

# 2011-2012 Volunteer Water Quality Data Status Report

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Department of  
Environmental  
Quality

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DEQ is a leader in restoring, maintaining and enhancing the quality of Oregon's air, land and water.

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# Executive Summary

The purpose of this report is to update data users on the availability of water quality data generated by sampling organizations participating in the Oregon DEQ's volunteer monitoring program. The report describes DEQ's accomplishments in uploading the data to a publicly available database and provides a summary of all existing data.

The volunteer program supports organizations in Oregon interested in generating water quality data of known quality. In return, organizations provide the data they generate to DEQ so it can be made available for public use. DEQ staff review each dataset submitted to assure data quality before uploading results into DEQ's publicly available laboratory storage and retrieval database, known as LASAR. As of the end of calendar year 2012, DEQ received a total of 422 datasets as part of this program. This report lists the submitted datasets and presents data available in LASAR as of January 2013. Volunteer data in LASAR consists of thousands of samples at over 2,000 different monitoring locations. There is also a significant number of submitted datasets that DEQ has yet to process.

# Background

## Types of data

The Oregon DEQ Laboratory's volunteer monitoring program was created in the mid 1990's to provide technical assistance to watershed councils, soil and water conservation districts, and other non-governmental organizations interested in conducting water quality monitoring. Part of this technical assistance includes providing participating organizations with water testing equipment, supplies and training to help improve and standardize the quality of the data generated. The types of equipment lent to organizations includes continuous temperature monitoring devices, dissolved oxygen kits, digital thermometers, specific conductivity and temperature meters, turbidity meters, pH meters, fecal bacteria testing equipment, stream discharge equipment, and supplies for macro-invertebrate and physical habitat monitoring. Continuous temperature data are historically the most common type of data submitted although significant amounts of other water quality testing results are now common. The data generated by participants in the program are public information. Partner organizations submit the data they collect to the DEQ lab.

## Terminology

Specific terminology is used to describe how the DEQ lab organizes data. Definitions of this terminology are provided below to improve the readers understanding of the amount of data available.

- Continuous data- Water quality data collected using instruments with data loggers that measure and record multiple results at a defined time interval for one or many water quality parameters at a sampling location. The most common type of continuous data is continuous temperature recorded at 30 minute intervals although some datasets also include continuous dissolved oxygen, conductivity, pH and turbidity.
- Continuous sample- For continuous data a sample is equivalent to a field deployment of an instrument and consists of many (usually thousands) of individual results for all the parameters the instrument measures. Typical deployments for continuous temperature loggers last all summer.
- Dataset- The generic term used in this report that corresponds to a batch of data submitted by a sampling organization to the DEQ. Datasets will generally represent a discrete time period of grab or continuous data. Most commonly a dataset represents one year's worth of data collected by the organization.
- Grab data- Data generated from discrete grab samples collected and analyzed for one or many parameters at a given time and location.
- Grab sample- A grab sample is a result for one or many parameters at a given location and time. Most grab samples will include a sample collected from a water body and analyzed for multiple parameters.
- LASAR- The DEQ's environmental data repository accessible to the public via LASARWeb (<http://deq12.deq.state.or.us/lasar2/>). LASAR stands for Laboratory Storage And Retrieval. It includes water, land and air quality data processed at the lab through 2012.
- LASAR station- Sample locations are referred to as LASAR stations or simply "stations". Data loaded into LASAR must be associated to a specific latitude and longitude. A five digit LASAR station number, station description and various other attributes are assigned to the unique latitude and longitude. Depth is not an attribute for a LASAR station, so samples collected at many depths will be reported with the same station number.

- **Sampling event-** A discrete batch of data loaded into the DEQ data system. Sampling events represent data from a single sampling organization conducting monitoring at many locations, and usually represent some logical time period—for example, a summer of continuous temperature data or a year of grab water quality monitoring data with multiple parameters. Sampling events generally correspond to the original data file submitted by the sampling organization although occasionally submitted data will be broken up into multiple sampling events to facilitate processing.
- **Sampling event number-** Each sampling event is assigned a unique eight digit number starting with the four digit year that the data was loaded into the DEQ's database.

## Data processing description

Water quality data submitted to the DEQ by volunteer program organizations were loaded into the DEQ's LASAR database. Data were associated with LASAR stations. Each result was evaluated for data quality and classified as meeting particular data quality requirements identified in the DEQ's Data Quality Matrix (<http://www.deq.state.or.us/lab/techrpts/docs/DEQ04-LAB-0003-QAG.pdf>). The data were then loaded into an internal DEQ Laboratory database where the data were compared to the original dataset submitted to DEQ for data manipulation errors and then approved. After final approval a final report was generated and the data released into the LASAR database. Data in the LASAR database are available to the public on the DEQ webpage (<http://deq12.deq.state.or.us/lasar2/>) or by contacting the DEQ Laboratory.

The volunteer monitoring coordinator is responsible for organizing submitted data into sampling events, reviewing the quality of the data, generating a short report on quality control results, and shepherding the sampling events into LASAR. The process takes 3 to 4 weeks if the original data set is well organized and complete with all the required information. The 3 to 4 week processing time can stretch out to months if the dataset is missing important information or if a problem is encountered when trying to load the data that requires correction. If the data file is missing required information and the data collectors cannot be contacted, then this data may never enter LASAR. This has only been a problem with historical data and only 4% of datasets submitted cannot make it into LASAR.

## Finding Volunteer Program data

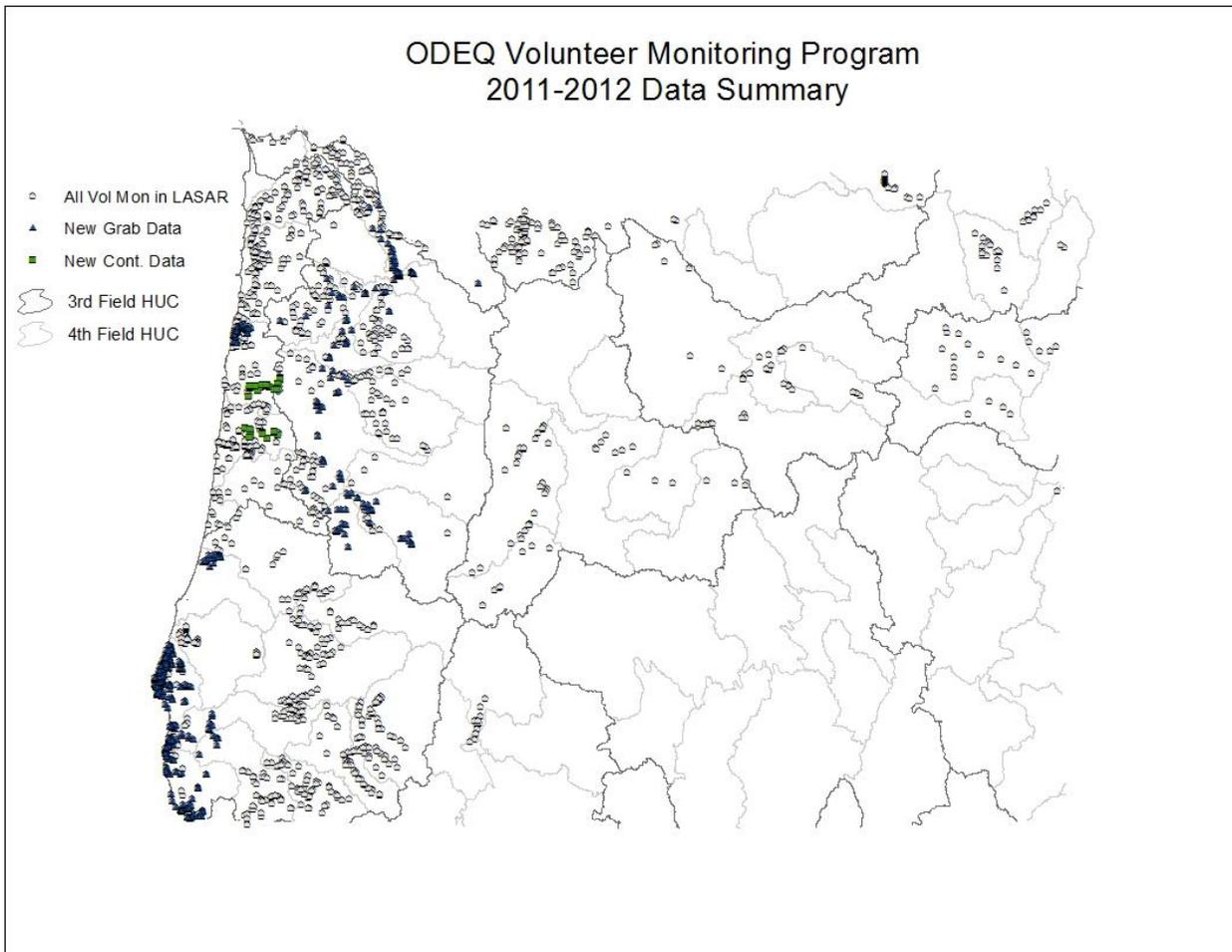
Data generated as part of the volunteer program and submitted to the DEQ Laboratory Volunteer Monitoring Specialist are public information. Data exist in one of two places.

- **LASAR-** The intended home for all volunteer program data through 2012 was the DEQ's LASAR database. The LASARWeb interface (<http://deq12.deq.state.or.us/lasar2/>) allows data users to query all the result values with DEQ assigned data qualifiers. The volunteer program results are stored together with DEQ and other agency generated data. LASARweb also allows access to PDF copies of final reports which include the sampling event QC reports and specific comments about the data. To query the raw data, "Sampling Organizations" can be specified in LASARWeb under the "Stations" tab when conducting a Multiple Criteria Search. "Sampling Organization" should also be selected as a field for viewing in the "Set Results Format" step. To access the PDF final report from LASARWeb, click on the hyperlinked eight digit sampling event number associated with the data. For more information about getting data from LASARWeb please see the help file ([http://deq12.deq.state.or.us/lasar2/webhelp/LAZAR\\_Help.htm](http://deq12.deq.state.or.us/lasar2/webhelp/LAZAR_Help.htm)).

