

2014 Nitrate Priority Area Delineation and Ranking Process



**State of Idaho
Department of Environmental Quality
Water Quality Division
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Introduction

Pursuant to guidance provided in the Idaho Department of Environmental Quality (DEQ) policy memorandum, “Policy for Addressing Degraded Ground Water Quality Areas,” March 1, 2000, a statewide list of significantly degraded areas with nitrate was developed. In 2002, DEQ, in cooperation with the Idaho Ground Water Monitoring Technical Committee (GWMTC), published a ranking of 25 nitrate priority areas (NPAs). In 2008, the NPA process was updated and 32 NPAs were delineated and ranked. The NPAs are areas where elevated levels of nitrate have been found in ground water.

For the 2014 ranking periods, DEQ and GWMTC revised the previous NPAs using data collected in the time period since the prior NPAs were developed to evaluate ground water quality changes in existing NPAs and to identify new areas with nitrate degraded ground water. In 2012, GWMTC began the process of revising the 2008 NPAs. For each NPA iteration, GWMTC explored options to increase defensibility in delineating the areas and in the ranking process.

The minimum criterion for an NPA is 25% of sampled wells have nitrate levels at or above 5 milligrams per liter (mg/L). The state and federal drinking water standard, as well as Idaho’s Ground Water Quality Standards (IDAPA 58.01.11.200) for nitrate is 10 mg/L.

Phase I—Data Acquisition, Compilation, and Analysis

In spring 2012, DEQ began collecting and compiling nitrate results and well location data from the numerous agencies monitoring ground water quality in Idaho. Well location information, sampling date, and nitrate concentrations data were received and compiled by DEQ. Spatial information was reconciled and integrated into a geographic information system.

Sources of data included DEQ’s public water system (PWS) database, the Idaho Department of Water Resources (IDWR) Statewide Ambient Ground Water Quality Monitoring Network (Statewide Program), numerous United States Geological Survey studies, DEQ regional and local monitoring projects, regional studies conducted by the Idaho State Department of Agriculture (ISDA), and dairy sampling by ISDA. Data from 1990 through 2011 were plotted and assigned a nitrate value. For sites with multiple values, the most recent value was used. Data from site-specific monitoring projects associated with known point sources of nitrate contamination were not included in the data set. Ground water quality data from over 10,000 wells statewide were compiled and evaluated. NPAs contain over 4,000 of the 10,000 wells and encompass a combined area of 2,138,930 acres, providing potable water to roughly 402,397 Idahoans. This area is slightly less than the acres within NPAs in 2008.

Phase 2—Delineation of Nitrate Priority Areas

Once the data were located spatially and a value was assigned to each location, NPAs were delineated. GWMTC reviewed a variety of approaches and discussed the pros and cons of

different methods to delineate NPAs. A single method, which would provide concise, objective, scientifically defensible boundaries, was GWMTC's ultimate goal. However, after much discussion and multiple attempts to use a single method, it was determined that a triad of three different methods provided the best result. To decrease the reliance on the potential subjectivity of professional judgment, two geostatistical methods, indicator kriging and ordinary kriging, were incorporated in the process. Geostatistical software packages for indicator kriging and ordinary kriging, available for ESRI ArcMap, were applied to the data. The two geostatistical techniques and professional judgment factors are described in simplified terms below.

- Indicator kriging considers if a value is above or below a specific concentration. It analyzes the data and shows the probability of exceeding a specific concentration. The method allows the user to apply any combination of probability and concentration. For this process, a 25% probability of exceeding 5 mg/L for nitrate was used.
- Ordinary kriging interpolates values between locations with data and contours the data. Areas located within the contour interval of 3.5 mg/L were used.
- The third component of the process includes professional judgment, which considers land use and knowledge of aquifers and hydrogeologic factors. For example, efforts were made to not extend NPA boundaries into undeveloped lands.

The use of geostatistical methods provided more objective and scientifically defensible boundaries. However, NPA boundaries should be still considered estimations that identify general areas where nitrate levels are more likely to be elevated. NPAs may be considered analogous to climate zones or precipitation maps, which constantly change. Distinct NPA boundaries may not be appropriate because of the dynamic nature of ground water systems. Nitrate levels may fluctuate seasonally or annually for a number of reasons, including flow direction or water level changes in response to irrigation practices or seasonal land use practices. Additionally, because nonpoint sources of contamination do not have distinct contamination plumes like point source releases, the boundaries of NPAs are not definite.

The process yielded 34 NPAs, located statewide, stretching from Nez Perce County in northcentral Idaho to Franklin County in southeastern Idaho, and from Owyhee County in southwestern Idaho, to Fremont County in eastern Idaho. The spatial distribution of NPAs is similar to the distribution in 2008. Figure 1 is a map showing a comparison between the 2008 and 2014 NPAs. In the Pocatello region, three new areas were identified: Black Cliffs, Malad, and Georgetown/Bennington NPAs. The Blackfoot NPA increased in size. The Grace/Soda Springs NPA decreased in size and was renamed Grace NPA. In the Idaho Falls region, the Mud Lake NPA increased in size, and the St. Anthony NPA was renamed South Fremont County NPA. In the Twin Falls region, the Cassia County NPA decreased in size. Delineations of several other NPAs in the Lewiston, Twin Falls and Boise Regional Office areas changed slightly.

Based on more recent sampling, the 2008 Hagerman NPA, located in the Twin Falls region, was removed from the NPA list because the results did not meet the criterion of 25% of sampled wells at or above 5 mg/L.

Phase 3—Nitrate Priority Area Ranking

The process used to rank the NPAs in 2002 and 2008 was also used to rank the 2014 NPAs, however, the scoring criteria for the 2012 NPA trend analyses was changed slightly to reflect a more refined approach with the analysis. GWMTTC supported the continued use of the ranking process to maintain consistency with previous efforts and supported the refined trend analysis, which is discussed in the following section. Additionally, the ranking process used in 2002 and 2008 went through a 60-day public comment and was revised based on comments received during that period.

The NPA ranking process, developed by DEQ, in consultation with GWMTTC, provides the rationale for numerically ranking areas in Idaho with identified ground water degradation from nitrates. The statewide priority list created through this process will be used to prioritize implementing protective management strategies or corrective action measures within NPAs.

The ranking process intends to achieve the following:

- Minimize subjectivity
- Have statewide applicability
- Be transferable to other types of contaminants, such as pesticides
- Use existing information

The ranking process considers three weighted principal criteria: population, existing water quality, and water quality trends. A secondary criterion, impacts to beneficial uses other than potable water supply, is considered to a lesser extent because it is not directly related to public health. The secondary criterion is included to comply with DEQ's policy memorandum, "Policy for Addressing Degraded Ground Water Quality Areas."

The criteria and scoring format are described below.

Primary Criteria

Population—The population criterion considers the number of people living in an area that are potentially drinking nitrate-degraded water. This criterion consists of an assessment and point assignment of three elements.

1. Population within the priority area. This element is based upon census data. From 1 to 3 points may be accrued at this stage. One point is assigned to areas with populations less than 1,000; 2 points are assigned to areas with populations between 1,000 and 10,000; and 3 points are assigned to areas with populations of 10,000 or greater.

Example: Population = 5,853 = 1,000 to 10,000 = 2 points

2. Source water protection area (SWPA) that intersects a NPA or public water system (PWS) well located within the priority area. The DEQ policy memorandum, "Addressing Degraded Ground Water Quality Areas," directs DEQ to consider source water assessment areas in ranking the priority areas due to the relative potential to impact drinking water sources. Source water assessment areas represent the aerial extent of 3-, 6-, and 10-year travel times for ground water to reach the PWS well,

spring, or spring intake. If a source water assessment area delineation intersects an NPA, the susceptibility rating of the source water assessment is increased.

This stage provides 0, 1, or 2 points. Areas that do not contain a PWS well or intersect a SWPA do not receive points. Areas that contain 1 to 20 PWS wells and/or SWPAs receive 1 point and areas with more than 20 PWS wells and/or SWPAs receive 2 points.

Example: PWS wells in priority area=11= 1 point

3. Number of wells with nitrate concentrations above 10 mg/L. GWMTc determined that the number of wells with nitrate exceeding 10 mg/L was an important ranking factor. Furthermore, the number of sampled wells with nitrate greater than or equal to 10 mg/L within the priority area is representative of the potential for the public to ingest contaminated ground water. This step is intended to equalize the scoring of large populations drinking water from uncontaminated sources with small populations drinking water from nitrate-contaminated sources. Nitrate contamination greater than or equal to 10 mg/L is the only factor tallied.

Points are accumulated as follows: 0 wells = 0 points; 1 to 2 wells = 1 point; 3 to 5 wells = 2 points; 6 to 9 wells = 3 points; 10 to 15 wells = 4 points; and greater than 15 wells = 5 points.

Example: Number of wells with nitrate greater than 10 = 29 wells = 5 points

At this stage, the population scores are subtotaled.

Example: (2 + 1 + 5 = 8)

Water Quality—This criterion considers the concentration of nitrate contamination with respect to drinking water standards. The criterion is based on the percent of sampled wells with ground water nitrate concentrations greater than or equal to 2 mg/L, 5 mg/L, and 10 mg/L, respectively. These categories were selected to maintain consistency with existing data formats used by GWMTc.

1. Percentage of wells with ground water nitrate concentrations greater than or equal to 2 mg/L. This concentration threshold provides an indication of human-caused (anthropogenic) impacts. The upper limit for naturally occurring (background) concentrations of nitrate is considered to be about 2 mg/L. Points are accumulated by multiplying the percentage of sampled wells by 2.

Example: 88% of the wells sampled equaled or exceeded 2 mg/L (0.88 x 2 = 1.76)

2. Percentage of wells with ground water nitrate concentrations greater than or equal to 5 mg/L. This nitrate concentration is considered evidence of significant degradation. This concentration represents one-half of the drinking water standard for nitrate of 10 mg/L. Public drinking water systems are required to increase monitoring frequency when this level is reached. Because these wells are a subset of the wells containing nitrate greater than or equal to 2 mg/L, this percentage is always less than

or equal to the percentage of wells above 2 mg/L. Points are accumulated by multiplying the percentage of sampled wells by 5.

Example: 73% of the wells sampled equaled or exceeded 5 mg/L ($0.73 \times 5 = 3.65$)

3. Percentage of wells with ground water nitrate concentrations greater than or equal to 10 mg/L. The drinking water standard for nitrate is 10 mg/L. Nitrate concentrations above this level present health risks to certain individuals. Because these wells are a subset of the wells containing nitrate at or above 5 mg/L nitrate concentration, this percentage is always less than or equal to the percentage of wells greater than or equal to 5 mg/L.

Example: 45% of the wells sampled equaled or exceeded 10 mg/L ($0.45 \times 10 = 4.50$)

The sum of all three factors above gives the final water quality score.

Example: ($1.76 + 3.65 + 4.50 = 9.91$ points)

Water Quality Trends—This criterion considers water quality trends within each priority area. Determining water quality trends for a specific priority area is a complex process requiring a comprehensive analysis of water quality data. IDWR evaluated the nitrate data using statistical methods to determine if scientifically defensible water quality trends are present in the areas: www.idwr.idaho.gov/WaterInformation/Publications/wib/wib50p8_Nitrate_Trend_analyses_Report_2013.pdf.

In 2008, the GWMTTC decided to align data used to delineate and evaluate the NPAs, with the inception of the Statewide Monitoring network which began in 1990. In 2012, the GWMTTC recommended trends compared with five year time blocks for the 2014 NPA Ranking to establish a consistent approach for subsequent evaluations. Previous evaluations covered variable blocks of data collection dates.

For the 2008 NPA ranking, the maximum value between Time Period 1 (1994–2000) and Time Period 2 (2001–2007) were compared using nonpaired data analysis methods. A threshold of an 85% confidence level was used for indicating significant change.

For the 2014 NPA ranking, IDWR incorporated two additional analysis methods to provide a more comprehensive evaluation of the trends. In instances when a site was sampled multiple times during a time period, IDWR used the most recent value, instead of the maximum value observed during the time period. The three methods used in the 2014 ranking include the following:

1. **Nonpaired data analyses.** Nonpaired data tests are used when some, or all, of the sites in Time Period 1 (2002–2006) data set are unmatched with the sites in the Time Period 2 (2007–2011) data set.
2. **Paired data analyses.** Paired data tests are used when the sites have results in Time Period 1 (2002–2006) and Time Period 2 (2007–2011).

3. **Ratios.** Determining ratios for the number of sites with nitrate increases to the number of decreases (or decreases to increases) greater than 1.0 mg/L between the time periods.

The nitrate trends are classified as *increasing trend, increasing tendency, no discernable trend, decreasing tendency, and decreasing trend*. The thresholds for a significant statistical result from the nonpaired and paired tests were confidence levels exceeding 85%. The threshold for the ratio method was a ratio greater than 1.5. The following guidelines were used for determining the trend score.

- a. If two or three thresholds were met and were in agreement, then a **Trend** existed.
- b. If only one threshold was met, and other criteria were in agreement, but thresholds were not met, then a **Tendency** existed.
- c. If two thresholds were met, but they were not in agreement, there was **No Trend**.
- d. If no thresholds were met, there was **No Trend**.

This criterion is assigned a maximum value of 10 points. The scoring breakdown is listed below:

Increasing trend = 10 points
 Increasing tendency = 7.5 points
 Static or no discernable trend = 5 points
 Decreasing tendency = 2.5 points
 Decreasing trend = 0 points

Secondary Criterion

Other Beneficial Uses—This criterion is included in the process because DEQ policy requires it to be considered in ranking NPAs. However, this factor does not appear to be an issue in any of the existing NPAs except for aquaculture in the Twin Falls area. When other beneficial uses are impacted, two points will be added to the score. Aquaculture is an example of a beneficial use potentially impacted by elevated nitrates.

Example: No other beneficial uses = 0 points

Total score: (8 + 9.91 + 10 = 27.9)

For clarity, the final score is rounded to the nearest tenth: 27.9.

2014 Ranking Results

The 2014 NPAs were delineated in 2012 and finalized in 2013. The trend analysis was finalized in December 2013, and the ranking was completed in February 2014.

Table 1 summarizes numerical factors, trend, and score with the rank for each area. Table 2 provides selected comparisons between ranking periods. Figure 1 compares the configuration of

the 2008 NPAs with 2014 NPAs. Figure 2 illustrates the 2014 NPAs statewide with the ranked list. Appendix A contains maps of NPAs for each DEQ Regional Office. Appendix B contains maps, data summaries, and ranking score sheets for each NPA in order of rank.

Significant changes in rank for some NPAs occurred between the 2008 and 2014 NPA rankings. These changes are due to changes in the score. The differences are primarily attributable to changes in the water quality and trend components of the score. A change in the configuration of an area could potentially impact both components. However, the paired data trend analysis is not influenced by the different configuration, because the same sites would need to be included in both NPAs. Examples from two NPAs that had size changes between 2008 and 2014 are provided below.

The Cassia County NPA was ranked 9 in 2008 and ranked 1 in 2014.

- Change in configuration—The size was reduced from 193,280 acres in 2008 to 98,788 acres in the 2014 delineation.
- Changes in ground water quality
 - The average nitrate concentration increased from 6.34 mg/L in 2008 to 7.16 mg/L in 2014.
 - The number of sites greater than 10 mg/L nitrate increased from 65 in 2008 to 91 in 2014.
 - A no trend score was calculated in 2008 and an increasing trend score was calculated in 2014.

The Twin Falls County NPA was ranked 1 in 2008 and ranked 21 in 2014.

- Change in configuration—The size was reduced from 379,834 acres in 2008 to 359,150 acres in the 2014 delineation.
- Changes in ground water quality
 - The average nitrate concentration decreased from 5.20 mg/L in 2008 to 5.18 mg/L in 2014.
 - The number of sites greater than 10 mg/L nitrate increased from 34 in 2008 to 35 in 2014.
 - An increased trend score was calculated in 2008 and a decreasing trend score was calculated in 2014.

