

Northwest agriculture, forestry, fisheries pack fiscal punch

Industries account for more than 10 percent of jobs

By CAROL RYAN DUMAS
Capital Press

A new university study finds the natural resources sector in the Northwest fuels more than \$176 billion in direct and related sales and accounts for nearly 886,000 full and part-time jobs.

The study, commissioned by Northwest Farm Credit Services and performed by extension economists at Oregon State University and the University of Idaho, found agriculture, forestry and fisheries account for 10.6 percent of all jobs in the five-state region and 12.2 percent of all sales in 2015.

“We knew intuitively how vital these industries are to the Northwest and wanted to quantify their contributions to the regional economy,” said Phil DiPofi, the president and CEO of Northwest Farm Credit Services.

“This study affirms the significant impact producers have on the financial strength of our region,” he said.

Agriculture is the front-runner in economic impact, claim-



Dan Wheat/Capital Press

Dust flies from a bale of alfalfa as it's picked up in Ben Schaapman's first-cutting south of Quincy, Wash., in May. A new university study finds the natural resources sector in the Northwest fuels more than \$176 billion in direct and related sales and accounts for nearly 886,000 full and part-time jobs.

ing about 70 percent of total sales and jobs within the region's natural resources sector with more than \$120.1 billion in direct and related sales and 621,518 jobs in 2015.

It also accounted for 8.3 percent of total sales in the region and 7.5 percent of all jobs, the economists found.

Forestry accounts for nearly 24 percent of sales in the natural resources sector and 21 percent of the jobs. Direct and related sales in the industry totaled nearly \$42 billion and provided 189,000 jobs in 2015.

In the entire regional economy, forestry provides 2.9 per-

cent of all sales and 2.3 percent of all jobs.

The fishing and seafood manufacturing industry is the smallest in the natural resources sector, representing about 8 percent of sales and jobs. With \$13.9 billion in sales and 75,416 jobs in 2015, it represented only 1 percent of total sales in the region and less than 1 percent of jobs.

Washington state and Oregon have the largest natural resources sector in the region and together contain about 65 percent of all economic activity

in that sector. Washington had 200,770 direct jobs in the sector with \$42.4 billion in direct sales in 2015. Oregon had 147,591 direct jobs in the sector with \$32.4 billion in direct sales.

The two states also have more related economic activity than the other states due to larger spillover benefits, as there are more businesses buying and selling and more people earning wages and income from the production, the economists found.

Idaho had 76,374 direct jobs in the natural resources sector

Economic contribution of Northwest agriculture, forestry and fisheries

(Direct, indirect and induced effects)

Area	Full-part-time jobs	Sales (\$ billions)
Wash.	303,321	\$58.8
Ore.	256,423	48.5
Idaho	143,611	31.8
Mont.	85,037	11.1
Alaska	64,034	8.9
Northwest*	885,951	176.1

*Northwest totals are larger than the sum of the states because they include economic linkages among states.

Source: Agriculture, Food, Forestry and Fishing in the Northwest U.S. — An Economic Overview, 2016

Capital Press graphic

with more than \$22.7 billion in sales in 2015. Montana had 63,360 direct jobs with more than \$8 billion in sales in 2015.

With similar employment levels, “total sales in Idaho are 2.8 times as large as sales in Montana, which indicates that the natural resources sector is less labor intensive and includes more high value production in Idaho than Montana,” the economists reported.

Alaska has the fewest sales and jobs in the sector, with about \$5.9 billion direct in sales and 45,036 direct jobs in 2015.

The study also found that 60 percent of all natural resource sales in the region are exported to other states or other countries, accounting for 15 percent of all exports from the region. Total sales exported ranged from a high of 89 percent of the seafood manufacturing sector to a low of 55 percent of agricultural farm gate production.

FIVE-DAY FORECAST FOR ASTORIA

AccuWeather.com

TONIGHT	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
55	65 / 54	69 / 53	67 / 55	65 / 56
Mostly cloudy with a shower in places	Mostly cloudy with a few showers	Partly sunny	Clouds and intervals of sunshine	Some sun with a shower in the area

ALMANAC

Astoria through Sunday.

Temperatures
 High/low 70°/56°
 Normal high/low 67°/53°
 Record high 93° in 1908
 Record low 44° in 1967

Precipitation
 Sunday 0.18"
 Month to date 1.02"
 Normal month to date 0.44"
 Year to date 40.24"
 Normal year to date 36.60"

SUN AND MOON

Sunset tonight 9:06 p.m.
 Sunrise Tuesday 5:36 a.m.
 Moonrise today 1:24 p.m.
 Moonset today 12:33 a.m.

First Full Last New
 July 11 July 19 July 26 Aug 2

UNDER THE SKY

Tonight's Sky: The moon is at first quarter (5:52 p.m.), at a right angle to the line between Earth and the sun.

Source: Jim Todd, OMS

TOMORROW'S TIDES

Astoria / Port Docks

Time	High	Time	Low
8:07 a.m.	5.8 ft.	2:14 a.m.	1.8 ft.
8:28 p.m.	7.6 ft.	1:55 p.m.	1.8 ft.