- Data not yet available from LASAR can be requested in its raw format. All volunteer data submitted to DEQ are stored at the DEQ on a network drive. The data files are organized by organization and year of collection. These original data files are available upon request to the DEQ’s volunteer monitoring coordinator. These files generally do not all exist in the same format and contain raw results which may or may not have been reviewed by the data originators for data quality. A list of all datasets submitted to the DEQ organized by submitting organization is presented in Appendix B

# 2011-2012 Accomplishments

During 2011 and 2012 a total of 29 sampling events were loaded into LASAR. The date range for when the data was collected ranges from 2002 through 2011. Of the 29 sampling events loaded in 2011 and 2012, only 1 was a continuous data event and 28 were grab data events. Figure 1 provides a map of locations where this data was collected as well as the locations for all previously loaded volunteer water quality data in LASAR.



**Figure 1 Volunteer water quality monitoring stations in LASAR as January 2013**

An interactive map of the data presented in Figure 1 is available by clicking [here](#)<sup>1</sup>. By selecting a station on the interactive map, users can view pop-ups of the result counts for each parameter. Users may follow the LASARweb link, “More info”, on the pop-up to visit the station page in the database. On the station

<sup>1</sup> Interactive map link <http://bit.ly/Wsh7YO>

page, raw results can be accessed by clicking on the “Count” value for each parameter on the bottom of the page.

Table 1 lists the number of stations and results for each parameter.

**Table 1 Volunteer program data summary for events loaded during 2011–2012 and for all LASAR datasets**

<b>Grab and Continuous Volunteer Data</b>				
	<b>2011 - 2012</b>		<b>Total</b>	
	<b>Results</b>	<b>Stations</b>	<b>Results</b>	<b>Stations</b>
Total Results	210,599	581	8,846,715	2178
<b>Grab Volunteer Data</b>				
<b>Parameter</b>	<b>Parameter</b>		<b>Parameter</b>	
	<b>Results</b>	<b>Stations</b>	<b>Results</b>	<b>Stations</b>
Temperature	8,013	319	22,714	1014
Conductivity	8,312	432	21,808	1040
Dissolved Oxygen (mg/L)	5,810	256	18,428	855
Dissolved Oxygen (% sat)	335	11	1,209	79
pH	6,403	253	18,312	825
<i>E. coli</i>	6,294	326	29,833	856
Turbidity	8,885	425	16,340	719
Salinity	1,492	146	2893	187
Nitrate	2,218	290	3135	326
Nitrite	427	13	627	29
Ammonia	254	13	527	24
Total Nitrogen	391	53	635	53
Dissolved Phosphate	420	64	578	26
Total Phosphorus	2,373	261	3,661	297
Total Suspended Solids	1,208	42	2,470	85
Alkalinity			86	15
Secchi Depth	521	18	669	26
Silica	254	13	503	13
Chlorophyll	219	10	431	10
<b>Continuous Volunteer Data</b>				
<b>Parameter</b>	<b>Parameter</b>		<b>Parameter</b>	
	<b>Results (Samples)</b>	<b>Stations</b>	<b>Results (Samples)</b>	<b>Stations</b>
Temperature	156,575 (42)	42	8,846,715 (2,256)	1138
Conductivity			30,644 (23)	6
Dissolved Oxygen (mg/L)			26,039	6
pH			30,644 (23)	6
Dissolved Oxygen (% sat)			26,039 (22)	6

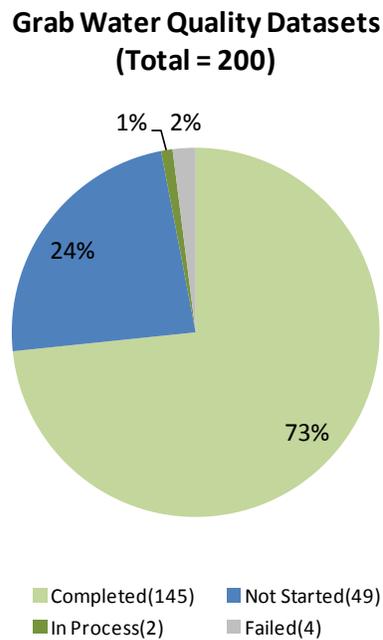
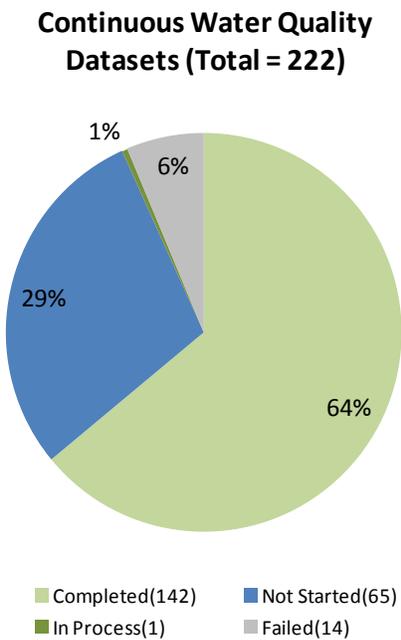
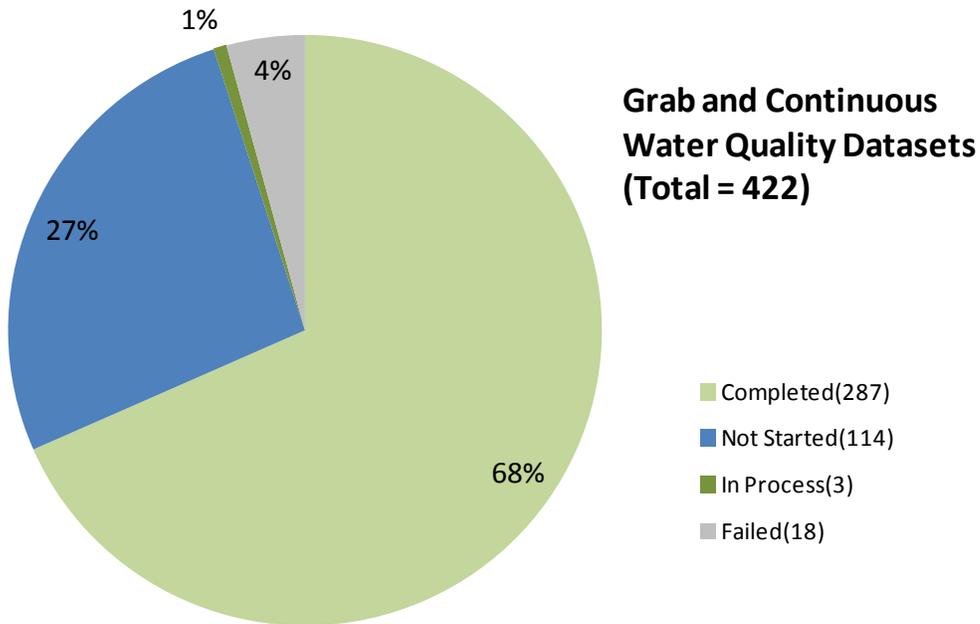
Spatial representations of the locations and number of continuous samples or grab results for all LASAR datasets are presented on maps in Appendix A.

# Volunteer Data Status

During the 2011 and 2012 calendar years 15 continuous datasets and 43 grab water quality datasets were submitted by monitoring partners for upload into the database. Including these 58 new datasets, a total of 422 datasets have been submitted by partner organizations to the DEQ since the program began.

The DEQ is committed to reviewing these datasets for data quality and making them available on a public database. The resource available for uploading data is limited. When the DEQ fails to upload as much data as it receives a backlog of data builds up. Since only 29 events were loaded into LASAR during 2011 and 2012, the backlog of datasets waiting to be loaded into the database increased by 29 datasets.

In Figure 2 the loading status of all volunteer program data has been broken down into four categories: completed, in process, not started or failed. “Completed” means the data are available online from LASARWeb. Summaries of completed volunteer data available in LASAR are presented in Table 1, Figure 1, and Appendix A. Datasets “In Process” were being worked on at the time this report was generated (January 2013). Volunteer data in the “Not Started” category are waiting to be processed as of January 2013. Datasets in the “Fail” category will not be processed because vital information is irretrievable. Figure 2 displays the number of datasets in each status category for all continuous and grab data types combined and separate as of the end of 2012.



**Figure 2 Status of all volunteer generated data submitted to DEQ by the end of 2012**

Appendix B lists each dataset submitted to the DEQ with the type of data, a brief description of the dataset, the date range and either the sampling event number for data already loaded into LASAR or the status of the upload.

## Acknowledgements

The successful upload of the volunteer data during 2011 and 2012 and the preparation of this report was made possible thanks to the following organizations and individuals:

- Monitoring partners for submitting data and responding to requests for clarification on submitted information
- Heather Cayton and Shannon Swantek, DEQ Laboratory Technical Services Section, for assistance in loading data, tracking events and preparing final reports
- Jeff Jones and Brian Priddy, DEQ Laboratory Technical Services Section database administrators, for continued development and maintenance of data upload templates
- Sarah Rockwell, DEQ Laboratory Technical Services Section, for assistance with processing analytical chemistry results from third party laboratories
- Wade Peerman, DEQ Laboratory Water Quality Monitoring Section, for assistance with data processing

# Appendix A

Spatial representations of the locations and number of continuous samples or grab results are presented in maps presented in this appendix. Monitoring locations were filtered for the specific parameters or groups of parameters presented below. Only parameters with large numbers of stations are presented. All stations with nutrient data and all stations with solids data were grouped together for purposes of this report rather than displaying maps for each of the individual analytes. The number of results for the specific parameter are represented using a variable icon size for each location—the larger the icon the more data there is. Due to the scale of the map and the density of stations in some areas there is overlap between stations. An interactive map of the monitoring locations is available by clicking [here](#)<sup>2</sup>. The interactive map is not filtered by parameters but does allow the user to zoom into specific areas of interest, and select stations to view the result counts for each parameter as well as follow a link to the individual station's data in LASAR.