2014 NPA Delineation and Ranking Process

NITRATE PRIORITY AREA	DEQ_REG	ACRES	SQ_MILES	POPULATION	SITES	MAX_NO3	AVG_NO3	MEDIAN	PWS_SWA	# >= 2 mg/L	% >= 2 mg/L	# >= 5 mg/L	% >= 5 mg/L	>= 10 mg/L	% >= 10 mg/L	TREND	SCORE	RANK
CASSIA CO.	TFRO	98788	154	17977	398	40.00	7.16	6.43	43	354	89	256	64	91	23	Incr. Trend	27.28	1
WEISER	BRO	25370	40	7501	131	43.50	13.21	12.00	23	116	89	107	82	77	59	No Trend	24.78	2
LINDSAY CREEK	LRO	28360	44	2269	67	21.00	5.64	4.12	17	42	63	29	43	17	25	Incr. Trend	20.91	3
ADA CANYON	BRO	257038	402	198458	1092	49.80	5.29	4.07	303	813	74	445	41	138	13	No Trend	19.83	4
FORT HALL	PRO	23881	37	1780	8	23.60	12.76	12.35	5	8	100	6	75	4	50	No Trend	19.75	5
BLACKFOOT	PRO	41540	65	3218	30	16.00	4.68	4.03	29	25	83	13	43	2	7	Incr. Trend	19.51	6
GRAND VIEW	BRO	5994	9	549	35	100.00	12.19	9.00	2	35	100	30	86	13	37	No Trend	19.00	7
BRUNEAU	BRO	13818	22	39	5	110.00	33.12	21.80	0	4	80	4	80	3	60	No Trend	18.60	8
NE STAR	BRO	3250	5	297	88	54.00	11.35	7.49	6	61	69	51	58	38	43	No Trend	18.58	9
BLACK CLIFFS	PRO	1030	2	493	26	28.68	10.61	9.75	18	18	69	16	62	13	50	No Trend	18.48	10
MOUNTAIN HOME	BRO	1663	3	406	45	40.00	11.17	8.07	5	38	84	26	58	16	36	No Trend	17.18	11
MOUNTAIN HOME AFB	BRO	9242	14	3250	37	29.20	7.20	5.60	9	33	89	22	59	8	22	No Trend	16.93	12
PRESTON	PRO	124409	194	11120	72	23.80	4.74	4.01	24	47	65	29	40	9	13	No Trend	16.60	13
CLEARWATER PLATEAU	LRO	359306	561	4347	216	77.10	7.24	4.30	27	155	72	93	43	50	23	Decr. Tendency	16.39	14
MUD LAKE	IFRO	129404	202	1916	80	15.20	3.92	3.87	13	57	71	21	26	6	7	Incr. Tendency	16.02	15
N. POCATELLO	PRO	7239	11	24542	32	12.30	4.19	4.08	44	25	78	10	31	2	6	No Trend	15.71	16
ASHTON/DRUMMOND	IFRO	162473	254	2564	191	47.00	7.25	6.62	20	168	88	135	71	32	17	Decr. Tendency	15.51	17
MARSING	BRO	6692	10	600	47	60.00	9.74	2.43	12	26	55	20	43	15	32	No Trend	15.45	18
GLENNS FERRY	BRO	16781	26	1496	17	73.30	11.62	5.13	3	10	59	9	53	4	24	No Trend	15.23	19
MINK CREEK	PRO	1976	3	715	40	21.00	4.84	3.00	32	26	65	14	35	8	20	No Trend	15.05	20
TWIN FALLS	TFRO	359150	561	76284	618	41.00	5.18	4.80	88	540	87	288	47	35	6	Decr. Trend	14.69	21
PARMA	BRO	7057	11	1063	19	14.50	4.58	2.10	4	10	53	8	42	4	21	No Trend	14.26	22
NOTUS	BRO	2674	4	168	7	16.00	5.79	6.70	1	5	71	4	57	1	14	No Trend	13.67	23
MALAD	PRO	22379	35	2803	13	17.00	4.86	3.77	3	8	62	5	38	2	15	No Trend	13.64	24
MINIDOKA	TFRO	147501	230	18612	337	83.00	5.45	4.26	69	230	68	140	42	30	9	Decr. Trend	13.36	25
SOUTH FREMONT CO.	IFRO	7693	12	979	15	35.00	8.47	3.50	6	8	53	5	33	3	20	No Trend	12.71	26
LAPWAI CREEK	LRO	34214	53	982	15	10.30	4.74	4.80	10	12	80	7	47	1	7	No Trend	12.65	27
HOMEDALE	BRO	5585	9	478	24	16.00	4.16	2.05	1	13	54	10	42	3	12	No Trend	12.48	28
GEORGETOWN/BENNINGTON	PRO	17764	28	795	22	13.30	4.72	4.89	4	15	68	11	50	2	9	No Trend	12.46	29
GRACE	PRO	152954	239	2977	69	37.20	4.54	3.20	16	46	67	18	26	5	7	No Trend	12.34	30
LOWER PAYETTE	BRO	28587	45	8755	246	61.00	5.91	4.11	39	169	68	103	42	38	15	Decr. Trend	11.96	31
BLISS	TFRO	6791	11	67	29	45.00	5.25	3.17	0	19	66	10	34	5	17	No Trend	11.72	32
EMMETT NORTH BENCH	BRO	11928	19	865	53	22.80	3.87	2.80	3	33	62	13	25	5	9	No Trend	11.39	33
PURPLE SAGE	BRO	16399	26	4032	120	27.00	5.28	4.55	24	92	77	55	46	11	9	Decr. Trend	10.74	34
TOTAL		2138930	3342	402397	4244				903	3261		2013		691				
Increasing Trend																		
Increasing Tendency																		
No Trend																		
Decreasing Tendency																		
Decreasing Trend																		

Table 1. 2014 ranked nitrate priority areas with score components.

Rank Year	AREA NAME	DEQ Region	Acres	Square Miles	Population	Total Sites	MAX. NO3	Ave. NO3	MEDIAN	#>=2.00	%>=2.00	#>= 5.00	%>=5.00	#>=10.00	%>=10.00	#PWS/SWA	TREND	SCORE	RANK
2002	Burley/Marsh Crk	TFRO	169563	265	11,787	234	20.00	6.36	5.8	205	88	140	60	40	17	33	Increase	26.50	3
2008	Cassia	TFRO	193280	302	17,525	384	40.00	6.34	5.74	331	86	224	58	65	17	48	No Trend	20.32	9
2014	Cassia	TFRO	98788	154	17,977	402	40.00	7.16	6.43	358	89	258	64	91	23	43	Incr. Trend	27.28	1
2002	Lindsay Creek	Not Ranked																	
2008	Lindsay Creek	LRO	28160	44	1,273	45	18.6	4.74	3.8	25	56	18	40	9	20	16	No Trend	14.12	22
2014	Lindsay Creek	LRO	28360	44	2,269	67	21	5.64	4.12	42	63	29	43	17	25	17	Incr. Trend	20.91	3
2002	Blackfoot	Not Ranked																	
2008	Blackfoot	PRO	15360	24	1100	15	16	6.98	5.64	15	100	9	60	3	20	13	No Trend	15.00	20
2014	Blackfoot	PRO	41540	65	3218	30	16	4.68	4.03	25	83	13	43	2	7	29	Incr. Trend	19.51	6
2002	Rupert	TFRO	116780	182	25,132	236	100.00	5.60	4.4	183	78	104	44	18	8	29	No Trend	19.60	9
2008	Minidoka	TFRO	147200	230	18,395	319	83.00	5.35	4.32	224	70	131	41	27	8	56	No Trend	17.25	12
2014	Minidoka	TFRO	147501	230	18,612	337	83.00	5.45	4.26	230	68	140	41	30	9	69	Decr. Trend	13.36	25
2002	Payette	BRO	30509	48	2725	74	23.4	6.5	5.6	52	70	39	53	15	20	15	No Trend	18.10	10
2008	Lower Payette	BRO	26880	42	6718	119	28	6.05	4.74	83	70	57	48	22	19	25	No Trend	17.70	11
2014	Lower Payette	BRO	28587	45	8755	246	61	5.91	4.11	169	68	103	42	38	15	39	Decr. Trend	11.96	31
2002	Purple Sage	Not Ranked																	
2008	Purple Sage	BRO	14080	22	2835	87	22.7	5.26	4.61	66	76	38	44	9	10	25	No Trend	15.00	20
2014	Purple Sage	BRO	16399	26	4032	120	27	5.28	4.55	92	77	55	46	11	9	24	Decr. Trend	10.74	34
2002	Twin Falls	TFRO	244229	382	47,687	303	30.50	5.30	4.90	281	93	132	44	17	6	59	Incr. Trend	26.70	2
2008	Twin Falls	TFRO	379520	593	63354	605	41.00	5.20	4.90	536	89	288	48	34	6	88	Incr. Trend	24.78	1
2014	Twin Falls	TFRO	359150	561	76284	618	41.00	5.18	4.80	540	87	288	47	35	6	88	Decr. Trend	14.69	21

Table 2. Selected comparisons between ranking periods.

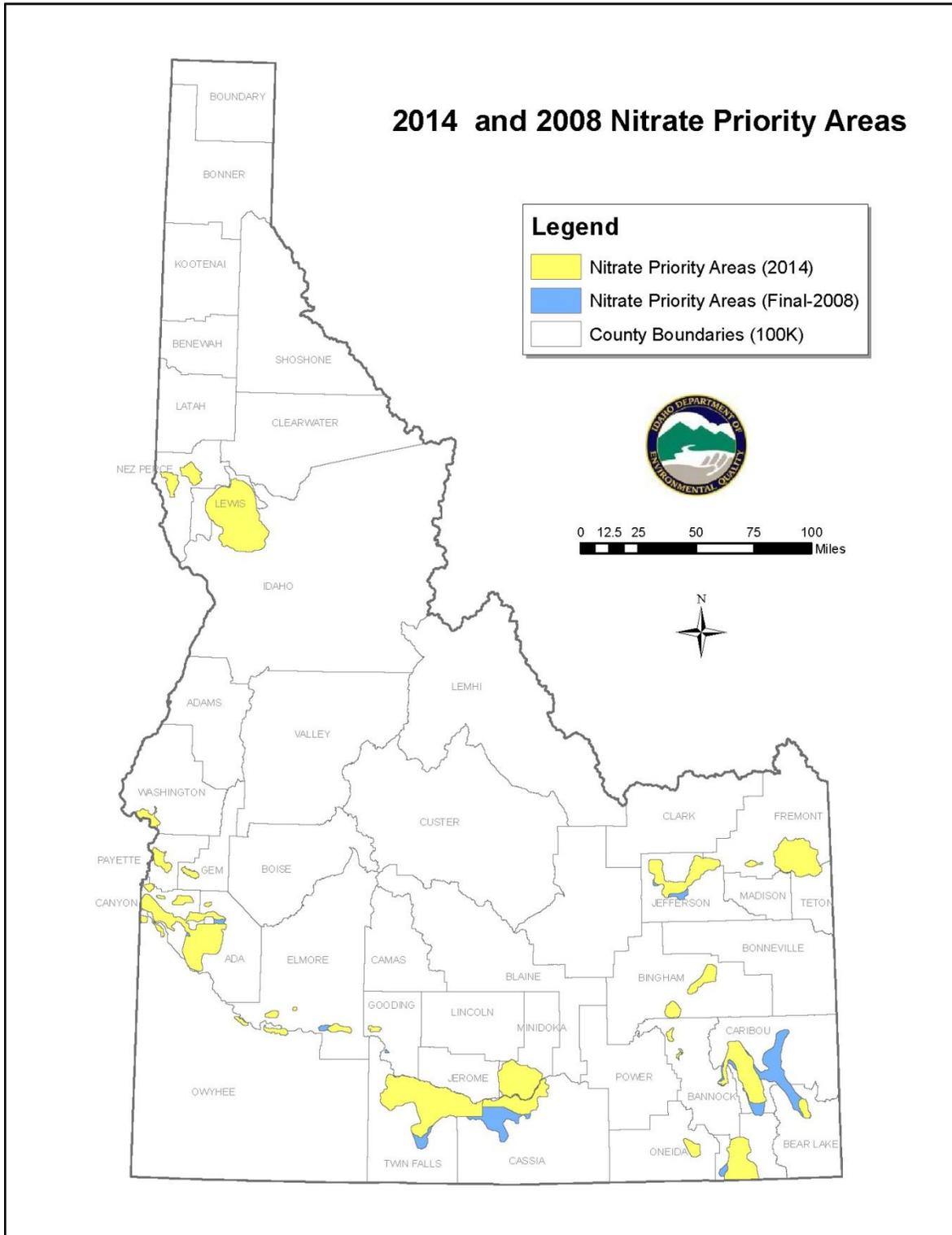


Figure 1. Comparison of 2008 and 2014 nitrate priority area delineations.

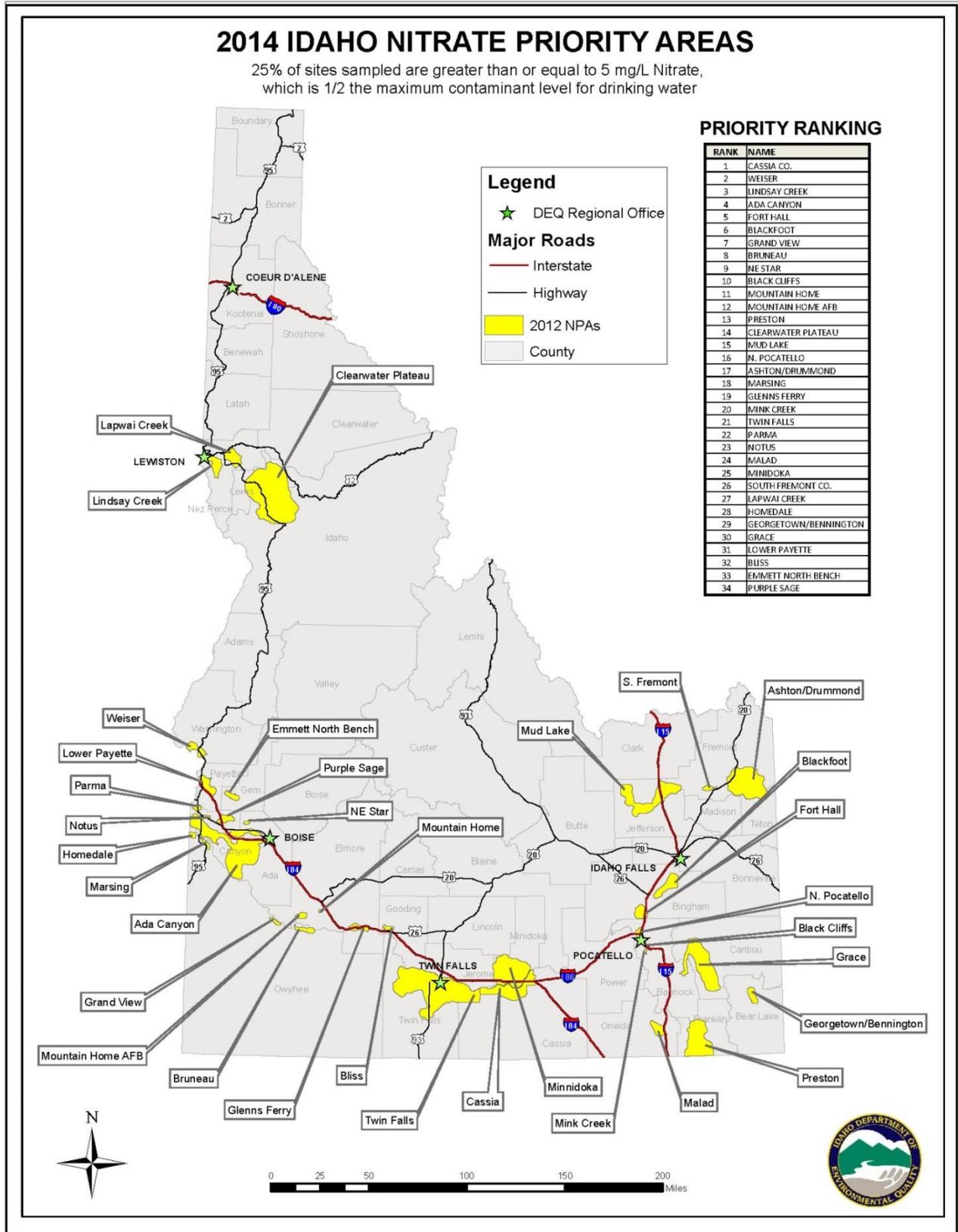


Figure 2. 2014 ranked nitrate priority areas.

