

**AGRICULTURAL LABOR SUPPLY AND DEMAND IN WASHINGTON, 2007:
AN OVERVIEW**

Prepared for

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General References:

2007 Agricultural Workforce in Washington State, Employment Security Department, Labor Market and Economic Analysis, June 2008

2006 Agricultural Workforce in Washington State, Employment Security Department, Labor Market and Economic Analysis, July 2007

2005 Agricultural Workforce in Washington State, Employment Security Department, Labor Market and Economic Analysis, July 2006

You can access the above three reports by going to the **General Address** below, then go to:

- Publications and Reports
- Industry Reports
 - Agriculture Reports (the 2005, 2006, and 2007 reports are under Annual Reports)

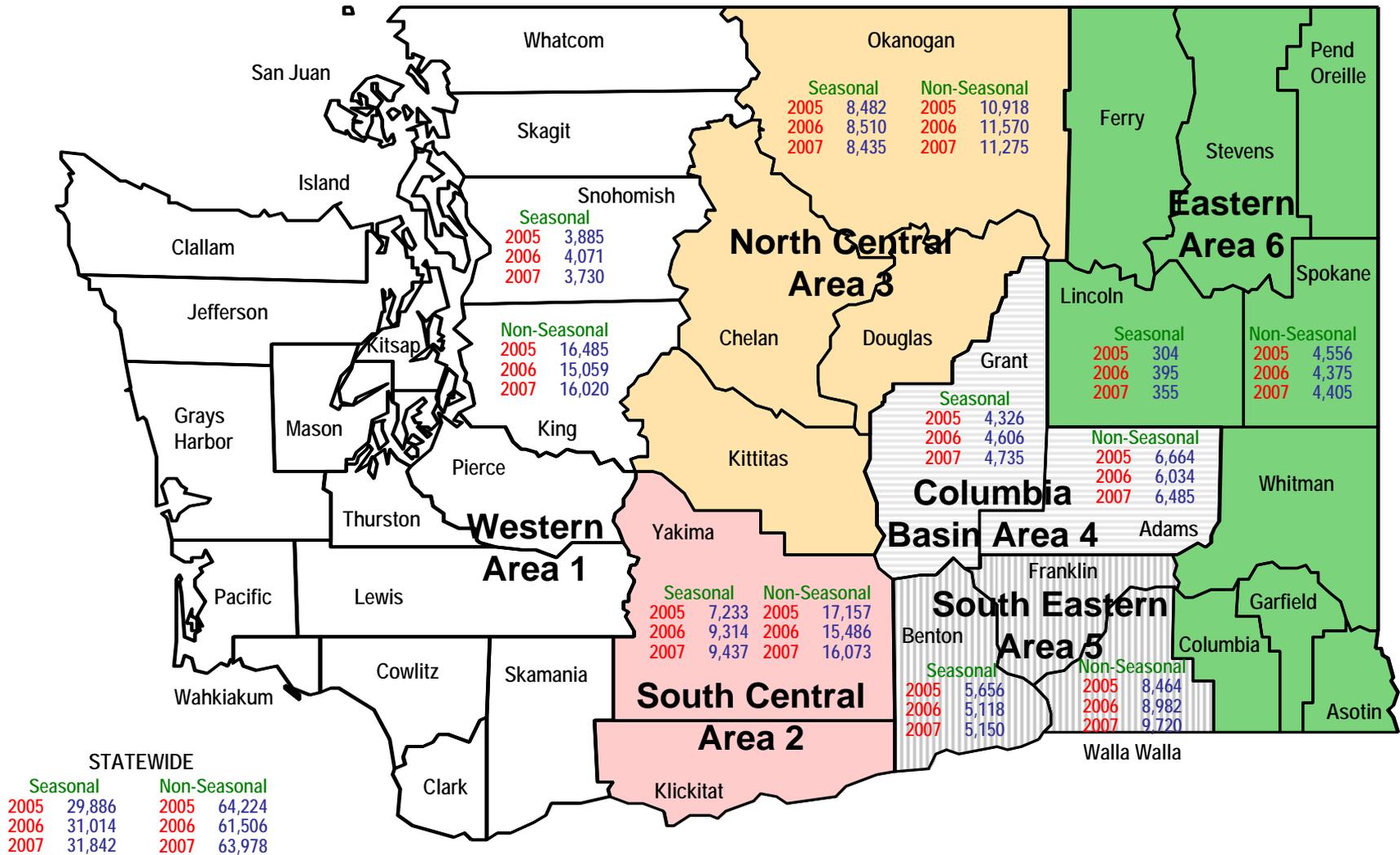
General Address:

<http://www.workforceexplorer.com>

Figure 1. Geographic Distribution of Covered Seasonal Agricultural Labor, Annual Monthly Average, Washington State, 2005, 2006, and 2007

- Statewide, the absolute level of average monthly seasonal employment ranges from a low of 29,886 workers in 2005 to a high of 31,842 workers in 2007.
- Statewide, seasonal agricultural employment as a percent of nonseasonal agricultural employment varies from a low of 46.5 percent in 2005 to a high of 50.4 percent in 2006.
- Areas 1, Western, and 2, South Central, have the largest absolute size of average monthly nonseasonal employment.
- Areas 2, South Central and 3, North Central, have the highest absolute levels of average monthly seasonal employment.
- In general, Area 3, North Central, a heavy cherry and apple producing region, has the highest ratio of seasonal to nonseasonal employment.
- Area 6, Eastern, a heavy wheat, pea, and lentil producing region, has the lowest ratio of seasonal to nonseasonal employment. The next lowest ratio is for Area 1, the Western region.

Figure 1. Agricultural Reporting Areas in Washington State

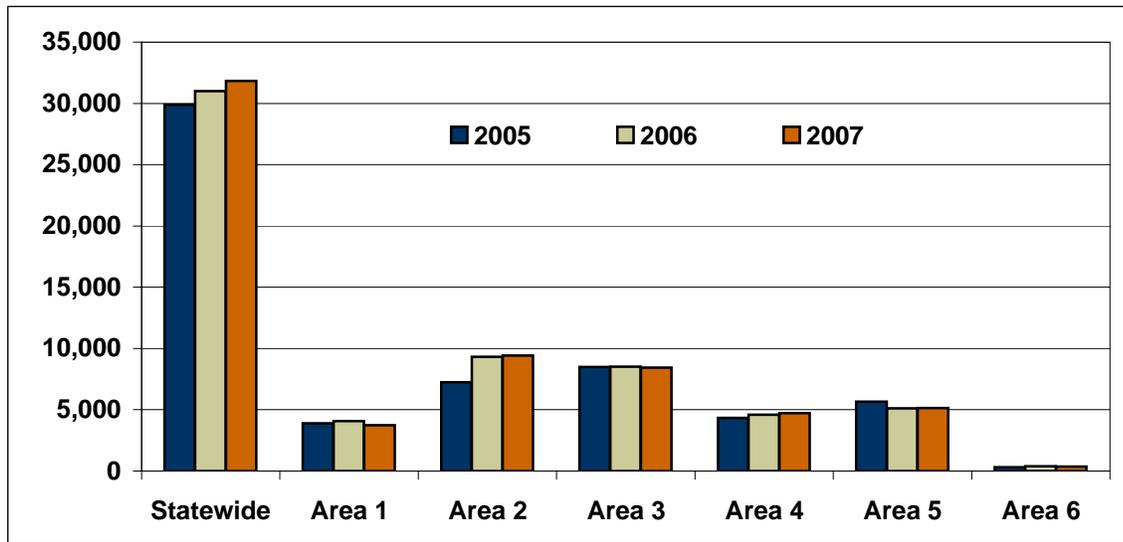


Sources: Seasonal agricultural employment (average number of workers per month) is derived from the ESD, LMEA Monthly Agricultural Labor Employment and Wage Trends Survey. These are statistical sample data. Total agricultural employment (seasonal plus non-seasonal) is taken from the ES-QCEW UI covered employment plus non-covered employment not adjusted for multiple job holders. These are total enumeration population statistics. Non-seasonal employment is the difference between total employment and seasonal employment. This subtraction to gain the non-seasonal employment injects some unknown sampling error into the estimation of non-seasonal employment. For more information on these data, see the 2005, 2006, and 2007 reports on the Agricultural Workforce in Washington State. www.workforceexplorer.com

Figure 2. Seasonal Employment by Agricultural Area, Washington, 2005, 2006, and 2007

Source: See Figure 1

| | Statewide | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 | Area 6 |
|-------------|-----------|--------|--------|--------|--------|--------|--------|
| 2005 | 29,886 | 3,885 | 7,233 | 8,482 | 4,326 | 5,656 | 304 |
| 2006 | 31,014 | 4,071 | 9,314 | 8,510 | 4,606 | 5,118 | 395 |
| 2007 | 31,842 | 3,730 | 9,437 | 8,435 | 4,735 | 5,150 | 355 |

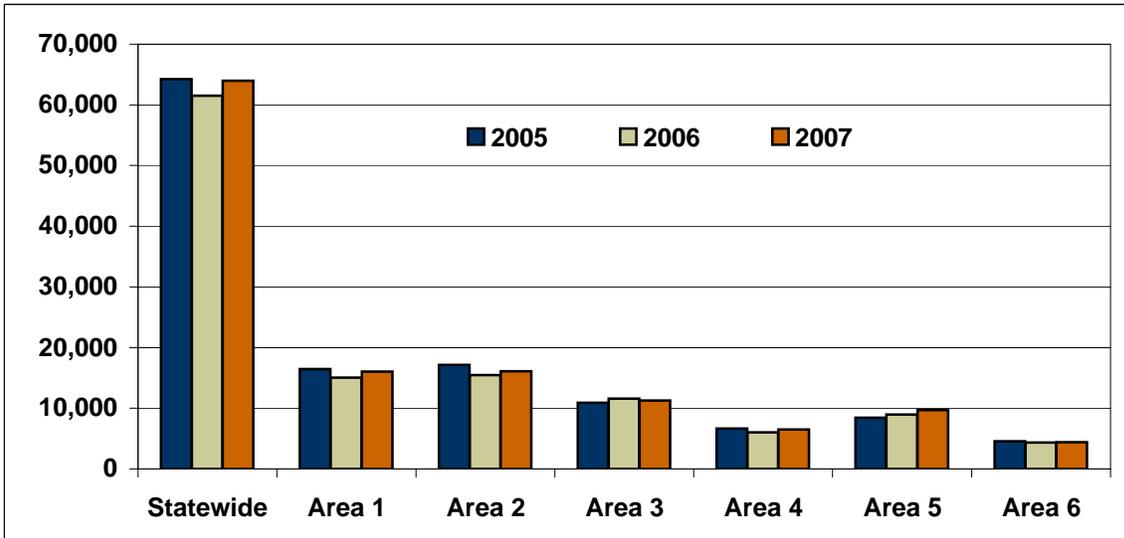


- The long-term trend in the employment of seasonal workers is down.
- However, recently, in the past 3 years, seasonal employment is trending up slightly.
- Area 2 shows the largest upward trend and is the major area affecting the short term increase.

Figure 3. Non-Seasonal Employment by Agricultural Area, Washington, 2005, 2006, and 2007

Source: See Figure 1

| | Statewide | Area 1 | Area 2 | Area 3 | Area 4 | Area 5 | Area 6 |
|-------------|-----------|--------|--------|--------|--------|--------|--------|
| 2005 | 64,224 | 16,485 | 17,157 | 10,918 | 6,664 | 8,464 | 4,556 |
| 2006 | 61,506 | 15,059 | 15,486 | 11,570 | 6,034 | 8,982 | 4,375 |
| 2007 | 63,978 | 16,020 | 16,073 | 11,275 | 6,485 | 9,720 | 4,405 |

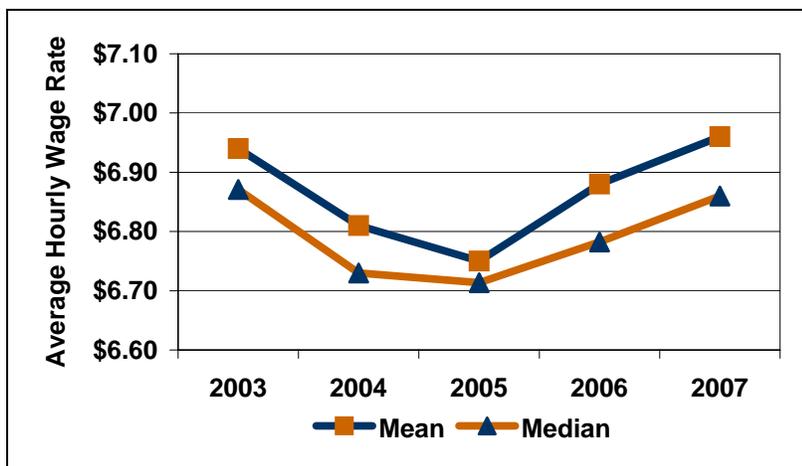


- Non-seasonal employment is trending up as a proportion of total agricultural employment. This reflects technological growth in the agricultural sector.
- In absolute terms non-seasonal employment is rising over time though it is approximately constant in the most recent 3-year period.

Figure 4. Constant and Current Dollar Mean and Constant Dollar Median Seasonal Hourly Agricultural Wage Rates

Washington, 2003 to 2007, Constant Dollars: 2000 = 100

Source: LMEA/ESD, Agricultural Labor Employment and Wage Trends Survey



| Year | Mean | | Median Constant Dollar |
|------|--------------------|-------------------|------------------------------|
| | Constant Dollar | Current Dollar | |
| 2003 | 6.94 | 7.47 | 6.87 |
| 2004 | 6.81 | 7.51 | 6.73 |
| 2005 | 6.75 | 7.67 | 6.71 |
| 2006 | 6.88 | 8.00 | 6.78 |
| 2007 | 6.96 | 8.38 | 6.86 |

Constant dollar (2000 = 100) median hourly wage rates are below constant dollar average hourly wage rates. The wage distribution is strongly skewed to the right (see Figure 5a).

Current dollar, unadjusted for inflation, average hourly wage rates were stable between 2003 and 2004. That is, the difference in current dollar average hourly wage rates in 2003 and 2004 is not statistically significant. Statistically significant wage increases occurred in 2005, 2006 and 2007.

Constant dollar average hourly wage rates fell between 2003 and 2004, remained stable in 2005, and rose during 2006 and 2007.

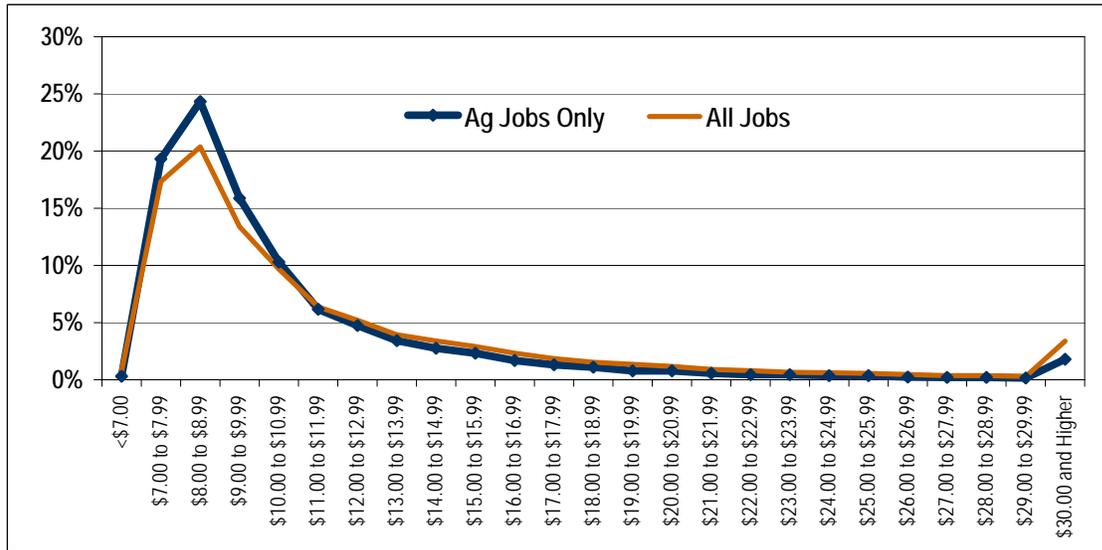
A large cherry harvest, delayed a week or so by unfavorable weather, is apparently responsible for the wage increase between 2005 and 2006. Growers competing for cherry pickers bid up real wage rates. The delayed cherry picking season spilled over into the apple harvest season by a week or so and induced a somewhat smaller increase in real average hourly wage rates in apples, as apple growers competed to gain their necessary August workforce.

Constant dollar average hourly wage rates increased between 2006 and 2007. The reasons for this increase are not entirely clear.

- However, county unemployment rates dropped, job vacancy rates in agriculture increased, and continued claimants of agricultural workers for unemployment insurance decreased. Certified H-2A workers employed in the state essentially doubled between 2006 and 2007, to 1,525.
- This suggests a general tightening of the agricultural labor market, which would induce an increase in constant dollar wage rates. Possible reasons for this general tightening are:
 - possible reduction in illegal immigration; or
 - overall growth in the state economy, resulting in shifts of workers both out of and into agriculture.
- The result of this real wage rate increase was apparently, to draw workers from the state's overall labor force into the agricultural labor force.