**Figure 3- All volunteer program continuous temperature data in LASAR**

**Figure 4- All volunteer program grab conductivity data in LASAR**

**Figure 5- All volunteer program grab dissolved oxygen data in LASAR**

**Figure 6- All volunteer program grab pH data in LASAR**

**Figure 7- All volunteer program grab *E. coli* data in LASAR**

**Figure 8- All volunteer program grab turbidity data in LASAR**

**Figure 9- All volunteer program grab nutrients\* data in LASAR**

**Figure 10- All volunteer program grab solids\*\* data in LASAR**

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<sup>2</sup> Interactive map link <http://bit.ly/Wsh7YO>

## 2011 – 2012 Volunteer Data Status

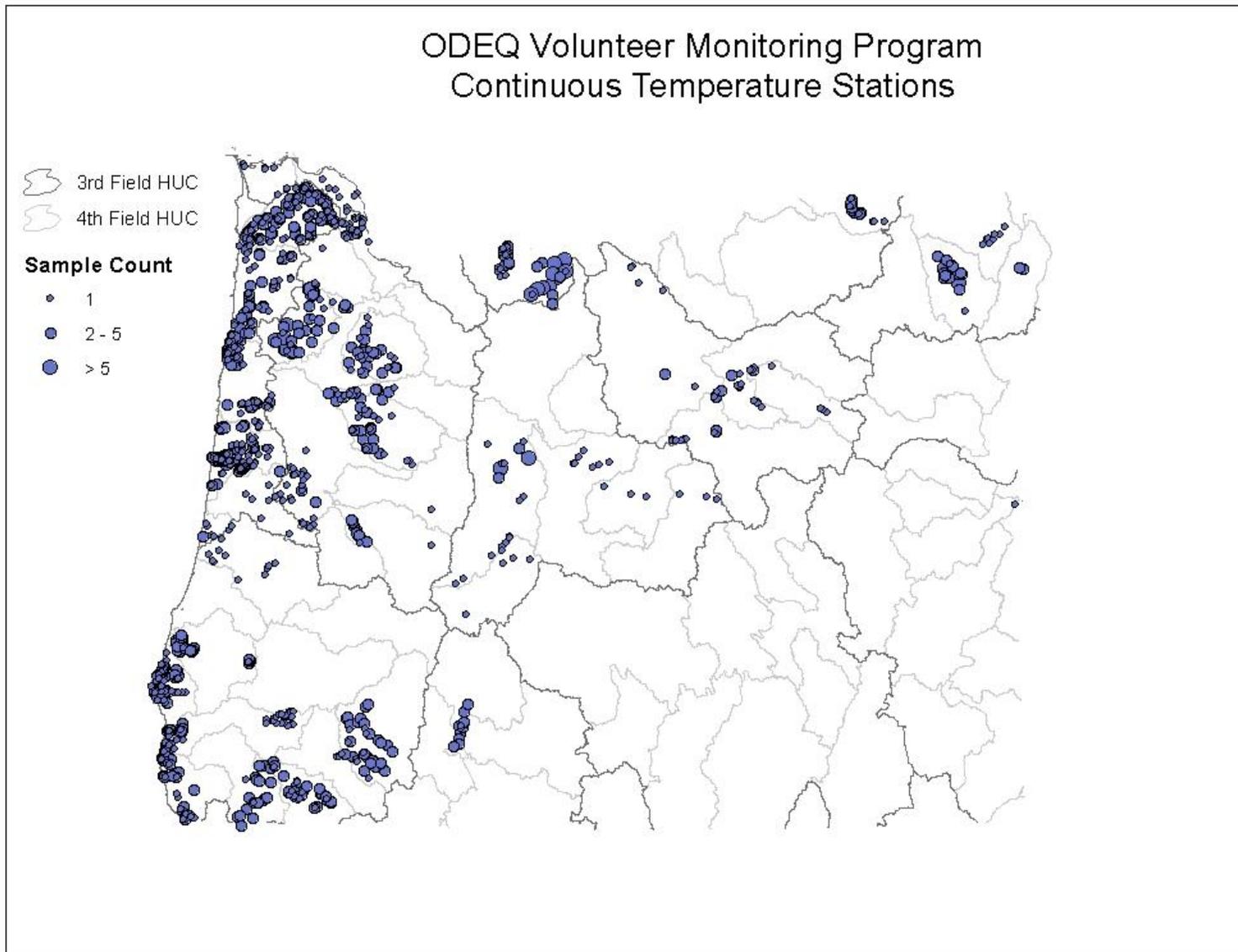


Figure 3- All volunteer program continuous temperature data in LASAR by the end of 2012

## 2011 – 2012 Volunteer Data Status

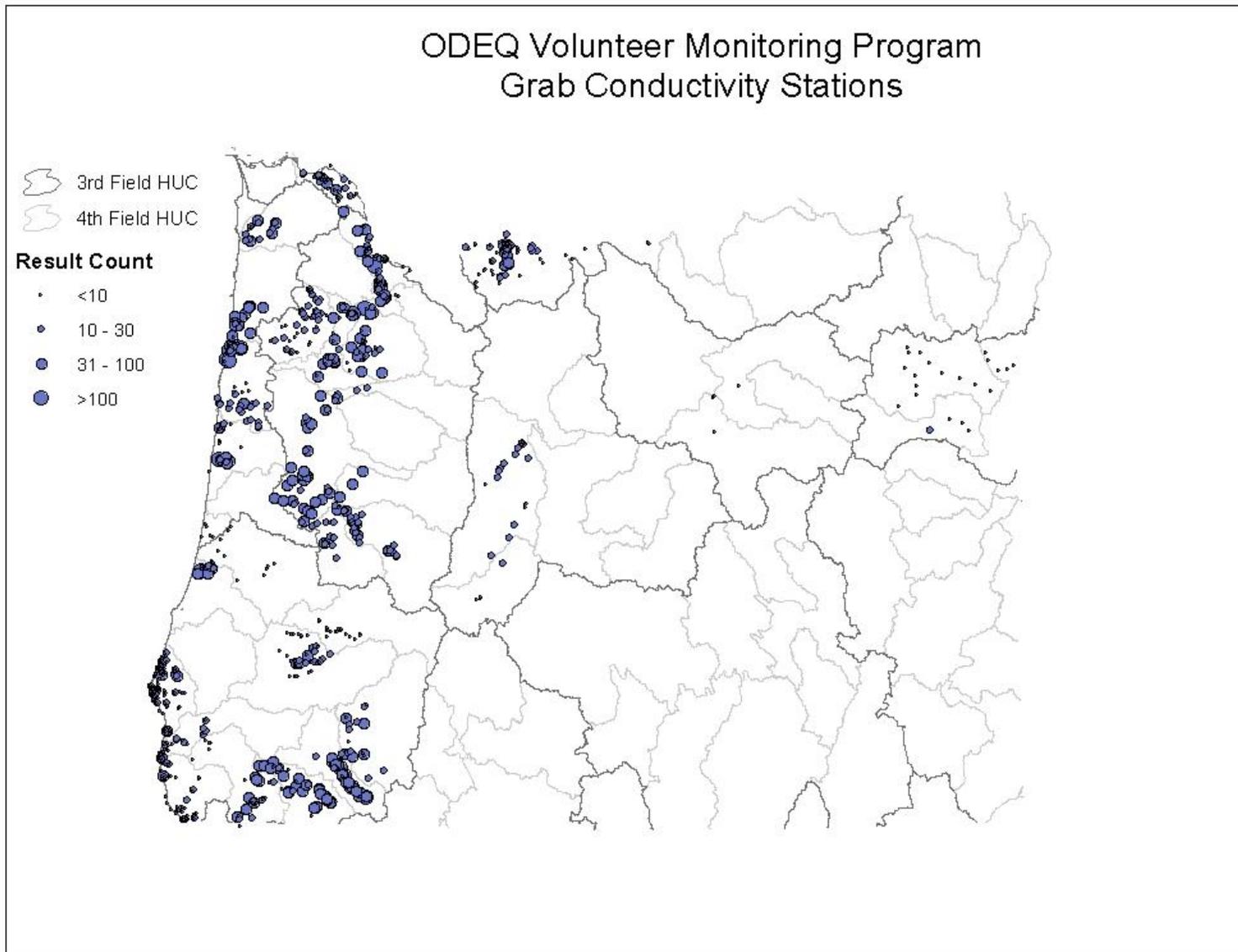


Figure 4- All volunteer program grab conductivity data in LASAR by the end of 2012

## 2011 – 2012 Volunteer Data Status

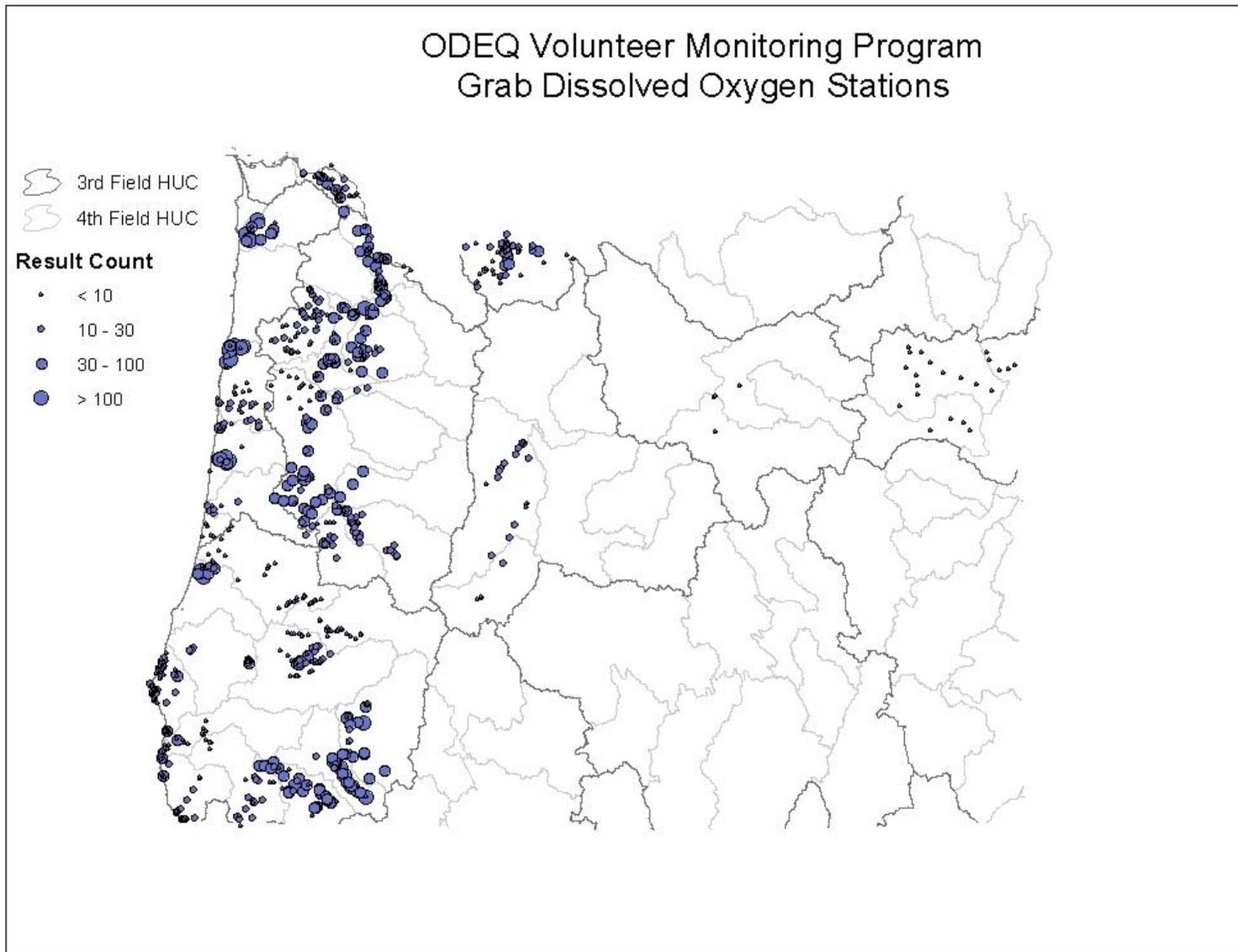


Figure 5- All volunteer program grab dissolved oxygen data in LASAR by the end of 2012