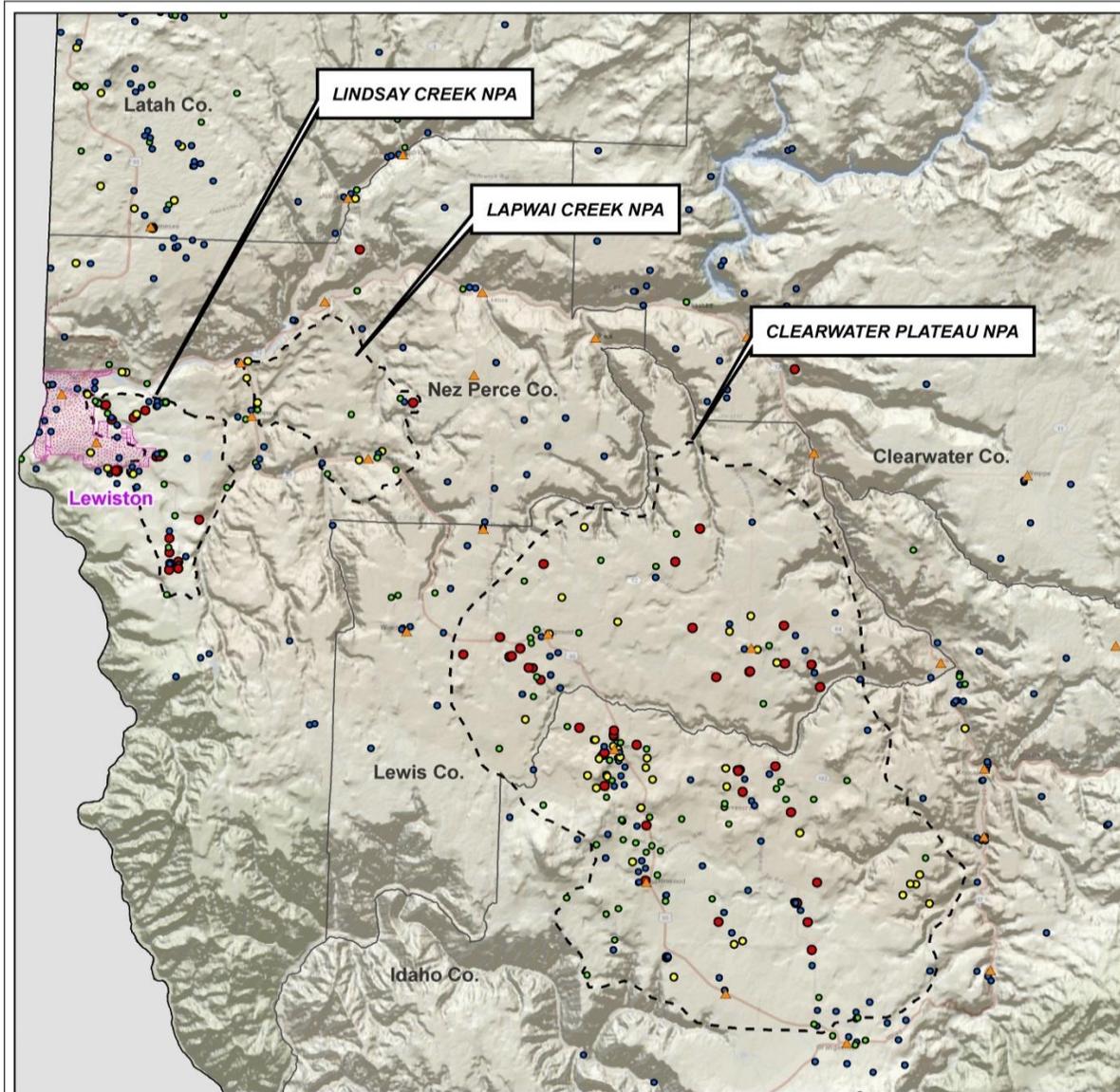
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Appendix A. 2014 Nitrate Priority Area Maps By DEQ Regional Office

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**2014 Nitrate Priority Areas
Lewiston Region**

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CLEARWATER PLATEAU, LAPWAI CREEK AND LINDSAY CREEK NITRATE PRIORITY AREAS (NPAs), 2014



Lewiston Regional Office

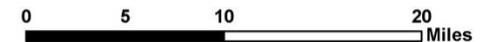


Clearwater Plateau, Lapwai Creek and Lindsay Creek NPAs, 2014

Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10
- ▨ Major City Boundaries
- ▲ Idaho Cities/Towns
- ▭ County Boundaries (100K)
- ▭ 2014 NPAs

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)

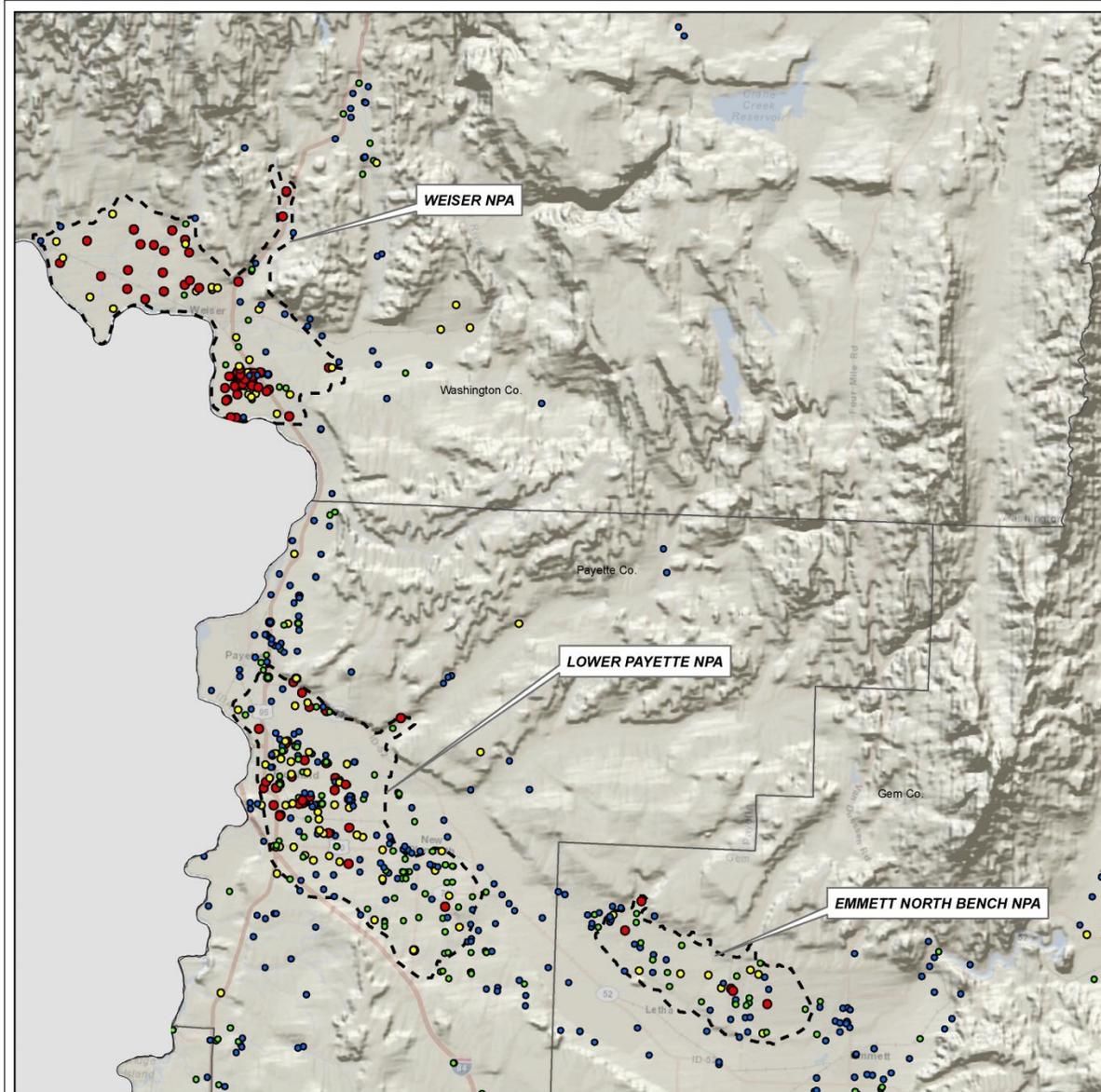


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**2014 Nitrate Priority Areas
Boise Region**

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EMMETT NORTH BENCH, LOWER PAYETTE AND WEISER NITRATE PRIORITY AREAS (NPAs), 2014



**Boise Regional Office,
North Portion, Map 1 of 3**



Emmett N. Bench, Lower Payette, and Weiser NPAs, 2014

Nitrate Concentrations

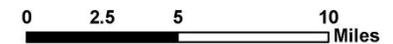
FirstOfFir

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

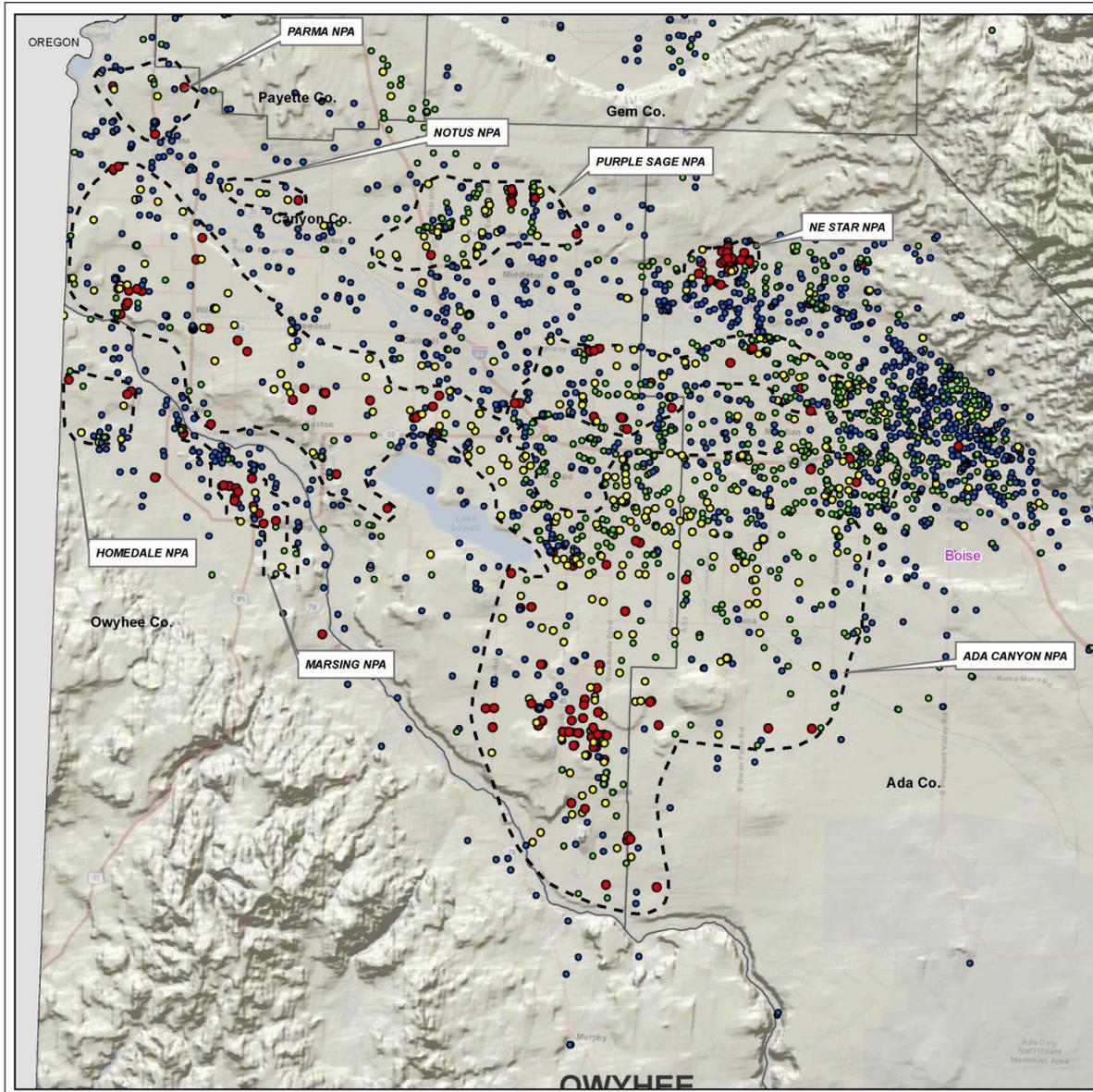
--- 2014 NPAs

□ County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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ADA CANYON, HOMEDALE, MARSING, NE STAR, NOTUS, PARMA AND PURPLE SAGE NITRATE PRIORITY AREAS (NPAs), 2014



Boise Regional Office,
Central Portion, Map 2 of 3



Ada Canyon, Homedale, Marsing, NE Star, Notus, Parma and Purple Sage NPAs, 2014

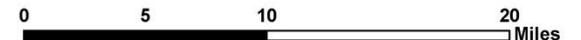
Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

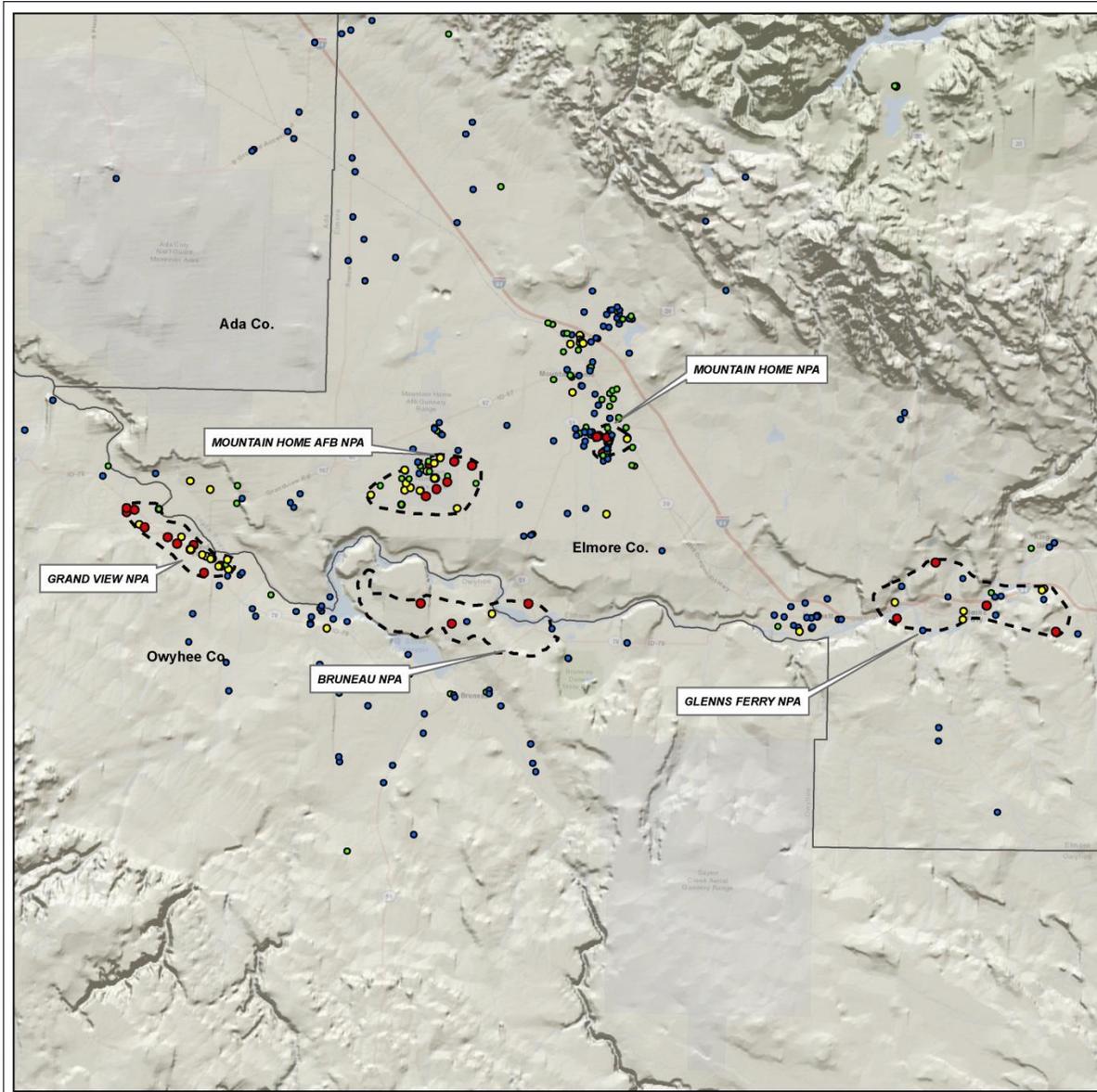
--- 2014 NPAs

□ County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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**BRUNEAU, GLENN'S FERRY, GRAND VIEW,
MOUNTAIN HOME AND MOUNTAIN HOME
AIR FORCE BASE (AFB)
NITRATE PRIORITY AREAS (NPAs), 2014**



