Oregon Department of Environmental Quality



Drinking Water Assessment for the South Santiam Agricultural Water Quality Management Area July 2023

Overview

- Public drinking water systems in the South Santiam Agricultural Water Quality Management Area (Ag WQMA) utilize groundwater and surface water sources to serve approximately 194,244 persons regularly.
- 21 public water systems have recent alerts (within the past ten years) for *E. coli* bacteria, 11 of these exceed the maximum contaminant level (MCL).
- 92 public water systems have recent alerts for Total Coliform bacteria.
- 18 public water systems have recent alerts for elevated nitrate concentrations.
- 160 of 712 private domestic wells sample results in the area have elevated (≥ 3 mg/L) nitrate concentrations.
- This management area includes the Southern Willamette Valley Groundwater Management Area (GWMA).
- Department of Environmental Quality (DEQ) recommends Oregon Department of Agriculture (ODA) work with the appropriate Soil and Water Conservation Districts (SWCDs) to implement best management practices (BMPs) in and around the GWMA and areas with high nitrate leaching potential.
- Several public water systems in the Ag WQMA have been rated by Oregon Health Authority (OHA) as having medium to high contaminant susceptibility.
- Contaminants in water supplies potentially related to agriculture occur near human populations, agricultural land uses, and aguifers susceptible to contaminant infiltration.
- DEQ recommends public water systems utilize <u>Source Water Protection Practices</u> to prevent potential contamination and increase resiliency.
- Resources for addressing risks to drinking water supplies can be found in the <u>Groundwater Resource</u>
 <u>Guide</u> and <u>Surface Water Resource Guide</u>.

Water Use

176 public water systems obtain domestic drinking water from groundwater and surface water sources in the South Santiam Agricultural Water Quality Management Area (Ag GWMA). Drinking water is an important beneficial use under the federal Clean Water Act (CWA). When CWA standards are met in source waters, a drinking water treatment plant using standard technology can generate water meeting maximum contaminant levels (MCLs) recognized in the Safe Drinking Water Act (SDWA). **Map 1** demonstrates the drinking water source areas of the public water systems within the South Santiam Ag WQMA. A drinking water source area is defined as the area of land which contributes water to the drinking water supply and where potential contamination from human activities or natural sources may pose a threat to the water quality.





There are 41 Community public water systems in the Ag WQMA area using groundwater or/and surface water wells to serve approximately 175,166 people on a regular basis, in addition to visitors at recreation sites. There are 40 Non-Transient, Non-Community workplace or school public water systems using groundwater, serving 7,480 persons regularly. The remaining 95 public water systems are Transient Non-Community systems and Non-Public (also called Oregon Very Small systems or OVS), state-regulated systems with an estimated service population of 11,598. See **Table 1** below for a list of public water systems, their classifications, sources and activity status, and populations served.

Though the public water systems for the City of Corvallis and Cascade Pacific Pulp are outside the Ag WQMA, portions of their drinking water source areas are included within the South Santiam Ag WQMA. Thus, the population of Corvallis and Cascade Pacific Pulp are included in the total population presented in this report.

Bacteria

There are 21 public water systems in the Ag WQMA which have recent alerts (last 10 years) for detections of *E. coli* bacteria. There are recent MCL violations at Agape Family Fellowship, Bridge Open Bible Church, Camp Attitude, Central Electrical Training Center, Corvallis Market, Foster Lake Market, Halsey Shell, Shorewood Estates, Whispering Pines Mobile Lodge, City of Sweet Home, and Wilsonville. 92 public water systems have recent alerts for Total Coliform and no violations.

Nitrates

Nitrate alerts are generated when nitrate levels exceed 5 mg/L. There are 18 public water systems which have recent nitrate alerts. None of the public water systems have recent MCL violations. The drinking water MCL for nitrates is 10 mg/L.