## 2011 – 2012 Volunteer Data Status

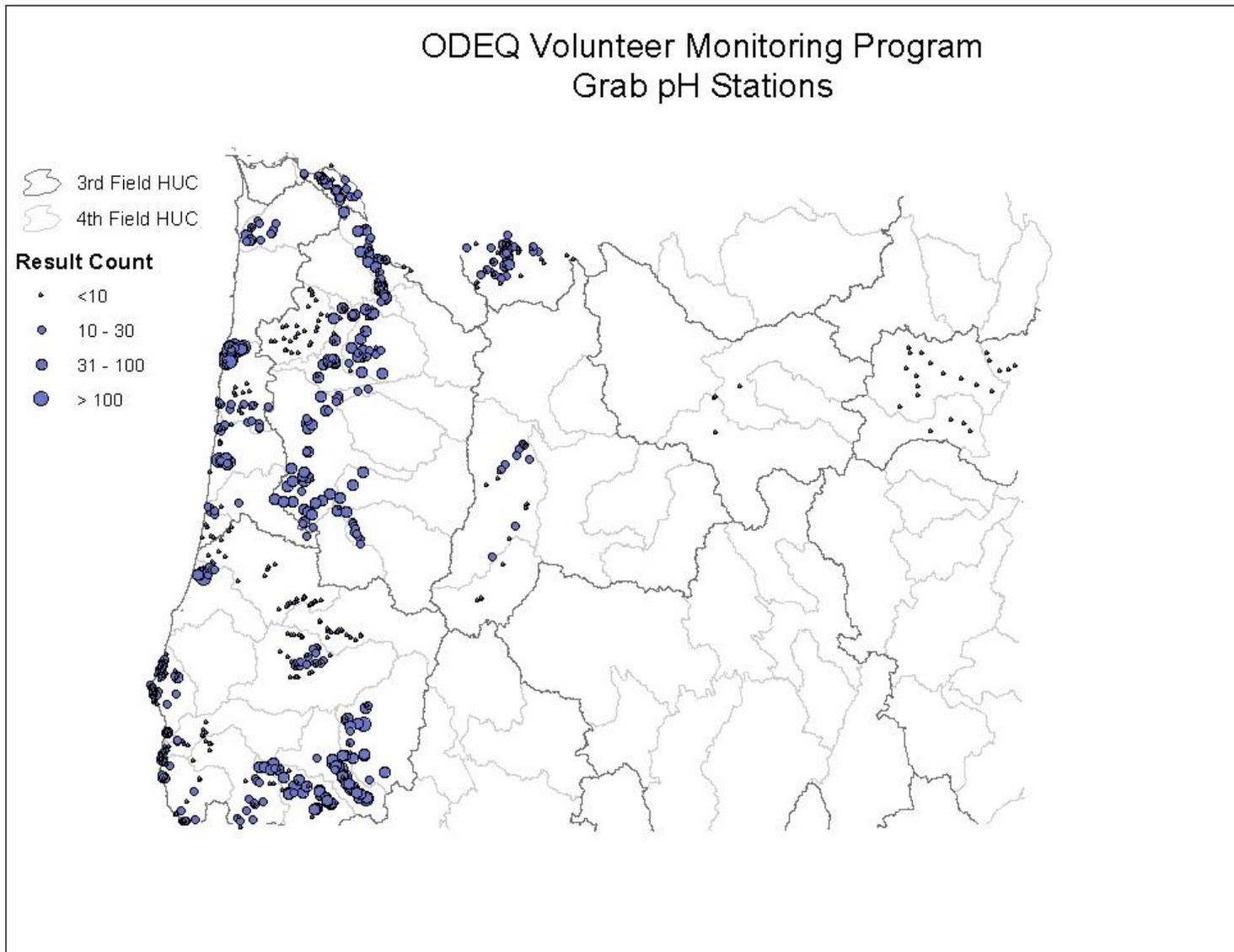


Figure 6- All volunteer program grab pH data in LASAR by the end of 2012

## 2011 – 2012 Volunteer Data Status

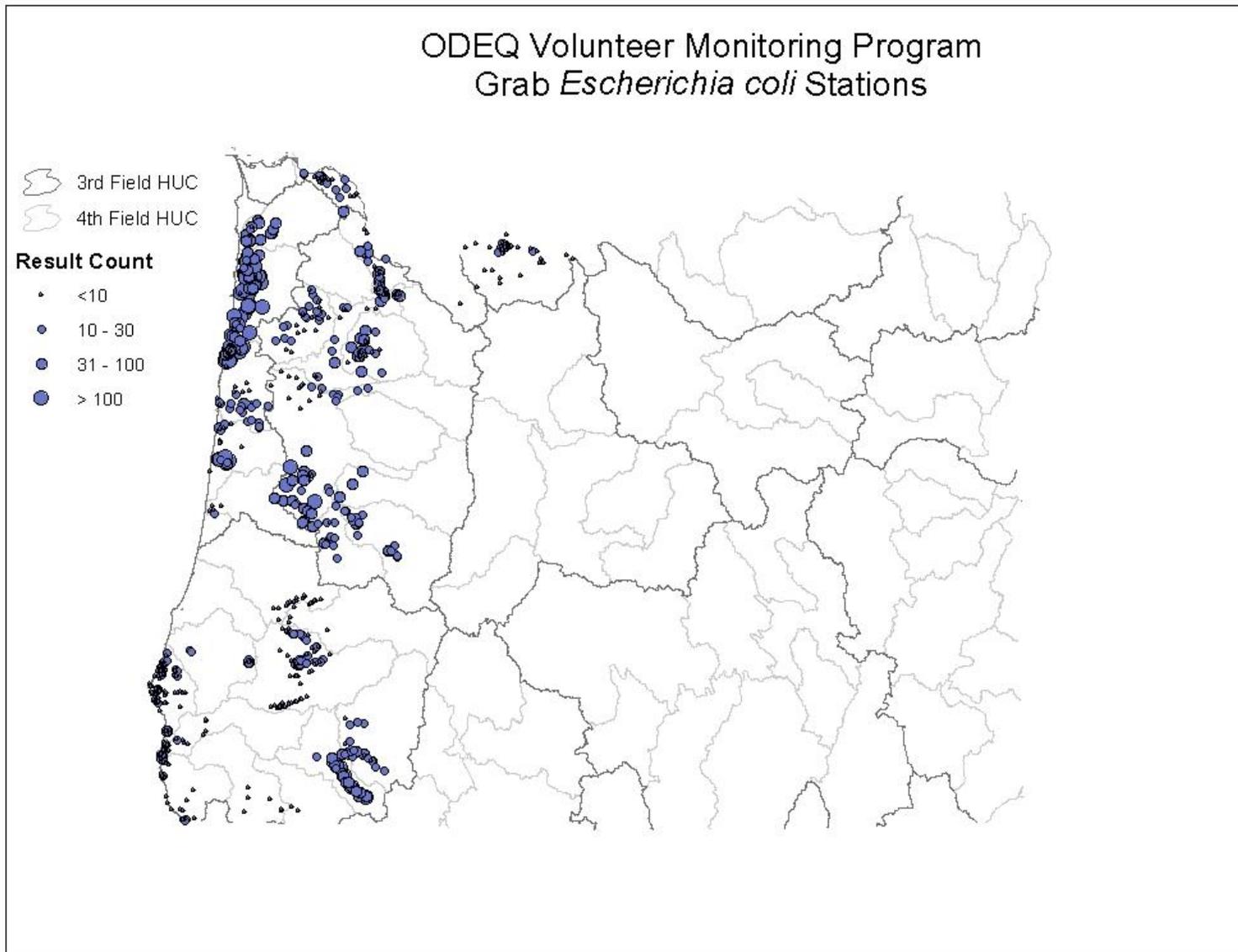


Figure 7- All volunteer program grab *E. coli* data in LASAR by the end of 2012

## 2011 – 2012 Volunteer Data Status

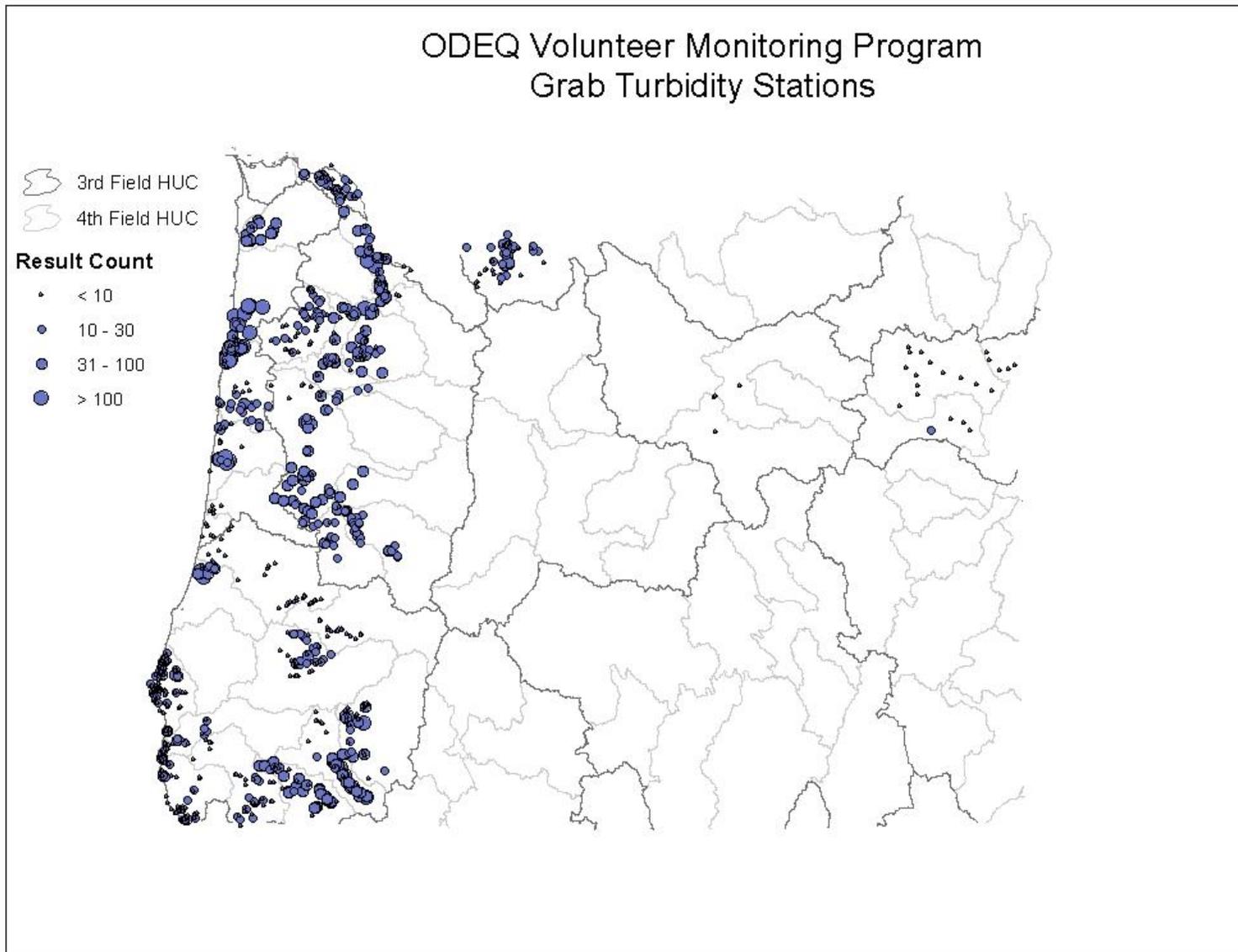
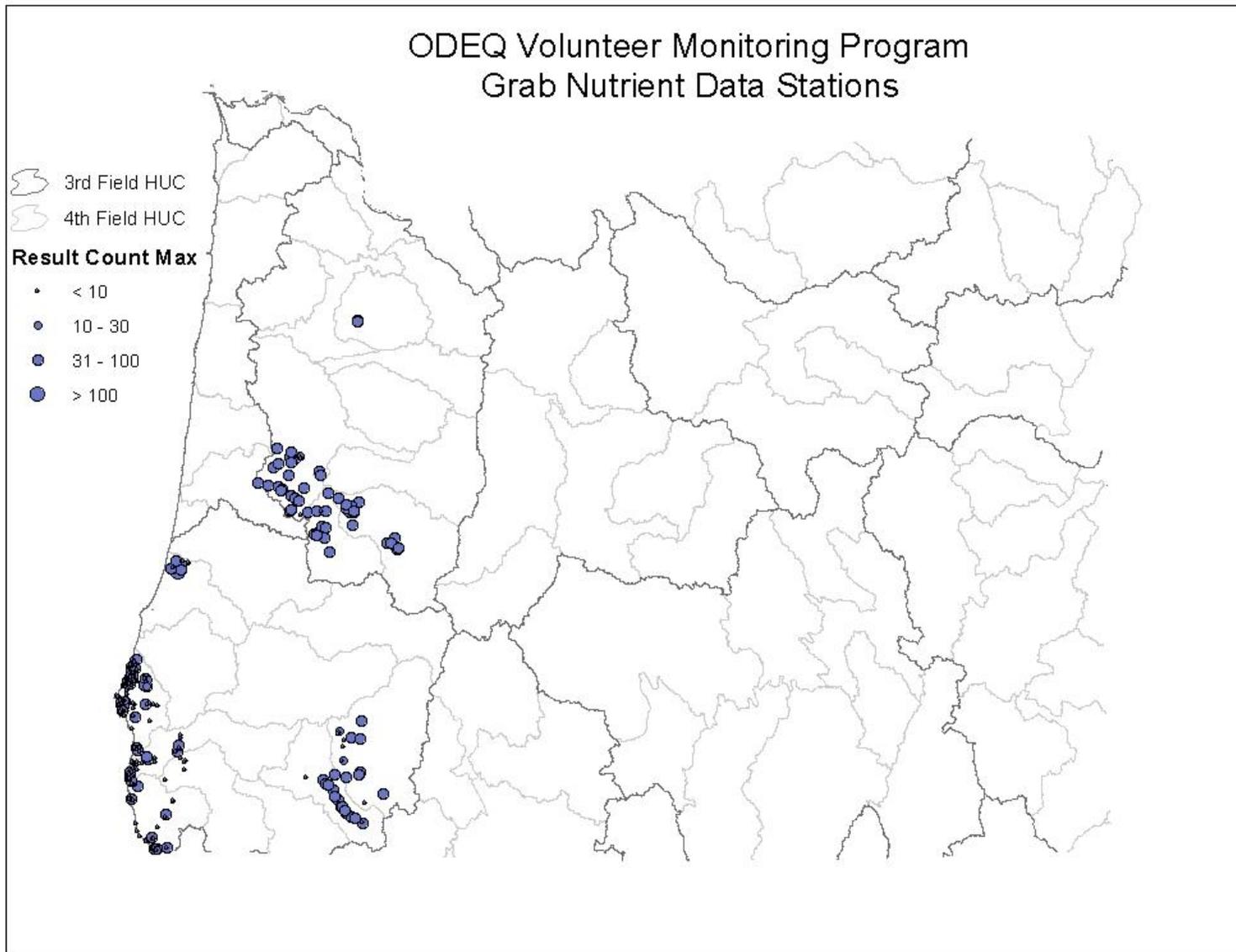


Figure 8- All volunteer program grab turbidity data in LASAR by the end of 2012

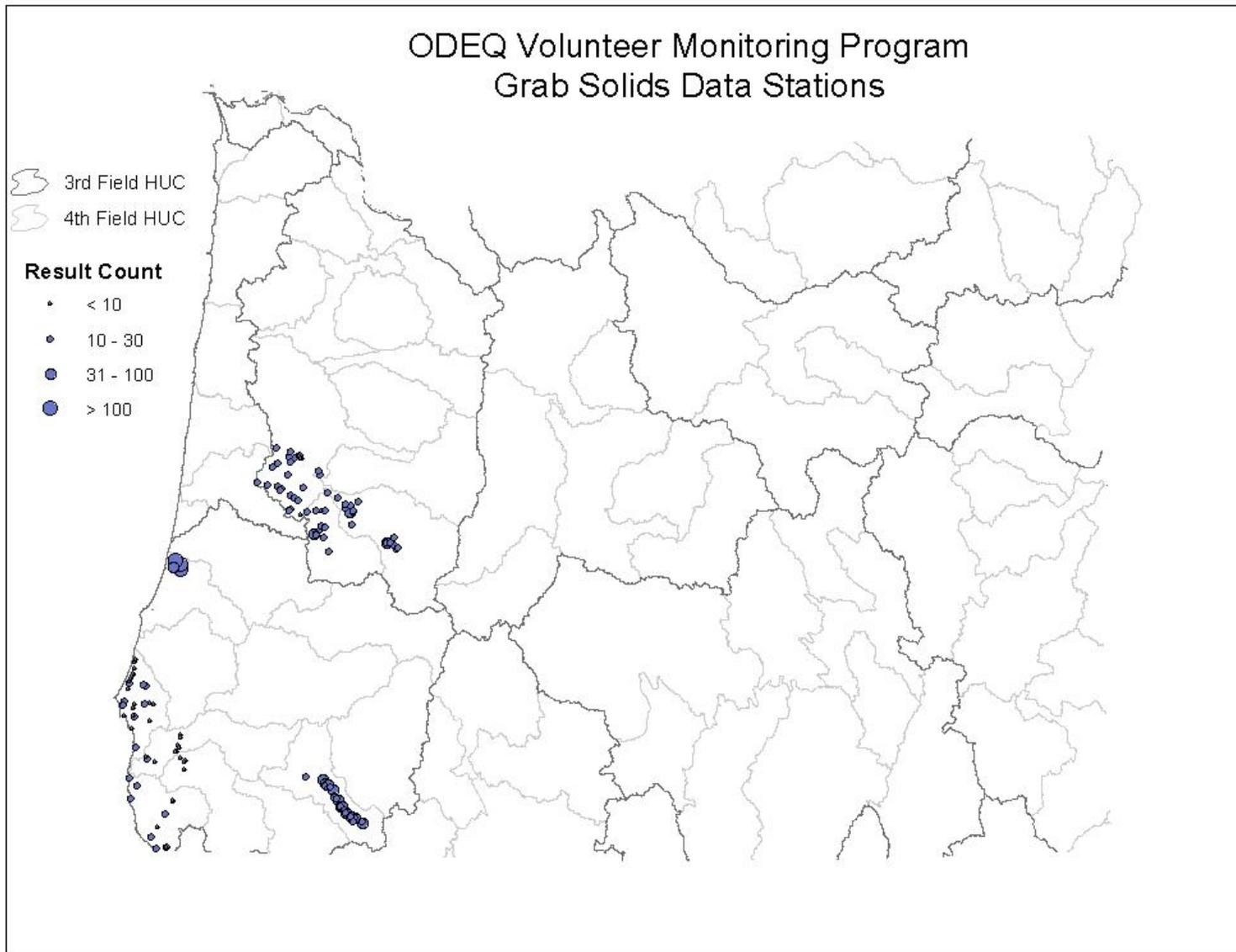
## 2011 – 2012 Volunteer Data Status



**Figure 9- All volunteer program grab nutrients\* data in LASAR by the end of 2012**

\* Nutrients include nitrate, nitrite, ammonia, total nitrogen, dissolved phosphorus or total phosphorus

## 2011 – 2012 Volunteer Data Status



**Figure 10- All volunteer program grab solids\*\* data in LASAR by the end of 2012**

\*\* Solids include total solids or total suspended solids

# Appendix B

The table below lists all volunteer program datasets that have been submitted to the DEQ. Datasets are sorted by the sampling organization that submitted the data, whether the data is continuous or grab data, and the date range. The status of the dataset is either a sampling event number if the dataset is completed and available in LASAR, “Not Done” if the dataset has not been reviewed, “In Process” if the dataset was being reviewed as of January 2013, or “Fail” if the dataset was reviewed and found to have critical data that was irretrievable.

