,000, compared to 14,000 last year.

The average wage received by agricultural service workers in California and Florida were \$8.59 and \$9.00 per hour, respectively. Comparable wages in April 2001 were \$7.90 in California and \$8.30 in Florida.

**Agricultural Service Workers: Number, Hours Worked, and Wage Rates,  
for California, Florida, and United States <sup>1</sup>**

State	Number of Workers Working on Farms			Hours Worked <sup>2</sup>			Wage Rates <sup>2 3</sup>		
	Apr 2001	Jan 2002	Apr 2002	Apr 2001	Jan 2002	Apr 2002	Apr 2001	Jan 2002	Apr 2002
	<i>1,000</i>	<i>1,000</i>	<i>1,000</i>	<i>Hours</i>	<i>Hours</i>	<i>Hours</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>	<i>Dollars per Hour</i>
CA	92.0	71.0	92.0	37.0	35.4	33.8	7.90	8.36	8.59
FL	14.0	19.0	11.0	39.0	38.5	34.0	8.30	8.25	9.00
US	215.0	183.0	189.0						

<sup>1</sup> Data are for Agricultural Services performed on the farm by custom service units such as crew leaders or custom crews. These statistics are not included in the State-Regional tables.

<sup>2</sup> United States data not available.

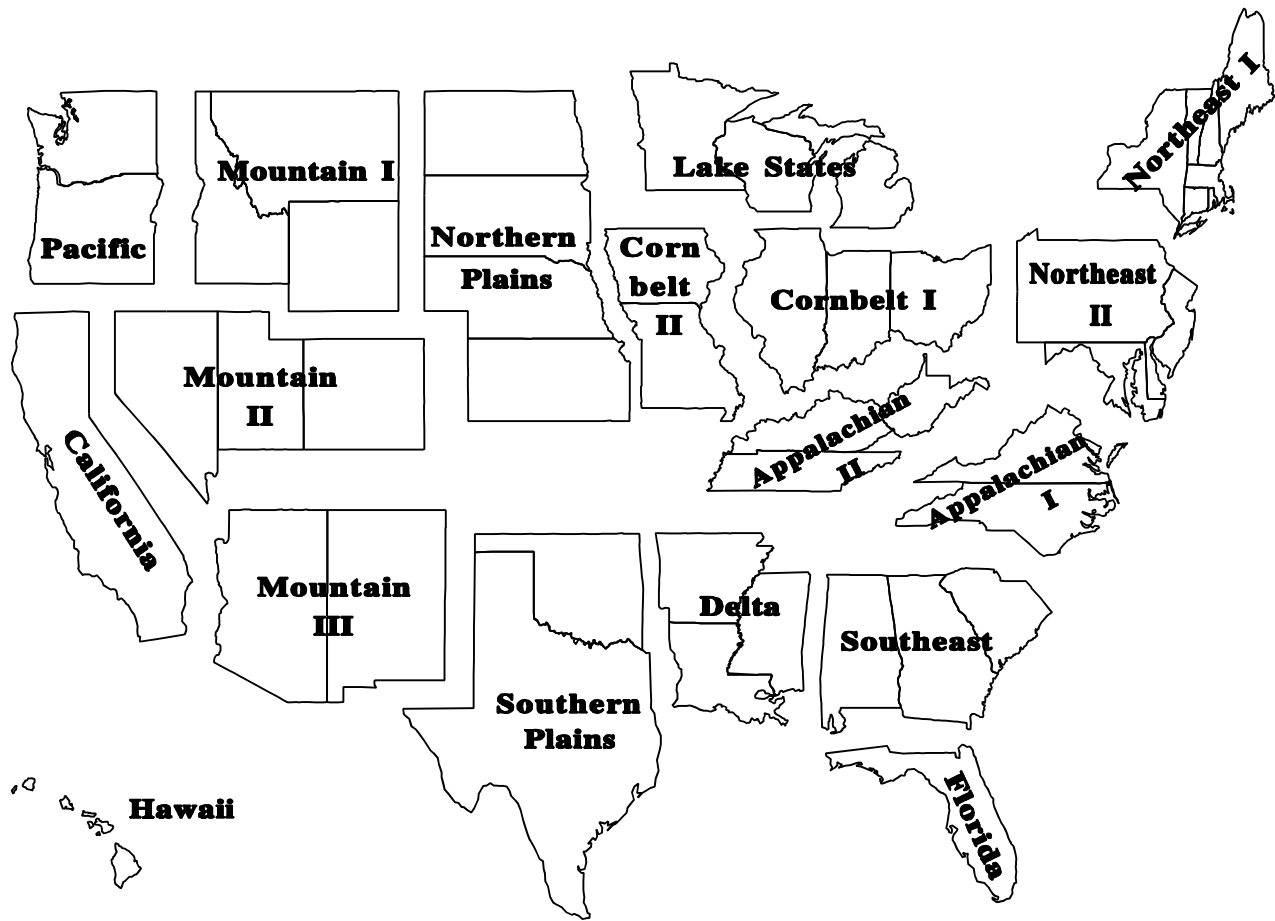
<sup>3</sup> Benefits, such as housing and meals, are provided some workers but the values are not included in the wage rates.