Of the soils assessed in the management area, most have high or moderately high nitrate leaching potential, according to the National Cooperative Soil Survey, based on slope, precipitation, and land use (See **Map 2**). Agricultural land uses (e.g. annual ryegrass, wheat, dairy products, perennial ryegrass, Christmas trees, tree fruit, sheep, etc.) are present near many of the public water system wells in the area (see **Maps 3 and 4**). Nitrate from fertilizers and septic systems can readily penetrate to the aquifers used for drinking water when leaching potential is high, and bacteria removal through soil filtration can be less effective in sandy soils.

The GWMA is partially included in the South Santiam Ag WQMA. The GWMA is an area that experiences elevated nitrate levels in groundwater. Concerned stakeholders have been working for years to reduce nitrate levels. See the DEQ website for more information: <u>Groundwater Management Areas</u>.

DEQ recommends ODA and the SWCDs include a task in the area plan to coordinate with ongoing GWMA efforts and further evaluate agricultural land uses in and around the GWMA as there are recent elevated levels of nitrate in public drinking water in the GWMA area. Implementation of best management practices in these areas may reduce the potential for agricultural sources to impact these groundwater sources of drinking water. In particular, improved fertilizer use practices (e.g. timing adjustments and use of multiple, smaller applications) and planting of nitrogen-scavenging cover crops can be analyzed for current implementation rates and bolstered as needed to reduce nitrate movement into aquifers used for drinking water. In addition, any surface water-related best management practices implemented within the management area (such as livestock exclusion from surface water and off-channel watering) will likely benefit water quality.

Oregon Health Authority (OHA) rated some of the public water system wells in the Ag WQMA for contaminant susceptibility for land use impacts to drinking water sources based on Source Water Assessments, aquifer characteristics, and well locations and construction. The majority of evaluated PWS wells rate as high or medium susceptibility. The nitrate and other contamination issues described above and the ready movement of

nitrogen into aquifers in the area verify this susceptibility. Measures to reduce leachable nitrate in soils would reduce risk to groundwater sources of drinking water.

DEQ specifically addresses drinking water issues identified for public water systems. A query of Oregon Water Resources' water rights database for private domestic points of diversion (using a threshold of 0.005 cubic feet per second for domestic surface water rights that are household use only, not irrigation) identified 42 private domestic water rights in the Ag WQMA. There are also numerous private groundwater wells for domestic use throughout the Ag WQMA. The Domestic Well Testing Act database includes real estate transaction testing data from 1989-2019. These data indicate 160 results are ≥ 3 mg/L, 95 results are ≥ 5 mg/L, 52 results are ≥ 7 mg/L, and 15 are ≥ 10 mg/L out of 712 total results included in the database.

Other

There are recent alerts (2014, 2015) for Dibromochloropropane (DBCP) at Nutrien Ag Solutions. DBCP was used as a soil fumigant in the control of nematodes. Other contaminants found that are likely not related to agriculture include a Di(2-ethylehexyl)-Phthalate, at the City of Wilsonville, which is an industrial byproduct and common ingredient in plastics and PVC. Other alerts were reported for arsenic, lead, copper, sodium, total haloacetic acids (HAA5), and total trihalomethanes (TTHM) at several PWS. HAA5 and TTHM are disinfection byproducts that form when chlorine compounds that are used to disinfect water react with other naturally occurring chemicals in the water.

Contact

For more information, please contact the <u>Drinking Water Protection Program</u> or send an email to <u>drinkingwater.protection@deg.oregon.gov</u>.

Non-discrimination statement

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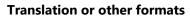


Table 1. Public Water Systems in the South Santiam Ag WQMA

Note: This table does not include public water systems which purchase drinking water from these water systems but does include the population served by wholesale customers in the Total Population. **Bold** text indicates PWSs with recent *E. coli* alerts.