Figure 5a. Distribution of Average Hourly Wage Rates in Agriculture, Full Time Equivalent Workers, Wages for Agricultural Workers Only and Agricultural Wages for Workers Who Were Employed in Both Agricultural and Nonagricultural Jobs, Washington State, Current Dollars, 2006

Source: Washington State Employment Security Department, Labor Market and Economic Analysis, Vancouver Office, UI Wage File



- The agricultural wage distribution is strongly skewed to the right. The industry is characterized by a large number of relatively low wage jobs compared to high wage jobs.
- Due to this skewedness, the median wage rate is a more accurate measure of the “typical” wage rate than is the mean.
- The average hourly wage rate for workers who have worked only in agricultural jobs during 2006 is estimated at \$11.20 per hour. The median wage rate is estimated at \$9.00 per hour, and is lower than the mean due to the skewedness of the wage distribution. For all agricultural jobs, the mean is estimated at \$11.00 and the median is estimated at \$8.90. These estimates are calculated based on the wage intervals in Figure 5a. Wages less than \$7.00 were set at \$6.50. Wages more than \$30.00 were set at \$35.00.
- 12.8 percent of the workers who held agricultural jobs only, fall at or near the state minimum wage of \$7.63 per hour (for 2006). For all agricultural jobs, the estimate is 13.6 percent.
- 55.8 percent of the workers who held agricultural jobs only, fall below the Adverse Economic Wage Rate of \$9.77 for 2006. For all agricultural jobs, the estimate is 56.8 percent.

Figure 5b. Mean and Median Hourly Wage Rates by Six-Digit North American Industry Classification System (NAICS), Based on FTE Workers, Washington State, 2006

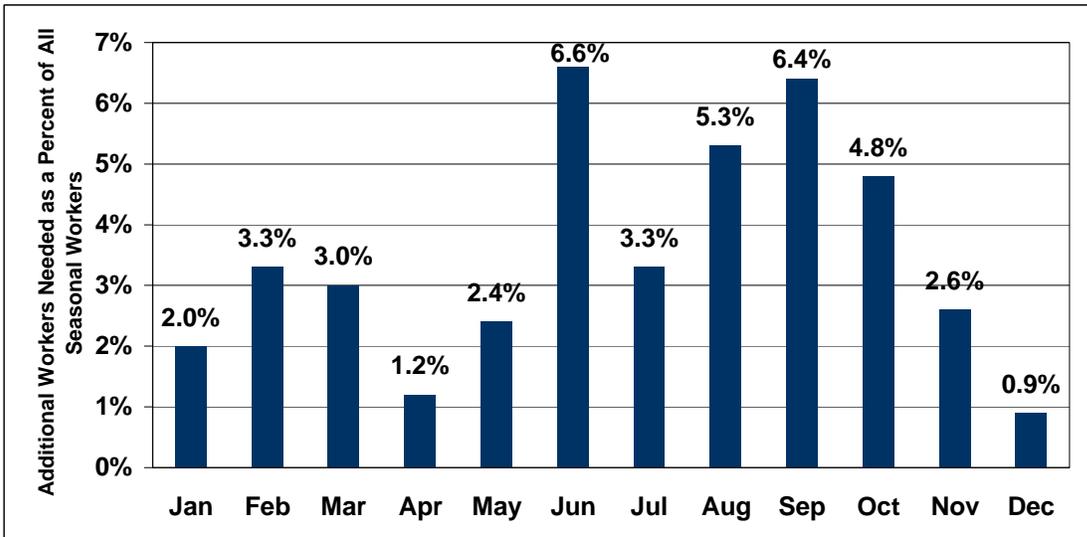
Source: ESD/LMEA, Vancouver Office. UI Wage File data.

| NAICS Code | Subsector Description | Median Hourly Wage Rate (\$) | Mean Hourly Wage Rate (\$) |
|------------|--|------------------------------|----------------------------|
| 111130 | Dry Pea and Bean Farming | 12.17 | 12.18 |
| 111140 | Wheat Farming | 11.4 | 12.80 |
| 111150 | Corn Farming | 9.01 | 9.70 |
| 111191 | Oil Seed and Grain Combination Farming | 11.99 | 12.77 |
| 111199 | All Other Grain Farming | 10.8 | 11.94 |
| 111211 | Potato Farming | 9.66 | 12.45 |
| 111219 | Other Vegetable (except Potato) and Melon Farming | 8.91 | 11.28 |
| 111331 | Apple Orchards | 8.99 | 10.20 |
| 111332 | Grape Vineyards | 8.54 | 10.00 |
| 111333 | Strawberry Farming | 8.54 | 9.51 |
| 111334 | Berry (except Strawberry) Farming | 8.33 | 10.02 |
| 111335 | Tree Nut Farming | 8.75 | 9.26 |
| 111336 | Fruit and Tree Nut Combination Farming | 8.79 | 11.52 |
| 111339 | Other Noncitrus Fruit Farming | 9.19 | 10.92 |
| 111411 | Mushroom Production | 8.84 | 10.98 |
| 111419 | Other Food Crops Grown under Cover | 10.49 | 11.81 |
| 111421 | Nursery and Tree Production | 9.02 | 11.65 |
| 111422 | Floriculture Production | 8.55 | 11.29 |
| 111940 | Hay Farming | 10 | 11.75 |
| 111998 | All Other Miscellaneous Crop Farming | 8.98 | 11.11 |
| 112111 | Beef Cattle Ranching and Farming | 10.01 | 12.13 |
| 112112 | Cattle Feedlots | 12.18 | 14.02 |
| 112120 | Dairy Cattle and Milk Production | 11.4 | 12.64 |
| 112210 | Hog and Pig Farming | --- ^a | --- ^a |
| 112310 | Chicken Egg Production | 10.09 | 11.96 |
| 112320 | Broilers and Other Meat Type Chicken Production | 14.12 | 16.41 |
| 112340 | Poultry Hatcheries | 11.06 | 12.74 |
| 112390 | Other Poultry Production | --- ^a | --- ^a |
| 112410 | Sheep Farming | --- ^a | --- ^a |
| 112420 | Goat Farming | --- ^a | --- ^a |
| 112511 | Finfish Farming and Fish Hatcheries | 16.12 | 16.82 |
| 112512 | Shellfish Farming | 14.34 | 16.13 |
| 112519 | Other Aquaculture | --- ^a | --- ^a |
| 112910 | Apiculture | --- ^a | --- ^a |
| 112920 | Horses and Other Equine Production | 11.34 | 15.01 |
| 112930 | Fur-Bearing Animal and Rabbit Production | 9.01 | 12.93 |
| 112990 | All Other Animal Production | 11.50 | 13.15 |
| 115112 | Soil Preparation, Planting, and Cultivating | 14.27 | 19.65 |
| 115113 | Crop Harvesting, Primarily by Machine | 11.00 | 13.56 |
| 115114 | Post Harvest Crop Activities (except Cotton Ginning) | 9.31 | 11.18 |
| 115115 | Farm Labor Contractors and Crew Leaders | 9.04 | 10.33 |
| 115116 | Farm Management Services | 8.99 | 10.37 |
| 115210 | Support Activities for Animal Production | 11.54 | 14.83 |
| 115310 | Support Activities for Forestry | 16.68 | 20.15 |

^aDue to small sample size, this estimate is not shown to preserve confidentiality of the producers.

Figure 6. Estimated Percent of Labor Shortage/Percent Workers Desired, by Month, as Reported by Growers, Washington State, 2007

Source: LMEA/ESD, Agricultural Labor Employment and Wage Trends Survey



The reported monthly shortage of workers at existing wage rates shows a distinct seasonal pattern.

Growers report a shortage of 6.6 percent of the total workers they were willing to hire at existing wage rates in June, the start of the sweet cherry harvest season.

September, the height of the apple harvest and some pear harvests, finds growers reporting a shortage of 6.4 percent of the total workers they were willing to hire. This builds up from a reported shortage of 5.3 percent in August, the beginning of the season, and tapers to 4.8 percent in October as the season winds down.

Figure 7. Alternative Scenarios Concerning the Supply and Demand of Migrant Labor

Source: LMEA

| Policy Options with Respect to Undocumented Migrant Labor | State of the Economy | |
|---|---|--------------|
| | Recession, especially in construction, where large numbers of undocumented Mexican workers are concentrated | No Recession |
| Effectively shut down the U.S. – Mexican border | | |
| Yes | 1 | 2 |
| No | 3 | 4 |
| Increase inspections of firms to identify and deport undocumented migrant labor | | |
| Yes | 5 | 6 |
| No | 7 | 8 |

- There is indirect evidence that the number of migrant workers, either documented or undocumented, decreased somewhat in Washington state during the 2007 agricultural season.
 1. Real wage rates rose a small amount, while the total amount of average annual labor hired was quite similar between 2006 and 2007.
 2. The county unemployment rate in key agricultural counties dropped.
 3. Advertised job vacancies in agriculture essentially doubled from 1,700 vacancies in April 2006 to 2,745 vacancies in April 2007.
 4. H-2A hiring rose from 515 workers in 2006 to 1,140 in 2007.
 5. Unduplicated continued claimants for unemployment insurance in agricultural jobs continued to drop slightly from monthly levels in 2006.
 6. This evidence suggests that fewer out-of-state migrant workers appeared in Washington and wage rates rose to attract workers to agriculture from the existing domestic labor force in the state.

- Best Case Scenario for Migrant Labor Supply in 2009:
 - Cells 3 and 7 – A recession accompanied by no effective restrictions on border crossing and little or no inspections to find and deport undocumented workers would likely result in a large supply of agricultural labor. Agricultural wage rates might even fall somewhat due to possible increased labor supply. However, a significant recession could also result in some migrants returning to Mexico and/or a reduction of new undocumented workers entering the U.S. Other migrants would likely move from construction, where layoffs are occurring, into agriculture.

- Worst Case Scenario for Migrant Labor Supply in 2009:
 - Cells 2 and 6 – Relatively full employment economy-wide plus clamping down the border and increasing inspections would most likely result in an absolute reduction in migrant labor supply. If real wage rates rise sharply while total agricultural employment falls or stays constant, one can deduce that out-of-state migrant labor has fallen. Also, economy-wide full employment will induce agricultural workers to leave agriculture for jobs out of agriculture.

- In general, other things equal, relatively full employment economy-wide will put pressure on agricultural labor supply, since the higher wages in the broader economy would tend to attract workers away from agriculture. The opposite is likely to occur should there be a significant recession.

Web-Based Resources for Agricultural Employers

LABOR FORCE AND EMPLOYMENT:

WorkSource Services for Employers

<https://fortress.wa.gov/esd/worksource/StaticContent.aspx?Context=EmployerCoreServices>

Subdirectories for:

- Labor Market Information
- Job Listing
- Applicant Referral
- Employer Assessment
- Employee Training and Retraining
- Business Assistance Information and Referrals
- Unemployment Insurance Access
- Internet Access
- Business Closure/Reduction in Force Information and Referral

Labor and Industries Washington State - Farm Labor Contractors

General address: <http://www.lni.wa.gov>

Local address:

<http://www.lni.wa.gov/WorkplaceRights/Agriculture/FarmLabor/GetLicensed/default.asp>

- Workplace Rights
 - Agriculture
 - Breaks and Meal Periods
 - Wages
 - Record Keeping
 - Farm Labor Contractors
 - Farm Labor Contract Licensing
 - Agricultural Jobs for Teens
 - Agricultural Forms and Publications

FIELD SANITATION:

U.S. Department of Labor Occupational Safety and Health Administration

OSHA's Field Sanitation Standard

http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=Fact_Sheets&p_id=137

HOUSING:

Washington State Department of Health Office of Accommodations and Residential Care Services

<http://www.doh.wa.gov/hsqa/fsl/arcs/mfh/default.htm>

Migrant Farm Labor Housing

- MFH Home
- Licensing Requirements
- Construction
- Consultation
- Contacts
- Drinking Water
- Helpful Info
- Inspections
- Publications
- Regulations

EDUCATION OF CHILDREN OF MIGRANT AGRICULTURAL WORKERS:

Office of the State Superintendent of Public Instruction

Washington State Migrant Education Program. Program Guidelines. September 2006

<https://www.k12.wa.us/MigrantBilingual/pubdocs/MEPGuidelinesSept2006.pdf>

SERVICES FOR AGRICULTURAL PRODUCERS:

Washington Department of Agriculture

<http://agr.wa.gov/>

Subdirectories for:

- Laws and Rules
- Pesticides and Fertilizers
- Plants and Insects
- Inspection Services
- Marketing and Business Services
- Employment
- Agriculture Security
- Links and Resources
 - Washington Agricultural Commodity Commissions
 - Washington Agricultural Organizations
 - Washington Agricultural Statistics Service
 - Washington State University
 - Cooperative Extension Service Programs
 - Cooperative Extension Service County Offices
 - College of Veterinary Medicine
 - U.S. Government
 - U.S. Department of Agriculture
 - U.S. Environmental Protection Agency
 - Food and Drug Administration
 - U.S. Department of Commerce

Washington State Farm Service Agency

<http://www.fsa.usda.gov/FSA/stateoffapp?mystate=wa&area=home&subject=landing&topic=landing>

Subdirectory:

- County Offices
- County PCP Data (Commodity Loan Payment Information)
- Daily LDP Rates (Loan Deficiency Payment Rates)
- Programs
- Newsletters
- State News Releases
- State Events

INTERNATIONAL MARKETING:

Washington State Department of Agriculture

<http://agr.wa.gov/Marketing/International/Links.htm>

Subdirectories:

- Agricultural Marketing and Promotion
- International Marketing and Export Assistance
- Matching Buyers and Sellers
- Export Financing
- Export Staff
- Events and Activities
- Export Statistics

Community Trade and Economic Development (CTED)

<http://www.cted.wa.gov/site/474/default.aspx>

Subdirectories:

- Community Services
- Energy Policy
- Housing
 - Farm Worker Housing
 - Infrastructure Loan Program
- International Trade and Development
- Local Government

Appendix 1. Geographic Distribution of Covered Seasonal and Non-Seasonal Agricultural Employment, Annualized Monthly Workers, Washington State, 2005, 2006, and 2007

| Agricultural Reporting Area | 2005 | | 2006 | | 2007 | |
|-----------------------------|----------|--------------|----------|--------------|----------|--------------|
| | Seasonal | Non-Seasonal | Seasonal | Non-Seasonal | Seasonal | Non-Seasonal |
| Area 1 Western | 3,885 | 16,485 | 4,071 | 15,059 | 3,730 | 16,020 |
| Area 2 South Central | 7,233 | 17,157 | 9,314 | 15,486 | 9,437 | 16,073 |
| Area 3 North Central | 8,482 | 10,918 | 8,510 | 11,570 | 8,435 | 11,275 |
| Area 4 Columbia Basin | 4,326 | 6,664 | 4,606 | 6,034 | 4,735 | 6,485 |
| Area 5 South Eastern | 5,656 | 8,464 | 5,118 | 8,982 | 5,150 | 9,720 |
| Area 6 Eastern | 304 | 4,556 | 395 | 4,375 | 355 | 4,405 |
| Statewide | 29,886 | 64,224 | 31,014 | 61,506 | 31,842 | 63,978 |

Sources: Seasonal agricultural employment (average number of workers per month) is derived from the ESD, LMEA Monthly Agricultural Labor Employment and Wage Trends Survey. These are statistical sample data. Total agricultural employment (seasonal plus non-seasonal) is taken from the ES-QCEW UI covered employment plus non-covered employment, not adjusted for multiple job holders. These are total enumeration population statistics. Non-seasonal employment is the difference between total employment and seasonal employment. This subtraction to gain the non-seasonal employment injects some unknown sampling error into the estimation of non-seasonal employment. For more information on these data, see the 2005, 2006, and 2007 reports on the Agricultural Workforce in Washington State. www.workforceexplorer.com/

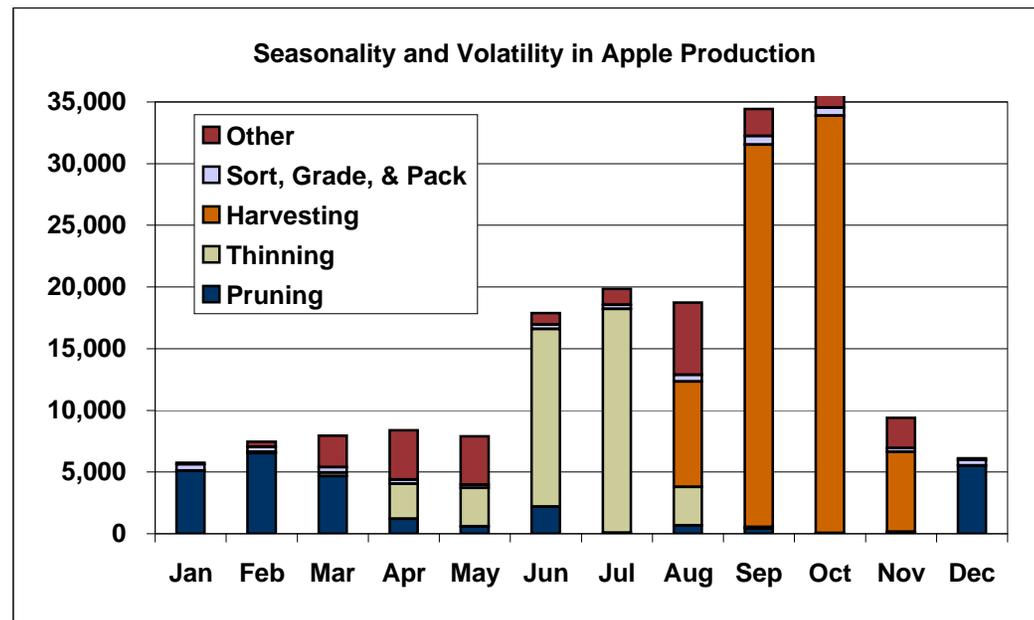
Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2005