**Migrant Workers: Percent of all Hired Workers, United States,  
by Quarter (Includes Agricultural Service Workers), 1999-02 <sup>1</sup>**

Year	Jan	Apr	Jul	Oct
	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>	<i>Percent</i>
1999	6.0	8.7	12.4	12.3
2000	7.7	8.5	11.5	11.3
2001	9.6	8.9	11.1	11.7
2002	7.6	8.8		

<sup>1</sup> Definition "Migrant Worker" is a farm worker whose employment required travel that prevented the farm worker from returning to his/her permanent place of residence the same day.

## Farm Labor Regions



Region	States
Northeast I	CT, ME, MA, NH, NY, RI, VT.
Northeast II	DE, MD, NJ, PA.
Appalachian I	NC, VA.
Appalachian II	KY, TN, WV.
Southeast	AL, GA, SC.
Lake	MI, MN, WI.
Cornbelt I	IL, IN, OH.
Cornbelt II	IA, MO.
Delta	AR, LA, MS.
Northern Plains	KS, NE, ND, SD.
Southern Plains	OK, TX.
Mountain I	ID, MT, WY.
Mountain II	CO, NV, UT.
Mountain III	AZ, NM.
Pacific	OR, WA.

## Farm Labor Definitions

The following definitions are provided to assist in interpreting statistics published in quarterly Farm Labor reports. To ensure consistency in data collection, the questionnaires and instruction manual used by the interviewers provide more in-depth explanations of these terms.

**Farm or Ranch:** Places that sell, or would normally sell, at least \$1000 worth of agricultural products during the year.

**Agricultural Work:** Work done on a farm or ranch in connection with the production of agricultural products, including nursery and greenhouse products and animal specialties such as fur farms or apiaries. Also included is work done off the farm to handle farm related business, such as trips to buy feed or deliver products to local market.

**Self-employed Worker:** A farm or ranch operator or partner who did at least one hour of unpaid agricultural work on a farm or ranch during the survey week.

**Unpaid Worker:** Anyone, other than a self-employed worker, who did at least 15 hours of unpaid agricultural work on a farm or ranch during the survey week.

**Hired Worker:** Anyone, other than an agricultural service worker, who was paid for at least one hour of agricultural work on a farm or ranch. Worker type is determined by what the employee was primarily hired to do, not necessarily what work was done during the survey week. Type of workers include:

**Field Workers:** Employees engaged in planting, tending and harvesting crops including operation of farm machinery on crop farms.

**Livestock Workers:** Employees tending livestock, milking cows or caring for poultry, including operation of farm machinery on livestock or poultry operations.

**Supervisors:** Hired managers, range foremen, crew leaders, etc.

**Other Workers:** Employees engaged in agricultural work not included in the other three categories. Bookkeepers and pilots are examples.

**Methods of Pay:** Wage rates are calculated based on total wages and hours worked during the survey week.

## Definitions - continued

**Perquisites:** Benefits, such as cash bonuses, housing, or meals, provided to an employee in addition to pay are included in perquisites. Wage rates published in this release do not include the value of these benefits.

**Term of Employment:** The length of time during the year the farm operator expects to employ those workers who were on the payroll during the survey week.

**Agricultural Service:** Service on a contract or fee basis such as veterinarian work, artificial insemination, sheep shearing, milk testing, etc., performing on the farm or ranch.

**Contract Labor:** Contract workers are paid by a crew leader, contractor, buyer, processor, cooperative, or other person who has an oral or written agreement with a farmer/rancher. Pruning, thinning, weeding or harvesting of fruit, vegetable or berry crops are examples. A machine is not a part of the service activity provided by the contractor.