Boise Regional Office,
South Portion, Map 3 of 3



**Bruneau, Glenn's Ferry, Grand View,
Mountain Home and Mountain
Home AFB NPAs, 2014**

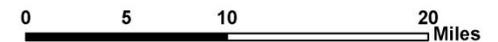
Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

--- 2014 NPAs

□ County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)

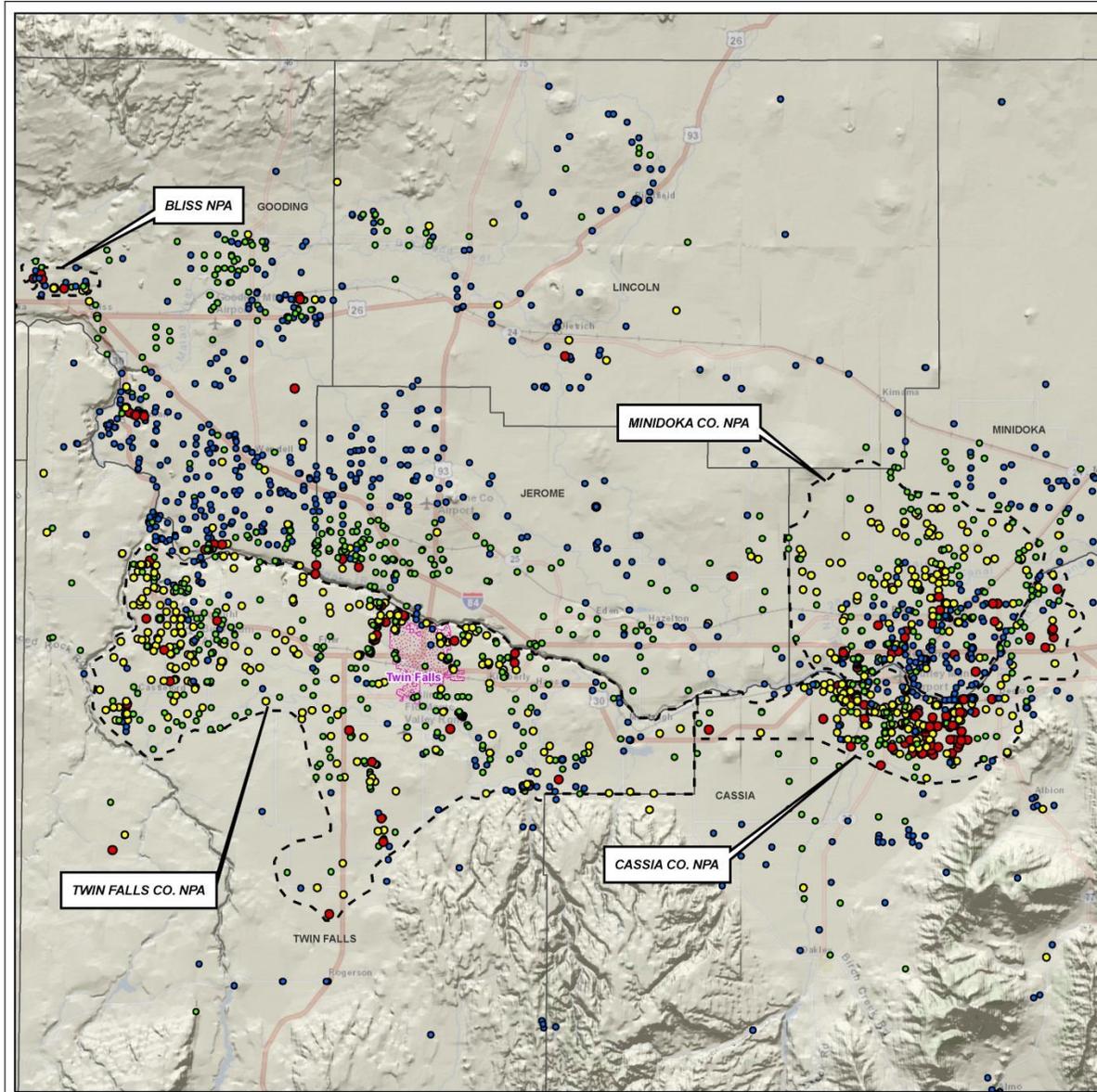


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**2014 Nitrate Priority Areas
Twin Falls Region**

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BLISS, CASSIA CO., MINIDOKA CO., AND TWIN FALLS CO. NITRATE PRIORITY AREAS (NPAs), 2014



Twin Falls Regional Office



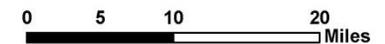
Bliss, Cassia Co., Minidoka Co. and Twin Falls Co. NPAs, 2014

Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

- 2014 NPAs
- Major City Boundaries
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)

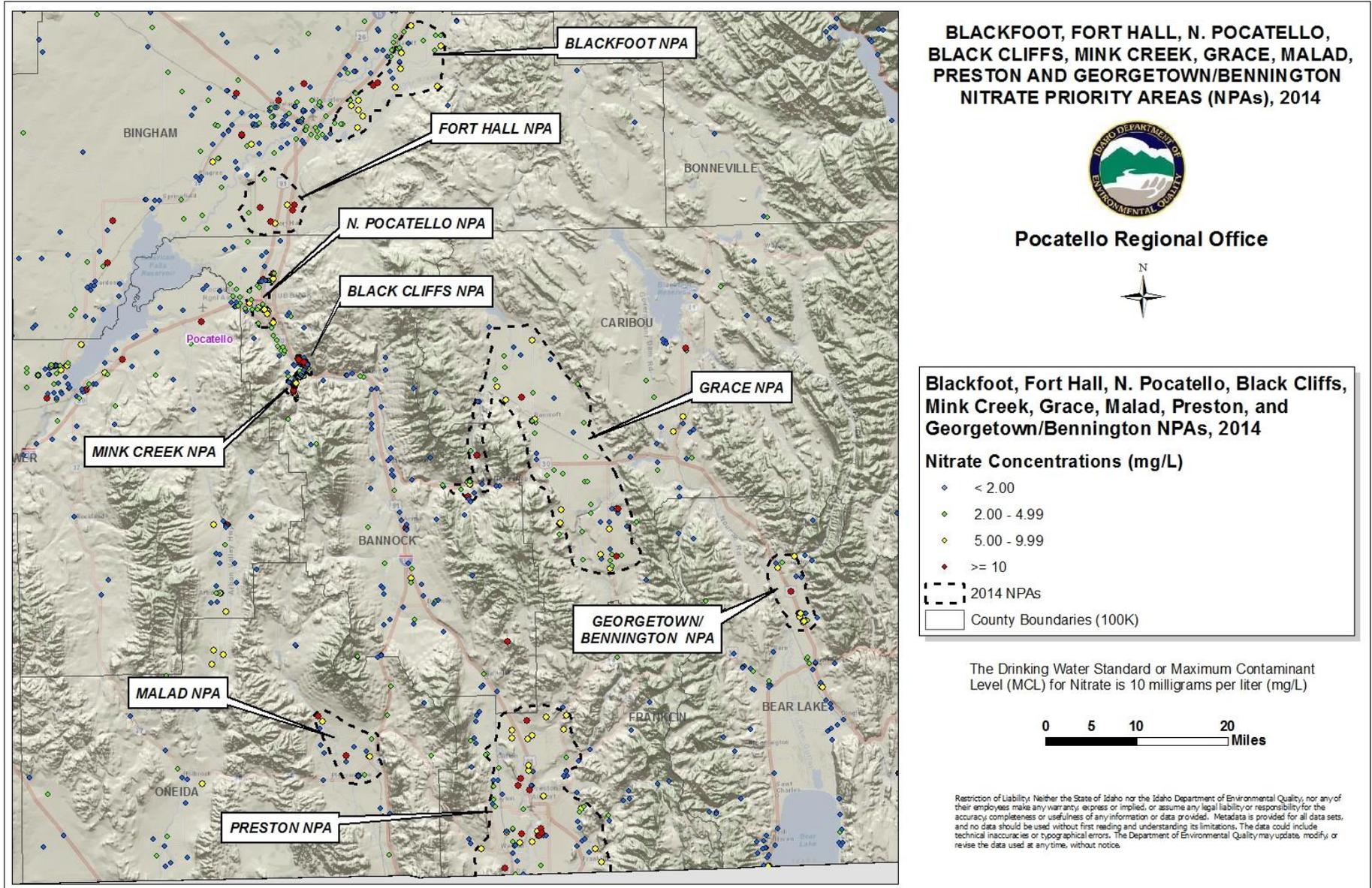


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**2014 Nitrate Priority Areas
Pocatello Region**

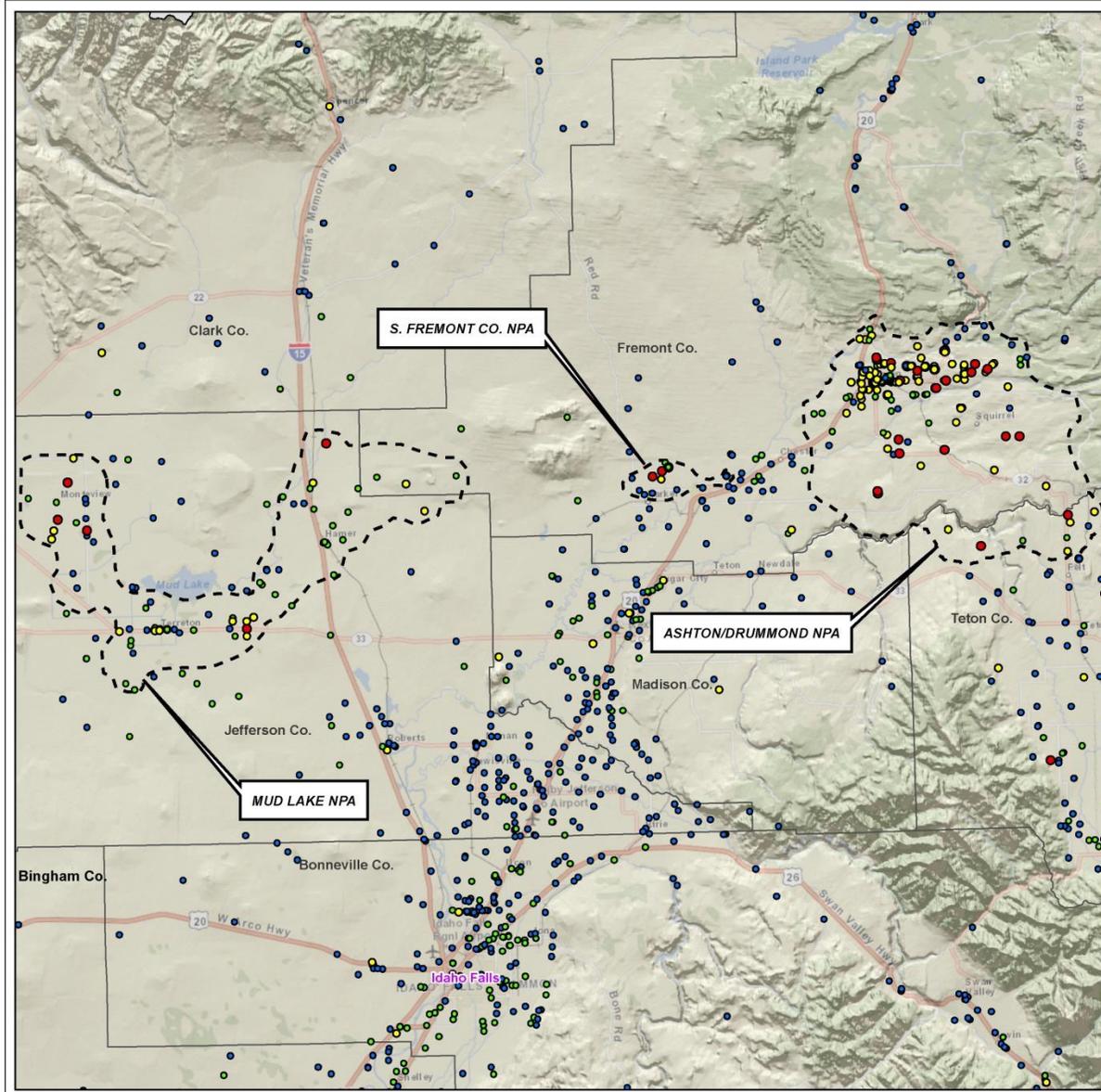
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**2014 Nitrate Priority Areas
Idaho Falls Region**

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ASHTON/DRUMMOND, MUD LAKE, AND S. FREMONT CO. NITRATE PRIORITY AREAS (NPAs), 2014



Idaho Falls Regional Office



Ashton/Drummond, Mud Lake, and S. Fremont Co. NPAs, 2014

Nitrate Concentrations

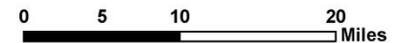
- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

Major City Boundaries

County Boundaries (100K)

2014 NPAs

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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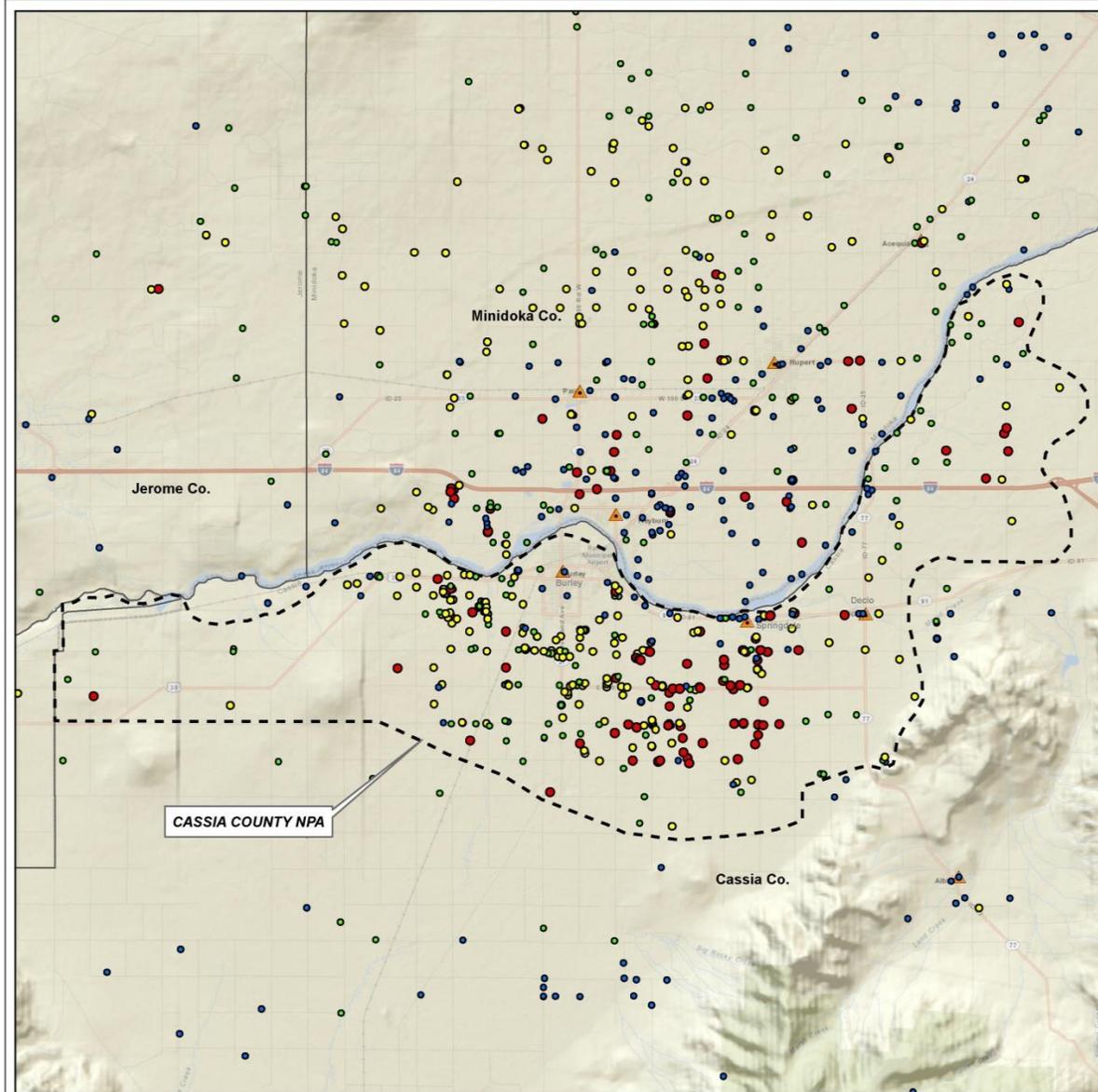
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Appendix B. 2014 Idaho Nitrate Priority Areas In Ranked Order