PWS ID	Public Water System Name	Drinking Water Source	System Type	Population
	<u>Groundwater Sources</u>			
4190573	Agape Family Fellowship	1 well	NC	65
4193975	Albany 7th Day Adventist Church	INACTIVE (1 well)	NC	100
4195286	Albany Mennonite Church	1 well	NC	80
4195419	Albany Rifle & Pistol Club	1 well	NC	50
4105100	Albany Supercross	1 well	NC	150
4100004	Albany Trailer Court	1 well	С	130
4100013	Amigo Villa Water Service Inc	1 well	С	100
4195223	Arco Am/Pm #5897	1 well	NC	400
4191993	Arrow Preschool	INACTIVE (1 well)	OVS	22
4195566	Barenburg Water System	1 well	NTNC	100
4194430	Bear Mountain Forest Products	1 well	OVS	18
4194868	Betaseed, Inc.	1 well	NTNC	30
4190637	BLM Yellow Bottom Rec Site	INACTIVE (1 well)	NC	32
4194790	Blue Ox RV Park	INACTIVE (1 well)	NC	100
4195164	Bridge Open Bible Church	1 well	NC	25
4195282	C & R Mini Mart	INACTIVE (1 well)	NC	100
4100027	Camelot Mobile Home Park	3 wells	С	150
4195229	Camp Attitude	1 well	NC	120
4105156	Camp Koinonia	1 well	NC	30
4105147	Camp Morrison BSA	INACTIVE (1 well)	NC	40
4193987	Camp Tadmor	2 wells	NC	300
4191660	Cascades Elementary SD #16	1 well	NTNC	388
4100477	Cascadia Mobile Park	1 well	С	60
4193986	Cedar Shack Drive-In	1 well	NC	50
4194322	Cenex Harvest States	1 well	NTNC	80
4195183	Central Electrical Training Center	1 well	NC	30
4193968	Central Valley Christian School	1 well	NTNC	55
4194755	Centurylink Albany	INACTIVE (1 well)	OVS	6
4195023	Circle K #9640	1 well	NC	50
4100152	City of Brownsville	4 active and GU	С	1720
4100200	City of Coburg	2 wells	С	1,195
4100364	City of Halsey	2 wells	С	800
4100366	City of Harrisburg	5 well	С	3,650
4100795	City of Scio	2 wells: 1 active, 1 inactive emergency	С	900
4101231	City of Sodaville	5 wells: 4 active, 1 inactive emergency and SWP	С	310
4191663	Clover Ridge Elementary, SD 8J	1 well	NTNC	305
4100201	Coburg/Pioneer Valley Estates	INACTIVE (1 well)	С	125
4100232	Colorado Lake Coop	1 well	С	80
4194523	Corvallis Market	1 well	NC	200
4194477	Corvallis-Albany KOA	1 well	NC	75
4194733	Cottonwoods Market	1 well	NC	100
4101403	Country View Estates Water System	4 active wells and 1 inactive emergency well	С	104