NATIONAL CITIES

City	Today	Tues.	W
Atlanta	88 73 t	89 74 pc	
Boston	76 64 pc	86 67 pc	
Chicago	90 73 s	88 72 t	
Denver	89 54 s	91 57 t	
Des Moines	93 73 pc	88 73 t	
Detroit	87 70 s	92 73 s	
El Paso	104 78 s	104 77 s	
Fairbanks	70 53 c	82 62 pc	
Honolulu	87 75 pc	88 75 pc	
Indianapolis	87 68 s	87 73 t	
Kansas City	92 72 s	90 70 t	
Las Vegas	102 78 s	104 79 s	
Los Angeles	81 64 pc	80 62 pc	
Memphis	90 76 t	93 77 t	
Miami	91 80 pc	92 80 pc	
Nashville	86 71 t	88 72 t	
New Orleans	92 79 t	92 80 t	
New York	82 68 s	85 72 s	
Oklahoma City	93 73 s	93 75 s	
Philadelphia	87 69 s	87 70 s	
St. Louis	92 75 s	93 78 t	
Salt Lake City	77 57 s	90 64 s	
San Francisco	71 55 s	71 54 pc	
Seattle	71 56 c	70 54 sh	
Washington, DC	87 71 s	87 74 s	

REGIONAL WEATHER

Shown is tomorrow's weather. Temperatures are tonight's lows and tomorrow's highs.

Forecasts and graphics provided by AccuWeather, Inc. ©2016

REGIONAL CITIES

City	Today	Tues.	W	City	Today	Tues.	W
Baker City	72 42 pc	71 39 t		Olympia	70 52 c	67 49 sh	
Bend	74 46 pc	71 42 s		Pendleton	79 55 pc	78 53 pc	
Brookings	63 51 s	64 52 pc		Portland	75 59 c	71 56 sh	
Eugene	77 51 c	74 48 sh		Roseburg	79 54 pc	77 54 c	
Ilwaco	64 54 c	63 53 sh		Salem	76 55 c	72 52 sh	
Klamath Falls	75 42 s	75 40 s		Seaside	65 54 c	64 54 sh	
Medford	83 56 s	82 54 s		Spokane	74 52 pc	75 53 pc	
Newberg	74 54 c	70 51 sh		Springfield	77 51 c	75 50 sh	
Newport	63 52 c	63 50 sh		Vancouver	73 58 c	69 53 sh	
North Bend	67 54 c	66 52 sh		Yakima	83 56 pc	82 53 pc	

TOMORROW'S NATIONAL WEATHER

Shown are noon positions of weather systems and precipitation. Temperature bands are highs for the day.

Weather (W): s-sunny, pc-partly cloudy, c-cloudy, sh-showers, t-thunderstorms, r-rain, sf-snow flurries, sn-snow, l-ice.

Oregonian who helped push nation's first bottle bill dies

Associated Press

PORTLAND — Don Waggoner, who helped create the nation's first “bottle bill,” has died at the age of 81.

The Oregonian/OregonLive reported Waggoner died at home on June 19.

Waggoner graduated from Stanford University with bachelor and master's degrees in industrial engineering.

In the 1970s, Waggoner was an environmental activist with the Oregon Environmental Council, and was one of the people who spearheaded the Oregon Bottle Bill.

That law was passed in 1971 and requires deposits to be paid on beverages in recyclable bottles, cans and other containers. Oregon's bottle bill was the first in the United States. Ten states now have similar laws.

DEATHS

July 8, 2016

CHRISTIANS, Margaret C., 54, of Seaside, died in Seaside. Hughes-Ransom Mortuary & Crematory in Seaside is in charge of the arrangements. Go to www.hughes-ransom.com to share memories and sign the guest book.

July 9, 2016

WINLUND, Sandra “Sandie,” 69, of Astoria, died in Seaside. Ocean View Funeral & Cremation Service of Astoria is in charge of the arrangements.

PUBLIC MEETINGS

MONDAY

Cannon Beach Rural Fire Protection District, 6 p.m., Fire-Rescue Main Station, 188 Sunset Ave.
Youngs River Lewis & Clark Water District Board, 6 p.m., regular meeting and executive session, 34583 U.S. Highway 101 Business.
Seaside City Council, 7 p.m., City Hall, 989 Broadway.

TUESDAY

Cannon Beach City Council, 5:30 p.m., work session, City Hall, 163 E. Gower St.
Warrenton City Commission, 6 p.m., City Hall, 225 S. Main Ave.
Clatsop Community College Board, 6:30 p.m., Columbia Hall Room 219, 1651 Lexington Ave., Astoria.
Lewis & Clark Fire Department Board, 7 p.m., main fire station, 34571 Highway 101 Business.

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The Daily Astorian publishes paid obituaries. The obituary can include a small photo and, for veterans, a flag symbol at no charge. The deadline for all obituaries is 9 a.m. the business day prior.

Obituaries may be edited for spelling, proper punctuation and style. Death notices and upcoming services will be published at no charge. Notices must be submitted by 9 a.m. the day of publication.

Obituaries and notices may be submitted online at www.dailyastorian.com/forms/obits, by email at ewilson@dailyastorian.com, placed via the funeral home or in person at The Daily Astorian office, 949 Exchange St. in Astoria. For more information, call 503-325-3211, ext. 257.

CANNABIS STRAIN REVIEW

UpState

Strain: Indica Hybrid

Strain Highlights:

- Earthy aroma
- Relaxing
- Euphoric

Customers stated benefits for:

- Severe Pain
- Nausea
- General Relief

THC: 31.53%
 CBD: 21%
 Lineage: Unknown

Mr. Nice

Strain: Indica Hybrid

Strain Highlights:

- Sweet
- Earthy
- Pungent
- Relaxing
- Happy
- Strong Mellow Euphoria

Customers stated benefits for:

- Severe Pain
- Stress
- Insomnia
- Headaches

THC: 33.5%
 CBD: .94%
 Lineage: G13 & Hash Plant

TESTED BY: Confidence Analytics

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