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**2014 Nitrate Priority Area 1
Cassia County**

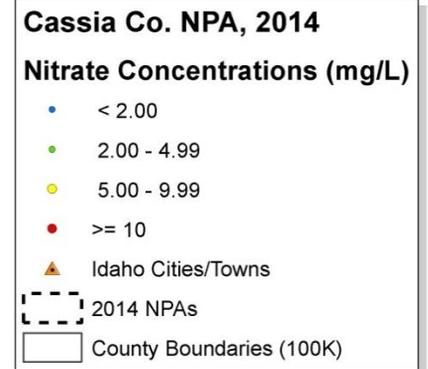
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CASSIA COUNTY NITRATE PRIORITY AREA (NPA), 2014



Twin Falls Regional Office



The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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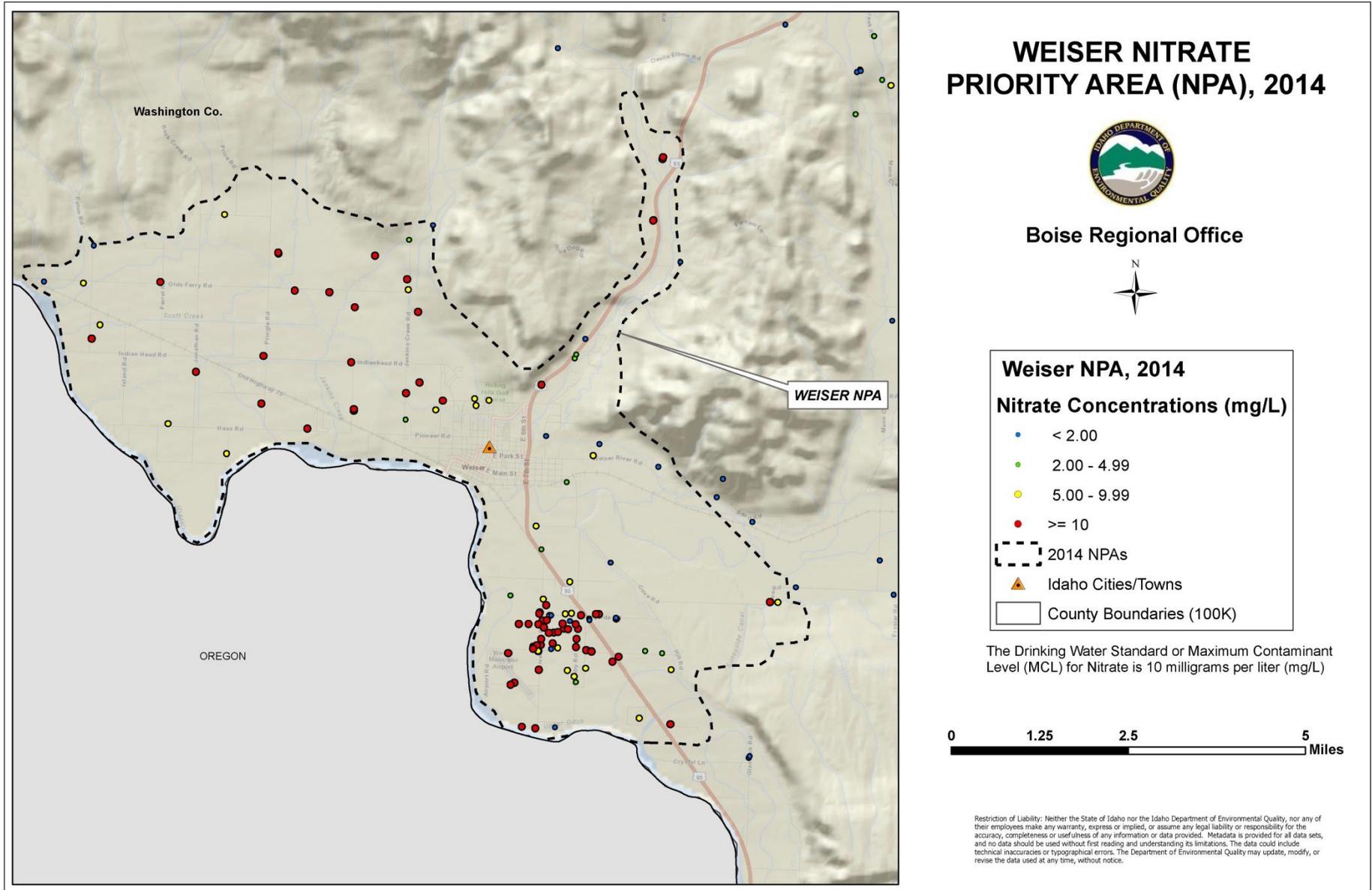
2014 Cassia Co. NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	398		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	40.00		
Middle Nitrate Value (mg/L)	6.43		
Average Nitrate Value (mg/L)	7.16		
Number of Sites less than 2 mg/L	44		
Percent of Sites less than 2 mg/L	10.94		
Number of Sites greater than or equal to 2 mg/L	354		
Percent of Sites greater than or equal to 2 mg/L	89.45		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	98		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	24.62		
Number of Sites greater than or equal to 5 mg/L	256		
Percent of Sites greater than or equal to 5 mg/L	64.32		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	165		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	41.46		
Number of Sites greater than or equal to 10 mg/L	91		
Percent of Sites greater than or equal to 10 mg/L	22.86		
Number of Public Water Systems	27		43
Number of Source Water Delineated Areas Intersecting NPA	16		
Sites sampled by DEQ	71		
Sites sampled by IDWR	116		
Sites sampled by the U.S.G.S.	11		
Sites sampled by ISDA	173	38	
Population within NPA, based on 2010 Census	17,977		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 1		Priority Area Name: Cassia Co.		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
>10,001	3	x	3	17,977
Subtotal			3	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2			
>40	3	x	3	43
Subtotal			3	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3			
>40	4	x	4	91
Subtotal			4	
Population Score Total			10	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.89	2	1.78	
Percent of wells with NO ₃ ≥ 5 mg/L	0.64	5	3.20	
Percent of wells with NO ₃ ≥ 10 mg/L	0.23	10	2.30	
Water Quality Total			7.28	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0	x	10	
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			10	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			27.28	

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**2014 Nitrate Priority Area 2
Weiser**

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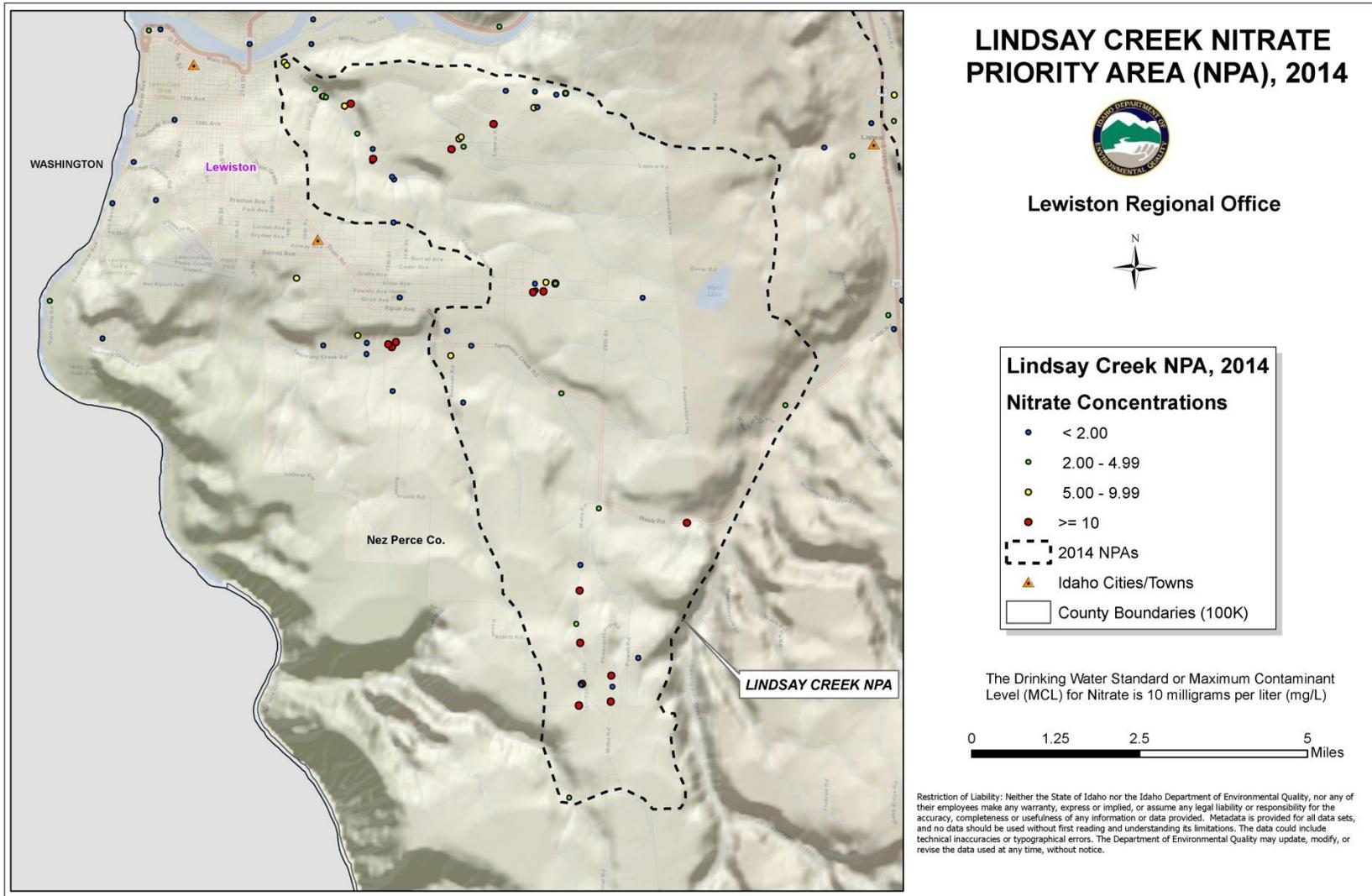
2014 Weiser NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	131		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	43.50		
Middle Nitrate Value (mg/L)	12.00		
Average Nitrate Value (mg/L)	13.21		
Number of Sites less than 2 mg/L	15		
Percent of Sites less than 2 mg/L	11.45		
Number of Sites greater than or equal to 2 mg/L	116		
Percent of Sites greater than or equal to 2 mg/L	88.55		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	9		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	6.87		
Number of Sites greater than or equal to 5 mg/L	107		
Percent of Sites greater than or equal to 5 mg/L	81.68		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	30		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	22.90		
Number of Sites greater than or equal to 10 mg/L	77		
Percent of Sites greater than or equal to 10 mg/L	58.78		
Number of Public Water Systems	8		23
Number of Source Water Delineated Areas Intersecting NPA	15		
Sites sampled by DEQ	32		
Sites sampled by IDWR	9		
Sites sampled by the U.S.G.S.	10		
Sites sampled by ISDA	72	1	
Population within NPA, based on 2010 Census	7501		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 2		Priority Area Name: Weiser		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	7501
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	23
>40	3			
Subtotal			2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3			
>40	4	x	4	77
Subtotal			4	
Population Score Total			8	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.89	2	1.78	
Percent of wells with NO ₃ ≥ 5 mg/L	0.82	5	4.10	
Percent of wells with NO ₃ ≥ 10 mg/L	0.59	10	5.90	
Water Quality Total			11.78	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			24.78	

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**2014 Nitrate Priority Area 3
Lindsay Creek**

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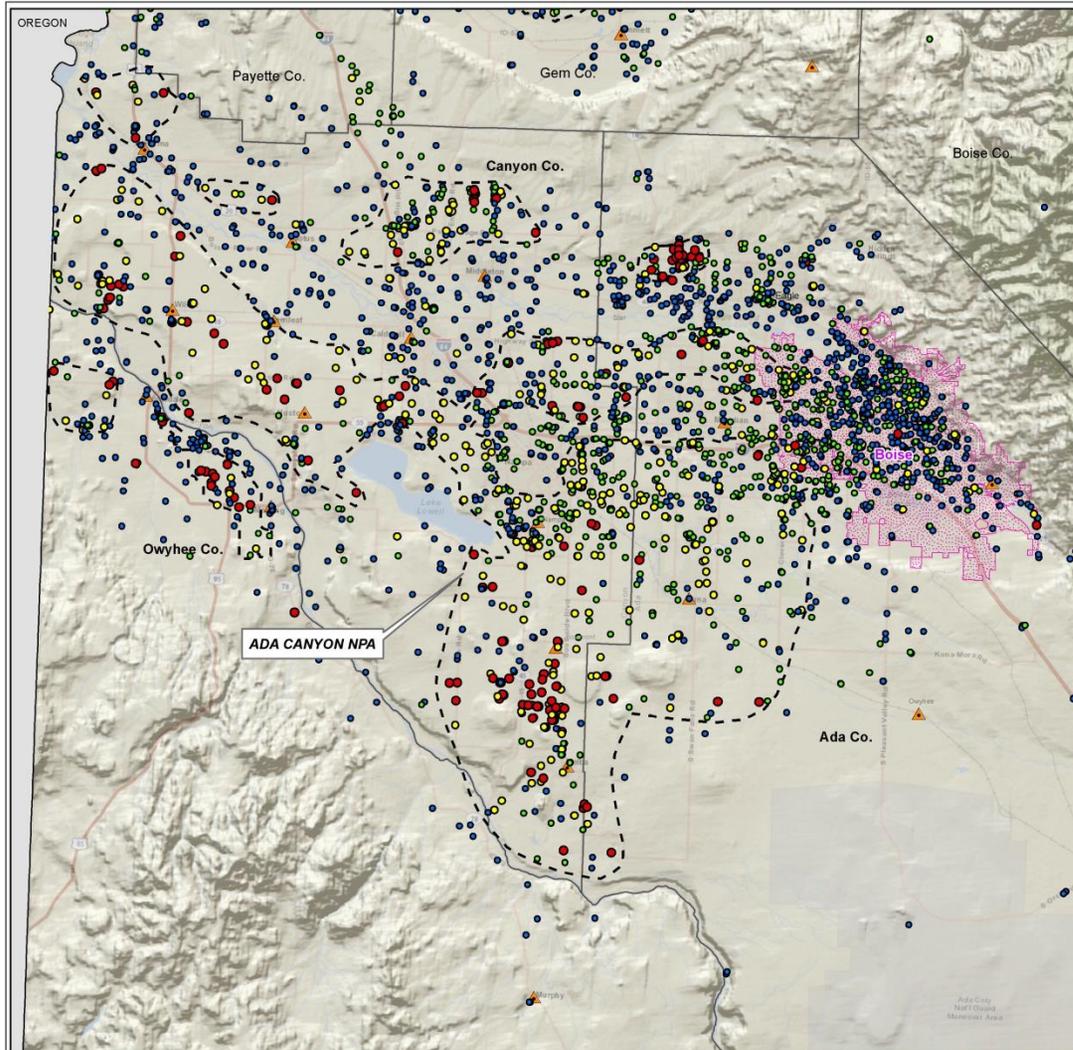
2014 Lindsay Creek NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	67		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	21.00		
Middle Nitrate Value (mg/L)	4.12		
Average Nitrate Value (mg/L)	5.64		
Number of Sites less than 2 mg/L	25		
Percent of Sites less than 2 mg/L	37.31		
Number of Sites greater than or equal to 2 mg/L	42		
Percent of Sites greater than or equal to 2 mg/L	62.69		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	13		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	19.40		
Number of Sites greater than or equal to 5 mg/L	29		
Percent of Sites greater than or equal to 5 mg/L	43.28		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	12		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	17.91		
Number of Sites greater than or equal to 10 mg/L	17		
Percent of Sites greater than or equal to 10 mg/L	25.37		
Number of Public Water Systems	6		17
Number of Source Water Delineated Areas Intersecting NPA	11		
Sites sampled by DEQ	42		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	17		
Population within NPA, based on 2010 Census	2269		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 3		Priority Area Name: Lindsay Creek		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	2269
>10,001	3			
		Subtotal	2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	17
21 to 40	2			
>40	3			
		Subtotal	1	
c) Number of Wells with NO₃≥10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	17
21 to 40	3			
>40	4			
		Subtotal	2	
		Population Score Total	5	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥2 mg/L	0.63	2	1.26	
Percent of wells with NO ₃ ≥5 mg/L	0.43	5	2.15	
Percent of wells with NO ₃ ≥ 10 mg/L	0.25	10	2.50	
		Water Quality Total	5.91	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0	x	10	
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0			
		Trend Score	10	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
		Beneficial use score	0	
		Max Possible Score = 1		
		Total Score	20.91	