4191666	Crabtree Tavern	INACTIVE (1 well)	NC	50
4191667	Crawfordsville Elem SD #55	2 wells: 1 active, 1 inactive emergency	NTNC	30
4194725	Crawfordsville Market	1 well	NC	150
4195239	Crowfoot Market	1 well	NC	80
4191697	D&Ds Diner and BBQ	INACTIVE (1 well)	NC	100
4191717	Diamond Hill RV Park	2 wells: 1 active, 1 inactive emergency	NTNC	203
4194917	East Linn Chr Acad Victory	1 well	NTNC	380
4195048	East Pearl Street Shell	INACTIVE (1 well)	NC	100
4194865	Eastgate Center	1 well	NTNC	200
4100014	Eden Park Homeowners	1 well	С	60
4194942	Eugene Premier RV Resort	3 wells: 2 active, 1 inactive emergency	NC	200
4191685	EZ Trip #1232	1 well	NC	625
4194578	Fairview Mennonite Church	1 well	NC	43
4100472	Fir Grove Mobile Court	2 wells	С	114
4195344	First Baptist Church of Brownsville	1 well	NC	45
4194711	Forest River Harrisburg	1 well	NTNC	120
4195527	Foster Lake Market	1 well	NC	250
4195368	Geary St Market	INACTIVE (1 well)	NC	50
4190561	Grand Prairie	1 well	OVS	15
4100024	Grand Prairie Water Supply Co	1 well	С	110
4193971	Green Acres Elementary SD #16	1 well	NTNC	350
4100852	Green Tree Mobile Home Park	INACTIVE (1 well)	С	30
4100852 4100025		INACTIVE (1 well) 2 wells: 1 active, 1 inactive	C C	30 78
	Green Tree Mobile Home Park Hafez Water System	INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency		
		2 wells: 1 active, 1 inactive		
4100025	Hafez Water System	2 wells: 1 active, 1 inactive emergency	С	78
4100025 4100475	Hafez Water System Halcyon Villa Mobile Home Park	2 wells: 1 active, 1 inactive emergency 2 wells	C	78 79
4100025 4100475 4193979	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell	2 wells: 1 active, 1 inactive emergency 2 wells 1 well	C C NC	78 79 600
4100025 4100475 4193979 4190571	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well	C C NC NTNC	78 79 600 360
4100025 4100475 4193979 4190571 4100810	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well	C C NC NTNC C	78 79 600 360 31
4100025 4100475 4193979 4190571 4100810 4190568	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well)	C C NC NTNC C NTNC	78 79 600 360 31 68
4100025 4100475 4193979 4190571 4100810 4190568 4194469	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well)	C C NC NTNC C NTNC NTNC NTNC	78 79 600 360 31 68 50
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive	C C NC NTNC C NTNC NTNC NC NC	78 79 600 360 31 68 50 200
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency	C C NC NTNC C NTNC NC NC NC NTNC	78 79 600 360 31 68 50 200 150
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NC NC NTNC	78 79 600 360 31 68 50 200 150
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well 1 well	C C NC NTNC C NTNC NC NC NC NTNC NC NTNC	78 79 600 360 31 68 50 200 150 60
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4190887	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well 1 well 1 well 1 well	C C NC NTNC C NTNC NC NC NC NTNC NC NTNC NTNC NC NTNC NC NTNC NC NTNC	78 79 600 360 31 68 50 200 150 60 60 150
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4190887 4191681	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well 1 well 1 well 1 well 1 well 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC NC NTNC NC NTNC NTNC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4190887 4191681 4194811	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC NC NTNC NTNC NTNC NTNC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75 100
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4190887 4191681 4194811 4194328	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC NC NTNC NTNC NTNC NTNC NTNC NTNC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4190887 4191681 4194811 4194328 4191687	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent Lacomb Elementary SD #73	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60 320
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4191681 4194811 4194328 4191687 4195194	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent Lacomb Elementary SD #73 Lacomb Grocery Store	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60 320 100
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4191673 4191681 4194811 4194328 4191687 4195194 4195493	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent Lacomb Elementary SD #73 Lacomb Grocery Store Lacomb Station	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60 320 100 25
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4191681 4194811 4194828 4191687 4195493 4101429 4100474	Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent Lacomb Elementary SD #73 Lacomb Grocery Store Lacomb Station Lake Creek Ranch Mobile Home Community	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well 2 wells: 1 well 1 well 2 wells: 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60 320 100 25 300
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4191681 4194811 4194328 4191687 4195194 4195493 4100474 4105105	Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent Lacomb Elementary SD #73 Lacomb Grocery Store Lacomb Station Lake Creek Ranch Mobile Home Community Lawrence Subdivision Water Assn Lebanon Auction Yard	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well 2 wells: 1 active, 1 inactive emergency 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NTNC NTNC NTNC NTNC NTNC NTNC NTNC NTNC C NTNC N	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60 320 100 25 300 125 150
4100025 4100475 4193979 4190571 4100810 4190568 4194469 4191661 4193746 4191673 4191673 4191681 4194811 4194828 4191687 4195493 4101429 4100474	Hafez Water System Halcyon Villa Mobile Home Park Halsey Shell Hamilton Creek School, SD #33 Harmony Acres Mobile Park Harris Private School Hillside Grill Hilltop Market Holley Elementary SD #55 House of Glory Lebanon House of Glory Lebanon Kidco Head Start-Riverside Kidco Head Start-Sunnyside Knife River - NW Harrisburg Knife River - NW Tangent Lacomb Elementary SD #73 Lacomb Grocery Store Lacomb Station Lake Creek Ranch Mobile Home Community Lawrence Subdivision Water Assn	2 wells: 1 active, 1 inactive emergency 2 wells 1 well 1 well 1 well INACTIVE (1 well) INACTIVE (1 well) 2 wells: 1 active, 1 inactive emergency 1 well 2 wells: 1 well 1 well 2 wells: 1 well	C C NC NTNC C NTNC NC NC NTNC NC NTNC NC NTNC NTNC NTNC NTNC NTNC NTNC C C C	78 79 600 360 31 68 50 200 150 60 60 150 75 100 60 320 100 25 300 125