Source: LMEA/ESD, Agricultural Labor Employment and Wage Trend Survey

| Activity | Washington State | | | | | | | | | | | | Avg |
|--------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| State Totals | 9,460 | 14,672 | 17,687 | 20,994 | 22,782 | 58,137 | 52,628 | 39,133 | 50,063 | 46,806 | 14,900 | 10,845 | 29,842 |
| Apples, Total | 5,760 | 7,448 | 7,938 | 8,400 | 7,889 | 17,898 | 19,851 | 18,735 | 34,442 | 36,270 | 9,397 | 6,109 | 15,011 |
| Apple Pruning | 5,101 | 6,541 | 4,675 | 1,226 | 589 | 2,191 | 87 | 673 | 410 | 53 | 104 | 5,520 | 2,264 |
| Apple Thinning | - | 86 | 278 | 2,829 | 3,124 | 14,407 | 18,129 | 3,115 | 135 | - | 42 | - | 3,512 |
| Apple Harvester | - | - | - | - | - | - | - | 8,559 | 30,996 | 33,829 | 6,479 | - | 6,655 |
| Apple Sort, Grade, Pack | 534 | 422 | 452 | 333 | 256 | 367 | 348 | 537 | 690 | 661 | 331 | 478 | 451 |
| Other Apple Activities | 125 | 399 | 2,533 | 4,012 | 3,920 | 933 | 1,287 | 5,851 | 2,211 | 1,727 | 2,441 | 111 | 2,129 |
| Cherries, Total | 323 | 402 | 347 | 250 | 581 | 22,663 | 13,446 | 498 | - | 32 | 53 | 161 | 3,230 |
| Cherry Pruning | 297 | 358 | 228 | 34 | - | 66 | 11 | 105 | - | 22 | 24 | 161 | 119 |
| Cherry Harvester | - | - | - | - | - | 17,953 | 10,813 | 315 | - | - | - | - | 2,423 |
| Other Cherry Activities | 26 | 44 | 119 | 216 | 461 | 4,644 | 2,622 | 78 | - | 10 | 29 | - | 687 |
| Pears, Total | 334 | 369 | 360 | 37 | 164 | 400 | 647 | 1,706 | 2,992 | 1,236 | 36 | 442 | 727 |
| Pear Pruning | 261 | 360 | 239 | - | 52 | - | 6 | - | - | - | 11 | 390 | 110 |
| Pear Thinning | - | - | - | - | - | 303 | 397 | 118 | - | - | - | - | 68 |
| Pear Harvester | - | - | - | - | - | - | 207 | 1,351 | 2,640 | 1,115 | - | - | 443 |
| Other Pear Activities | 73 | 9 | 121 | 37 | 112 | 97 | 37 | 237 | 352 | 121 | 25 | 52 | 106 |
| Other Tree Fruit Workers | 56 | 228 | 781 | 332 | 796 | 313 | 3,466 | 3,301 | 650 | 157 | 67 | 432 | 882 |
| Grape Workers | 266 | 1,534 | 2,132 | 1,370 | 1,458 | 1,504 | 974 | 755 | 756 | 1,050 | 529 | 231 | 1,047 |
| Blueberry Workers | 24 | 264 | 48 | 48 | 162 | 239 | 1,055 | 1,664 | 324 | 137 | 5 | 123 | 341 |
| Raspberry Workers | 777 | 245 | 642 | 393 | 303 | 230 | 3,923 | 877 | 670 | 654 | 855 | 975 | 879 |
| Strawberry Workers | - | 67 | 8 | 60 | 72 | 3,080 | 530 | 712 | 43 | - | - | - | 381 |
| Bulb Workers | 55 | 423 | 477 | 432 | 27 | 30 | 82 | 155 | 56 | 78 | 96 | 109 | 168 |
| Hop Workers | - | 215 | 551 | 305 | 637 | 186 | 116 | 201 | 1,181 | 10 | 88 | 107 | 300 |
| Nursery Workers | 776 | 1,799 | 2,012 | 1,937 | 2,355 | 2,192 | 1,881 | 1,638 | 957 | 605 | 1,063 | 618 | 1,486 |
| Wheat/Grain Workers | 65 | 43 | 83 | 97 | 112 | 136 | 380 | 742 | 108 | 111 | 84 | 35 | 166 |
| Asparagus Workers | - | - | 88 | 3,362 | 4,916 | 4,852 | 476 | 45 | - | 22 | - | - | 1,147 |
| Cucumber Workers | - | 39 | 111 | 107 | 119 | 98 | 273 | 725 | 540 | 397 | 51 | - | 205 |
| Onion Workers | 576 | 661 | 897 | 1,495 | 249 | 768 | 1,294 | 1,575 | 1,289 | 801 | 653 | 650 | 909 |
| Potato Workers | 228 | 201 | 260 | 509 | 427 | 437 | 750 | 1,692 | 1,700 | 2,813 | 423 | 398 | 820 |
| Misc Vegetable Workers | 83 | 116 | 229 | 462 | 606 | 889 | 1,399 | 1,883 | 2,330 | 1,703 | 407 | 138 | 854 |
| Other Seasonal Workers | 137 | 618 | 723 | 1,398 | 1,909 | 2,222 | 2,085 | 2,229 | 2,025 | 730 | 1,093 | 317 | 1,291 |

Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2005

| | Washington State | | | | | | | | | | | | AVG |
|---------------------|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| State Totals | 9,460 | 14,672 | 17,687 | 20,994 | 22,782 | 58,137 | 52,628 | 39,133 | 50,063 | 46,806 | 14,900 | 10,845 | 29,842 |
| Apples, Total | 5,760 | 7,448 | 7,938 | 8,400 | 7,889 | 17,898 | 19,851 | 18,735 | 34,442 | 36,270 | 9,397 | 6,109 | 15,011 |
| Pruning | 5,101 | 6,541 | 4,675 | 1,226 | 589 | 2,191 | 87 | 673 | 410 | 53 | 104 | 5,520 | 2,264 |
| Thinning | 0 | 86 | 278 | 2,829 | 3,124 | 14,407 | 18,129 | 3,115 | 135 | 0 | 42 | 0 | 3,512 |
| Harvesting | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8,559 | 30,996 | 33,829 | 6,479 | 0 | 6,655 |
| Sort, Grade, & Pack | 534 | 422 | 452 | 333 | 256 | 367 | 348 | 537 | 690 | 661 | 331 | 478 | 451 |
| Other | 125 | 399 | 2,533 | 4,012 | 3,920 | 933 | 1,287 | 5,851 | 2,211 | 1,727 | 2,441 | 111 | 2,129 |



Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2005

| Activity | Jan | Feb | Mar | Apr | May | Western Area 1 | | | Sep | Oct | Nov | Dec | Avg |
|------------------------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | | | | | |
| Total | 1,765 | 3,004 | 3,329 | 3,042 | 3,379 | 5,955 | 7,698 | 6,427 | 4,533 | 3,005 | 2,257 | 2,231 | 3,885 |
| Blueberry Workers | 24 | 264 | 48 | 48 | 162 | 239 | 1,055 | 1,664 | 324 | 137 | 5 | 123 | 341 |
| Raspberry Workers | 777 | 245 | 642 | 393 | 303 | 230 | 3,923 | 877 | 670 | 654 | 855 | 975 | 879 |
| Strawberry Workers | - | 67 | 4 | 32 | 31 | 2,898 | 14 | 119 | 13 | - | - | - | 265 |
| Bulb Workers | 55 | 423 | 477 | 432 | 27 | 30 | 82 | 155 | 56 | 78 | 96 | 109 | 168 |
| Cucumber Workers | - | 39 | 111 | 107 | 119 | 98 | 273 | 725 | 540 | 397 | 51 | - | 205 |
| Potato Workers | 157 | 139 | 98 | 105 | 103 | 106 | 101 | 196 | 291 | 347 | 192 | 185 | 168 |
| Misc Vegetable Workers | 72 | 19 | 66 | 162 | 164 | 270 | 391 | 815 | 1,099 | 785 | 209 | 98 | 346 |
| Nursery Workers | 664 | 1,699 | 1,755 | 1,560 | 1,988 | 1,728 | 1,504 | 1,279 | 798 | 505 | 689 | 598 | 1,231 |
| Rhubarb Workers | 5 | 81 | 88 | 54 | 163 | 64 | 9 | 13 | 5 | - | - | - | 40 |
| Other Seasonal Workers | 11 | 28 | 40 | 149 | 319 | 292 | 346 | 584 | 737 | 102 | 160 | 143 | 243 |

**Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide,
and by Agricultural Reporting Areas, 2005**

| Activity | South Central Area 2 | | | | | | | | | | | | |
|-----------------------------|----------------------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| Total | 1,835 | 3,399 | 4,142 | 4,842 | 5,930 | 17,564 | 11,072 | 8,702 | 13,900 | 11,448 | 2,070 | 1,893 | 7,233 |
| Apples, Total | 1,408 | 1,578 | 1,609 | 1,642 | 1,099 | 5,173 | 5,130 | 3,620 | 10,031 | 9,218 | 1,499 | 1,378 | 3,615 |
| Apple Pruning | 1,298 | 1,558 | 1,477 | 880 | 159 | - | 69 | 223 | 110 | 50 | 25 | 1,157 | 584 |
| Apple Thinning | - | - | - | - | 49 | 4,784 | 4,462 | 183 | 85 | - | - | - | 797 |
| Apple Harvester | - | - | - | - | - | - | - | 2,337 | 8,378 | 8,026 | 397 | - | 1,595 |
| Apple Sort, Grade, Pack | 96 | 5 | 55 | - | 5 | 267 | 253 | 346 | 393 | 494 | 57 | 195 | 181 |
| Other Apple Activities | 14 | 15 | 77 | 762 | 886 | 122 | 346 | 531 | 1,065 | 648 | 1,020 | 26 | 459 |
| Cherries, Total | 18 | 25 | 19 | 59 | 244 | 8,401 | 2,528 | 72 | - | 22 | 26 | 21 | 953 |
| Cherry Pruning | 18 | 25 | 9 | - | - | - | 6 | 72 | - | 22 | 21 | 21 | 16 |
| Cherry Harvester | - | - | - | - | - | 4,527 | 1,184 | - | - | - | - | - | 476 |
| Other Cherry Activity | - | - | 10 | 59 | 244 | 3,874 | 1,338 | - | - | - | 5 | - | 461 |
| Pears, Total | 201 | 315 | 238 | - | 4 | 210 | 536 | 1,420 | 1,098 | 1,031 | 5 | 279 | 445 |
| Pear Pruning | 201 | 315 | 195 | - | - | - | 6 | - | - | - | 5 | 279 | 83 |
| Pear Thinning | - | - | - | - | - | 210 | 307 | 64 | - | - | - | - | 48 |
| Pear Harvester | - | - | - | - | - | - | 207 | 1,310 | 1,098 | 1,031 | - | - | 304 |
| Other Pear Activities | - | - | 43 | - | 4 | - | 16 | 46 | - | - | - | - | 9 |
| Other Tree Fruit, Total | 10 | 126 | 467 | 156 | 312 | 94 | 928 | 1,885 | 153 | 15 | 10 | 5 | 347 |
| Other Tree Fruit Pruner | 10 | 126 | 300 | 32 | - | - | - | - | - | - | - | 5 | 39 |
| Other Tree Fruit Harvester | - | - | - | - | - | - | 867 | 1,846 | 153 | - | - | - | 239 |
| Other Tree Fruit Activities | - | - | 167 | 124 | 312 | 94 | 61 | 39 | - | 15 | 10 | - | 69 |
| Grapes, Total | 195 | 967 | 1,199 | 556 | 708 | 907 | 508 | 516 | 507 | 632 | 371 | 154 | 602 |
| Grape Pruning | 191 | 939 | 1,012 | 92 | 70 | 25 | 32 | 31 | - | - | 16 | 154 | 214 |
| Grape Harvester | - | - | - | - | - | - | - | - | 178 | 623 | 231 | - | 86 |
| Other Grape Activity | 4 | 28 | 187 | 464 | 638 | 882 | 476 | 485 | 329 | 9 | 124 | - | 302 |
| Asparagus Workers | - | - | 53 | 1,597 | 2,334 | 1,734 | 476 | 25 | - | - | - | - | 518 |
| Hops, Total | - | 193 | 377 | 199 | 341 | 112 | 46 | 68 | 1,024 | - | - | - | 197 |
| Hop Twining & Training | - | - | - | 169 | 231 | 112 | - | - | - | - | - | - | 43 |
| Hop Harvester | - | - | - | - | - | - | - | - | 777 | - | - | - | 65 |
| Other Hop Activity | - | 193 | 377 | 30 | 110 | - | 46 | 68 | 247 | - | - | - | 89 |
| Onion Workers | - | - | 22 | 77 | 22 | 211 | 10 | 272 | 251 | 22 | - | - | 74 |
| Potato Workers | - | - | 11 | - | - | - | 147 | 197 | 12 | - | - | - | 31 |
| Misc Vegetable Workers | 3 | 5 | 53 | 132 | 88 | 250 | 360 | 218 | 242 | 226 | 59 | 40 | 140 |
| Other Seasonal Workers | - | 190 | 94 | 424 | 778 | 472 | 403 | 409 | 582 | 282 | 100 | 16 | 313 |

**Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide,
and by Agricultural Reporting Areas, 2005**

| Activity | Jan | Feb | Mar | Apr | May | North Central Area 3 | | | Sep | Oct | Nov | Dec | Avg |
|--------------------------|-------|-------|-------|-------|-------|----------------------|--------|--------|--------|--------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | | | | | |
| Total | 2,899 | 3,940 | 4,549 | 4,725 | 4,514 | 13,739 | 19,731 | 10,901 | 15,134 | 14,823 | 3,803 | 3,029 | 8,482 |
| Apples, Total | 2,621 | 3,645 | 4,142 | 4,450 | 3,713 | 4,769 | 8,745 | 9,670 | 13,151 | 14,444 | 3,654 | 2,689 | 6,308 |
| Apple Pruning | 2,145 | 3,029 | 1,916 | 167 | 361 | 2,102 | - | 210 | 68 | - | 17 | 2,359 | 1,031 |
| Apple Thinning | - | - | 278 | 2,401 | 1,264 | 2,253 | 8,367 | 779 | 5 | - | - | - | 1,279 |
| Apple Harvester | - | - | - | - | - | - | - | 3,821 | 12,206 | 13,568 | 2,267 | - | 2,655 |
| Apple Sort, Grade, Pack | 438 | 417 | 397 | 333 | 251 | 100 | 95 | 191 | 297 | 167 | 274 | 283 | 270 |
| Other Apple Activities | 38 | 199 | 1,551 | 1,549 | 1,837 | 314 | 283 | 4,669 | 575 | 709 | 1,096 | 47 | 1,072 |
| Cherries, Total | 84 | 142 | 159 | 75 | 182 | 8,546 | 8,870 | 291 | - | 8 | 3 | 39 | 1,533 |
| Cherry Pruning | 81 | 142 | 109 | 15 | 52 | 53 | - | - | - | - | - | 39 | 41 |
| Cherry Harvester | - | - | - | - | - | 7,781 | 7,626 | 227 | - | - | - | - | 1,303 |
| Other Cherry Activities | 3 | - | 50 | 60 | 130 | 712 | 1,244 | 64 | - | 8 | 3 | - | 190 |
| Pears, Total | 63 | 51 | 113 | 27 | 144 | 106 | 111 | 247 | 1,737 | 205 | 15 | 118 | 245 |
| Pear Pruning | 60 | 45 | 44 | - | 52 | - | - | - | - | - | 6 | 111 | 27 |
| Pear Thinning | - | - | - | - | - | 93 | 90 | 54 | - | - | - | - | 20 |
| Pear Harvester | - | - | - | - | - | - | - | 41 | 1,542 | 84 | - | - | 139 |
| Other Pear Activities | 3 | 6 | 69 | 27 | 92 | 13 | 21 | 152 | 195 | 121 | 9 | 7 | 60 |
| Other Tree Fruit Workers | 36 | 8 | 31 | 34 | 362 | 90 | 1,910 | 557 | 171 | 131 | 43 | 175 | 296 |
| Other Seasonal Workers | 95 | 94 | 104 | 139 | 113 | 228 | 95 | 136 | 75 | 35 | 88 | 8 | 101 |

Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2005

| Activity | Jan | Feb | Mar | Apr | May | Columbia Basin Area 4 | | | | Oct | Nov | Dec | Avg |
|--------------------------|-------|-------|-------|-------|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | Sep | | | | |
| Total | 1,613 | 1,733 | 2,222 | 2,377 | 3,003 | 6,422 | 6,369 | 5,879 | 8,274 | 9,276 | 2,883 | 1,862 | 4,326 |
| Apples, Total | 1,059 | 1,295 | 1,421 | 1,288 | 1,857 | 3,925 | 3,354 | 3,501 | 6,440 | 7,150 | 1,812 | 1,162 | 2,855 |
| Apple Pruning | 989 | 1,181 | 850 | 89 | 50 | 89 | - | 203 | 194 | - | 18 | 1,124 | 399 |
| Apple Thinning | - | - | - | 284 | 885 | 3,548 | 3,050 | 1,702 | 39 | - | 42 | - | 796 |
| Apple Harvester | - | - | - | - | - | - | - | 1,058 | 5,723 | 6,817 | 1,506 | - | 1,259 |
| Other Apple Activities | 70 | 114 | 571 | 915 | 922 | 288 | 304 | 538 | 484 | 333 | 246 | 38 | 402 |
| Cherries, Total | 130 | 103 | 77 | 32 | 61 | 1,332 | 1,632 | 12 | - | - | 24 | 9 | 284 |
| Cherry Pruning | 107 | 59 | 20 | - | 17 | 13 | 5 | - | - | - | 3 | 9 | 19 |
| Cherry Harvester | - | - | - | - | - | 1,294 | 1,602 | 12 | - | - | - | - | 242 |
| Other Cherry Activities | 23 | 44 | 57 | 32 | 44 | 25 | 25 | - | - | - | 21 | - | 23 |
| Pear Workers | 70 | 3 | 9 | 10 | 16 | 84 | - | 39 | 157 | - | 16 | 45 | 37 |
| Mint Workers | - | 4 | - | 11 | 93 | - | 30 | 41 | 112 | - | 251 | - | 45 |
| Other Tree Fruit Workers | - | 9 | 196 | 66 | 17 | 4 | 91 | 143 | - | 11 | 9 | 178 | 60 |
| Asparagus Workers | - | - | 5 | 112 | 235 | 207 | - | 20 | - | 22 | - | - | 50 |
| Onion Workers | 192 | 243 | 191 | 206 | 119 | 90 | 124 | 112 | 238 | 171 | 168 | 190 | 170 |
| Potatoes, Total | 29 | 14 | 13 | 269 | 140 | 43 | 236 | 911 | 945 | 1,773 | 83 | 170 | 386 |
| Potato Harvester | - | - | - | - | - | - | - | - | 35 | 60 | - | - | 8 |
| Potato Sort, Grade, Pack | 15 | - | - | 36 | 82 | - | 123 | 738 | 654 | 853 | 6 | 141 | 221 |
| Other Potato Activities | 14 | 14 | 13 | 233 | 58 | 43 | 113 | 173 | 256 | 860 | 77 | 29 | 157 |
| Misc Vegetable Workers | 3 | 3 | 14 | 38 | 90 | 51 | 278 | 438 | 111 | 63 | 3 | - | 91 |
| Wheat/Grain Workers | 7 | - | 5 | 3 | 5 | 21 | 56 | 100 | 26 | 13 | 14 | - | 21 |
| Nursery Workers | 104 | 19 | 80 | 161 | 138 | 284 | 242 | 251 | 64 | 16 | 311 | 17 | 141 |
| Other Seasonal Workers | 19 | 40 | 211 | 181 | 232 | 381 | 326 | 311 | 181 | 57 | 192 | 91 | 185 |

Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2005

| Activity | Jan | Feb | Mar | Apr | May | South Eastern Area 5 | | | | | | Avg | |
|--------------------------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| Total | 1,285 | 2,484 | 3,150 | 5,625 | 6,094 | 14,109 | 7,206 | 6,310 | 8,010 | 8,058 | 3,743 | 1,795 | 5,656 |
| Apples, Total | 672 | 930 | 766 | 1,020 | 1,220 | 4,031 | 2,622 | 1,944 | 4,820 | 5,458 | 2,432 | 880 | 2,233 |
| Apple Pruning | 669 | 773 | 432 | 90 | 19 | - | 18 | 37 | 38 | 3 | 44 | 880 | 250 |
| Apple Thinning | - | 86 | - | 144 | 926 | 3,822 | 2,250 | 451 | 6 | - | - | - | 640 |
| Apple Harvester | - | - | - | - | - | - | - | 1,343 | 4,689 | 5,418 | 2,309 | - | 1,147 |
| Other Apple Activities | 3 | 71 | 334 | 786 | 275 | 209 | 354 | 113 | 87 | 37 | 79 | - | 196 |
| Cherries, Total | 91 | 132 | 92 | 84 | 94 | 4,384 | 416 | 123 | - | 2 | - | 92 | 459 |
| Cherry Pruning | 91 | 132 | 90 | 19 | 51 | - | - | 33 | - | - | - | 92 | 42 |
| Cherry Harvester | - | - | - | - | - | 4,351 | 401 | 76 | - | - | - | - | 402 |
| Other Cherry Activities | - | - | 2 | 65 | 43 | 33 | 15 | 14 | - | 2 | - | - | 15 |
| Other Tree Fruit Workers | 10 | 85 | 87 | 76 | 105 | 125 | 537 | 716 | 326 | - | 5 | 74 | 179 |
| Grape Workers | 71 | 567 | 933 | 814 | 750 | 597 | 466 | 239 | 249 | 418 | 158 | 77 | 445 |
| Asparagus Workers | - | - | 30 | 1,653 | 2,347 | 2,911 | - | - | - | - | - | - | 578 |
| Hop Workers | - | 22 | 174 | 106 | 296 | 74 | 70 | 133 | 157 | 10 | 88 | 107 | 103 |
| Onion Workers | 384 | 418 | 684 | 1,212 | 108 | 467 | 1,160 | 1,191 | 800 | 608 | 485 | 460 | 665 |
| Potatoes, Total | 42 | 48 | 138 | 135 | 184 | 288 | 266 | 388 | 452 | 693 | 148 | 43 | 235 |
| Potato Harvester | - | - | - | - | - | 6 | 34 | 97 | 186 | 371 | 4 | - | 58 |
| Potato Sort, Grade, Pack | 39 | 41 | 94 | - | 165 | 272 | 166 | 231 | 143 | 180 | 67 | 42 | 120 |
| Other Potato Activities | 3 | 7 | 44 | 135 | 19 | 16 | 66 | 60 | 123 | 142 | 77 | 1 | 58 |
| Misc Vegetable Workers | - | 8 | 8 | 76 | 101 | 254 | 361 | 399 | 873 | 629 | 136 | - | 237 |
| Wheat/Grain Workers | 7 | 13 | 16 | 6 | 13 | 34 | 85 | 108 | 11 | 15 | 10 | 12 | 28 |
| Nursery Workers | - | 11 | 23 | 19 | 25 | 73 | 74 | 3 | 6 | 10 | - | - | 20 |
| Strawberry Workers | - | - | 4 | 28 | 41 | 182 | 516 | 593 | 30 | - | - | - | 116 |
| Other Seasonal Workers | 8 | 250 | 195 | 396 | 275 | 689 | 633 | 473 | 286 | 215 | 281 | 50 | 313 |

**Appendix 2. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide,
and by Agricultural Reporting Areas, 2005**

| Activity | Jan | Feb | Mar | Apr | May | Eastern Area 6 | | Aug | Sep | Oct | Nov | Dec | Avg |
|----------------------------|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | Jun | Jul | | | | | | |
| Total | 63 | 112 | 295 | 383 | 397 | 348 | 552 | 914 | 212 | 196 | 144 | 35 | 304 |
| Wheat/Grain, Total | 51 | 30 | 62 | 88 | 94 | 81 | 239 | 534 | 71 | 83 | 60 | 23 | 118 |
| Wheat/Grain Harvester | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Wheat/Grain Eqpmt Operator | - | - | 45 | 40 | 39 | 36 | 162 | 523 | 30 | 42 | 26 | - | 79 |
| Other Wheat/Grain Activity | 51 | 30 | 17 | 48 | 55 | 45 | 77 | 11 | 41 | 41 | 34 | 23 | 39 |
| Nursery Workers | 8 | 70 | 154 | 197 | 204 | 107 | 61 | 105 | 89 | 74 | 63 | 3 | 95 |
| Other Seasonal Workers | 4 | 12 | 79 | 98 | 99 | 160 | 252 | 275 | 52 | 39 | 21 | 9 | 92 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

Source: LMEA/ESD, Agricultural Labor Employment and Wage Trend Survey

| | Washington State | | | | | | | | | | | | |
|--------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| State Totals | 12,771 | 15,756 | 19,027 | 22,454 | 24,516 | 51,906 | 67,482 | 42,014 | 49,629 | 49,119 | 16,533 | 12,970 | 32,015 |
| Apples, Total | 7,201 | 7,617 | 8,892 | 10,062 | 8,843 | 20,619 | 18,520 | 15,412 | 31,651 | 38,101 | 11,042 | 7,771 | 15,478 |
| Apple Pruning | 6,639 | 6,844 | 7,405 | 2,209 | 459 | 1,694 | 1,344 | 1,181 | 802 | 124 | 2,977 | 7,078 | 3,230 |
| Apple Thinning | - | - | 9 | 3,187 | 3,712 | 17,379 | 15,769 | 8,316 | 328 | - | - | - | 4,058 |
| Apple Harvester | - | - | - | - | - | - | 18 | 3,500 | 28,885 | 35,314 | 6,124 | - | 6,153 |
| Apple Sort, Grade, Pack | 402 | 385 | 279 | 316 | 235 | 233 | 221 | 467 | 213 | 660 | 406 | 493 | 359 |
| Other Apple Activities | 160 | 388 | 1,199 | 4,350 | 4,437 | 1,313 | 1,168 | 1,948 | 1,423 | 2,003 | 1,535 | 200 | 1,677 |
| Cherries, Total | 664 | 959 | 726 | 456 | 1,396 | 16,475 | 32,302 | 7,494 | 116 | 4 | 177 | 329 | 5,092 |
| Cherry Pruning | 657 | 845 | 551 | 75 | 65 | 74 | 12 | 141 | 107 | - | 87 | 309 | 244 |
| Cherry Harvester | - | - | - | - | - | 10,242 | 25,598 | 5,568 | - | - | - | - | 3,451 |
| Other Cherry Activities | 7 | 114 | 175 | 381 | 1,331 | 6,159 | 6,692 | 1,785 | 9 | 4 | 90 | 20 | 1,397 |
| Pears, Total | 471 | 409 | 399 | 122 | 157 | 299 | 167 | 3,390 | 4,863 | 2,037 | 391 | 385 | 1,091 |
| Pear Pruning | 390 | 392 | 282 | 72 | 50 | - | 13 | - | - | - | 213 | 195 | 134 |
| Pear Thinning | - | - | - | - | - | 243 | 86 | 73 | - | - | - | - | 34 |
| Pear Harvester | - | - | - | - | - | - | - | 3,255 | 4,309 | 1,836 | - | - | 783 |
| Other Pear Activities | 81 | 17 | 117 | 50 | 107 | 56 | 68 | 62 | 554 | 201 | 178 | 190 | 140 |
| Other Tree Fruit Workers | 229 | 445 | 805 | 929 | 553 | 507 | 896 | 2,525 | 727 | 106 | 391 | 279 | 699 |
| Grape Workers | 997 | 2,122 | 1,783 | 1,209 | 1,485 | 1,415 | 1,480 | 915 | 1,137 | 809 | 543 | 295 | 1,183 |
| Blueberry Workers | 383 | 223 | 93 | 134 | 43 | 59 | 689 | 2,336 | 119 | 6 | 6 | 32 | 344 |
| Raspberry Workers | 398 | 565 | 532 | 373 | 490 | 327 | 4,578 | 1,087 | 888 | 1,030 | 841 | 1,111 | 1,018 |
| Strawberry Workers | - | - | 75 | 95 | 175 | 2,051 | 305 | 77 | 16 | 7 | - | - | 233 |
| Bulb Workers | 152 | 847 | 994 | 545 | 327 | 69 | 89 | 195 | 120 | 84 | 122 | 115 | 305 |
| Hop Workers | 14 | 384 | 1,038 | 691 | 932 | 229 | 102 | 197 | 1,688 | 28 | 65 | 4 | 448 |
| Nursery Workers | 714 | 713 | 1,205 | 1,774 | 2,041 | 2,117 | 1,829 | 1,515 | 1,274 | 939 | 637 | 961 | 1,310 |
| Wheat/Grain Workers | 34 | 56 | 79 | 67 | 62 | 195 | 300 | 784 | 195 | 103 | 88 | 74 | 170 |
| Asparagus Workers | - | - | - | 2,562 | 5,087 | 4,314 | 310 | 32 | - | 43 | - | - | 1,029 |
| Cucumber Workers | - | - | - | - | 11 | 20 | 155 | 146 | 302 | 43 | - | - | 56 |
| Onion Workers | 436 | 460 | 789 | 352 | 340 | 453 | 1,358 | 771 | 621 | 222 | 268 | 77 | 512 |
| Potato Workers | 514 | 530 | 715 | 958 | 611 | 654 | 893 | 1,913 | 1,861 | 3,649 | 1,104 | 831 | 1,186 |
| Misc Vegetable Workers | 109 | 105 | 234 | 790 | 777 | 879 | 1,205 | 1,544 | 1,991 | 1,241 | 343 | 251 | 789 |
| Other Seasonal Workers | 455 | 321 | 668 | 1,335 | 1,186 | 1,224 | 2,304 | 1,681 | 2,060 | 667 | 515 | 455 | 1,073 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

| Activity | Jan | Feb | Mar | Apr | May | Western Area 1 | | | | | | Avg | |
|------------------------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | Sep | Oct | Nov | | Dec |
| Total | 2,125 | 2,665 | 3,197 | 3,430 | 3,559 | 5,153 | 8,105 | 6,665 | 4,860 | 3,842 | 2,352 | 2,901 | 4,071 |
| Blueberry Workers | 383 | 223 | 93 | 134 | 43 | 59 | 689 | 2,336 | 119 | 6 | 6 | 32 | 344 |
| Raspberry Workers | 398 | 565 | 532 | 373 | 490 | 327 | 4,578 | 1,087 | 888 | 1,030 | 841 | 1,111 | 1,018 |
| Strawberry Workers | - | - | 75 | 92 | 148 | 1,977 | 15 | 12 | - | 6 | - | - | 194 |
| Bulb Workers | 152 | 847 | 994 | 545 | 327 | 69 | 89 | 195 | 120 | 84 | 122 | 115 | 305 |
| Cucumber Workers | - | - | - | - | 11 | 20 | 155 | 146 | 302 | 43 | - | - | 56 |
| Potato Workers | 291 | 297 | 268 | 197 | 212 | 280 | 144 | 226 | 564 | 997 | 556 | 499 | 378 |
| Misc Vegetable Workers | 57 | 60 | 173 | 484 | 396 | 520 | 745 | 1,034 | 1,380 | 840 | 202 | 198 | 507 |
| Nursery Workers | 684 | 642 | 1,011 | 1,458 | 1,738 | 1,696 | 1,410 | 1,142 | 939 | 668 | 473 | 736 | 1,050 |
| Rhubarb Workers | - | - | 13 | 85 | 89 | 10 | 22 | 5 | - | - | - | - | 19 |
| Other Seasonal Workers | 160 | 31 | 38 | 62 | 105 | 195 | 258 | 482 | 548 | 168 | 152 | 210 | 201 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