**Table 2 List of all submitted volunteer datasets**

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Continuous	Alsea Watershed Council	6/10/2001-10/9/2001	20020074
Continuous	Alsea Watershed Council	6/23/1999-10/16/1999	20060197
Continuous	Applegate River Watershed Council	06/01/99	20070281
Continuous	Applegate River Watershed Council	3/3/2002-11/10/2002	20060567
Continuous	Applegate River Watershed Council	6/1/1998-10/7/1998	20060576
Continuous	Applegate River Watershed Council	6/5/2003-10/8/2003	20060519
Continuous	Applegate River Watershed Council	6/5/2004-9/4/2004	20060532
Grab	Applegate River Watershed Council	sm98	20020206
Grab	Applegate River Watershed Council	smr00	20061304
Grab	Applegate River Watershed Council	smr99	20020142
Grab	Applegate River Watershed Council	yr 2001	20061301
Grab	Applegate River Watershed Council	yr 2002	20061302
Grab	Applegate River Watershed Council	yr 2003	20031303
Grab	Applegate River Watershed Council	yr 2004	20061305
Grab	Baker SWCD	yrs 99-00	20011383
Grab	Clackamas River Watershed Council	11/1/1998 to 3/1/99	Fail
Continuous	Columbia Riverkeeper	2006	Not Done
Continuous	Columbia Riverkeeper	2007	Not Done
Continuous	Columbia Riverkeeper	2008	Not Done
Continuous	Columbia Riverkeeper	2009	Not Done
Continuous	Columbia Riverkeeper	2011	Not Done
Grab	Columbia Riverkeeper	2008	20090672
Grab	Columbia Riverkeeper	2009	Not Done
Grab	Columbia Riverkeeper	2010	Not Done
Grab	Columbia Riverkeeper	2/11/11 to 12/12/2011	Not Done
Grab	Columbia Riverkeeper	5/2006-11/2006	20070118
Grab	Columbia Riverkeeper	6/16/06 -10/15/2007	20090171
Grab	Columbia Riverkeeper	5/2006-11/2006	20070167
Continuous	Coquille Watershed Association	2004	20050532
Continuous	Coquille Watershed Association	2007	20091117
Continuous	Coquille Watershed Association	2008	Not Done
Continuous	Coquille Watershed Association	6/11/02-6/11/03	20030833
Continuous	Coquille Watershed Association	6/5/2003-10/29/2003	20050673
Continuous	Coquille Watershed Association	6/6-8/15/06	20070132
Continuous	Coquille Watershed Association	7/16/2001-10/18/2001	20030832
Continuous	Coquille Watershed Association	7/19-9/18/06	20070125
Grab	Coquille Watershed Association	2008	Not Done
Grab	Coquille Watershed Association	06/06-12/06	20070011
Grab	Coquille Watershed Association	6/5/07 to 10/25/07	2009005
Continuous	Crooked River Watershed Council	2006	20070164
Continuous	Crooked River Watershed Council	2007	Not Done
Continuous	Crooked River Watershed Council	2010	Not Done
Grab	Crooked River Watershed Council	2010	Not Done
Grab	Crooked River Watershed Council	2011	Not Done
Continuous	Devils Lake	1959-2009	Not Done
Grab	Devils Lake	1959-2010	Not Done

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Grab	Devils Lake	1982-2010	Not Done
Continuous	Friends fo Beaver Creek	2007	20080606
Continuous	Friends fo Beaver Creek	7/2006-11/2006	20070133
Grab	Friends fo Beaver Creek	2006	20070054
Grab	Glenn & Gibson Watershed Council	8/1/1998 to 12/1/00	20020146
Continuous	Grande Ronde Model Watershed	1999	20070283
Continuous	Grande Ronde Model Watershed	2000	20070284
Continuous	Grande Ronde Model Watershed	2001	20070285
Continuous	Grande Ronde Model Watershed	2002	20070287
Continuous	Grande Ronde Model Watershed	2003	20070341
Continuous	Grande Ronde Model Watershed	2004	20070342
Continuous	Grande Ronde Model Watershed	2005	20070344
Continuous	Grande Ronde Model Watershed	2006	In Process
Continuous	Hood River Watershed Group	2007	Not Done
Continuous	Hood River Watershed Group	2009	Not Done
Continuous	Hood River Watershed Group	2009	Not Done
Continuous	Hood River Watershed Group	2010	Not Done
Continuous	Hood River Watershed Group	2010	Not Done
Continuous	Hood River Watershed Group	2011	Not Done
Continuous	Hood River Watershed Group	5/18/1999-12/2/1999	20060634
Continuous	Hood River Watershed Group	5/31/2002-10/28/2002	20030349
Continuous	Hood River Watershed Group	6/22/2001-11/6/2001	20060649
Continuous	Hood River Watershed Group	9/06-11/06	20061325
Continuous	Hood River Watershed Group	Summer 2005	20070106
Grab	Hood River Watershed Group	2009	Not Done
Grab	Hood River Watershed Group	2010	Not Done
Grab	Hood River Watershed Group	2001 - 2003	Not Done
Grab	Hood River Watershed Group	4/13/2006-11/08/06	20070016
Grab	Hood River Watershed Group	4/13/2006-11/08/06	Not Done
Grab	Hood River Watershed Group	4/19 11/15/07	Not Done
Grab	Hood River Watershed Group	6/2005-10/2005	20070015
Grab	Hood River Watershed Group	6/2005-10/2005	Not Done
Continuous	HylaWoods	2007	20081298
Continuous	Hylawoods	2008	Not Done
Continuous	HylaWoods	2009	Not Done
Continuous	HylaWoods	2010	Not Done
Continuous	HylaWoods	2012	Not Done
Continuous	Illinois Valley Watershed Council	06/01/98	20070137
Continuous	Illinois Valley Watershed Council	6/14/2001-10/11/2001	20060655
Continuous	Illinois Valley Watershed Council	6/20/1999-10/14/1999	20060653
Continuous	Illinois Valley Watershed Council	6/9/2000-9/29/2000	20020103
Grab	Illinois Valley Watershed Council	6/1/1998to10/1/99	20011382
Grab	Illinois Valley Watershed Council	7/1/2000to10/1/00	20070114
Grab	Lincoln SWCD	10/09 to 9/10	Not Done
Grab	Lincoln SWCD- Alsea	8/30/2011-3/26/2012	Not Done
Grab	Lincoln SWCD- Beaver	2008	20090253
Grab	Lincoln SWCD- Beaver	10/4/2010 - 3/27/2012	Not Done
Grab	Lincoln SWCD- Newport	2008	20090434
Continuous	Lincoln SWCD- ODFW	2008	Not Done
Continuous	Lincoln SWCD- ODFW/Yaquina/Siletz	2007	20080226
Grab	Lincoln SWCD- Siletz	2008	20090912
Grab	Lincoln SWCD- Siletz	1/24/2011 - 4/2012	Not Done
Continuous	Lincoln SWCD- Yaquina	2005	Not Done
Grab	Lincoln SWCD- Yaquina	2008	20090256
Grab	Lincoln SWCD- Yaquina	10/19/2009 - 3/2011	Not Done
Continuous	Lincoln SWCD- Yaquina/Beaver	2008	Not Done
Continuous	Lincoln SWCD-Alsea	2005	20110420
Grab	Lincoln SWCD-Salmon-Drift	12/4/07-12/17/07	20090183
Continuous	Lincoln SWCD-Siuslaw	2005	Not Done

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Grab	Lincoln SWCD-YachatsAseaBeaver	6/20/07 to 12/17/07	20090003
Grab	Lincoln SWCD-Yaquina	6/20/07 to 12/17/07	20080860
Continuous	Little Butte/Upper Rogue	1998	20070345
Continuous	Little Butte/Upper Rogue	2003	20050117
Continuous	Little Butte/Upper Rogue	5/27/2005-10/20/2005	20060676
Continuous	Little Butte/Upper Rogue	yr2006	Not Done
Grab	Little Butte/Upper Rogue	1/1/2000to12/1/00	20020173 & 20051351
Grab	Little Butte/Upper Rogue	6/1/1998to7/1/99	20020005, 20050411
Grab	Little Butte/Upper Rogue	7/27/1998 to 9/5/2001	20080597
Grab	Little Butte/Upper Rogue	9/1/1998to1/1/00	20020172, 20050364, 365
Grab	Little Butte/Upper Rogue	yr 2001	20031082
Grab	Little Butte/Upper Rogue	yr 2002	20050413
Continuous	Little Butte/Upper Rogue (Medford Water Commission)	2004	20070361
Continuous	Little Butte/Upper Rogue (Medford Water Commission)	2011	Not Done
Grab	Little River (Umpqua)	6/1/1999to8/1/02	20020166
Continuous	Long Tom Watershed Council	5/25/2004-1/25/2005	20060706
Continuous	Long Tom Watershed Council	6/27/2000-11/19/2000	20011194
Grab	Long Tom Watershed Council	7/8/2001to7/10/03	20041244, 20050339-45
Grab	Long Tom Watershed Council	9/1/1999to6/1/01	20030822
Continuous	Lost Creek Watershed Council	6/01/2000-1/08/2001	20020104
Continuous	Lost Creek Watershed Council	6/12/1999-11/14/1999	20060717
Continuous	Lost Creek Watershed Council	6/20/2001-10/26/2001	20060718
Grab	Lost Creek Watershed Council	5/1/2000to12/1/00	20011384
Grab	Lost Creek Watershed Council	6/1/1999to12/1/99	20011385
Grab	Lost Creek Watershed Council	yr 2001	20070004
Continuous	Lower Columbia Watershed Council	07/01/99	fail
Continuous	Lower Columbia Watershed Council	06/01/01	fail
Continuous	Lower Columbia Watershed Council	8/13/1998-10/19/1998	20060707
Grab	Lower Columbia Watershed Council	1/1/2000to12/1/00	20070116
Grab	Lower Columbia Watershed Council	7/01/99-10/1/99	20070117
Grab	Lower Columbia Watershed Council	8/1/1998to10/1/98	20020139
Grab	Lower Columbia Watershed Council	yr 2001	20070115
Continuous	Lower Nehalem Watershed Council	yr 2000	20020942
Grab	Lower Nehalem Watershed Council	2012	Not Done
Grab	Lower Nehalem Watershed Council	1/13/2001to12/21/01	20021136
Grab	Lower Nehalem Watershed Council	1/15/2000to12/19/00	20021253
Grab	Lower Nehalem Watershed Council	1997 - 1999	20070053
Continuous	Luckiamute	6/22-10/05/2006	fail
Grab	Luckiamute	yr 2005	20070012
Continuous	Marion SWCD	2007-2009	Not Done
Grab	Marion SWCD	2007-2009	Not Done
Grab	Marion SWCD	2009-2010	Not Done
Continuous	McKenzie	1998	fail
Grab	Middle Fork Willamette Watershed Council	2008	20121008
Grab	Middle Fork Willamette Watershed Council	2009	20121009
Grab	Middle Fork Willamette Watershed Council	2010	20121010
Grab	Middle Fork Willamette Watershed Council	2008-2010	20121011
Continuous	Middle Rogue Watershed Council	yr 2002	20030281
Grab	Mohawk Watershed Partnership	2006	20070071
Grab	Mohawk Watershed Partnership	9/1/1998to12/1/99	20020141
Grab	Mohawk Watershed Partnership	yr 2001	20070023
Grab	Mohawk Watershed Partnership	yr 2003	20070069
Grab	Mohawk Watershed Partnership	yr 2005	20070070