4195287	Linn Co Parks - Riverbend CG	1 well	NC	425
4191708	Linn Co Parks - Roaring River Park	1 well	NC	300
4191715	Linn Co Parks - Sunnyside/Lewis Cr	1 well	NC	500
4191723	Linn Co Parks - Waterloo	INACTIVE (1 well)	NC	200
4194916	Linn Co Parks - Waterloo RV Park	INACTIVE (1 well)	NC	183
4191725	Linn Co Parks - Whitcomb Creek Park	1 well	NC	30
4195287	Linn Co Pks-Riverbend Cg	1 well	NC	425
4101470	Lone Oak Estates	2 wells	С	258
4191693	Lourdes Public Charter School	1 well	NTNC	49
4191694	Lumber Tavern	INACTIVE (1 well)	NC	25
4105606	M & M #14	1 well	NC	200
4195102	Mallard Creek Golf Course	1 well	NC	100
4194394	Mid Willamette Precut Inc	INACTIVE (1 well)	NTNC	60
4194649	Midway Grocery	1 well	NC	75
4190480	Moose Lodge #1866	INACTIVE (1 well)	NC	25
4191690	Motor Vu Drive-In	INACTIVE (1 well)	NC	150
4194345	Nutrien Ag Solutions	1 well	NTNC	50
4100028	Oakvilla Mobile Home Park	2 wells	С	140
4100037	Oakwood Water System Inc	2 wells	С	55
4194760	ODF/WL So Santiam Fish Hatch	1 well	NC	30
4105685	ODFW Roaring River Fish Hatchery	1 well	NC	25
4193536	ODOT HD Oak Grove - Northbound	1 well	NC	500
4193535	ODOT HD Oak Grove - Southbound	1 well	NC	500
4191055	OPRD Cascadia State Park	1 well	NC	670
4195390	OSU Rowing Center	1 well	NC	90
4100029	Periwinkle Mobile Home Park	1 well	С	55
4194871	Pickseed West Inc	1 well	NTNC	30
4191705	Pineway Golf Course	1 well	NC	50
4191700	Pioneer Villa	1 well	NTNC	400
4191707	Pleasant Valley Elem SD #55	1 well	NTNC	100
4194468	Plywood Components, Inc.	1 well	OVS	18
4194242	Queen Anne School SD #16	INACTIVE (1 well)	NTNC	67
4195380	Rays Fruit Stand	INACTIVE (1 well)	NC	25
4100020	Redwood Water Service Inc	1 well	С	125
4194800	Rexius - Coburg	1 well	NTNC	28
4194905	Riverland	1 well	NC	25
4194288	Robert L Pickett Inc	1 well	OVS	18
4194244	Santiam Lumber #1	INACTIVE (1 well)	NTNC	51
4194926	Santiam Lumber #2	1 well	NTNC	54
4100476	Santiam Village	2 wells	С	90
4100796	Scio Mobile Village	1 well	С	40
4194327	Selmet Inc/Rem Products Div	1 well	NTNC	430
4191712	Seven Oak Middle School SD 89	1 well	NTNC	722
4191722	Shedd Cafe	INACTIVE (1 well)	NC	30
4194684	Shedd Market	1 well	NC	100
4193967	Shirley Mays	INACTIVE (1 well)	NC	150
4100030	Shorewood Estates	1 well	С	148
4194767	Subway HWY 34 & I5	1 well	NC	200
4191692	Sweet Home Charter School	1 well	NTNC	165
4194988	Sweetbrier Park	1 well	NC	25
4195037	Tangent Business Park	2 wells	NTNC	50
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4191716	Tangent Elementary, SD 8J	2 wells	NTNC	159

