

45-1011 First-Line Supervisors of Farming, Fishing, and Forestry Workers



Directly supervise and coordinate the activities of agricultural, forestry, aquacultural, and related workers. *Examples: Christmas Tree Farm Manager; Harvest Crew Supervisor; Fish Hatchery Supervisor*

Training Category: High School | < 5 yrs | none

2015 Average Wage:	\$ 24.78
2014 Estimated Employment:	106
2024 Projected Employment:	103
Growth Rate, 2014-2024:	-2.8%
Annual Openings:	3

Industry	2014 Share	2024 Share
113 Forestry and Logging	25.5%	27.2%
Self-Employed Workers	18.9%	18.5%
111 Crop Production	12.3%	12.6%
112 Animal Production	12.3%	12.6%
444 Building Material & Garden Supply Stores	n	n
713 Amusement, Gambling & Recreation Ind	n	n

45-2011 Agricultural Inspectors



Inspect agricultural commodities, processing equipment, and facilities, and fish and logging operations, to ensure compliance with regulations and laws governing health, quality, and safety.

Training Category: Bachelor | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Federal Government, ex. Postal Service	n	n
State Government, ex. Education and Hospitals	n	n

45-2021 Animal Breeders



Breed animals, including cattle, goats, horses, sheep, swine, poultry, dogs, cats, or pet birds. Select and breed animals according to their genealogy, characteristics, and offspring. May require a knowledge of artificial insemination techniques and equipment use. May involve keeping records on heats, birth intervals, or pedigree. Exclude Nonfarm Animal Caretakers (39-2021) who may occasionally breed animals as part of their other caretaking duties. Exclude Animal Scientists (19-1011) whose primary function is research.

Training Category: High School | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
112 Animal Production	n	n

45-2041 Graders and Sorters, Agricultural Products



Grade, sort, or classify unprocessed food and other agricultural products by size, weight, color, or condition. *Examples: Chicken Grader; Fruit Sorter*

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	26
2024 Projected Employment:	26
Growth Rate, 2014-2024:	0.0%
Annual Openings:	0

Industry	2014 Share	2024 Share
111 Crop Production	92.3%	92.3%
112 Animal Production	7.7%	7.7%

45-2091 Agricultural Equipment Operators



Drive and control farm equipment to till soil and to plant, cultivate, and harvest crops. May perform tasks, such as crop baling or hay bucking. May operate stationary equipment to perform post-harvest tasks, such as husking, shelling, threshing, and ginning. *Examples: Baler; Combine Operator; Tractor Driver*

Training Category: none | none | Short OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	56
2024 Projected Employment:	67
Growth Rate, 2014-2024:	19.6%
Annual Openings:	3

Industry	2014 Share	2024 Share
111 Crop Production	83.9%	85.1%
112 Animal Production	16.1%	14.9%

45-2092 Farmworkers and Laborers, Crop, Nursery, and Greenhouse



Manually plant, cultivate, and harvest vegetables, fruits, nuts, horticultural specialties, and field crops. Use hand tools, such as shovels, trowels, hoes, tampers, pruning hooks, shears, and knives. Duties may include tilling soil and applying fertilizers; transplanting, weeding, thinning, or pruning crops; applying pesticides; cleaning, grading, sorting, packing and loading harvested products. *Examples: Apple Picker; Tobacco Cutter; Vegetable Loader*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 13.15
2014 Estimated Employment:	684
2024 Projected Employment:	700
Growth Rate, 2014-2024:	2.3%
Annual Openings:	20

Industry	2014 Share	2024 Share
111 Crop Production	71.2%	71.6%
444 Building Material & Garden Supply Stores	10.7%	10.0%
424 Merchant Wholesalers, Nondurable Goods	4.7%	4.1%
112 Animal Production	2.6%	2.6%
5416 Management & Technical Consulting Svc	2.2%	2.6%
623 Nursing and Residential Care Facilities	n	n

45-2093 Farmworkers, Farm, Ranch, and Aquacultural Animals



Attend to live farm, ranch, or aquacultural animals that may include cattle, sheep, swine, goats, horses and other equines, poultry, finfish, shellfish, and bees. Attend to animals produced for animal products, such as meat, fur, skins, feathers, eggs, milk, and honey. *Examples: Horse Groomer; Beekeeper; Livestock Feeder*

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 12.80
2014 Estimated Employment:	459
2024 Projected Employment:	485
Growth Rate, 2014-2024:	5.7%
Annual Openings:	15

Industry	2014 Share	2024 Share
112 Animal Production	53.8%	52.2%
115 Agriculture & Forestry Support Activity	n	n
5419 Other Professional & Technical Services	n	n
6113 Colleges and Universities	n	n
713 Amusement, Gambling & Recreation Ind	n	n
721 Accommodation	n	n

45-2099 Agricultural Workers, All Other



All agricultural workers not listed separately.