| Activity | Jan | Feb | Mar | Apr | May | South Central Area 2 | | | Sep | Oct | Nov | Dec | Avg |
|------------------------------|-------|-------|-------|-------|-------|----------------------|--------|--------|--------|--------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | | | | | |
| Total | 3,681 | 4,789 | 5,656 | 6,350 | 7,548 | 17,043 | 20,300 | 10,631 | 14,766 | 12,884 | 4,342 | 3,781 | 9,314 |
| Apples, Total | 2,370 | 2,068 | 2,764 | 3,313 | 2,687 | 7,701 | 5,542 | 5,309 | 9,567 | 11,146 | 3,695 | 3,272 | 4,953 |
| Apple Pruning | 2,215 | 1,836 | 2,304 | 1,566 | 130 | 1,550 | 1,017 | 313 | 179 | 75 | 302 | 3,110 | 1,216 |
| Apple Thinning | - | - | - | 951 | 676 | 5,263 | 3,908 | 1,458 | - | - | - | - | 1,021 |
| Apple Harvester | - | - | - | - | - | - | - | 2,273 | 8,756 | 9,616 | 2,523 | - | 1,931 |
| Apple Sort, Grade, Pack | 134 | 123 | 39 | 177 | 40 | 185 | 171 | 393 | - | 357 | 176 | 151 | 162 |
| Other Apple Activities | 21 | 109 | 421 | 619 | 1,841 | 703 | 446 | 872 | 632 | 1,098 | 694 | 11 | 622 |
| Cherries, Total | 125 | 293 | 303 | 98 | 1,156 | 6,095 | 12,664 | 1,216 | 105 | - | 18 | 23 | 1,841 |
| Cherry Pruning | 125 | 293 | 247 | 47 | - | 20 | 12 | 138 | 105 | - | 18 | 23 | 86 |
| Cherry Harvester | - | - | - | - | - | 2,806 | 7,904 | - | - | - | - | - | 893 |
| Other Cherry Activity | - | - | 56 | 51 | 1,156 | 3,269 | 4,748 | 1,078 | - | - | - | - | 863 |
| Pears, Total | 335 | 364 | 282 | 110 | 10 | 157 | 93 | 1,458 | 2,277 | 952 | 231 | 126 | 533 |
| Pear Pruning | 335 | 364 | 282 | 72 | 10 | - | 7 | - | - | - | 213 | 126 | 117 |
| Pear Thinning | - | - | - | - | - | 150 | 86 | 73 | - | - | - | - | 26 |
| Pear Harvester | - | - | - | - | - | - | - | 1,385 | 2,277 | 952 | - | - | 385 |
| Other Pear Activities | - | - | - | 38 | - | 7 | - | - | - | - | 18 | - | 5 |
| Other Tree Fruit, Total | - | 280 | 551 | 513 | 53 | 179 | 165 | 1,264 | 131 | 7 | - | - | 262 |
| Other Tree Fruit Pruner | - | 280 | 521 | 140 | - | 16 | - | - | 12 | - | - | - | 81 |
| Other Tree Fruit Harvester | - | - | - | - | - | - | 165 | 1,166 | 119 | - | - | - | 121 |
| Other Tree FruitT Activities | - | - | 30 | 373 | 53 | 163 | - | 98 | - | 7 | - | - | 60 |
| Grapes, Total | 750 | 1,486 | 1,065 | 768 | 817 | 679 | 690 | 397 | 526 | 351 | 246 | 280 | 671 |
| Grape Pruning | 676 | 1,292 | 918 | 136 | 401 | - | 16 | - | - | - | - | 257 | 308 |
| Grape Harvester | - | - | - | - | - | - | - | - | 182 | 300 | 44 | - | 44 |
| Other Grape Activity | 74 | 194 | 147 | 632 | 416 | 679 | 674 | 397 | 344 | 51 | 202 | 23 | 319 |
| Asparagus Workers | - | - | - | 374 | 1,854 | 1,500 | 308 | 32 | - | 38 | - | - | 342 |
| Hops, Total | 10 | 256 | 483 | 478 | 506 | 152 | 90 | 151 | 1,483 | 28 | 65 | - | 309 |
| Hop Twining & Training | - | - | - | 250 | 328 | 29 | - | - | - | - | 16 | - | 52 |
| Hop Harvester | - | - | - | - | - | - | - | 21 | 1,165 | - | - | - | 108 |
| Other Hop Activity | 10 | 256 | 483 | 228 | 178 | 123 | 90 | 130 | 318 | 28 | 49 | - | 158 |
| Onion Workers | - | 13 | 40 | 30 | - | 80 | 70 | 320 | 114 | 6 | - | - | 56 |
| Potato Workers | - | - | - | - | - | - | 98 | 211 | 43 | - | - | - | 29 |
| Misc Vegetable Workers | 26 | - | 3 | 158 | 108 | 119 | 320 | 25 | 366 | 238 | 41 | 28 | 119 |
| Other Seasonal Workers | 65 | 29 | 165 | 508 | 357 | 381 | 260 | 248 | 154 | 118 | 46 | 52 | 199 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

| Activity | Jan | Feb | Mar | Apr | May | North Central Area 3 | | | Sep | Oct | Nov | Dec | Avg |
|--------------------------|-------|-------|-------|-------|-------|----------------------|--------|--------|--------|--------|-------|-------|-------|
| | | | | | | Jun | Jul | Aug | | | | | |
| Total | 3,026 | 3,451 | 4,011 | 4,899 | 3,658 | 12,261 | 22,211 | 11,793 | 14,074 | 15,363 | 3,786 | 3,585 | 8,510 |
| Apples, Total | 2,642 | 3,123 | 3,660 | 4,570 | 3,207 | 5,319 | 5,270 | 3,084 | 11,348 | 14,189 | 3,448 | 3,111 | 5,248 |
| Apple Pruning | 2,340 | 2,776 | 3,214 | 76 | 126 | 19 | 11 | 205 | 92 | - | 2,494 | 2,639 | 1,166 |
| Apple Thinning | - | - | - | 2,155 | 1,526 | 5,045 | 4,905 | 2,361 | - | - | - | - | 1,333 |
| Apple Harvester | - | - | - | - | - | - | 17 | 186 | 10,787 | 13,658 | 518 | - | 2,097 |
| Apple Sort, Grade, Pack | 268 | 262 | 240 | 139 | 195 | 48 | 50 | 74 | 213 | 303 | 230 | 342 | 197 |
| Other Apple Activities | 34 | 85 | 206 | 2,200 | 1,360 | 207 | 287 | 258 | 256 | 228 | 206 | 130 | 455 |
| Cherries, Total | 206 | 167 | 130 | 155 | 118 | 6,622 | 16,468 | 5,997 | 5 | 4 | 37 | 30 | 2,495 |
| Cherry Pruning | 206 | 167 | 103 | 18 | 60 | 54 | - | - | - | - | 30 | 27 | 55 |
| Cherry Harvester | - | - | - | - | - | 4,016 | 14,723 | 5,509 | - | - | - | - | 2,021 |
| Other Cherry Activities | - | - | 27 | 137 | 58 | 2,552 | 1,745 | 488 | 5 | 4 | 7 | 3 | 419 |
| Pears, Total | 55 | 28 | 69 | 12 | 147 | 113 | 35 | 1,903 | 2,235 | 1,085 | 160 | 237 | 507 |
| Pear Pruning | 55 | 28 | - | - | 40 | - | 6 | - | - | - | - | 69 | 17 |
| Pear Thinning | - | - | - | - | - | 93 | - | - | - | - | - | - | 8 |
| Pear Harvester | - | - | - | - | - | - | - | 1,870 | 2,032 | 884 | - | - | 399 |
| Other Pear Activities | - | - | 69 | 12 | 107 | 20 | 29 | 33 | 203 | 201 | 160 | 168 | 84 |
| Other Tree Fruit Workers | 117 | 52 | 140 | 130 | 152 | 62 | 325 | 742 | 44 | 46 | 30 | 91 | 161 |
| Other Seasonal Workers | 6 | 81 | 12 | 32 | 34 | 145 | 113 | 67 | 442 | 39 | 111 | 116 | 100 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

| Activity | Columbia Basin Area 4 | | | | | | | | | | | | |
|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| Total | 2,000 | 2,269 | 2,562 | 2,810 | 3,181 | 6,774 | 6,966 | 6,425 | 8,319 | 9,436 | 2,885 | 1,647 | 4,606 |
| Apples, Total | 1,228 | 1,348 | 1,461 | 1,320 | 1,325 | 2,978 | 4,039 | 4,092 | 6,195 | 6,938 | 1,661 | 875 | 2,788 |
| Apple Pruning | 1,199 | 1,275 | 1,182 | 316 | 82 | 107 | 276 | 575 | 111 | - | 40 | 847 | 501 |
| Apple Thinning | - | - | 9 | 72 | 341 | 2,622 | 3,456 | 2,318 | 210 | - | - | - | 752 |
| Apple Harvester | - | - | - | - | - | - | - | 721 | 5,473 | 6,515 | 1,231 | - | 1,162 |
| Other Apple Activities | 29 | 73 | 270 | 932 | 902 | 249 | 307 | 478 | 401 | 423 | 390 | 28 | 374 |
| | | | | | | | | | - | | | | |
| Cherries, Total | 19 | 170 | 179 | 139 | 73 | 2,164 | 1,330 | 274 | 6 | - | 73 | 119 | 379 |
| Cherry Pruning | 19 | 70 | 91 | 8 | - | - | - | - | 2 | - | 4 | 110 | 25 |
| Cherry Harvester | - | - | - | - | - | 2,110 | 1,190 | 59 | - | - | - | - | 280 |
| Other Cherry Activities | - | 100 | 88 | 131 | 73 | 54 | 140 | 215 | 4 | - | 69 | 9 | 74 |
| Pear Workers | 81 | 17 | 48 | - | - | 29 | 39 | 29 | 351 | - | - | 22 | 51 |
| Mint Workers | 35 | 20 | 38 | 33 | 127 | 29 | 221 | 183 | 65 | - | - | - | 63 |
| Other Tree Fruit Workers | 109 | 57 | 86 | 238 | 276 | 239 | 109 | 194 | 29 | 1 | 342 | 84 | 147 |
| Asparagus Workers | - | - | - | 66 | 582 | 346 | - | - | - | 5 | - | - | 83 |
| Onion Workers | 325 | 392 | 227 | 127 | 172 | 197 | 294 | 388 | 371 | 115 | 246 | 66 | 243 |
| Potatoes, Total | 174 | 206 | 314 | 588 | 354 | 352 | 408 | 702 | 927 | 2,141 | 429 | 310 | 575 |
| Potato Harvester | - | - | - | 5 | - | - | - | 45 | 126 | 392 | - | - | 47 |
| Potato Sort, Grade, Pack | 124 | 114 | 187 | 266 | 106 | - | 250 | 503 | 375 | 763 | 223 | 214 | 260 |
| Other Potato Activities | 50 | 92 | 127 | 317 | 248 | 352 | 158 | 154 | 426 | 986 | 206 | 96 | 268 |
| Misc Vegetable Workers | 2 | 2 | 9 | 18 | 61 | 63 | 44 | 65 | 36 | 2 | 7 | - | 26 |
| Wheat/Grain Workers | 2 | 3 | 5 | - | - | 5 | 28 | 36 | - | - | 14 | - | 8 |
| Nursery Workers | 19 | 29 | 5 | 30 | 25 | 264 | 269 | 202 | 172 | 105 | 67 | 166 | 113 |
| Other Seasonal Workers | 6 | 25 | 190 | 251 | 186 | 108 | 185 | 260 | 167 | 129 | 46 | 5 | 130 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

| Activity | South Eastern Area 5 | | | | | | | | | | | | |
|--------------------------|----------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-----|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| Total | 1,861 | 2,449 | 3,285 | 4,508 | 6,080 | 10,165 | 9,296 | 5,500 | 7,184 | 7,191 | 2,973 | 926 | 5,118 |
| Apples, Total | 961 | 1,078 | 1,007 | 859 | 1,624 | 4,621 | 3,669 | 2,927 | 4,541 | 5,828 | 2,238 | 513 | 2,489 |
| Apple Pruning | 885 | 957 | 705 | 251 | 121 | 18 | 40 | 88 | 420 | 49 | 141 | 482 | 346 |
| Apple Thinning | - | - | - | 9 | 1,169 | 4,449 | 3,500 | 2,179 | 118 | - | - | - | 952 |
| Apple Harvester | - | - | - | - | - | - | 1 | 320 | 3,869 | 5,525 | 1,852 | - | 964 |
| Other Apple Activities | 76 | 121 | 302 | 599 | 334 | 154 | 128 | 340 | 134 | 254 | 245 | 31 | 227 |
| Cherries, Total | 314 | 329 | 114 | 64 | 49 | 1,594 | 1,840 | 7 | - | - | 49 | 157 | 376 |
| Cherry Pruning | 307 | 315 | 110 | 2 | 5 | - | - | 3 | - | - | 35 | 149 | 77 |
| Cherry Harvester | - | - | - | - | - | 1,310 | 1,781 | - | - | - | - | - | 258 |
| Other Cherry Activities | 7 | 14 | 4 | 62 | 44 | 284 | 59 | 4 | - | - | 14 | 8 | 42 |
| Other Tree Fruit Workers | 3 | 56 | 28 | 48 | 72 | 27 | 297 | 325 | 523 | 52 | 19 | 104 | 130 |
| Grape Workers | 247 | 636 | 718 | 441 | 668 | 736 | 790 | 518 | 611 | 458 | 297 | 15 | 511 |
| Asparagus Workers | - | - | - | 2,122 | 2,651 | 2,468 | 2 | - | - | - | - | - | 604 |
| Hop Workers | 4 | 128 | 555 | 213 | 426 | 77 | 12 | 46 | 205 | - | - | 4 | 139 |
| Onion Workers | 111 | 55 | 522 | 195 | 168 | 176 | 994 | 63 | 136 | 101 | 22 | 11 | 213 |
| Potatoes, Total | 49 | 27 | 133 | 173 | 45 | 22 | 243 | 774 | 327 | 511 | 119 | 22 | 204 |
| Potato Harvester | - | - | - | - | - | 24 | 32 | 96 | 71 | 238 | 34 | - | 41 |
| Potato Sort, Grade, Pack | 31 | - | 21 | 30 | - | - | 110 | 602 | 158 | 128 | 8 | - | 91 |
| Other Potato Activities | 18 | 27 | 112 | 143 | 45 | 22 | 101 | 76 | 98 | 145 | 77 | 22 | 74 |
| Misc Vegetable Workers | 24 | 43 | 36 | 45 | 123 | 167 | 74 | 415 | 209 | 161 | 93 | 25 | 118 |
| Wheat/Grain Workers | 12 | 6 | 13 | 15 | 15 | 11 | 50 | 117 | 30 | 13 | 3 | 15 | 25 |
| Nursery Workers | - | - | 1 | 2 | 13 | 15 | 1 | 2 | 2 | 1 | - | - | 3 |
| Strawberry Workers | - | - | - | 3 | 27 | 74 | 290 | 65 | 16 | 1 | - | - | 40 |
| Other Seasonal Workers | 136 | 91 | 158 | 328 | 199 | 177 | 1,034 | 241 | 584 | 65 | 133 | 60 | 267 |

Appendix 3. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2006

| Activity | Jan | Feb | Mar | Apr | May | Eastern Area 6 | | Aug | Sep | Oct | Nov | Dec | Avg |
|----------------------------|-----|-----|-----|-----|-----|----------------|-----|-------|-----|-----|-----|-----|-----|
| | | | | | | Jun | Jul | | | | | | |
| Total | 78 | 133 | 316 | 457 | 490 | 510 | 604 | 1,000 | 426 | 403 | 195 | 130 | 395 |
| Wheat/Grain, Total | 20 | 47 | 61 | 52 | 47 | 179 | 222 | 631 | 165 | 90 | 71 | 59 | 137 |
| Wheat/Grain Harvester | - | - | - | - | - | - | - | - | 12 | - | - | - | 1 |
| Wheat/Grain Eqpmt Operator | - | - | 17 | 12 | 24 | 51 | 124 | 597 | 71 | 39 | 44 | 15 | 83 |
| Other Wheat/Grain Activity | 20 | 47 | 44 | 40 | 23 | 128 | 98 | 34 | 82 | 51 | 27 | 44 | 53 |
| Nursery Workers | 11 | 42 | 188 | 284 | 265 | 142 | 149 | 169 | 161 | 165 | 97 | 59 | 144 |
| Other Seasonal Workers | 47 | 44 | 67 | 121 | 178 | 189 | 233 | 200 | 100 | 148 | 27 | 12 | 114 |