4195316	Taqueria la Roca	INACTIVE (1 well)	NC	25
4191720	The Point Restaurant	1 well	NC	200
4191675	The Woods Roadhouse	1 well	NC	50
4194659	Trysting Tree Golf Course	1 well	NC	150
4194874	United Parcel Service	1 well	NTNC	86
4192775	USFS Fernview CG - Hand Pump	1 well	NC	55
4192779	USFS House Rock CG - Hand Pump 1	1 well	NC	43
4192816	USFS House Rock CG - Hand Pump 2	1 well	NC	43
4192776	USFS Longbow Org Camp	1 well	NC	48
4192780	USFS Trout Creek CG - Hand Pump 1	INACTIVE (1 well)	OVS	40
4192782	USFS Trout Creek CG - Hand Pump 3	INACTIVE (1 well)	NC	40
4192781	USFS Trout Creek CG Hand pump 2	1 well	NC	43
4195474	USFS Trout Creek Cg Well 4	1 well	NC	40
4194248	USFS Yukwah CG - Hand Pump 1	1 well	NC	43
4194247	USFS Yukwah CG - Hand Pump 2	1 well	NC	43
4105073	Valley Christian Center	1 well	NC	32
4105013	Valley Inn	1 well	OVS	16
4191795	Van Duyn Properties	2 wells: 1 active, 1 inactive emergency	OVS	15
4194355	Wastequip Oregon	1 well	OVS	24
4194652	Waterloo Store	1 well	NC	100
4194317	Wayne Buck Water System	1 well	NTNC	40
4100230	Weslinn Water Company	1 well	С	200
4194287	Weyerhaeuser Co Lebanon Lumber	INACTIVE (1 well)	NTNC	35
4100223	Whispering Pines Mobile Lodge	1 well	С	90
4105130	Willamette Speedway	1 well	NC	33
4100224	Woodland Mobile Home Park	1 well	С	91
4194734	Yuvis Market	1 well	NC	250
		Total population served	by	30,671
		groundwater sources	5:	
	<u>Surface Wate</u>	<u>r Sources</u>		
4100003	Adair Village Water System	Willamette River	С	980
4100012	Albany	South Santiam River	С	54,945
4192152	Cascade Pacific Pulp LLC*	Willamette River	С	800
4100225	Corvallis*	Willamette River	С	56,000
4100473	Lebanon	South Santiam River	С	15,518
4100851	Sweet Home	South Santiam River	С	9,415
4100954	Wilsonville	Willamette River	С	25,915
		Total population served surface water source:	•	163,573

System Type: C - "Community Water System (C)" means a public water system that has 15 or more service connections used by year-round residents or that regularly serves 25 or more year-round residents.

NTNC - "Non-Transient Non-Community Water System (NTNC)" means a public water system that is not a Community Water System and that regularly serves at least 25 of the same persons over 6 months per year.

NC - "Transient Non-Community Water System (NC)" means a public water system that serves a transient population of 25 or more persons.

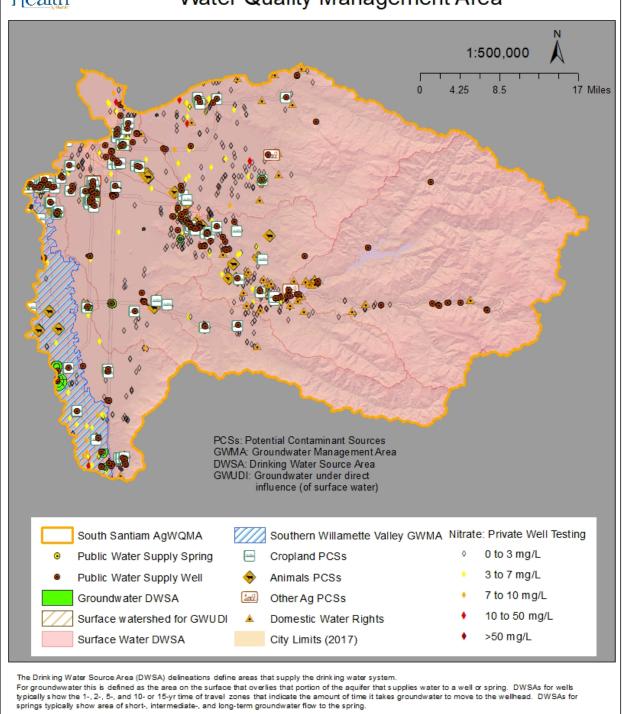
NP - "State Regulated Water System (NP)" means a public water system, which serves 4 to 14 service connections or serves 10 to 24 people. Monitoring requirements for these systems are the same as those for Transient Non-Community water systems.