**Custom Work:** Work performed by machines and labor hired as a unit. Hay baling, combining, corn or cotton picking, spraying, fertilizing, laser leveling are examples of custom work when the equipment is included in the service activity.

**Type of Farm (or Ranch):** An operation is classified in the farm type which accounts for the largest portion of the total value of sales for its agriculture production.

### The three types of farms are:

**Field Crops:** A farm primarily engaged in the production of wheat, rice, corn, soybeans, barley, dry beans, rye, sorghum, cotton, popcorn, tobacco, potatoes, sugar crops, hay, peanuts, hops, mint, or other such crops.

**Other Crops:** A farm primarily engaged in the production of vegetables, melons, berry crops, grapes, tree nuts, citrus fruits, deciduous tree fruits, avocados, dates, figs, olives, nursery, or greenhouse crops.

**Livestock or Poultry:** An operation primarily engaged in production of cattle, hogs, sheep, goats, milk, chickens, eggs, turkeys, or animal specialties such as furs, fish, honey, etc.

**Gross Value of Sales:** Gross value includes all income during a year from the sale of crops, livestock, dairy, poultry, or other related agricultural products, including the landlord's share. When commodities are placed under CCC loan, they are considered as sold.

## Reliability of Farm Labor Estimates

**Survey Procedures:** These data were collected by the National Agricultural Statistics Service (NASS) during the last two weeks of April using sampling procedures to ensure every employer of agricultural workers had a chance of being selected.

Two samples of farm operators are selected. First, NASS maintains a list of farms that hire farm workers. Farms on this list are classified by size and type. Those expected to employ large numbers of workers are selected with greater frequency than those hiring few or no workers. A second sample consists of segments of land scientifically selected from an area sampling frame. Each June, highly trained interviewers locate each selected land segment and identify every farm operating land within the sample segment's boundaries. The names of farms found in these area segments are matched against the NASS list of farms; those not found on the list are included in the labor survey sample to represent all farms. This methodology is known as multiple frame sampling, with an area sample used to measure the incompleteness of the list. Additionally, a list of agricultural service firms was sampled in California and Florida. The survey reference week was April 7-13, 2002.

**Reliability:** Two types of errors, sampling and non-sampling, are possible in an estimate based on a sample survey. Both types affect the "precision" of the estimates.

Sampling error occurs because a complete census is not taken. The sampling error measures the variation in estimates from the average of all possible samples. An estimate of 100 with a sampling error of 1 would mean that chances are 19 out of 20 that the estimates from all possible samples averaged together would be between 98 and 102; which is the survey estimate, plus or minus two times the sampling error. The sampling error expressed as a percent of the estimate is called the relative sampling error. The relative sampling error for number of hired workers at the U.S. level was 4.5 percent. The relative sampling error for the number of hired workers generally ranged between 5 and 29 percent at the regional level. The U.S. all hired farm worker wage rate had a relative sampling error of 1.9 percent. The relative sampling error was 1.0 percent for the combined field and livestock worker wage rate. Relative sampling errors for the all hired farm worker wage rate generally ranged between 1 and 7 percent at the regional levels. Relative sampling errors for wage rates published by type of farm and economic class of farm ranged between 1 and 20 percent at the regional level.

Non-sampling errors can occur in a complete census as well as in sample surveys. They are caused by the inability to obtain correct information from each operation sampled, differences in interpreting questions or definitions, and mistakes in editing, coding, or processing the data. Special efforts are taken at each step of the survey to minimize non-sampling errors.

**Revision Policy:** Farm labor information is subject to revision the next time the information is published or the year after the original publication date. The basis for revision must be supported by additional data that directly affect the level of the estimate. Worker numbers and wage rates for April 2001 and January 2002 were subject to revision with this report. Revisions were made and previous data are reprinted in this report for your information.

**Next Farm Labor Publication Date:** The August 16th report will have information for the survey week of July 7-13, 2002. The report will include the number of All Hired Workers, Average Hours Worked by Hired Workers and the All Hired Worker Wage Rates at the regional and U.S. levels. The wage rate for field, livestock, and combined field and livestock workers will also be available at the regional and U.S. level. The number of Agricultural Service Workers and the corresponding wage rates will be published for California and Florida.



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The next "Farm Labor" report will be released at 3 p.m. ET on August 16, 2002.

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