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

Source: LMEA/ESD, Agricultural Labor Employment and Wage Trend Survey

| | Washington State | | | | | | | | | | | | |
|--------------------------|------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| State Totals | 11,931 | 15,305 | 19,896 | 24,621 | 23,027 | 53,881 | 63,479 | 42,328 | 54,112 | 47,985 | 13,929 | 11,623 | 31,843 |
| Apples, Total | 6,444 | 7,511 | 7,054 | 8,865 | 9,497 | 17,858 | 16,840 | 16,744 | 35,045 | 37,327 | 6,673 | 6,506 | 14,697 |
| Apple Pruning | 5,118 | 6,380 | 5,278 | 2,139 | 1,591 | 887 | 395 | 1,861 | 744 | 239 | 2,432 | 5,556 | 2,718 |
| Apple Thinning | 6 | 10 | 109 | 3,337 | 2,033 | 15,048 | 12,664 | 3,023 | - | - | 6 | 264 | 3,042 |
| Apple Harvester | - | - | - | - | - | - | 958 | 8,535 | 31,795 | 35,779 | 2,479 | - | 6,629 |
| Apple Sort, Grade, Pack | 591 | 402 | 164 | 21 | 265 | 196 | - | 353 | 1,671 | 414 | 228 | 427 | 394 |
| Other Apple Activities | 729 | 719 | 1,503 | 3,368 | 5,608 | 1,727 | 2,823 | 2,972 | 835 | 895 | 1,528 | 259 | 1,914 |
| Cherries, Total | 823 | 1,996 | 1,237 | 1,233 | 1,017 | 21,977 | 27,541 | 2,781 | 298 | 65 | 632 | 932 | 5,044 |
| Cherry Pruning | 812 | 1,895 | 864 | 41 | 446 | 330 | 159 | 635 | 235 | - | 541 | 927 | 574 |
| Cherry Harvester | - | - | - | - | 30 | 15,422 | 18,778 | 1,668 | - | - | - | - | 2,992 |
| Other Cherry Activities | 11 | 101 | 373 | 1,192 | 541 | 6,225 | 8,604 | 478 | 63 | 65 | 91 | 5 | 1,479 |
| Pears, Total | 571 | 700 | 938 | 693 | 34 | 420 | 446 | 2,729 | 3,952 | 612 | 867 | 274 | 1,020 |
| Pear Pruning | 360 | 662 | 886 | 516 | - | - | 93 | - | 42 | - | 265 | 236 | 255 |
| Pear Thinning | - | - | - | - | - | 362 | 181 | - | - | - | - | - | 45 |
| Pear Harvester | - | - | - | - | - | - | - | 2,089 | 2,774 | - | - | - | 405 |
| Other Pear Activities | 211 | 38 | 52 | 177 | 34 | 58 | 172 | 640 | 1,136 | 612 | 602 | 38 | 314 |
| Other Tree Fruit Workers | 27 | 403 | 965 | 1,784 | 193 | 569 | 3,523 | 6,432 | 2,959 | - | 7 | 204 | 1,422 |
| Grape Workers | 693 | 1,065 | 3,439 | 664 | 861 | 2,323 | 1,627 | 1,237 | 1,036 | 1,524 | 1,325 | 313 | 1,342 |
| Blueberry Workers | 131 | 225 | 115 | 148 | - | - | 366 | 1,437 | 947 | 541 | 242 | 420 | 381 |
| Raspberry Workers | 550 | 339 | 516 | 531 | 678 | 798 | 3,929 | 687 | 227 | 403 | 579 | 245 | 790 |
| Strawberry Workers | - | - | 29 | 201 | 128 | 1,644 | 557 | 36 | 7 | 16 | - | - | 218 |
| Bulb Workers* | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hop Workers | 44 | 57 | 397 | 780 | 607 | 288 | 273 | 130 | 1,131 | 207 | 118 | - | 336 |
| Nursery Workers | 480 | 625 | 1,772 | 1,567 | 1,352 | 1,019 | 1,019 | 1,189 | 563 | 423 | 742 | 833 | 965 |
| Wheat/Grain Workers | 99 | 70 | 139 | 87 | 166 | 146 | 439 | 630 | 190 | 160 | 112 | 45 | 190 |
| Asparagus Workers | - | 18 | 86 | 3,961 | 4,229 | 1,846 | 360 | 110 | 53 | 152 | - | - | 901 |
| Cucumber Workers | - | - | - | - | - | 48 | 163 | 242 | 150 | 40 | - | - | 54 |
| Onion Workers | 488 | 484 | 600 | 287 | 33 | 541 | 454 | 1,218 | 653 | 291 | 424 | 199 | 473 |
| Potato Workers | 775 | 757 | 993 | 983 | 497 | 596 | 930 | 2,002 | 2,481 | 3,164 | 1,011 | 1,025 | 1,268 |
| Misc Vegetable Workers | 171 | 227 | 410 | 628 | 1,301 | 1,068 | 1,881 | 2,260 | 1,807 | 1,504 | 216 | 80 | 963 |
| Other Seasonal Workers | 635 | 828 | 1,206 | 2,209 | 2,434 | 2,740 | 3,131 | 2,464 | 2,613 | 1,556 | 981 | 547 | 1,779 |

* The 2007 conversion from SIC to NAICS industry codes placed bulb growers into the nursery sector.

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

| Activity | Jan | Feb | Mar | Apr | May | Western Area 1 | | Aug | Sep | Oct | Nov | Dec | Avg |
|------------------------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | Jun | Jul | | | | | | |
| Total | 1,913 | 1,997 | 3,276 | 3,129 | 3,305 | 4,727 | 7,507 | 6,006 | 4,711 | 3,708 | 2,162 | 2,323 | 3,730 |
| Blueberry Workers | 131 | 225 | 115 | 148 | - | - | 366 | 1,437 | 947 | 541 | 242 | 420 | 381 |
| Raspberry Workers | 550 | 339 | 516 | 531 | 678 | 798 | 3,929 | 687 | 227 | 403 | 579 | 245 | 790 |
| Strawberry Workers | - | - | - | 19 | 128 | 1,644 | 557 | 36 | 7 | 16 | - | - | 201 |
| Bulb Workers | 52 | - | - | - | - | 16 | 104 | 47 | - | - | - | - | 20 |
| Cucumber Workers | - | - | - | - | - | 48 | 163 | 242 | 150 | 40 | - | - | 54 |
| Potato Workers | 581 | 528 | 596 | 498 | 365 | 329 | 185 | 863 | 1,232 | 1,397 | 904 | 910 | 699 |
| Misc Vegetable Workers | 97 | 82 | 229 | 367 | 411 | 440 | 745 | 1,192 | 1,143 | 695 | 156 | 75 | 469 |
| Nursery Workers | 415 | 588 | 1,579 | 1,335 | 1,140 | 946 | 787 | 700 | 410 | 180 | 109 | 649 | 737 |
| Rhubarb Workers | 18 | 82 | 72 | 46 | 226 | 83 | 67 | 35 | - | - | - | 5 | 53 |
| Other Seasonal Workers | 69 | 153 | 169 | 185 | 357 | 423 | 604 | 767 | 595 | 436 | 172 | 19 | 329 |

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

| Activity | South Central Area 2 | | | | | | | | | | | | Avg |
|-----------------------------|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
| Total | 3,282 | 4,501 | 5,724 | 7,638 | 7,608 | 19,202 | 18,012 | 11,537 | 16,015 | 12,903 | 4,123 | 2,697 | 9,437 |
| Apples, Total | 2,096 | 1,744 | 2,016 | 1,131 | 2,513 | 3,384 | 3,820 | 2,201 | 8,725 | 10,731 | 2,055 | 1,402 | 3,485 |
| Apple Pruning | 1,494 | 1,557 | 1,698 | 698 | 998 | 378 | - | 496 | 49 | 40 | 280 | 1,394 | 757 |
| Apple Thinning | - | - | - | - | - | 2,201 | 2,494 | 364 | - | - | - | - | 422 |
| Apple Harvester | - | - | - | - | - | - | 958 | 596 | 7,834 | 10,199 | 1,775 | - | 1,780 |
| Apple Sort, Grade, Pack | 196 | - | - | - | 248 | 168 | - | 340 | 742 | - | - | - | 141 |
| Other Apple Activities | 406 | 187 | 318 | 433 | 1,267 | 637 | 368 | 405 | 100 | 492 | - | 8 | 385 |
| Cherries, Total | 183 | 860 | 169 | 956 | 596 | 11,482 | 8,731 | 254 | 260 | - | 487 | 490 | 2,039 |
| Cherry Pruning | 178 | 860 | 161 | 7 | 430 | 59 | 122 | 231 | 235 | - | 487 | 490 | 272 |
| Cherry Harvester | - | - | - | - | - | 7,064 | 3,989 | - | - | - | - | - | 921 |
| Other Cherry Activity | 5 | - | 8 | 949 | 166 | 4,359 | 4,620 | 23 | 25 | - | - | - | 846 |
| Pears, Total | 360 | 437 | 570 | 633 | 23 | 346 | 111 | 1,925 | 2,248 | 22 | 368 | 236 | 607 |
| Pear Pruning | 360 | 437 | 562 | 501 | - | - | - | - | - | - | 265 | 236 | 197 |
| Pear Thinning | - | - | - | - | - | 346 | 111 | - | - | - | - | - | 38 |
| Pear Harvester | - | - | - | - | - | - | - | 1,752 | 2,223 | - | - | - | 331 |
| Other Pear Activities | - | - | 8 | 132 | 23 | - | - | 173 | 25 | 22 | 103 | - | 41 |
| Other Tree Fruit, Total | - | 286 | 855 | 1,642 | 103 | 375 | 2,508 | 4,584 | 1,594 | - | 7 | - | 996 |
| Other Tree Fruit Pruner | - | 286 | 839 | - | - | - | - | 97 | - | - | - | - | 102 |
| Other Tree Fruit Harvester | - | - | - | - | - | - | 2,104 | 4,487 | 1,458 | - | - | - | 671 |
| Other Tree Fruit Activities | - | - | 16 | 1,642 | 103 | 375 | 404 | - | 136 | - | 7 | - | 224 |
| Grapes, Total | 422 | 610 | 1,183 | 127 | 163 | 815 | 657 | 468 | 401 | 728 | 480 | 201 | 521 |
| Grape Pruning | 367 | 504 | 796 | 7 | 22 | 12 | 23 | - | - | - | 187 | 201 | 177 |
| Grape Harvester | - | - | - | - | - | - | - | - | 361 | 354 | 253 | - | 81 |
| Other Grape Activity | 55 | 106 | 387 | 120 | 141 | 803 | 634 | 468 | 40 | 374 | 40 | - | 264 |
| Asparagus Workers | - | 18 | 86 | 1,260 | 2,375 | 874 | 360 | 103 | 53 | 152 | - | - | 440 |
| Hops, Total | 44 | 57 | 278 | 503 | 371 | 288 | 273 | 130 | 854 | 144 | 67 | - | 251 |
| Hop Twining & Training | - | - | 162 | 125 | 207 | 93 | 65 | 26 | - | - | 67 | - | 62 |
| Hop Harvester | - | - | - | - | - | - | - | - | 701 | 130 | - | - | 76 |
| Other Hop Activity | 44 | 57 | 116 | 378 | 164 | 195 | 208 | 104 | 153 | 14 | - | - | 119 |
| Onion Workers | - | 18 | 164 | 19 | 18 | 205 | 42 | 290 | 234 | 50 | - | - | 87 |
| Potato Workers | - | - | - | - | - | - | 7 | 162 | 71 | - | - | - | 20 |
| Misc. Vegetable Workers | 54 | 53 | 24 | 155 | 256 | 397 | 613 | 423 | 544 | 499 | 60 | - | 257 |
| Other Seasonal Workers | 123 | 418 | 379 | 1,212 | 1,190 | 1,036 | 890 | 997 | 1,031 | 577 | 599 | 368 | 735 |

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

| Activity | North Central Area 3 | | | | | | | | | | | | |
|--------------------------|----------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| Total | 2,541 | 3,823 | 3,688 | 5,207 | 3,485 | 12,761 | 22,708 | 11,927 | 16,208 | 13,690 | 2,805 | 2,380 | 8,435 |
| Apples, Total | 2,168 | 3,212 | 2,737 | 4,946 | 3,318 | 5,917 | 5,726 | 8,894 | 14,626 | 13,009 | 2,281 | 2,236 | 5,756 |
| Apple Pruning | 1,507 | 2,409 | 1,834 | 646 | - | 82 | 93 | 453 | 42 | - | 1,197 | 1,636 | 825 |
| Apple Thinning | - | - | - | 3,320 | 378 | 5,208 | 3,974 | 949 | - | - | - | - | 1,152 |
| Apple Harvester | - | - | - | - | - | - | - | 5,692 | 13,302 | 12,326 | - | - | 2,610 |
| Apple Sort, Grade, Pack | 395 | 402 | 164 | 21 | 17 | 28 | - | 13 | 929 | 414 | 228 | 427 | 253 |
| Other Apple Activities | 266 | 401 | 739 | 959 | 2,923 | 599 | 1,659 | 1,787 | 353 | 269 | 856 | 173 | 915 |
| Cherries, Total | 244 | 375 | 599 | 192 | 110 | 6,608 | 16,714 | 2,473 | - | 56 | 25 | 144 | 2,295 |
| Cherry Pruning | 244 | 375 | 423 | 34 | - | 271 | - | 364 | - | - | 25 | 144 | 157 |
| Cherry Harvester | - | - | - | - | - | 4,610 | 12,843 | 1,668 | - | - | - | - | 1,593 |
| Other Cherry Activity | - | - | 176 | 158 | 110 | 1,727 | 3,871 | 441 | - | 56 | - | - | 545 |
| Pears, Total | 120 | 225 | 338 | 40 | 7 | 24 | 163 | 337 | 1,483 | 590 | 499 | - | 319 |
| Pear Pruning | - | 225 | 324 | 15 | - | - | 93 | - | 42 | - | - | - | 58 |
| Pear Thinning | - | - | - | - | - | 16 | 70 | - | - | - | - | - | 7 |
| Pear Harvester | - | - | - | - | - | - | - | 337 | 551 | - | - | - | 74 |
| Other Pear Activities | 120 | - | 14 | 25 | 7 | 8 | - | - | 890 | 590 | 499 | - | 179 |
| Other Tree Fruit Workers | - | - | 14 | - | 15 | - | - | 105 | 21 | - | - | - | 13 |
| Other Seasonal Workers | 9 | 11 | - | 29 | 35 | 212 | 105 | 118 | 78 | 35 | - | - | 53 |

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

| Activity | Columbia Basin Area 4 | | | | | | | | | | | | |
|--------------------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| Total | 2,003 | 2,314 | 2,755 | 3,339 | 3,312 | 6,595 | 7,299 | 6,229 | 9,084 | 9,163 | 2,833 | 1,897 | 4,735 |
| Apples, Total | 1,190 | 1,493 | 1,463 | 1,906 | 2,313 | 3,828 | 3,854 | 3,937 | 6,742 | 6,963 | 1,677 | 1,255 | 3,052 |
| Apple Pruning | 1,166 | 1,448 | 1,109 | 647 | 546 | 219 | 218 | 640 | 646 | - | 567 | 946 | 679 |
| Apple Thinning | 6 | 10 | 109 | - | 707 | 3,292 | 2,974 | 1,371 | - | - | - | 264 | 728 |
| Apple Harvester | - | - | - | - | - | - | - | 1,461 | 5,856 | 6,875 | 615 | - | 1,234 |
| Other Apple Activities | 18 | 35 | 245 | 1,259 | 1,060 | 317 | 662 | 465 | 240 | 88 | 495 | 45 | 411 |
| Cherries, Total | 116 | 224 | 380 | 56 | 204 | 1,883 | 1,675 | - | 30 | 9 | 91 | 113 | 398 |
| Cherry Pruning | 113 | 204 | 231 | - | - | - | - | - | - | - | - | 113 | 55 |
| Cherry Harvester | - | - | - | - | - | 1,810 | 1,617 | - | - | - | - | - | 286 |
| Other Cherry Activity | 3 | 20 | 149 | 56 | 204 | 73 | 58 | - | 30 | 9 | 91 | - | 58 |
| Pear Workers | 91 | 38 | 30 | 20 | 4 | 50 | 172 | 467 | 221 | - | - | 38 | 94 |
| Mint Workers | - | - | 14 | - | 4 | 29 | 48 | 40 | 30 | - | - | - | 14 |
| Other Tree Fruit Workers | 12 | 23 | 90 | 12 | - | 104 | 152 | 80 | 225 | - | - | 26 | 60 |
| Asparagus Workers | - | - | - | 194 | 140 | 172 | - | - | - | - | - | - | 42 |
| Onion Workers | 265 | 219 | 240 | 197 | 15 | - | - | - | 419 | 241 | 424 | 199 | 185 |
| Potatoes, Total | 194 | 206 | 285 | 385 | 93 | 171 | 564 | 789 | 1,048 | 1,666 | 94 | 115 | 468 |
| Potato Harvester | - | - | - | 5 | - | - | - | - | 17 | 71 | - | - | 8 |
| Potato Sort, Grade, Pack | 123 | 128 | 183 | 37 | - | 89 | 401 | 599 | 624 | 761 | 3 | 88 | 253 |
| Other Potato Activities | 71 | 78 | 102 | 343 | 93 | 82 | 163 | 190 | 407 | 834 | 91 | 27 | 207 |
| Misc Vegetable Workers | 2 | 3 | 5 | 9 | 194 | 41 | 249 | 379 | - | - | - | - | 74 |
| Wheat/Grain Workers | - | - | - | 9 | - | 8 | 3 | 85 | 6 | 22 | 15 | - | 13 |
| Nursery Workers | - | - | 25 | - | - | - | - | 323 | - | 127 | 502 | 147 | 94 |
| Other Seasonal Workers | 133 | 108 | 223 | 551 | 345 | 309 | 582 | 129 | 363 | 135 | 30 | 4 | 243 |