Translation or other formats

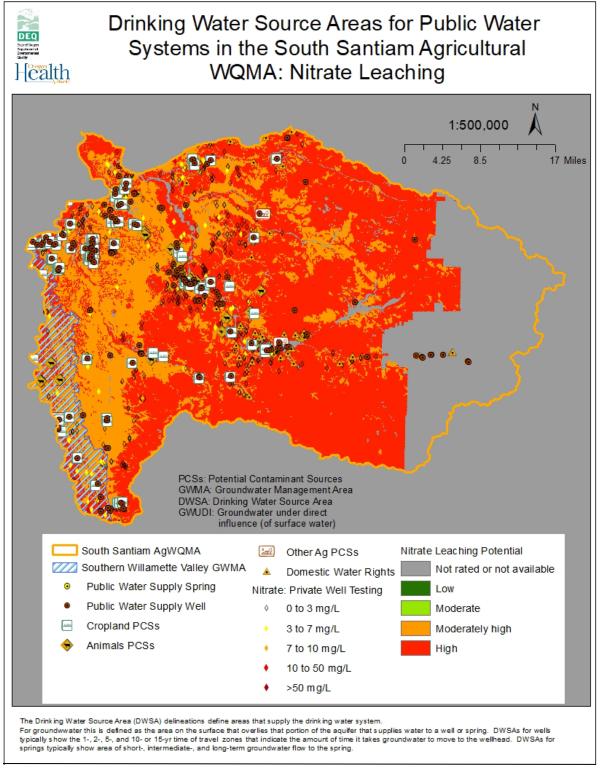




Drinking Water Source Areas for Public Water Systems in the South Santiam Agricultural Water Quality Management Area



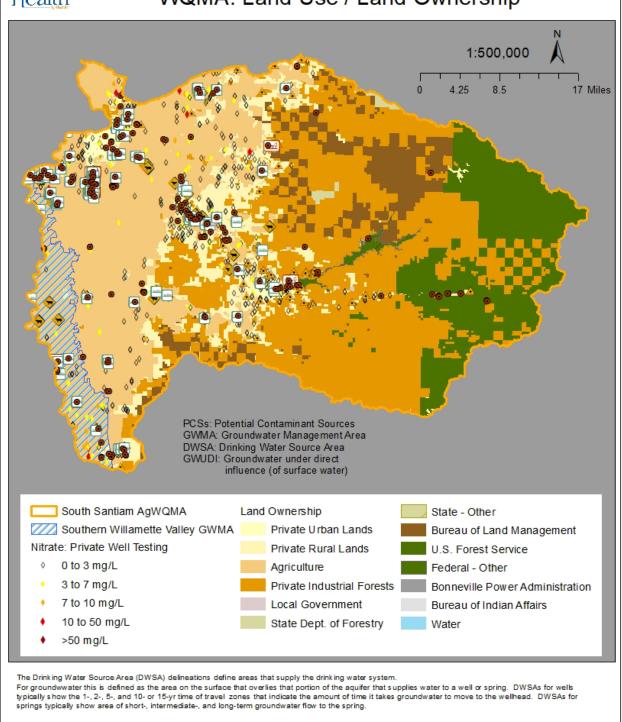
Map 1: Drinking Water Source Area for Public Water Systems in the South Santiam Agricultural Water Quality Management Area