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**2014 Nitrate Priority Area 4
Ada Canyon**

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ADA CANYON NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



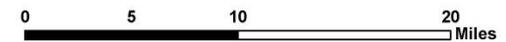
Ada Canyon NPA, 2014

Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10
- ▲ Idaho Cities/Towns

- 2014 NPAs
- ▨ Major City Boundaries
- ▭ County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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2014 Ada Canyon NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	1092		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	49.80		
Middle Nitrate Value (mg/L)	4.07		
Average Nitrate Value (mg/L)	5.29		
Number of Sites less than 2 mg/L	279		
Percent of Sites less than 2 mg/L	25.55		
Number of Sites greater than or equal to 2 mg/L	813		
Percent of Sites greater than or equal to 2 mg/L	74.45		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	368		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	33.70		
Number of Sites greater than or equal to 5 mg/L	445		
Percent of Sites greater than or equal to 5 mg/L	40.75		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	307		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	28.11		
Number of Sites greater than or equal to 10 mg/L	138		
Percent of Sites greater than or equal to 10 mg/L	12.64		
Number of Public Water Systems	160		303
Number of Source Water Delineated Areas Intersecting NPA	143		
Sites sampled by DEQ	541		
Sites sampled by IDWR	97		
Sites sampled by the U.S.G.S.	84		
Sites sampled by ISDA	210	73	
Population within NPA, based on 2010 Census	198458		

*Included with ISDA sampled sites

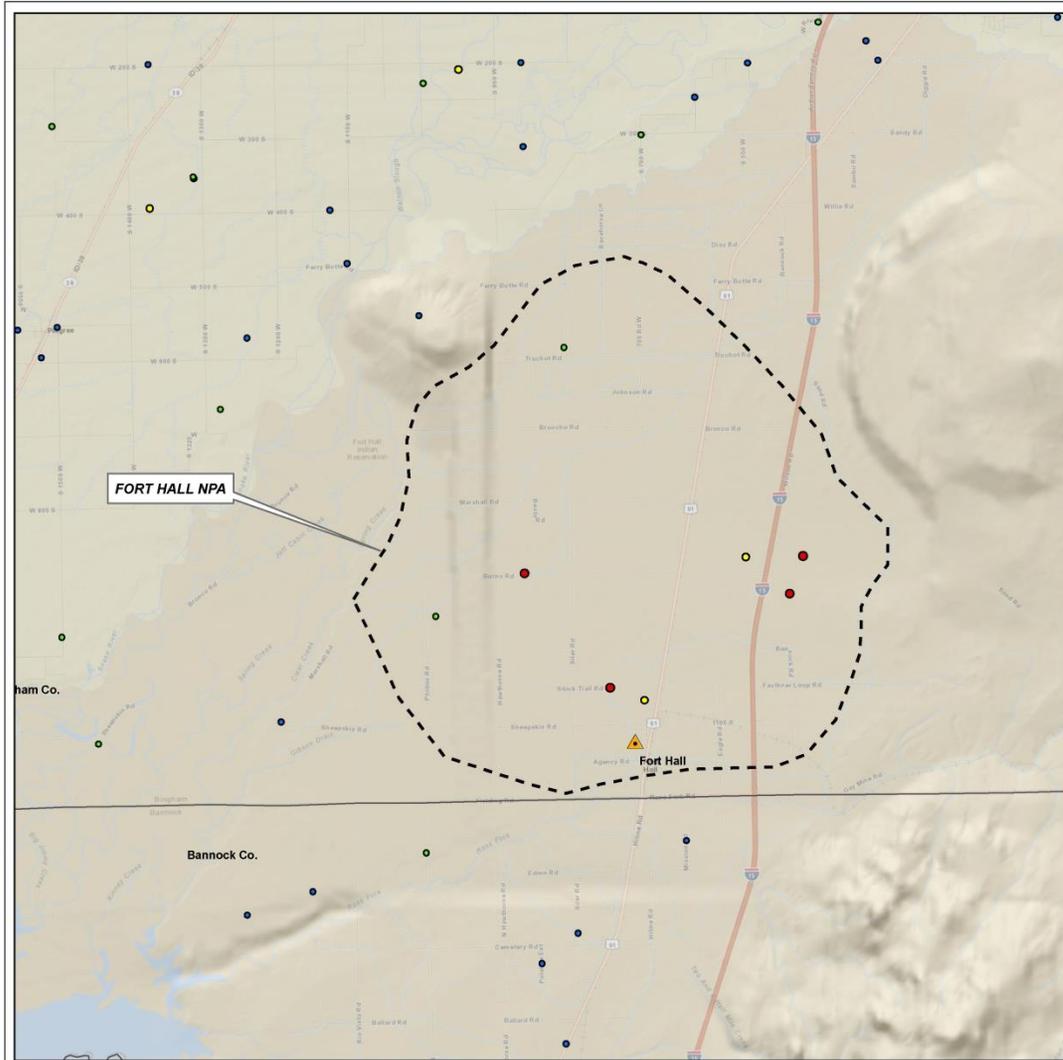
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA

Priority Area Number: 4		Priority Area Name: Ada Canyon		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
>10,001	3	x	3	198,458
Subtotal			3	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2			
>40	3	x	3	303
Subtotal			6	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3			
>40	4	x	4	138
Subtotal			4	
Population Score Total			10	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.74	2	1.48	
Percent of wells with NO ₃ ≥ 5 mg/L	0.41	5	2.05	
Percent of wells with NO ₃ ≥ 10 mg/L	0.13	10	1.30	
Water Quality Total			4.83	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5.00	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5.00	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			19.83	

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**2014 Nitrate Priority Area 5
Fort Hall**

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FORT HALL NITRATE PRIORITY AREA (NPA), 2014



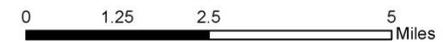
Pocatello Regional Office



Fort Hall NPA, 2014 Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10
- ▲ Idaho Cities/Towns
- 2014 NPAs
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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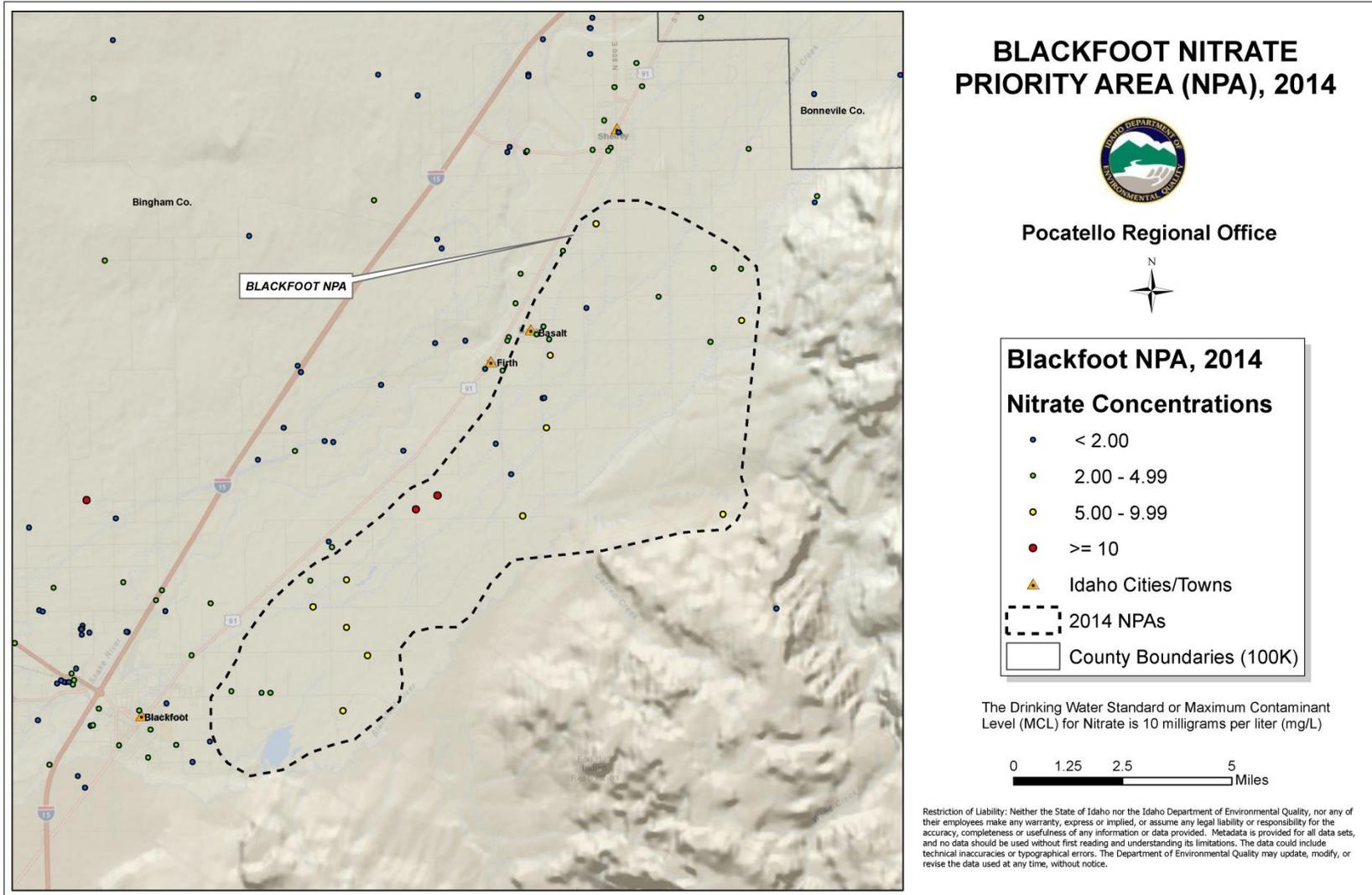
2014 Fort Hall NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	8		
Minimum Nitrate Value (mg/L)	2.47		
Maximum Nitrate Value (mg/L)	23.60		
Middle Nitrate Value (mg/L)	12.35		
Average Nitrate Value (mg/L)	12.76		
Number of Sites less than 2 mg/L	0		
Percent of Sites less than 2 mg/L	0.00		
Number of Sites greater than or equal to 2 mg/L	8		
Percent of Sites greater than or equal to 2 mg/L	100.00		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	2		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	25.00		
Number of Sites greater than or equal to 5 mg/L	6		
Percent of Sites greater than or equal to 5 mg/L	75.00		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	2		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	25.00		
Number of Sites greater than or equal to 10 mg/L	4		
Percent of Sites greater than or equal to 10 mg/L	50.00		
Number of Public Water Systems	0		5
Number of Source Water Delineated Areas Intersecting NPA	5		
Sites sampled by DEQ	0		
Sites sampled by IDWR	0		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	1		
Population within NPA, based on 2010 Census	1780		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 5		Priority Area Name: Fort Hall		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	1780
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	5
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	4
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	1.00	2	2.00	
Percent of wells with NO ₃ ≥ 5 mg/L	0.75	5	3.75	
Percent of wells with NO ₃ ≥ 10 mg/L	0.50	10	5.00	
Water Quality Total			10.75	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			19.75	

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**2014 Nitrate Priority Area 6
Blackfoot**

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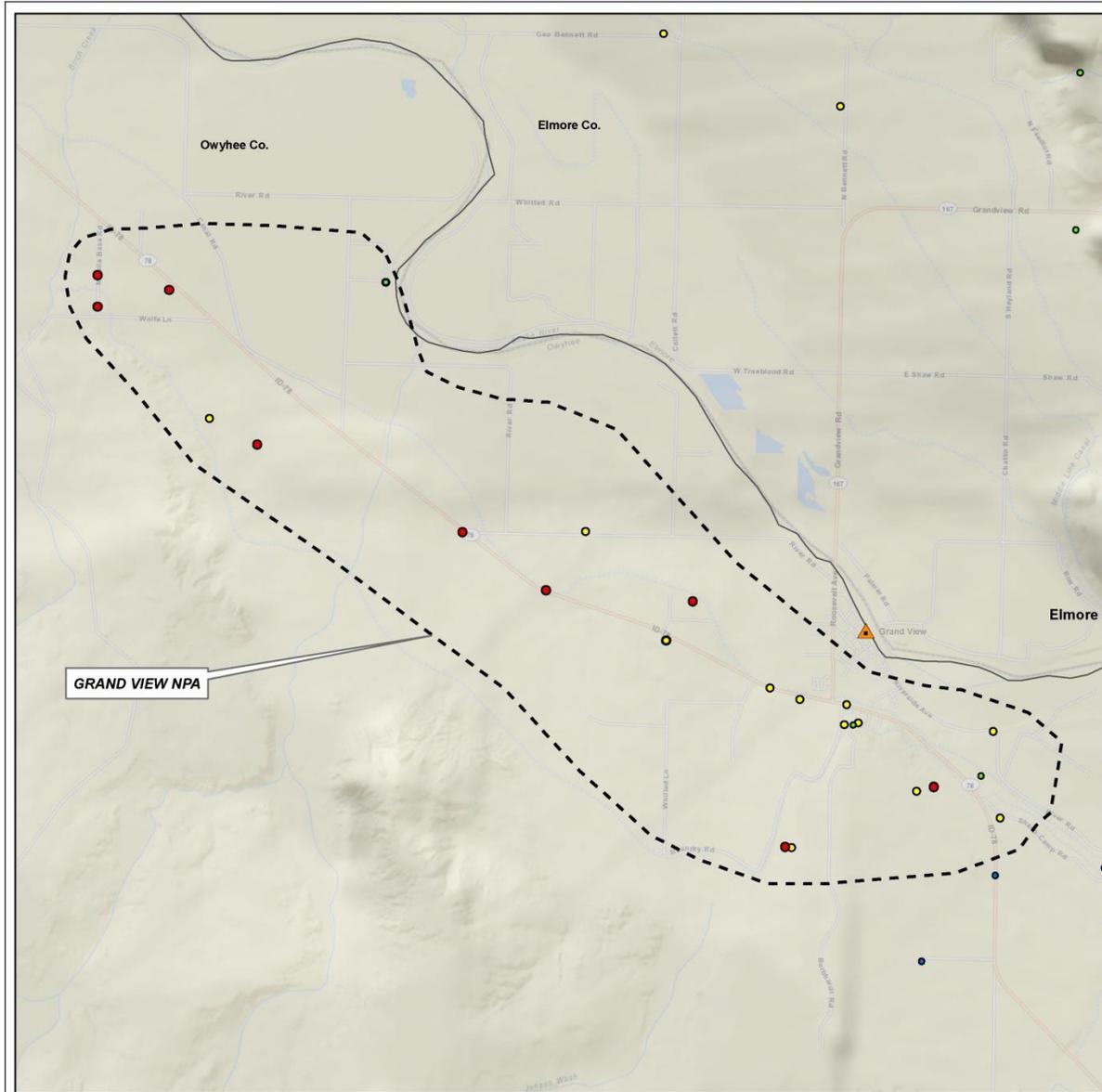
2014 Blackfoot NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	30		
Minimum Nitrate Value (mg/L)	0.22		
Maximum Nitrate Value (mg/L)	16.00		
Middle Nitrate Value (mg/L)	4.03		
Average Nitrate Value (mg/L)	4.68		
Number of Sites less than 2 mg/L	5		
Percent of Sites less than 2 mg/L	16.67		
Number of Sites greater than or equal to 2 mg/L	25		
Percent of Sites greater than or equal to 2 mg/L	83.33		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	12		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	40.00		
Number of Sites greater than or equal to 5 mg/L	13		
Percent of Sites greater than or equal to 5 mg/L	43.33		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	11		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	36.67		
Number of Sites greater than or equal to 10 mg/L	2		
Percent of Sites greater than or equal to 10 mg/L	6.67		
Number of Public Water Systems	4		29
Number of Source Water Delineated Areas Intersecting NPA	25		
Sites sampled by DEQ	0		
Sites sampled by IDWR	6		
Sites sampled by the U.S.G.S.	3		
Sites sampled by ISDA	17	15	
Population within NPA, based on 2010 Census	3218		
*Included with ISDA sampled sites			
**Sum of Source Water Delinetions intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 6		Priority Area Name: Blackfoot		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	3218
>10,001	3			
		Subtotal	2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	29
>40	3			
		Subtotal	2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	2
6 to 20	2			
21 to 40	3			
>40	4			
		Subtotal	1	
		Population Score Total	5	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.83	2	1.66	
Percent of wells with NO ₃ ≥ 5 mg/L	0.43	5	2.15	
Percent of wells with NO ₃ ≥ 10 mg/L	0.07	10	0.70	
		Water Quality Total	4.51	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0	x	10	
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0			
		Trend Score	10	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
		Beneficial use score	0	
		Max Possible Score = 1		
		Total Score	19.51	