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

| Activity | South Eastern Area 5 | | | | | | | | | | | | |
|--------------------------|----------------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
| Total | 2,038 | 2,498 | 4,109 | 4,908 | 4,832 | 10,235 | 7,358 | 5,893 | 7,683 | 8,171 | 1,827 | 2,248 | 5,150 |
| Apples, Total | 990 | 1,062 | 838 | 882 | 1,353 | 4,729 | 3,440 | 1,712 | 4,952 | 6,624 | 660 | 1,613 | 2,405 |
| Apple Pruning | 951 | 966 | 637 | 148 | 47 | 208 | 84 | 272 | 7 | 199 | 388 | 1,580 | 457 |
| Apple Thinning | - | - | - | 17 | 948 | 4,347 | 3,222 | 339 | - | - | 6 | - | 740 |
| Apple Harvester | - | - | - | - | - | - | - | 786 | 4,803 | 6,379 | 89 | - | 1,005 |
| Other Apple Activities | 39 | 96 | 201 | 717 | 358 | 174 | 134 | 315 | 142 | 46 | 177 | 33 | 203 |
| Cherries, Total | 280 | 537 | 89 | 29 | 107 | 2,004 | 421 | 54 | 8 | - | 29 | 185 | 312 |
| Cherry Pruning | 277 | 456 | 49 | - | 16 | - | 37 | 40 | - | - | 29 | 180 | 90 |
| Cherry Harvester | - | - | - | - | 30 | 1,938 | 329 | - | - | - | - | - | 191 |
| Other Cherry Activity | 3 | 81 | 40 | 29 | 61 | 66 | 55 | 14 | 8 | - | - | 5 | 30 |
| Other Tree Fruit Workers | 15 | 94 | 6 | 130 | 75 | 90 | 863 | 1,663 | 1,119 | - | - | 178 | 353 |
| Grape Workers | 271 | 455 | 2,256 | 537 | 698 | 1,508 | 970 | 769 | 635 | 796 | 845 | 112 | 821 |
| Asparagus Workers | - | - | - | 2,507 | 1,714 | 800 | - | 7 | - | - | - | - | 419 |
| Hop Workers | - | - | 119 | 277 | 236 | - | - | - | 277 | 63 | 51 | - | 85 |
| Onion Workers | 223 | 247 | 196 | 71 | - | 336 | 412 | 928 | - | - | - | - | 201 |
| Potatoes, Total | - | 23 | 112 | 100 | 39 | 96 | 174 | 188 | 130 | 101 | 13 | - | 81 |
| Potato Harvester | - | - | - | - | - | - | 70 | 23 | 31 | 18 | - | - | 12 |
| Potato Sort, Grade, Pack | - | - | - | - | - | - | 35 | 26 | 11 | 55 | - | - | 12 |
| Other Potato Activities | - | 23 | 112 | 100 | 39 | 96 | 69 | 139 | 88 | 28 | 13 | - | 59 |
| Misc Vegetable Workers | - | 7 | 80 | 51 | 214 | 107 | 207 | 231 | 120 | 310 | - | - | 111 |
| Wheat/Grain Workers | 9 | 4 | - | 23 | 9 | 17 | 84 | 51 | 4 | 18 | 11 | 15 | 21 |
| Nursery Workers | - | - | - | - | - | - | - | - | - | - | 41 | - | 3 |
| Strawberry Workers | - | - | 29 | 182 | - | - | - | - | - | - | - | - | 18 |
| Other Seasonal Workers | 250 | 69 | 384 | 119 | 387 | 548 | 787 | 290 | 438 | 259 | 177 | 145 | 321 |

Appendix 4. Employment of Covered Seasonal Workers by Crop Activity in Washington, Statewide, and by Agricultural Reporting Areas, 2007

| Activity | Jan | Feb | Mar | Apr | May | Eastern Area 6 | | Aug | Sep | Oct | Nov | Dec | Avg |
|----------------------------|-----|-----|-----|-----|-----|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | Jun | Jul | | | | | | |
| Total | 154 | 172 | 344 | 400 | 485 | 361 | 595 | 736 | 411 | 350 | 179 | 78 | 355 |
| Wheat/Grain, Total | 90 | 66 | 137 | 55 | 155 | 121 | 352 | 494 | 180 | 120 | 86 | 30 | 157 |
| Wheat/Grain Harvester | - | - | - | - | - | - | - | 59 | 20 | - | - | - | 7 |
| Wheat/Grain Eqpmt Operator | - | 13 | 28 | 22 | 18 | 33 | 311 | 396 | 100 | 105 | 69 | - | 91 |
| Other Wheat/Grain Activity | 90 | 53 | 109 | 33 | 137 | 88 | 41 | 39 | 60 | 15 | 17 | 30 | 59 |
| Nursery Workers | 13 | 37 | 168 | 232 | 212 | 57 | 128 | 119 | 153 | 116 | 90 | 37 | 114 |
| Other Seasonal Workers | 51 | 69 | 39 | 113 | 118 | 183 | 115 | 123 | 78 | 114 | 3 | 11 | 85 |

Appendix 5. Total Agricultural Employment in Washington, Statewide, by PMSA, MSA, MD, LMA, and County, 2005 (Benchmark: March 2005) 1/ 2/

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| Washington | 61,540 | 70,920 | 78,660 | 82,100 | 87,260 | 132,230 | 127,830 | 109,900 | 119,880 | 114,480 | 70,420 | 63,020 | 93,190 |
| Bellingham MSA | 2,540 | 2,930 | 3,110 | 3,090 | 3,240 | 4,380 | 5,410 | 4,110 | 3,090 | 2,940 | 2,900 | 2,790 | 3,380 |
| Bremerton PMSA | 310 | 350 | 370 | 390 | 420 | 440 | 460 | 430 | 400 | 380 | 390 | 360 | 390 |
| Olympia PMSA | 1,290 | 1,330 | 1,400 | 1,500 | 1,580 | 1,710 | 1,860 | 1,750 | 1,710 | 1,550 | 1,440 | 1,410 | 1,540 |
| Richland-Kennewick-Pasco MSA | 5,760 | 7,260 | 7,970 | 10,000 | 11,400 | 21,700 | 12,110 | 12,090 | 14,050 | 13,400 | 7,220 | 6,010 | 10,750 |
| Seattle-Bellevue-Everett PMSA | 3,020 | 3,410 | 3,750 | 3,860 | 4,150 | 4,480 | 4,350 | 4,530 | 4,010 | 3,990 | 3,100 | 3,040 | 3,810 |
| Spokane MSA | 1,160 | 1,340 | 1,530 | 1,640 | 1,770 | 1,840 | 1,850 | 1,730 | 1,590 | 1,480 | 1,280 | 1,190 | 1,530 |
| Tacoma PMSA | 1,280 | 1,680 | 1,840 | 1,670 | 1,830 | 1,990 | 2,090 | 1,850 | 1,760 | 1,600 | 1,470 | 1,350 | 1,700 |
| Chelan-Douglas LMA | 8,010 | 9,480 | 10,260 | 9,640 | 9,920 | 18,140 | 21,770 | 14,170 | 18,360 | 16,060 | 8,650 | 8,310 | 12,730 |
| Yakima MSA | 15,480 | 17,260 | 18,910 | 19,270 | 20,910 | 34,460 | 29,390 | 27,310 | 31,710 | 29,430 | 15,970 | 14,720 | 22,900 |
| Adams | 1,260 | 1,440 | 1,780 | 1,880 | 2,000 | 2,550 | 2,980 | 2,560 | 2,910 | 3,260 | 1,620 | 1,410 | 2,140 |
| Asotin | 120 | 130 | 160 | 180 | 190 | 170 | 190 | 180 | 170 | 150 | 140 | 130 | 160 |
| Clallam | 930 | 1,020 | 1,130 | 1,170 | 1,250 | 1,310 | 1,410 | 1,340 | 1,190 | 1,140 | 1,140 | 1,020 | 1,170 |
| Clark | 960 | 1,060 | 1,160 | 1,190 | 1,310 | 1,570 | 1,510 | 1,330 | 1,240 | 1,090 | 980 | 1,080 | 1,210 |
| Columbia | 220 | 240 | 250 | 260 | 260 | 320 | 350 | 330 | 280 | 280 | 230 | 220 | 270 |
| Cowlitz | 410 | 450 | 520 | 630 | 620 | 910 | 860 | 860 | 560 | 560 | 520 | 480 | 610 |
| Ferry | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 140 | 130 | 110 | 100 | 100 | 120 |
| Garfield | 150 | 160 | 170 | 160 | 180 | 190 | 210 | 230 | 180 | 170 | 150 | 160 | 180 |
| Grant | 5,530 | 6,080 | 7,190 | 7,640 | 8,130 | 11,870 | 10,770 | 10,640 | 12,210 | 12,910 | 6,770 | 5,430 | 8,760 |
| Grays Harbor | 410 | 560 | 630 | 590 | 630 | 630 | 630 | 590 | 560 | 410 | 350 | 290 | 520 |
| Island | 260 | 290 | 330 | 350 | 370 | 390 | 430 | 390 | 350 | 330 | 290 | 280 | 340 |
| Jefferson | 100 | 110 | 120 | 130 | 140 | 160 | 170 | 150 | 140 | 120 | 120 | 110 | 130 |
| Kittitas | 720 | 850 | 1,230 | 1,450 | 1,080 | 1,230 | 1,240 | 1,110 | 1,200 | 1,400 | 690 | 610 | 1,070 |
| Klickitat | 1,000 | 1,210 | 1,270 | 1,350 | 1,330 | 2,120 | 2,080 | 1,480 | 1,750 | 1,870 | 1,440 | 1,040 | 1,490 |
| Lewis | 930 | 1,020 | 1,130 | 1,170 | 1,250 | 1,310 | 1,410 | 1,340 | 1,190 | 1,140 | 1,140 | 1,020 | 1,170 |
| Lincoln | 560 | 620 | 690 | 650 | 690 | 720 | 800 | 930 | 700 | 690 | 580 | 560 | 680 |
| Mason | 410 | 430 | 440 | 460 | 500 | 500 | 540 | 510 | 490 | 490 | 480 | 370 | 470 |
| Okanogan | 3,170 | 3,560 | 3,730 | 3,940 | 4,110 | 6,820 | 11,550 | 7,160 | 8,370 | 7,890 | 3,640 | 3,270 | 5,600 |
| Pacific | 280 | 300 | 330 | 350 | 370 | 390 | 410 | 370 | 330 | 350 | 310 | 280 | 340 |
| Pend Oreille | 90 | 110 | 120 | 130 | 140 | 150 | 150 | 140 | 130 | 120 | 110 | 110 | 130 |
| San Juan | 120 | 120 | 140 | 150 | 160 | 170 | 180 | 170 | 150 | 140 | 120 | 120 | 140 |
| Skagit | 2,260 | 2,700 | 2,850 | 2,990 | 3,010 | 3,670 | 4,440 | 4,560 | 4,200 | 3,680 | 2,670 | 2,580 | 3,300 |
| Skamania | 60 | 70 | 100 | 100 | 110 | 100 | 90 | 80 | 100 | 90 | 90 | 70 | 90 |
| Stevens | 550 | 640 | 740 | 810 | 860 | 900 | 910 | 840 | 790 | 700 | 610 | 560 | 740 |
| Wahkiakum | 50 | 50 | 60 | 60 | 70 | 70 | 70 | 70 | 60 | 50 | 50 | 50 | 60 |
| Walla Walla | 1,910 | 2,400 | 2,940 | 2,990 | 2,980 | 4,540 | 4,830 | 3,990 | 3,640 | 4,270 | 3,610 | 2,390 | 3,370 |
| Whitman | 840 | 910 | 1,030 | 1,010 | 1,070 | 1,140 | 1,250 | 1,450 | 1,100 | 1,050 | 920 | 860 | 1,050 |

1/ PMSA = Primary Metropolitan Statistical Area; MSA = Metropolitan Statistical Area; MD = Metropolitan Division; LMA = Labor Market Area.

2/ Total agricultural employment includes ES-QCEW unemployment insurance (UI) covered producers and their employees, plus non-covered employment not adjusted for multiple job holders.

Source: These data are synthesized from two sources. The first is the ES-QCEW, which is an enumeration of the total population of UI-covered agricultural producers and their employees. The second data source is from the National Agricultural Workers Survey (NAWS) for 2007 and earlier. The NAWS data are used to estimate the number of uncovered agricultural workers. It is a computed number and is not a population or sample statistic. Contact agency: Washington State Employment Security Department/Labor Market and Economic Analysis branch.

Appendix 6. Total Agricultural Employment in Washington, Statewide, by MSA, MD, and County 2006 (Benchmark: March 2006)

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
|------------------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| Washington | 63,940 | 72,000 | 77,860 | 81,910 | 86,580 | 123,820 | 139,160 | 112,150 | 118,550 | 112,630 | 70,850 | 63,530 | 93,580 |
| Bellingham MSA | 2,600 | 2,830 | 2,910 | 2,980 | 3,150 | 3,910 | 5,340 | 4,100 | 3,060 | 2,880 | 2,690 | 2,710 | 3,260 |
| Bremerton MSA | 320 | 350 | 380 | 400 | 420 | 450 | 440 | 410 | 380 | 380 | 380 | 350 | 390 |
| Olympia MSA | 1,290 | 1,350 | 1,400 | 1,500 | 1,660 | 1,700 | 1,750 | 1,650 | 1,590 | 1,500 | 1,370 | 1,440 | 1,520 |
| Richland-Kennewick-Pasco MSA | 6,280 | 7,540 | 8,340 | 10,170 | 12,330 | 18,140 | 14,330 | 11,420 | 14,030 | 12,260 | 7,280 | 5,970 | 10,680 |
| Seattle-Bellevue-Everett MSA | 2,950 | 3,250 | 3,550 | 3,780 | 3,980 | 4,380 | 4,440 | 4,250 | 3,760 | 3,980 | 3,000 | 3,040 | 3,700 |
| Spokane MSA | 1,120 | 1,300 | 1,480 | 1,630 | 1,770 | 1,770 | 1,810 | 1,760 | 1,560 | 1,430 | 1,240 | 1,140 | 1,500 |
| Tacoma MSA | 1,250 | 1,580 | 1,760 | 1,650 | 1,720 | 1,750 | 2,040 | 1,760 | 1,640 | 1,590 | 1,390 | 1,370 | 1,620 |
| Chelan-Douglas | 8,500 | 9,340 | 10,210 | 9,700 | 9,590 | 17,830 | 25,670 | 15,560 | 16,790 | 16,090 | 9,490 | 8,710 | 13,120 |
| Yakima MSA | 15,760 | 17,620 | 18,630 | 19,090 | 20,110 | 32,110 | 34,520 | 28,290 | 32,450 | 29,760 | 16,120 | 14,630 | 23,260 |
| Adams | 1,330 | 1,460 | 1,680 | 1,790 | 1,910 | 2,340 | 2,670 | 2,470 | 2,730 | 2,840 | 1,550 | 1,360 | 2,010 |
| Asotin | 130 | 140 | 170 | 180 | 200 | 190 | 230 | 190 | 180 | 150 | 140 | 140 | 170 |
| Clark | 920 | 1,080 | 1,110 | 1,140 | 1,240 | 1,630 | 1,520 | 1,320 | 1,200 | 1,070 | 950 | 1,000 | 1,180 |
| Clallam | 280 | 300 | 320 | 340 | 380 | 400 | 440 | 420 | 380 | 310 | 290 | 280 | 340 |
| Columbia | 230 | 250 | 260 | 250 | 270 | 320 | 350 | 350 | 330 | 260 | 240 | 240 | 280 |
| Cowlitz | 380 | 410 | 430 | 590 | 550 | 840 | 950 | 850 | 530 | 410 | 420 | 420 | 570 |
| Ferry | 100 | 110 | 120 | 130 | 140 | 150 | 150 | 140 | 130 | 110 | 100 | 100 | 120 |
| Garfield | 140 | 150 | 160 | 150 | 170 | 180 | 200 | 200 | 170 | 160 | 140 | 130 | 160 |
| Grant | 5,660 | 6,490 | 6,880 | 7,160 | 7,830 | 11,270 | 11,510 | 10,600 | 11,950 | 12,230 | 5,590 | 6,420 | 8,630 |
| Grays Harbor | 440 | 570 | 620 | 570 | 630 | 640 | 650 | 580 | 560 | 540 | 460 | 410 | 550 |
| Island | 270 | 300 | 330 | 330 | 340 | 390 | 360 | 360 | 340 | 300 | 260 | 280 | 320 |
| Jefferson | 110 | 120 | 140 | 140 | 160 | 170 | 180 | 150 | 140 | 120 | 120 | 110 | 140 |
| Kittitas | 750 | 850 | 960 | 1,480 | 1,060 | 1,140 | 1,350 | 1,240 | 1,250 | 1,370 | 780 | 610 | 1,070 |
| Klickitat | 1,040 | 1,240 | 1,380 | 1,240 | 1,350 | 2,330 | 2,160 | 1,890 | 1,970 | 1,680 | 1,110 | 1,040 | 1,540 |
| Lewis | 970 | 1,060 | 1,140 | 1,210 | 1,260 | 1,340 | 1,500 | 1,350 | 1,200 | 1,080 | 1,100 | 1,020 | 1,180 |
| Lincoln | 530 | 590 | 630 | 610 | 670 | 700 | 740 | 860 | 660 | 660 | 560 | 560 | 650 |
| Mason | 410 | 440 | 460 | 480 | 510 | 540 | 540 | 500 | 500 | 550 | 530 | 460 | 490 |
| Okanogan | 3,480 | 3,920 | 4,180 | 4,590 | 4,600 | 6,550 | 11,320 | 7,610 | 8,440 | 8,590 | 3,970 | 3,470 | 5,890 |
| Pacific | 310 | 340 | 350 | 380 | 410 | 420 | 430 | 400 | 370 | 320 | 280 | 280 | 360 |
| Pend Oreille | 90 | 110 | 120 | 130 | 140 | 150 | 150 | 140 | 140 | 110 | 100 | 100 | 120 |
| San Juan | 120 | 120 | 130 | 140 | 150 | 160 | 170 | 170 | 170 | 130 | 120 | 120 | 140 |
| Skagit | 2,370 | 2,660 | 2,980 | 2,960 | 2,910 | 3,360 | 4,040 | 4,410 | 4,210 | 3,560 | 2,570 | 2,550 | 3,220 |
| Skamania | 60 | 80 | 90 | 100 | 100 | 100 | 100 | 90 | 120 | 90 | 70 | 50 | 90 |
| Stevens | 560 | 630 | 730 | 810 | 860 | 890 | 940 | 870 | 810 | 680 | 610 | 560 | 750 |
| Wahkiakum | 50 | 50 | 60 | 60 | 70 | 70 | 70 | 70 | 60 | 50 | 50 | 50 | 60 |
| Walla Walla | 2,340 | 2,510 | 2,830 | 3,070 | 2,920 | 4,370 | 4,890 | 4,320 | 3,720 | 4,350 | 3,490 | 2,240 | 3,420 |
| Whitman | 820 | 870 | 970 | 970 | 1,050 | 1,120 | 1,200 | 1,390 | 1,060 | 1,000 | 900 | 850 | 1,020 |