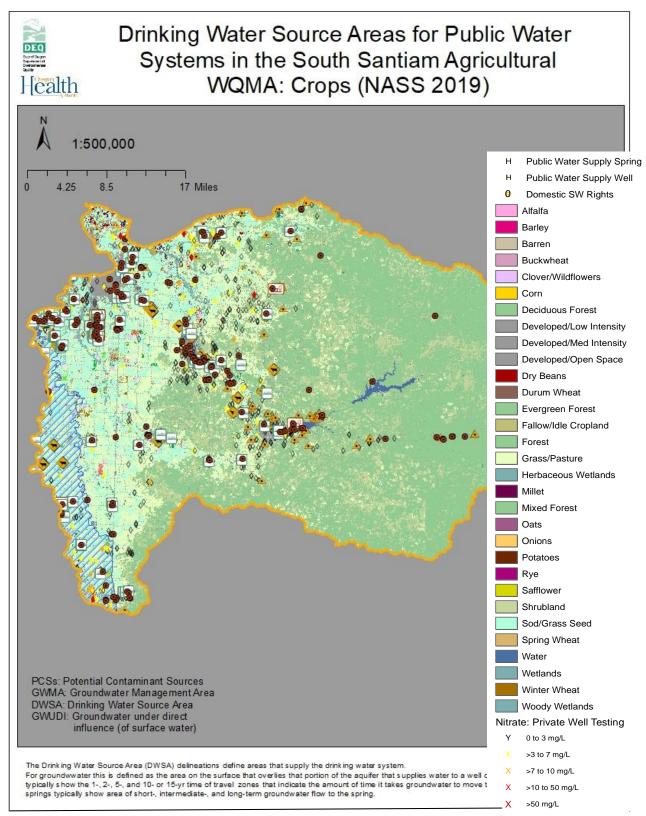
Map 2: Drinking Water Source Area for Public Water Systems in the South Santiam Agricultural Water Quality Management Area, Nitrate Leaching



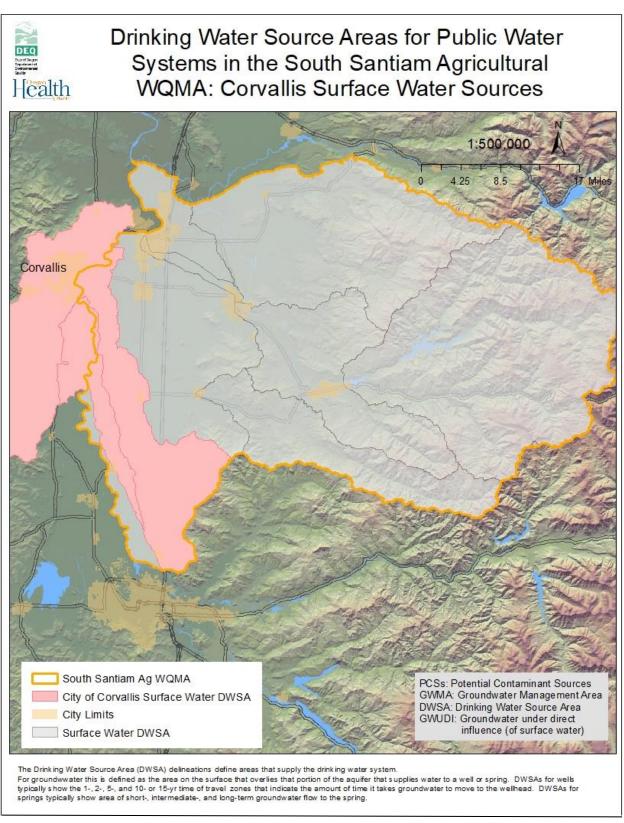
Drinking Water Source Areas for Public Water Systems in the South Santiam Agricultural WQMA: Land Use / Land Ownership



Map 3: Drinking Water Source Area for Public Water Systems in the South Santiam Agricultural Water Quality Management Area, Land Use/Land Ownership



Map 4: Drinking Water Source Area for Public Water Systems in the South Santiam Agricultural Water Quality Management Area, Crops



Map 5: Drinking Water Source Area for Public Water Systems in the South Santiam Agricultural Water Quality Management Area, Corvallis Surface Water Drinking Water Source Areas