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**2014 Nitrate Priority Area 7
Grand View**

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GRAND VIEW NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



Grand View NPA, 2014

Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10
- ▲ Idaho Cities/Towns
- 2014 NPAs
- County Boundaries (100K)



The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)

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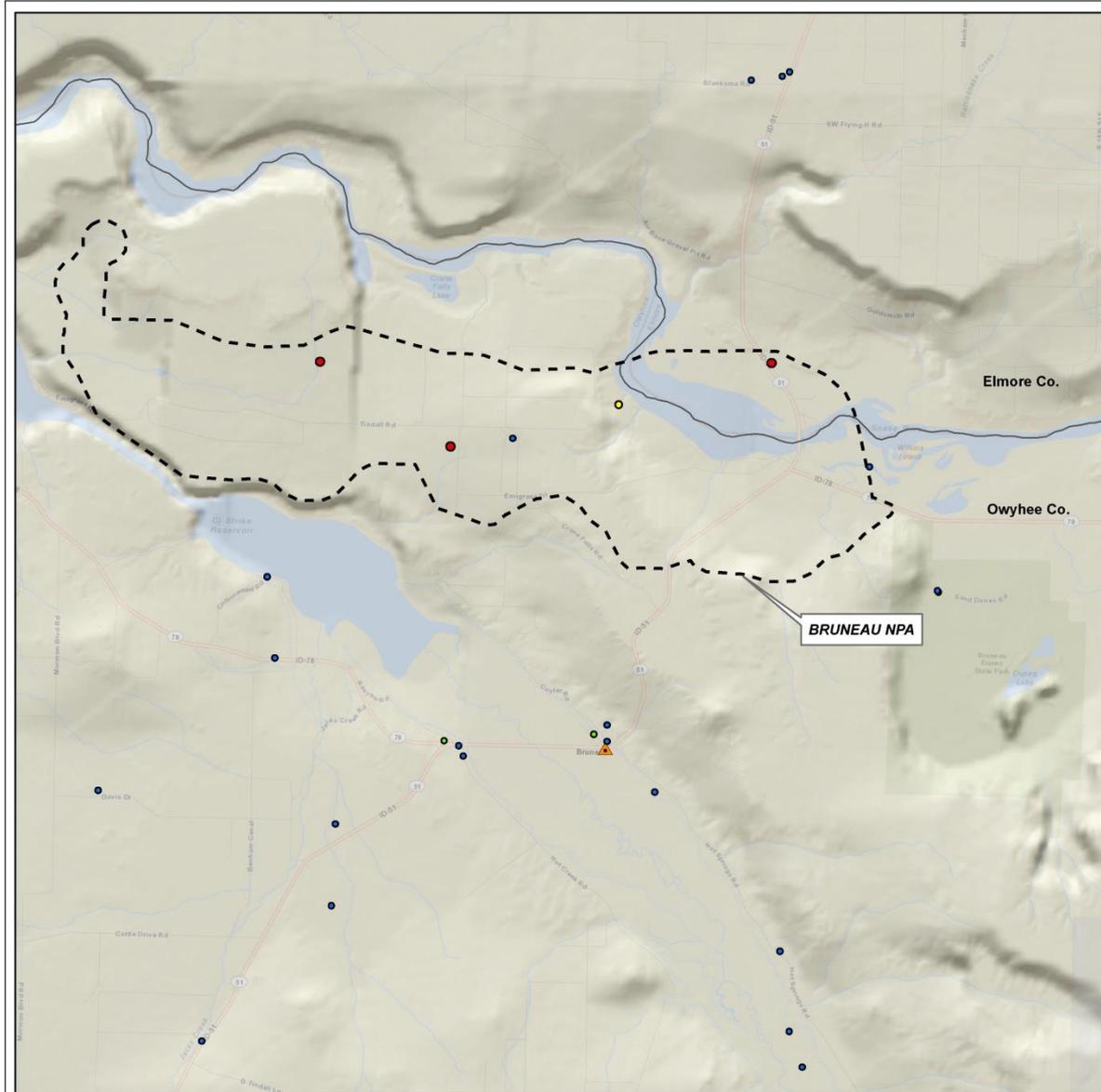
2014 Grand View NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	35		
Minimum Nitrate Value (mg/L)	2.12		
Maximum Nitrate Value (mg/L)	100.00		
Middle Nitrate Value (mg/L)	9.00		
Average Nitrate Value (mg/L)	12.19		
Number of Sites less than 2 mg/L	0		
Percent of Sites less than 2 mg/L	0		
Number of Sites greater than or equal to 2 mg/L	35		
Percent of Sites greater than or equal to 2 mg/L	100.00		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	5		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	14.29		
Number of Sites greater than or equal to 5 mg/L	30		
Percent of Sites greater than or equal to 5 mg/L	85.71		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	17		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	48.57		
Number of Sites greater than or equal to 10 mg/L	13		
Percent of Sites greater than or equal to 10 mg/L	37.14		
Number of Public Water Systems	2		2
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	16		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	16		
Population within NPA, based on 2010 Census	549		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 7		Priority Area Name: Grand View		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	549
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	2
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	13
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration		
		Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	1.00	2	2.00	
Percent of wells with NO ₃ ≥ 5 mg/L	0.86	5	4.30	
Percent of wells with NO ₃ ≥ 10 mg/L	0.37	10	3.70	
Water Quality Total			10.00	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			19.00	

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**2014 Nitrate Priority Area 8
Bruneau**

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BRUNEAU NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office

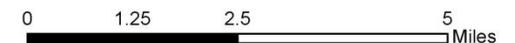


Bruneau NPA, 2014

Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10
- ▲ Idaho Cities/Towns
- 2014 NPAs
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level for Nitrate (NO₃) is 10 milligrams per liter (mg/L)



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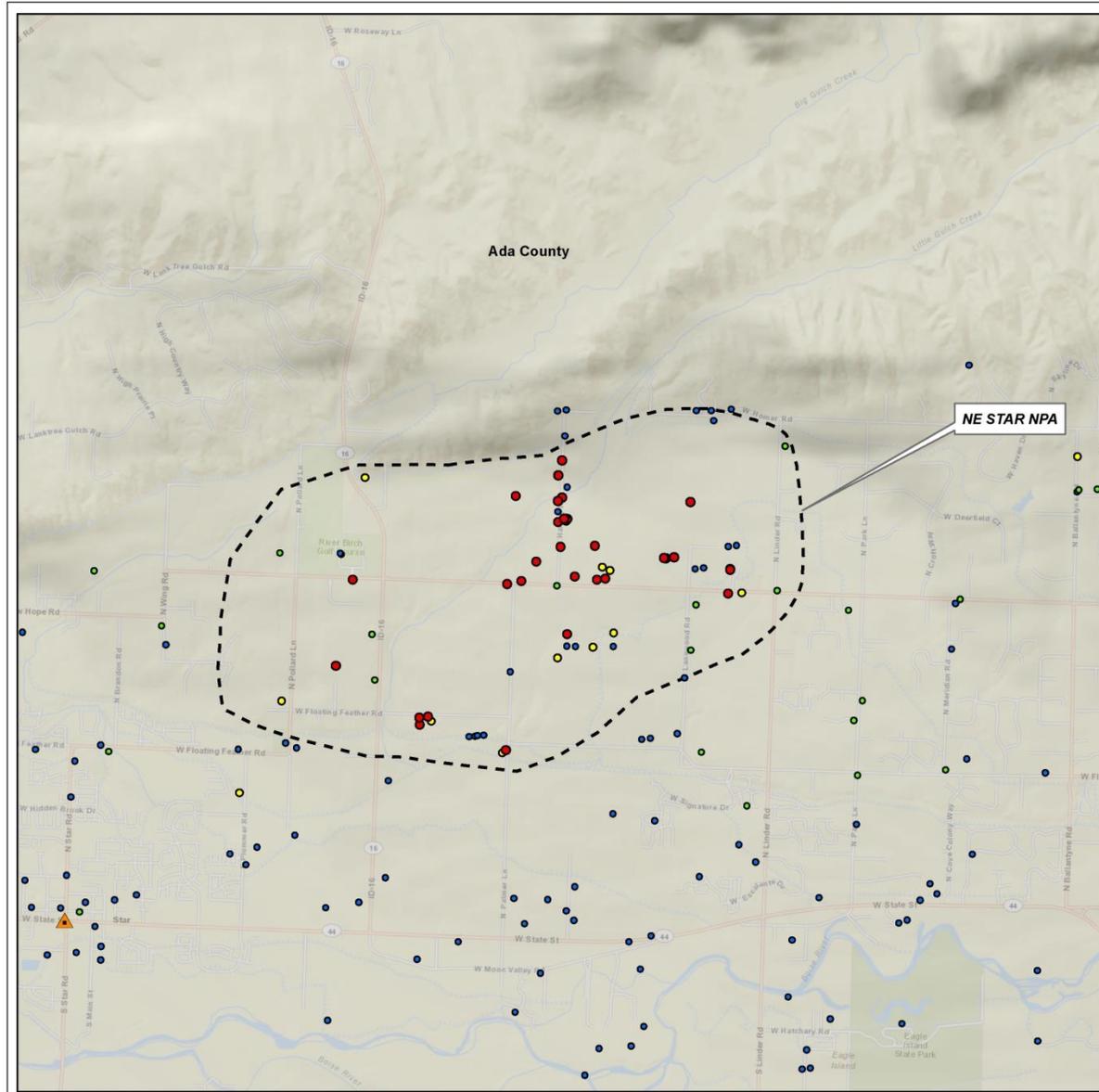
2014 Bruneau NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	5		
Minimum Nitrate Value (mg/L)	0.20		
Maximum Nitrate Value (mg/L)	110.00		
Middle Nitrate Value (mg/L)	21.80		
Average Nitrate Value (mg/L)	33.12		
Number of Sites less than 2 mg/L	1		
Percent of Sites less than 2 mg/L	20.00		
Number of Sites greater than or equal to 2 mg/L	4		
Percent of Sites greater than or equal to 2 mg/L	80.00		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	0		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	0.00		
Number of Sites greater than or equal to 5 mg/L	4		
Percent of Sites greater than or equal to 5 mg/L	80.00		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	1		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	20.00		
Number of Sites greater than or equal to 10 mg/L	3		
Percent of Sites greater than or equal to 10 mg/L	60.00		
Number of Public Water Systems	0		0
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	0		
Sites sampled by IDWR	3		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	1	1	
Population within NPA, based on 2010 Census	39		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 8		Priority Area Name: Bruneau		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	39
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0	x	0	
1 to 20	1			
21 to 40	2			
>40	3			
Subtotal			0	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	3
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			2	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.80	2	1.60	
Percent of wells with NO ₃ ≥ 5 mg/L	0.80	5	4.00	
Percent of wells with NO ₃ ≥ 10 mg/L	0.60	10	6.00	
Water Quality Total			11.60	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5.00	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5.00	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			18.60	

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**2014 Nitrate Priority Area 9
NE Star**

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NE STAR NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



NE Star NPA, 2014

Nitrate Concentrations (mg/L)

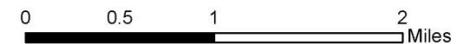
- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

 2014 NPAs

▲ Idaho Cities/Towns

 County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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2014 NE Star NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	88		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	54.00		
Middle Nitrate Value (mg/L)	7.49		
Average Nitrate Value (mg/L)	11.35		
Number of Sites less than 2 mg/L	27		
Percent of Sites less than 2 mg/L	30.68		
Number of Sites greater than or equal to 2 mg/L	61		
Percent of Sites greater than or equal to 2 mg/L	69.32		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	10		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	11.36		
Number of Sites greater than or equal to 5 mg/L	51		
Percent of Sites greater than or equal to 5 mg/L	57.95		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	13		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	14.77		
Number of Sites greater than or equal to 10 mg/L	38		
Percent of Sites greater than or equal to 10 mg/L	43.18		
Number of Public Water Systems	2		6
Number of Source Water Delineated Areas Intersecting NPA	4		
Sites sampled by DEQ	45		
Sites sampled by IDWR	3		
Sites sampled by the U.S.G.S.	3		
Sites sampled by ISDA	35		
Population within NPA, based on 2010 Census	297		

*Included with ISDA sampled sites

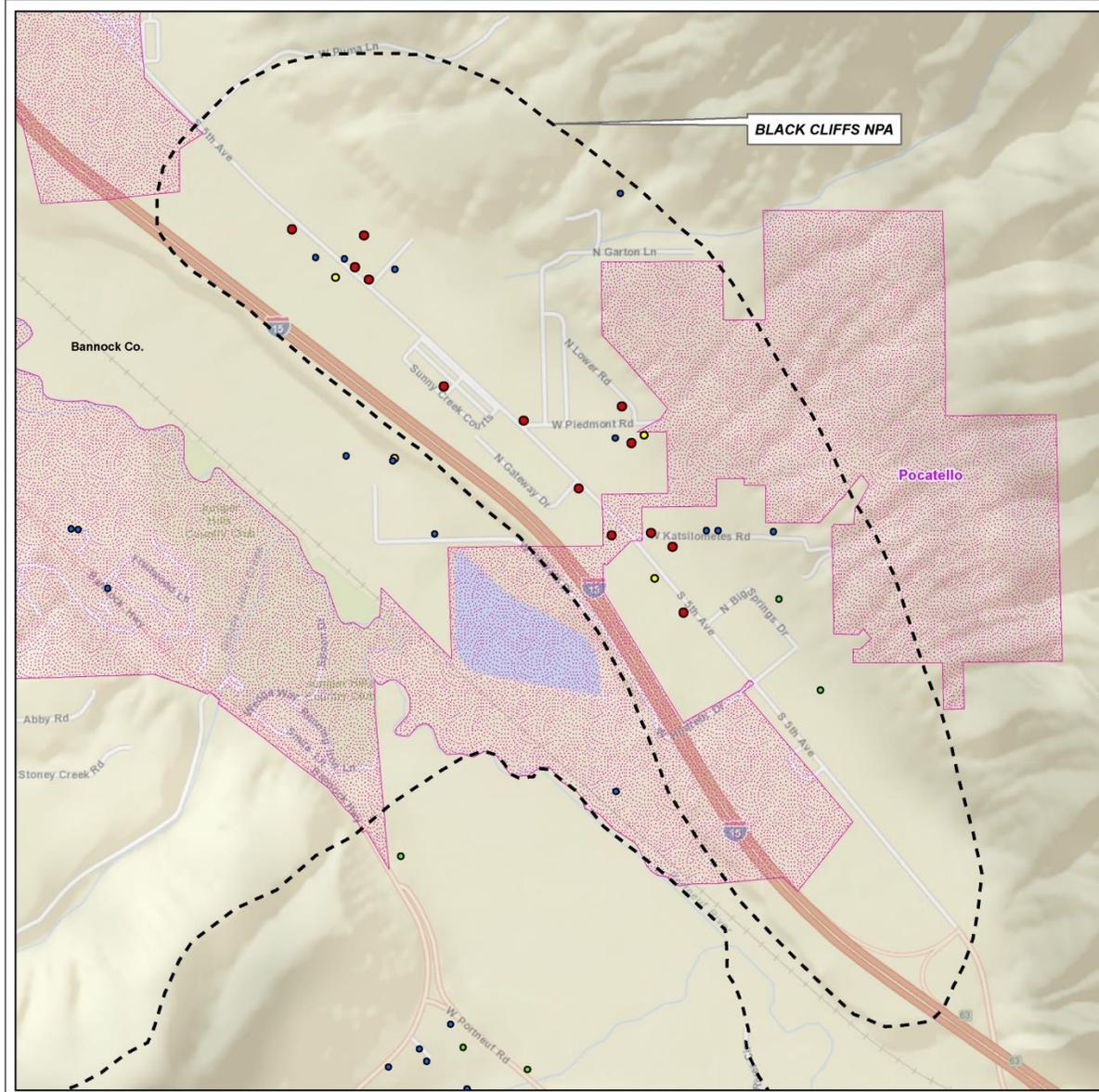
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA

Priority Area Number: 9		Priority Area Name: NE Star		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	297
1000 to 10,000	2			
>10,001	3			
		Subtotal	1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	6
21 to 40	2			
>40	3			
		Subtotal	1	
c) Number of Wells with NO₃≥10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3	x	3	38
>40	4			
		Subtotal	3	
		Population Score Total	5	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥2 mg/L	0.69	2	1.38	
Percent of wells with NO ₃ ≥5 mg/L	0.58	5	2.90	
Percent of wells with NO ₃ ≥ 10 mg/L	0.43	10	4.30	
		Water Quality Total	8.58	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
		Trend Score	5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
		Beneficial use score	0	
		Max Possible Score = 1		
		Total Score	18.58	