Training Category: none | none | Short OJT

2015 Average Wage:	\$ 18.89
2014 Estimated Employment:	34
2024 Projected Employment:	33
Growth Rate, 2014-2024:	-2.9%
Annual Openings:	1

Industry	2014 Share	2024 Share
State Government, ex. Education and Hospitals	82.4%	81.8%
112 Animal Production	n	n
5417 Scientific Research and Development Svc	n	n

45-3011 Fishers and Related Fishing Workers



Use nets, fishing rods, traps, or other equipment to catch and gather fish or other aquatic animals from rivers, lakes, or oceans, for human consumption or other uses. May haul game onto ship. Include aquacultural laborers who work on fish farms with Agricultural Workers, All Other (45-2099).

Training Category: none | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
114 Fishing, Hinting, and Trapping	n	n

45-4011 Forest and Conservation Workers



Under supervision, perform manual labor necessary to develop, maintain, or protect forest, forested areas, and woodlands through such activities as raising and transporting tree seedlings; combating insects, pests, and diseases harmful to trees; and building erosion and water control structures and leaching of forest soil. Include forester aides, seedling pullers, and tree planters. *Examples: Christmas Tree Farm Worker; Seedling Puller; Forestry Laborer*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
State Government, ex. Education and Hospitals	n	n

45-4021 Fallers



Use axes or chainsaws to fell trees using knowledge of tree characteristics and cutting techniques to control direction of fall and minimize tree damage. *Examples: Lumberjack; Timber Cutter*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	n/a
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry	2014 Share	2024 Share
Self-Employed Workers	n	n
113 Forestry and Logging	n	n

45-4022 Logging Equipment Operators



Drive logging tractor or wheeled vehicle equipped with one or more accessories, such as bulldozer blade, frontal shear, grapple, logging arch, cable winches, hoisting rack, or crane boom, to fell tree; to skid, load, unload, or stack logs; or to pull stumps or clear brush. *Examples: Log Hauler; Logging Tractor Operator; Skidder Driver*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 17.02
2014 Estimated Employment:	291
2024 Projected Employment:	290
Growth Rate, 2014-2024:	-0.3%
Annual Openings:	7

Industry	2014 Share	2024 Share
113 Forestry and Logging	78.4%	79.7%
Self-Employed Workers	n	n
321 Wood Product Manufacturing	n	n

45-4023 Log Graders and Scalers



Grade logs or estimate the marketable content or value of logs or pulpwood in sorting yards, millpond, log deck, or similar locations. Inspect logs for defects or measure logs to determine volume. *Examples: Timber Estimator; Landing Scaler*

Training Category: High School | none | Moderate OJT

2015 Average Wage:	\$ 16.06
2014 Estimated Employment:	n
2024 Projected Employment:	n
Growth Rate, 2014-2024:	n
Annual Openings:	n

Industry		2014 Share	2024 Share
	Self-Employed Workers	n	n
321	Wood Product Manufacturing	n	n
423	Merchant Wholesalers, Durable Goods	n	n

47-1011 First-Line Supervisors of Construction Trades and Extraction Workers



Directly supervise and coordinate activities of construction or extraction workers. *Example: Cement Contractor*

Training Category: High School | 5+ years | none

2015 Average Wage:	\$ 29.33
2014 Estimated Employment:	2,467
2024 Projected Employment:	2,620
Growth Rate, 2014-2024:	6.2%
Annual Openings:	35

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	23.9%	24.1%
236	Construction of Buildings	23.4%	23.5%
	State Government, ex. Education and Hospitals	11.9%	11.8%
	Self-Employed Workers	11.5%	11.5%
237	Heavy and Civil Engineering Construction	10.1%	9.7%
	Local Government, ex. Education	9.3%	9.3%

47-2011 Boilermakers



Construct, assemble, maintain, and repair stationary steam boilers and boiler house auxiliaries. Align structures or plate sections to assemble boiler frame tanks or vats, following blueprints. *Examples: Boiler Installer; Boiler Mechanic; Pressure Tester*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 33.63
2014 Estimated Employment:	193
2024 Projected Employment:	210
Growth Rate, 2014-2024:	8.8%
Annual Openings:	5

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	95.9%	96.2%
5617	Services to Buildings and Dwellings	n	n
6111	Elementary and Secondary Schools	n	n
6113	Colleges and Universities	n	n

47-2021 Brickmasons and Blockmasons



Lay and bind building materials, such as brick, structural tile, concrete block, cinder block, glass block, and terra-cotta block, with mortar and other substances to construct or repair walls, partitions, arches, sewers, and other structures. *Examples: Adobe Layer; Chimney Builder; Furnace Liner*

Training Category: High School | none | Apprenticeship

2015 Average Wage:	\$ 23.14
2014 Estimated Employment:	364
2024 Projected Employment:	418
Growth Rate, 2014-2024:	14.8%
Annual Openings:	8

Industry		2014 Share	2024 Share
238	Specialty Trade Contractors	61.0%	63.6%
	Self-Employed Workers	22.8%	20.8%
5617	Services to Buildings and Dwellings	15.1%	14.4%
6111	Elementary and Secondary Schools	n	n
6113	Colleges and Universities	n	n