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Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Grab	Mohawk Watershed Partnership	yr2000	20020140
Continuous	Molalla Native Fish Society	2010	Not Done
Grab	Nehalem Watershed Councils	11/28/2001to4/17/01	fail
Continuous	Nestucca-Neskowin Watershed Council	2000	20081245
Continuous	Nestucca-Neskowin Watershed Council	05/01/99	20070379
Continuous	Nestucca-Neskowin Watershed Council	06/01/00	20010943
Continuous	Nestucca-Neskowin Watershed Council	05/01/01	20060271
Continuous	Nestucca-Neskowin Watershed Council	yr 2002	20030769
Grab	Nestucca-Neskowin Watershed Council	2/3/2003to3/1/03	20070103
Grab	Nestucca-Neskowin Watershed Council	7/1/1999to3/1/01	20010636, 20010656
Grab	Nestucca-Neskowin Watershed Council	8/1/2002to1/1/03	20030831
Grab	North Coast Watershed Councils	2008	In Process
Grab	North Coast Watershed Councils	2008-2009	In Process
Grab	North Coast Watershed Councils	2008-2010	Not Done
Continuous	North Fork John Day Watershed Council	06/01/99	20060708
Continuous	North Fork John Day Watershed Council	05/01/00	20020198
Grab	North Fork John Day Watershed Council	7/1/1999to3/1/00	20011242, 20011251
Continuous	North Santiam Watershed Council	06/01/01	20020412
Continuous	North Santiam Watershed Council	yr. 2006	20010954
Grab	North Santiam Watershed Council	12/1/1999to1/1/01	20020050
Continuous	OSU	2009	Not Done
Grab	Partnership for Umpqua Rivers	2007	Not Done
Grab	Partnership for Umpqua Rivers	2007	Not Done
Grab	Partnership for Umpqua Rivers	2008-2010	Not Done
Grab	Partnership for Umpqua Rivers	2008-2010	Not Done
Grab	Partnership for Umpqua Rivers	2008-2010	Not Done
Grab	Partnership for Umpqua Rivers	7/1/2000to9/1/00	20020177
Grab	Partnership for Umpqua Rivers	7/9/08 to 12/15/10	Not Done
Grab	Partnership for Umpqua Rivers	Winter Data	20031424
Grab	Partnership for Umpqua Rivers (bacteria)	yr. 2006	20070112
Grab	Partnership for Umpqua Rivers (Calapooya)	yr2004	20060544
Grab	Partnership for Umpqua Rivers (Diamond Lake)	2002 - 2011	Not Done
Grab	Partnership for Umpqua Rivers (Myrtle Cr)	2005	20070400
Grab	Partnership for Umpqua Rivers (Myrtle Cr)	yr2004	20070086
Grab	Partnership for Umpqua Rivers (Myrtle Creek)	yr. 2006	20070092
Grab	Partnership for Umpqua Rivers (South)	yr. 2006	20070090
Continuous	Pudding River Watershed Council	yr 2002	20060376
Continuous	Pudding River Watershed Council	yr 2006	20070347
Continuous	Pudding River Watershed Council	yr2003	20060383
Continuous	Pudding River Watershed Council	yr2004	20060388
Continuous	Pudding River Watershed Council	yr2005	20060430
Grab	Pudding River Watershed Council	2006	20070399
Grab	Pudding River Watershed Council	2002 - 2005	20061222 (2002) 20061223 (2003) 20061221 (2004- 2005)
Grab	Pudding River Watershed Council/Marion SWCD	2006	20070398
Grab	Rogue Riverkeeper	6/13/ - 10/31/2011	Not Done
Grab	Rogue Riverkeeper	6/2011 to 10/2011	Not Done
Grab	Rogue Valley Council of Governments	2002	20070219 (1st half) 20070220 2nd half
Grab	Rogue Valley Council of Governments	2003	Not Done

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
			20070217 (1st half) 20070218 (2nd half)
Grab	Rogue Valley Council of Governments	2005	Not Done
Grab	Rogue Valley Council of Governments	2009	Not Done
Grab	Rogue Valley Council of Governments	2010	Not Done
Grab	Rogue Valley Council of Governments	2011	Not Done
Grab	Rogue Valley Council of Governments	2005-2010	Not Done
Continuous	Salmon-Drift Creek Watershed Council	2005	Not Done
Continuous	Salmon-Drift Creek Watershed Council	2006	Not Done
Continuous	Salmon-Drift Creek Watershed Council	2008	Not Done
Continuous	Salmon-Drift Creek Watershed Council	2009	Not Done
Continuous	Salmon-Drift Creek Watershed Council	wnt 03-04	20060283
Continuous	Salmon-Drift Creek Watershed Council	yr 2001	20020718
Continuous	Salmon-Drift Creek Watershed Council	yr 2002	20030781
Continuous	Salmon-Drift Creek Watershed Council	yr 2003	20060200
Continuous	Salmon-Drift Creek Watershed Council	yr 2004	20060236
Grab	Salmon-Drift Creek Watershed Council	2003	20120182
Grab	Salmon-Drift Creek Watershed Council	2004	20120199
Grab	Salmon-Drift Creek Watershed Council	2005	20120199
Grab	Salmon-Drift Creek Watershed Council	2006	20120199
Grab	Salmon-Drift Creek Watershed Council	2007	20090433
Grab	Salmon-Drift Creek Watershed Council	2009	20120201
Grab	Salmon-Drift Creek Watershed Council	2010	20120202
Grab	Salmon-Drift Creek Watershed Council	2011	20120203
Grab	Salmon-Drift Creek Watershed Council	Aug07-2008	20120200
Continuous	Scappoose Bay Watershed Council	07/01/98	20060577
Continuous	Scappoose Bay Watershed Council	05/01/00	20060574
Continuous	Scappoose Bay Watershed Council	yr 1999	20060675
Grab	Scappoose Bay Watershed Council	2004	Not Done
Grab	Scappoose Bay Watershed Council	2005	Not Done
Grab	Scappoose Bay Watershed Council	2006	Not Done
Grab	Scappoose Bay Watershed Council	2007	Not Done
Grab	Scappoose Bay Watershed Council	2008	Not Done
Grab	Scappoose Bay Watershed Council	2009	Not Done
Grab	Scappoose Bay Watershed Council	2008-2010	Not Done
Grab	SiskiyouProject	1/3/08 -7/31/08	20090234
Grab	SiskiyouProject	yr2003	20070037
Grab	SiskiyouProject	yr2005	20070288
Continuous	Siuslaw NF - Mapleton	1996	Not Done
Continuous	Siuslaw NF - Mapleton	1997	Not Done
Continuous	Siuslaw NF - Mapleton	1998	Not Done
Continuous	Siuslaw NF - Mapleton	1999	Not Done
Continuous	Siuslaw NF - Mapleton	2000	Not Done
Continuous	Siuslaw NF - Mapleton	2001	Not Done
Continuous	Siuslaw NF - Mapleton	2002	Not Done
Continuous	Siuslaw NF - Mapleton	2003	Not Done
Continuous	Siuslaw NF - Mapleton	2004	Not Done
Continuous	Siuslaw NF - Mapleton	2005	Not Done
Continuous	Siuslaw NF- Siuslaw	2008	Not Done
Continuous	Siuslaw NF -Waldport	1999	20020355
Continuous	Siuslaw NF -Waldport	2000	20090064
Continuous	Siuslaw NF -Waldport	2001	Not Done
Continuous	Siuslaw NF -Waldport	2002	Not Done
Continuous	Siuslaw NF -Waldport	2003	Not Done
Continuous	Siuslaw NF -Waldport	2004	Not Done
Continuous	Siuslaw NF -Waldport	2005	20090797
Continuous	Siuslaw NF -Waldport	2006	Not Done
Continuous	Siuslaw NF -Waldport	2007	Not Done
Continuous	Siuslaw NF-Alsea	2008	Not Done

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Continuous	Siuslaw Watershed Council	2007	20080604
Continuous	Siuslaw Watershed Council	2007	20080605
Grab	Siuslaw Watershed Council	yr 2003-04	20071047
Continuous	Skipanon Watershed Council	yr 1999	fail
Grab	Skipanon Watershed Council	yr 1999	fail
Continuous	South Coast/Lower Rogue Watershed Council	2002	20070336
Continuous	South Coast/Lower Rogue Watershed Council	2004	20070354
Continuous	South Coast/Lower Rogue Watershed Council	2008	Not Done
Continuous	South Coast/Lower Rogue Watershed Council	2009	Not Done
Continuous	South Coast/Lower Rogue Watershed Council	07/01/98	20021283
Continuous	South Coast/Lower Rogue Watershed Council	06/01/99	20021282
Continuous	South Coast/Lower Rogue Watershed Council	06/01/00	20020197
Continuous	South Coast/Lower Rogue Watershed Council	06/01/03	20060222
Continuous	South Coast/Lower Rogue Watershed Council	06/01-09/01	20070297
Continuous	South Coast/Lower Rogue Watershed Council	2004-2005	Not Done
Grab	South Coast/Lower Rogue Watershed Council	2002-2005	20110808, 20110809, 20110810, 20110811
Grab	South Coast/Lower Rogue Watershed Council	2006-2008	20110812, 20110813, 20110814
Grab	South Coast/Lower Rogue Watershed Council	2009-2011	Not Done
Grab	South Coast/Lower Rogue Watershed Council	5/2/2005to9/2/05	20030755
Continuous	South Santiam Watershed Council	1999	20070172
Continuous	South Santiam Watershed Council	2011	Not Done
Continuous	South Santiam Watershed Council	06/01/00	20060723
Continuous	South Santiam Watershed Council	yr 2003	20040041
Continuous	South Santiam Watershed Council	yr 2004	20050445
Continuous	South Santiam Watershed Council	yr 2006	20070171
Continuous	South Santiam Watershed Council	yr2007	Not Done
Grab	South Santiam Watershed Council	6/28/2011 to 9/2/2011	Not Done
Grab	South Santiam Watershed Council	yr 1998	fail
Continuous	Tenmile Lakes Basin Partnership	2007	Not Done
Continuous	Tenmile Lakes Basin Partnership	yr 2000	fail
Continuous	Tenmile Lakes Basin Partnership	yr 2001	fail
Continuous	Tenmile Lakes Basin Partnership	yr 2002	fail
Continuous	Tenmile Lakes Basin Partnership	yr 2003	fail
Continuous	Tenmile Lakes Basin Partnership	yr 2004	fail
Grab	Tenmile Lakes Basin Partnership	2007	20090644
Grab	Tenmile Lakes Basin Partnership	2008	20110940
Grab	Tenmile Lakes Basin Partnership	2009	20110940
Grab	Tenmile Lakes Basin Partnership	Nov-08	20110943
Grab	Tenmile Lakes Basin Partnership	Mar-10	20110943
Grab	Tenmile Lakes Basin Partnership	Feb-11	20110943
Grab	Tenmile Lakes Basin Partnership	2004-2006	20090616
Grab	Tenmile Lakes Basin Partnership	2004-2007	20110950
Grab	Tenmile Lakes Basin Partnership	2005-2006	20100438