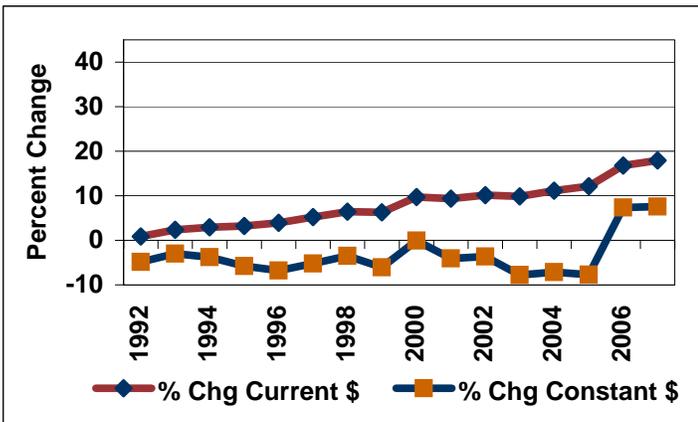
See Footnotes in Appendix 5

Appendix 7. Total Agricultural Employment in Washington, Statewide by MSA, MD, and County, 2007 (Benchmark: March 2007)

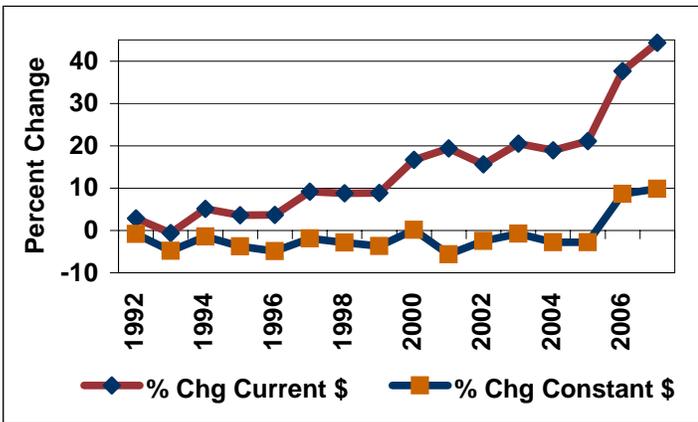
| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Avg |
|------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| Washington | 65,340 | 73,430 | 80,380 | 85,010 | 89,340 | 128,910 | 135,490 | 112,830 | 118,510 | 112,420 | 71,830 | 64,190 | 94,810 |
| Bellingham MSA | 2,520 | 2,750 | 2,870 | 3,030 | 3,200 | 3,710 | 5,300 | 3,910 | 3,070 | 2,780 | 2,510 | 2,430 | 3,170 |
| Bremerton MSA | 310 | 350 | 370 | 390 | 420 | 440 | 430 | 400 | 370 | 370 | 390 | 340 | 380 |
| Olympia MSA | 1,300 | 1,350 | 1,390 | 1,470 | 1,640 | 1,700 | 1,710 | 1,640 | 1,540 | 1,400 | 1,310 | 1,330 | 1,480 |
| Richland-Kennewick-Pasco MSA | 7,150 | 8,050 | 8,920 | 10,520 | 12,130 | 20,820 | 13,020 | 13,680 | 14,930 | 12,950 | 8,640 | 6,810 | 11,470 |
| Seattle-Bellevue-Everett MD | 2,790 | 3,110 | 3,430 | 3,680 | 3,950 | 4,150 | 4,380 | 3,980 | 3,730 | 3,790 | 3,060 | 2,910 | 3,580 |
| Spokane MSA | 1,110 | 1,280 | 1,490 | 1,630 | 1,750 | 1,780 | 1,830 | 1,720 | 1,550 | 1,410 | 1,230 | 1,150 | 1,490 |
| Tacoma MD | 1,280 | 1,410 | 1,770 | 1,570 | 1,660 | 1,730 | 1,880 | 1,620 | 1,510 | 1,410 | 1,230 | 1,270 | 1,530 |
| Chelan-Douglas | 8,430 | 9,720 | 10,180 | 9,950 | 9,790 | 18,550 | 25,180 | 15,470 | 16,820 | 15,140 | 8,600 | 7,820 | 12,970 |
| Yakima MSA | 16,590 | 18,670 | 19,990 | 20,570 | 21,960 | 32,640 | 32,680 | 28,220 | 31,700 | 30,430 | 17,090 | 16,210 | 23,900 |
| Adams | 1,080 | 1,210 | 1,490 | 1,810 | 1,780 | 2,270 | 2,350 | 2,120 | 2,340 | 2,950 | 1,730 | 1,510 | 1,890 |
| Asotin | 130 | 150 | 160 | 190 | 200 | 190 | 190 | 180 | 150 | 150 | 140 | 120 | 160 |
| Clark | 870 | 960 | 1,090 | 1,100 | 1,270 | 1,620 | 1,620 | 1,410 | 1,300 | 1,080 | 1,010 | 1,090 | 1,200 |
| Clallam | 270 | 290 | 310 | 350 | 380 | 430 | 460 | 410 | 360 | 310 | 290 | 280 | 340 |
| Columbia | 230 | 240 | 260 | 270 | 290 | 350 | 350 | 360 | 360 | 270 | 220 | 210 | 280 |
| Cowlitz | 370 | 390 | 420 | 590 | 570 | 860 | 930 | 790 | 540 | 440 | 410 | 400 | 560 |
| Ferry | 100 | 110 | 120 | 130 | 140 | 150 | 150 | 140 | 130 | 110 | 100 | 100 | 120 |
| Garfield | 130 | 150 | 160 | 160 | 180 | 190 | 210 | 220 | 170 | 160 | 140 | 130 | 170 |
| Grant | 6,060 | 7,050 | 7,760 | 8,370 | 8,640 | 12,210 | 12,060 | 11,400 | 12,590 | 12,830 | 7,540 | 5,490 | 9,330 |
| Grays Harbor | 440 | 510 | 550 | 530 | 580 | 610 | 600 | 560 | 520 | 500 | 430 | 410 | 520 |
| Island | 280 | 300 | 320 | 320 | 330 | 370 | 350 | 330 | 310 | 300 | 280 | 290 | 310 |
| Jefferson | 110 | 120 | 130 | 140 | 150 | 170 | 180 | 160 | 150 | 130 | 120 | 110 | 140 |
| Kittitas | 850 | 930 | 1,020 | 1,590 | 1,160 | 1,270 | 1,400 | 1,380 | 1,270 | 1,450 | 720 | 610 | 1,140 |
| Klickitat | 1,080 | 1,440 | 1,470 | 1,550 | 1,580 | 2,300 | 1,860 | 2,020 | 1,910 | 1,730 | 1,230 | 1,150 | 1,610 |
| Lewis | 910 | 1,010 | 1,110 | 1,170 | 1,250 | 1,300 | 1,400 | 1,330 | 1,220 | 1,090 | 1,070 | 960 | 1,150 |
| Lincoln | 540 | 590 | 640 | 620 | 670 | 720 | 750 | 870 | 710 | 610 | 540 | 530 | 650 |
| Mason | 450 | 470 | 490 | 500 | 510 | 530 | 560 | 540 | 500 | 520 | 530 | 500 | 510 |
| Okanogan | 3,180 | 3,530 | 4,050 | 4,210 | 4,240 | 6,750 | 11,370 | 6,840 | 8,110 | 8,030 | 3,580 | 3,280 | 5,600 |
| Pacific | 310 | 330 | 350 | 380 | 410 | 430 | 440 | 400 | 380 | 350 | 310 | 300 | 370 |
| Pend Oreille | 100 | 110 | 130 | 130 | 140 | 150 | 160 | 140 | 130 | 120 | 100 | 100 | 130 |
| San Juan | 120 | 130 | 150 | 150 | 160 | 180 | 180 | 170 | 150 | 130 | 120 | 120 | 150 |
| Skagit | 2,380 | 2,560 | 2,990 | 3,030 | 3,130 | 3,570 | 4,160 | 4,200 | 4,120 | 3,460 | 2,500 | 2,350 | 3,200 |
| Skamania | 70 | 80 | 100 | 90 | 100 | 100 | 110 | 100 | 110 | 110 | 110 | 70 | 90 |
| Stevens | 560 | 640 | 740 | 810 | 870 | 910 | 920 | 850 | 790 | 690 | 610 | 570 | 750 |
| Wahkiakum | 50 | 50 | 60 | 60 | 70 | 70 | 70 | 70 | 60 | 50 | 50 | 50 | 60 |
| Walla Walla | 2,420 | 2,500 | 2,930 | 3,000 | 3,010 | 4,640 | 5,080 | 3,890 | 3,820 | 4,210 | 3,000 | 2,320 | 3,400 |
| Whitman | 830 | 900 | 990 | 980 | 1,050 | 1,110 | 1,210 | 1,320 | 1,100 | 960 | 880 | 840 | 1,010 |

See Footnotes in Appendix 5

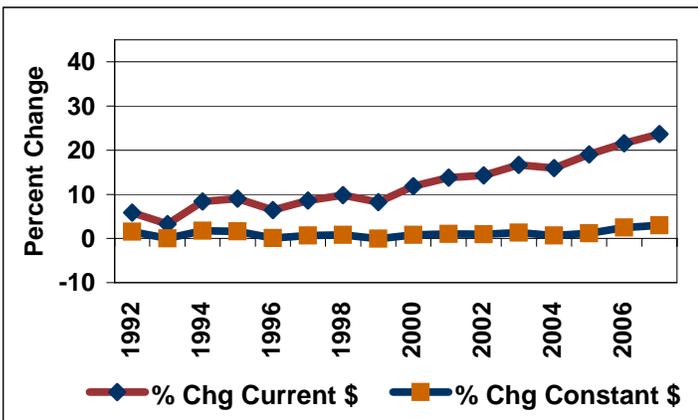
Appendix 8a. Percent Change in Average Hourly Wage Rates in Apples, Current and Constant Dollars, 2000 = 100, Washington State, 1992 to 2007, Third Quarter Data



Appendix 8b. Percent Change in Average Hourly Wage Rates in Cherries, Current and Constant Dollars, 2000 = 100, Washington State, 1992 to 2007, Third Quarter Data



Appendix 8c. Percent Change in Average Hourly Wage Rates in Pears, Current and Constant Dollars, 2000 = 100, Washington State, 1992 to 2007, Third Quarter Data



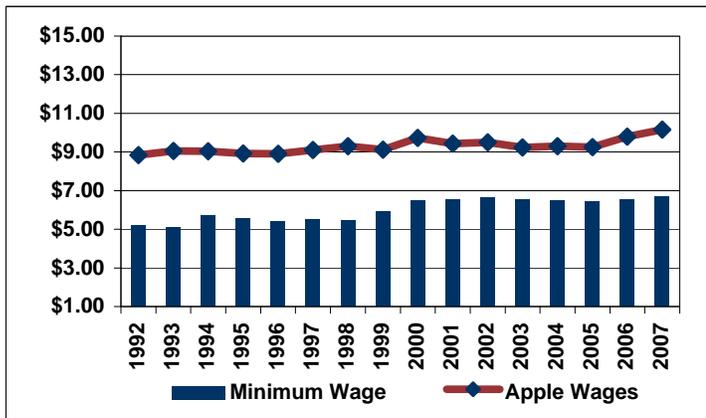
Source: ESD, UI Wage Records

Further Evidence of an Increase in Constant Dollar Agricultural Wage Rates

Constant Dollar Average Hourly Wage Rates for Tree Fruit

Due to inflation, growers commonly experience the necessity to increase current dollar wage rates in order to attract and keep workers. However, it is the increase in constant dollar wage rates that is a major concern to producers of all economic sectors. Figures 8a, 8b, and 8c show the historical trend in current dollar and constant dollar average hourly wage rates for cherries, apples, and pears, each measured during the peak demand period for the respective crop. Constant dollar average hourly wage rates are rising very slowly in the peak demand season for pears. For cherries, there was a sharp increase in the percentage change in constant dollar average hourly wage rates in 2006, followed by a small, but positive increase into 2007. The constant dollar average hourly wage rate in apples rose sharply in 2006 as a reaction to the rise in cherry wage rates that accompanied the extended cherry picking season that year. But constant dollar wage rates have risen only slightly during the peak demand season in 2007. The overall picture, though, is of some increase in the constant dollar average hourly wage rate.

Appendix 9a. Average Hourly Wage Rates, Apples, Compared to State Minimum Wage, Constant Dollars, 2000 = 100, Washington State, 2007, Fourth Quarter Data

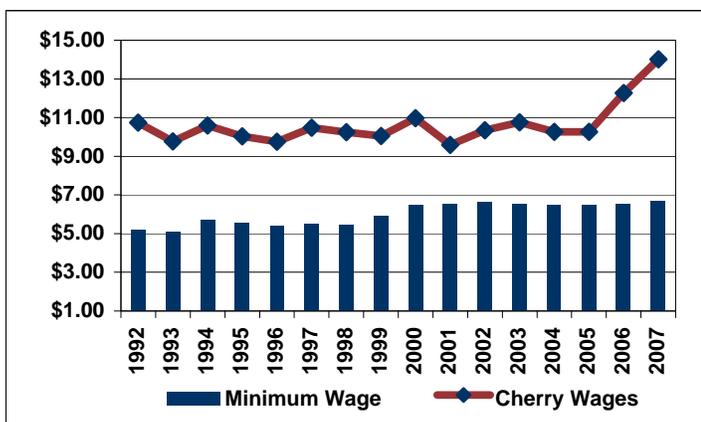


The State Minimum Wage and the Constant Dollar Wage

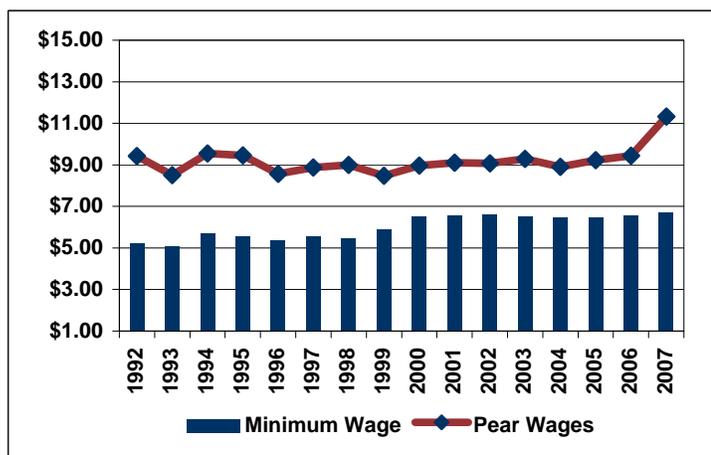
In 2006, 19.5 percent of all jobs were at or near the state minimum wage. This fell to 18.0 percent for 2007. *Constant dollar wage rates are moving up faster than the constant dollar state minimum wage rate.*

Figures 9a, 9b, and 9c display the constant dollar time trend in average hourly wage rates for apples, cherries, and pears relative to the state minimum wage rate. Constant dollar average hourly wage rates are rising faster for these three dominant tree fruit groups than is the state hourly minimum wage rate. In constant dollars (2000 = 100), the average hourly wage rate for apples stood at \$10.15 per hour, cherries at \$14.02, and pears at \$11.32. Of course, current dollar wage rates were even higher (see *2007 Agricultural Workforce in Washington State*).

Appendix 9b. Average Hourly Wage Rates, Cherries, Compared to State Minimum Wage, Constant Dollars, 2000 = 100, Washington State, 2007, Fourth Quarter Data



Appendix 9c. Average Hourly Wage Rates, Pears, Compared to State Minimum Wage, Constant Dollars, 2000 = 100, Washington State, 2007, Fourth Quarter Data



Source: ESD, UI Wage Records