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Grab	Tenmile Lakes Basin Partnership	2010 lake	20110940
Grab	Tenmile Lakes Basin Partnership	3/31 - 4/15/2008	Not Done
Grab	Tenmile Lakes Basin Partnership	6/5/08 to 10/28/09	20110941
Continuous	Tillamook Bay Watershed	2007	Not Done
Continuous	Tillamook National Estuary Partnership	2008	Not Done
Continuous	Tillamook National Estuary Partnership	05/01/99	fail
Continuous	Tillamook National Estuary Partnership	06/01/00	20010553
Continuous	Tillamook National Estuary Partnership	6/2006-9/2006	20070123
Grab	Tillamook National Estuary Partnership	1997to1998	20060620 '97 Qtr 4, 20060621-0624 - '98 Qtr 1-4
Grab	Tillamook National Estuary Partnership	1999to2000	20060583-QARreport attached for all Tillamook cases 20060644-'99 Qtr 4, 20060645-0648-'00 Qtr. 1-4
Grab	Tillamook National Estuary Partnership	1999to2000	20060625-99Qtr4; 20060594-97 2000 data Qtrs 1-4
Grab	Tillamook National Estuary Partnership	1999to2000	20060639 - '99 Qtr 4, 20060640-0643- '00 Qtr 1-4
Grab	Tillamook National Estuary Partnership	1999to2000	20060583
Grab	Tillamook National Estuary Partnership	2001to2002	2001- 20060585 - 588, Q1-4 respectively; 2002- 589, 591-593, Q1-4 respectively
Grab	Tillamook National Estuary Partnership	2001to2002	2001 Q1-4: 20060630-0633; 2002 Q1-4: 20060598-0601.
Grab	Tillamook National Estuary Partnership	2001to2002	20060602-9 Q12001-Q42002
Grab	Tillamook National Estuary Partnership	2001to2002	20060610, 20060611
Grab	Tillamook National Estuary Partnership	2001to2002	20060612-0619
Grab	Tillamook National Estuary Partnership	2003-2004	20061293 (2003) 20061294 (2004)
Grab	Tillamook National Estuary Partnership	2003-2005	20061285 (2003) 20061284 (2005) 20061286 (2004)
Grab	Tillamook National Estuary Partnership	2003-2005	20061287(2003) 20061288(2005) 20061289 (2004)
Grab	Tillamook National Estuary Partnership	2003-2005	20061292 (2005)

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
			20061295 (2003T) 20061296 (2004T) 20061297 (2005T) 20061298 (2003W) 20061299 (2004W) 20061300 (2005W)
Grab	Tillamook National Estuary Partnership	2003-2005	
Grab	Tillamook National Estuary Partnership	2006-2008	Not Done
Grab	Tillamook National Estuary Partnership	yr1999	20060635-638
			20060541 (QTR1), 20060542(QTR2 ) , 20060543(QTR3 ) , 20060545 (QTR4)
Grab	Tillamook National Estuary Partnership	yr2000	
Continuous	Umpqua SWCD	06/01/01	20020231
Continuous	Umpqua SWCD	2006to2007	Not Done
Grab	Umpqua SWCD	6/1/2001to9/1/01	20020221
Continuous	Upper Deschutes Watershed Council	2007	Not Done
Continuous	Upper Deschutes Watershed Council	2007	20090489
Continuous	Upper Deschutes Watershed Council	2007	20090488
Continuous	Upper Deschutes Watershed Council	2007	20090487
Continuous	Upper Deschutes Watershed Council	2007	20090483
Continuous	Upper Deschutes Watershed Council	2007	20090481
Continuous	Upper Deschutes Watershed Council	2008	Not Done
Continuous	Upper Deschutes Watershed Council	2008	20090506
Continuous	Upper Deschutes Watershed Council	2008	20090507
Continuous	Upper Deschutes Watershed Council	2008	20090508
Continuous	Upper Deschutes Watershed Council	2008	20090509
Continuous	Upper Deschutes Watershed Council	2008	20090510
Continuous	Upper Deschutes Watershed Council	2008	20090511
Continuous	Upper Deschutes Watershed Council	yr 2002	20040116
Continuous	Upper Deschutes Watershed Council	yr 2003	20060724
Grab	Upper Deschutes Watershed Council	2007 & 2008	20090913
Continuous	Upper Nehalem Watershed Council	yr 1998	20060223
Continuous	Upper Nehalem Watershed Council	yr 1999	20060247
Continuous	Upper Nehalem Watershed Council	yr 2000	20020942
Continuous	Upper Nehalem Watershed Council	yr 2001	20060282
Continuous	Upper Nehalem Watershed Council	yr 2002	20060232
Continuous	Upper Nehalem Watershed Council	yr 2003	20060250 &20060248
Continuous	Walla Walla Watershed Council	2000	20051296
Continuous	Walla Walla Watershed Council	2001	20060762
Continuous	Walla Walla Watershed Council	2002	20060763
Continuous	Walla Walla Watershed Council	2004	fail
Continuous	Walla Walla Watershed Council	4/2003-12/2003	20060774
Continuous	Walla Walla Watershed Council	yr 1999	fail
Continuous	Wasco SWCD	2008	Not Done
Continuous	Wasco SWCD	05/01/99	20020788, 20020785
Continuous	Wasco SWCD	05/01/00	20020755
Continuous	Wasco SWCD	yr 2001	20060775
Continuous	Wasco SWCD	yr 2002	20060779
Continuous	Wasco SWCD	yr 2003	20040995

## 2011 – 2012 Volunteer Data Status

Data Type	Sampling Organization	Date Range	Sampling Event # or Status
Continuous	Wasco SWCD	yr 2004	20060780
Continuous	Wasco SWCD	yr 2005	20060783
Continuous	Wasco SWCD	yr 2006	20070168
Grab	Willamette Riverkeeper	2008	20120120
Grab	Willamette Riverkeeper	2009	20120121
Grab	Willamette Riverkeeper	2010	20120122
Grab	Willamette Riverkeeper	2011	20120112
Grab	Willamette Riverkeeper	2001 - 2005	20070035
Grab	Willamette Riverkeeper	dec06-2007	20120119
Grab	Willamette Riverkeeper	Jan-dec 2006	20070067 (1st half), 20070068 (2nd half)
Grab	Willamette Riverkeeper	yr2005	20070036
Continuous	Willamette Riverkeeper (NFS study)	yr. 2006	20070427
Grab	Willamette Riverkeeper (NFS)	yr. 2006	20090551 & 20090552
Continuous	Williamson Watershed Council	05/01/98	fail
Continuous	Williamson Watershed Council	06/01/99	20060791
Continuous	Williamson Watershed Council	05/01/00	20060793
Continuous	Williamson Watershed Council	05/01/01	20060794
Grab	Xerces Society	5/07 5/08	Not Done
Continuous	Yachats Water Monitoring Group	2002	20070536
Continuous	Yachats Water Monitoring Group	2003	20070522
Continuous	Yachats Water Monitoring Group	2004	20070521
Continuous	Yachats Water Monitoring Group	2008	Not Done
Continuous	Yachats Water Monitoring Group	06/01/00	20011314
Continuous	Yachats Water Monitoring Group	yr 2001	20060347
Continuous	Yachats Water Monitoring Group	yr 2005	20070428
Continuous	Yachats Water Monitoring Group	yr. 2006	20070490
Grab	Yachats Water Monitoring Group	2002	20070404
Grab	Yachats Water Monitoring Group	2003	20070405
Grab	Yachats Water Monitoring Group	2004	20070406
Grab	Yachats Water Monitoring Group	2005	20070520
Grab	Yachats Water Monitoring Group	2006	20070113
Grab	Yachats Water Monitoring Group	2007	20090233
Grab	Yachats Water Monitoring Group	2008	20090231
Grab	Yachats Water Monitoring Group	2009	20100202
Grab	Yachats Water Monitoring Group	6/1/2000to10/1/00	20011347to20011351
Grab	Yachats Water Monitoring Group	6/1/2001to10/1/01	20020348
Continuous	Yamhill Basin Council	2001	20070524
Continuous	Yamhill Basin Council	07/01/99	20060372
Continuous	Yamhill Basin Council	06/01/00	20020691
Continuous	Yamhill Basin Council	yr 2002	20030756
Continuous	Yamhill Basin Council	yr 2003	20040034
Continuous	Yamhill Basin Council	yr 2004	20050492
Grab	Yamhill Basin Council	yr 2003	20061220
Grab	Yamhill Basin Council	yr 2005	20070014
Grab	Yamhill Basin Council	yr. 2004	20070494
Grab	Yamhill Basin Council	yr. 2004 ecoli	20070013
Grab	Yamhill Basin Council	yr. 2006	20070353
Continuous	Yaquina Watershed Council	2001	20060264
Continuous	Yaquina Watershed Council	2002	20060265
Continuous	Yaquina Watershed Council	2003	20060269
Continuous	Yaquina Watershed Council	2004	20060266
Continuous	Yaquina Watershed Council	2005	20060268
Continuous	Yaquina Watershed Council	2007	Not Done