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**2014 Nitrate Priority Area 10
Black Cliffs**

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BLACK CLIFFS NITRATE PRIORITY AREA (NPA), 2014



Pocatello Regional Office



Black Cliffs NPA, 2014

Nitrate Concentrations

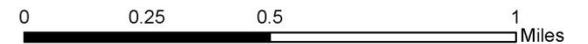
- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

--- 2014 NPAs

□ County Boundaries (100K)

▨ Major City Boundary

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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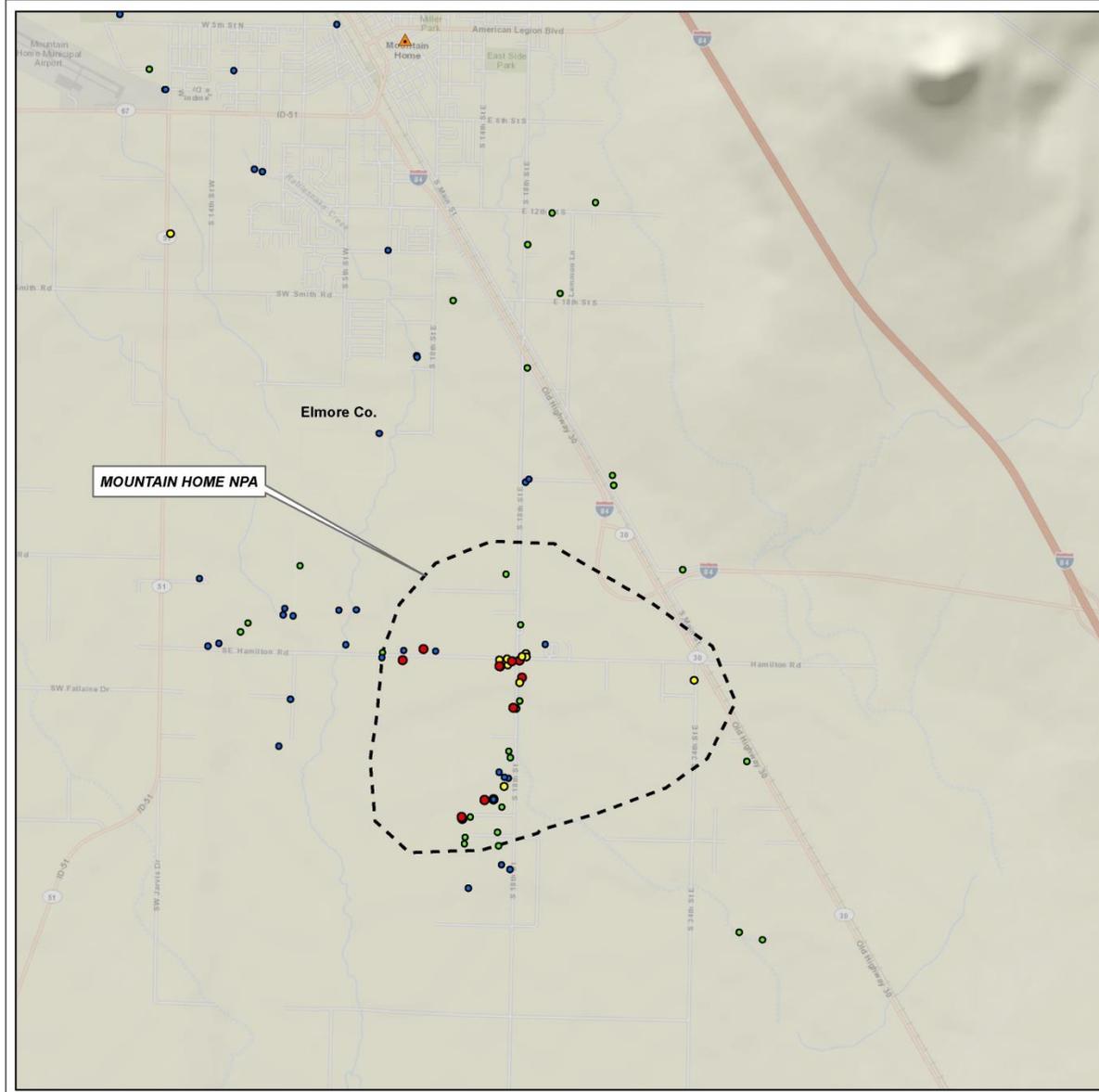
2014 Black Cliffs NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	26		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	28.68		
Middle Nitrate Value (mg/L)	9.75		
Average Nitrate Value (mg/L)	10.61		
Number of Sites less than 2 mg/L	8		
Percent of Sites less than 2 mg/L	30.77		
Number of Sites greater than or equal to 2 mg/L	18		
Percent of Sites greater than or equal to 2 mg/L	69.23		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	2		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	7.69		
Number of Sites greater than or equal to 5 mg/L	16		
Percent of Sites greater than or equal to 5 mg/L	61.54		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	3		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	11.54		
Number of Sites greater than or equal to 10 mg/L	13		
Percent of Sites greater than or equal to 10 mg/L	50.00		
Number of Public Water Systems	1		18
Number of Source Water Delineated Areas Intersecting NPA	17		
Sites sampled by DEQ	26		
Sites sampled by IDWR	0		
Sites sampled by the U.S.G.S.	0		
Sites sampled by ISDA	0		
Population within NPA, based on 2010 Census	493		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 10		Priority Area Name: Black Cliffs		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	493
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	18
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃≥10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	13
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥2 mg/L	0.69	2	1.38	
Percent of wells with NO ₃ ≥5 mg/L	0.62	5	3.10	
Percent of wells with NO ₃ ≥ 10 mg/L	0.50	10	5.00	
Water Quality Total			9.48	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			18.48	

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**2014 Nitrate Priority Area 11
Mountain Home**

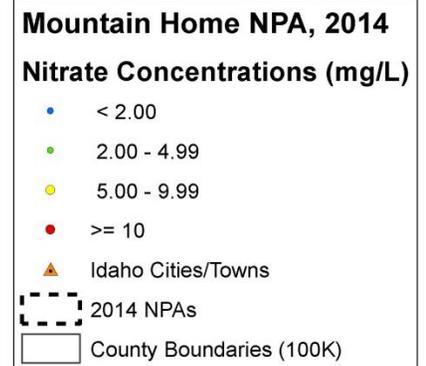
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MOUNTAIN HOME NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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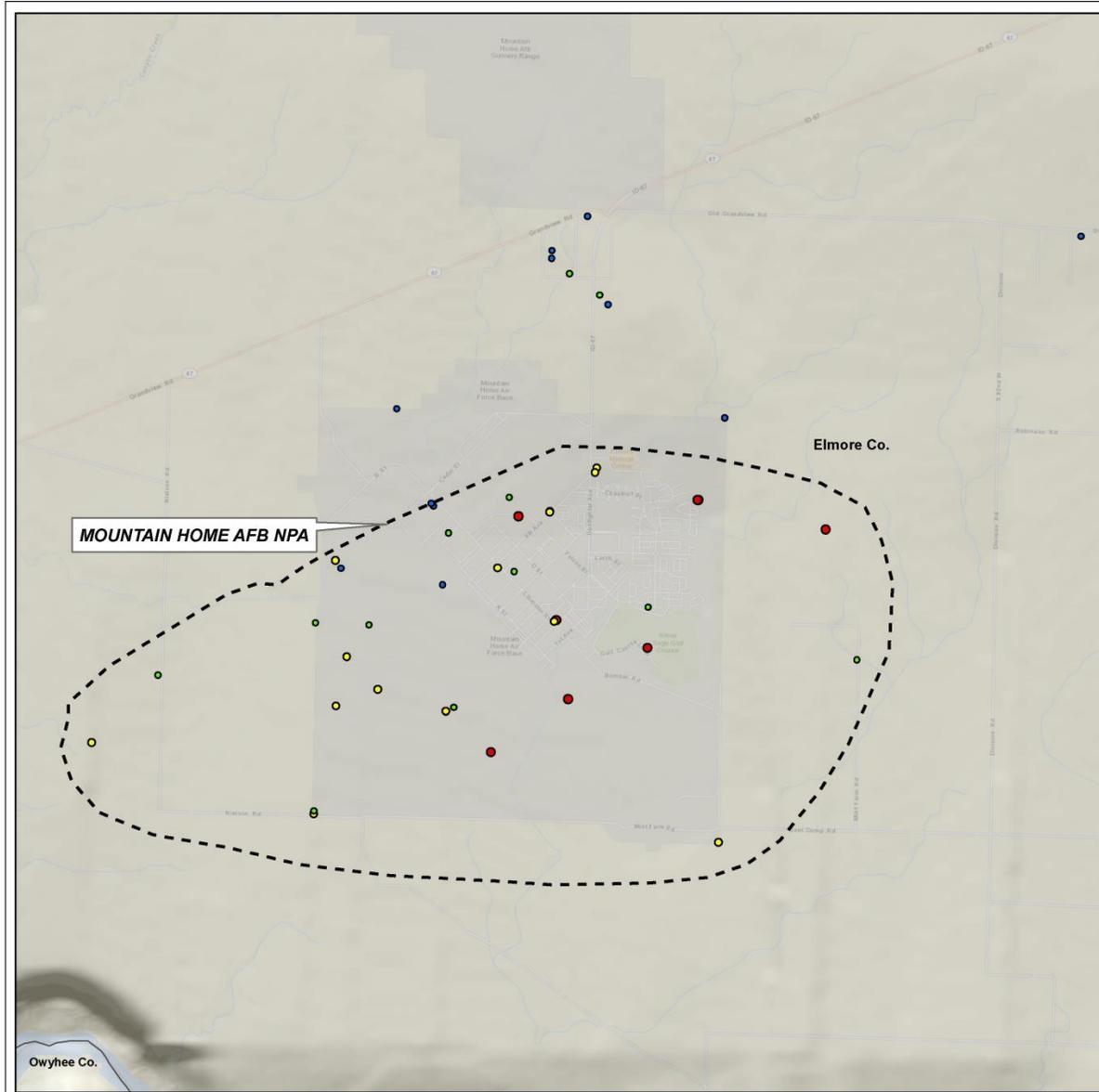
2014 Mountain Home NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	45		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	40.00		
Middle Nitrate Value (mg/L)	8.07		
Average Nitrate Value (mg/L)	11.17		
Number of Sites less than 2 mg/L	7		
Percent of Sites less than 2 mg/L	15.56		
Number of Sites greater than or equal to 2 mg/L	38		
Percent of Sites greater than or equal to 2 mg/L	84.44		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	12		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	26.67		
Number of Sites greater than or equal to 5 mg/L	26		
Percent of Sites greater than or equal to 5 mg/L	57.78		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	10		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	22.22		
Number of Sites greater than or equal to 10 mg/L	16		
Percent of Sites greater than or equal to 10 mg/L	35.56		
Number of Public Water Systems	3		5
Number of Source Water Delineated Areas Intersecting NPA	2		
Sites sampled by DEQ	15		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	0		
Sites sampled by ISDA	26		
Population within NPA, based on 2010 Census	406		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 11		Priority Area Name: Mountain Home		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	406
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	5
21 to 40	2			
>40	3			
Subtotal				
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	16
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.84	2	1.68	
Percent of wells with NO ₃ ≥ 5 mg/L	0.58	5	2.90	
Percent of wells with NO ₃ ≥ 10 mg/L	0.36	10	3.60	
Water Quality Total			8.18	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			17.18	

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**2014 Nitrate Priority Area 12
Mountain Home AFB**

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MOUNTAIN HOME AFB NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



Mountain Home AFB NPA, 2014 Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

- 2014 NPAs
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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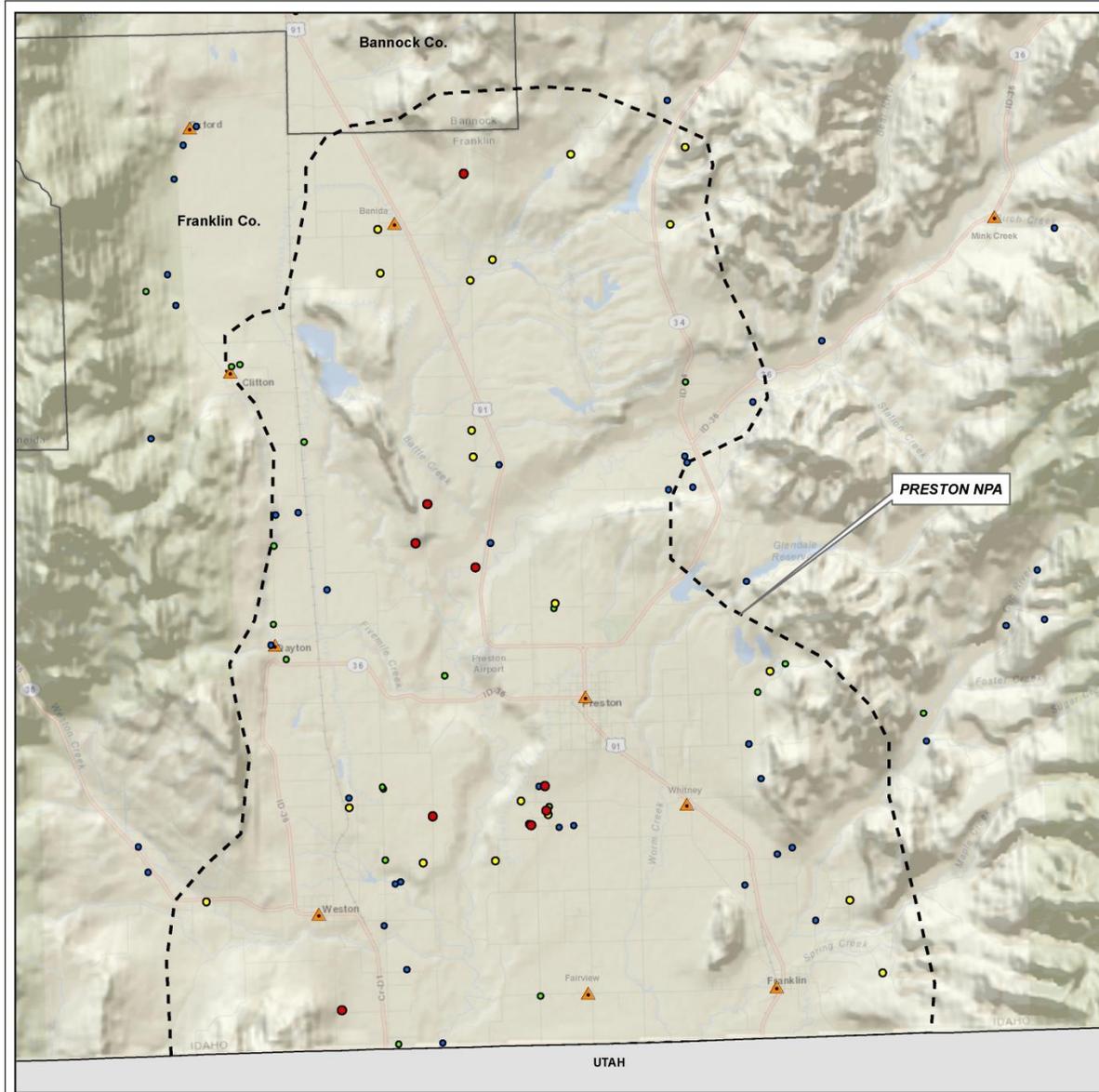
2014 Mountain Home AFB NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	37		
Minimum Nitrate Value (mg/L)	0.03		
Maximum Nitrate Value (mg/L)	29.20		
Middle Nitrate Value (mg/L)	5.60		
Average Nitrate Value (mg/L)	7.20		
Number of Sites less than 2 mg/L	4		
Percent of Sites less than 2 mg/L	10.81		
Number of Sites greater than or equal to 2 mg/L	33		
Percent of Sites greater than or equal to 2 mg/L	89.19		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	11		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	29.73		
Number of Sites greater than or equal to 5 mg/L	22		
Percent of Sites greater than or equal to 5 mg/L	59.46		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	14		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	37.84		
Number of Sites greater than or equal to 10 mg/L	8		
Percent of Sites greater than or equal to 10 mg/L	21.62		
Number of Public Water Systems	8		9
Number of Source Water Delineated Areas Intersecting NPA	1		
Sites sampled by DEQ	0		
Sites sampled by IDWR	2		
Sites sampled by the U.S.G.S.	26		
Sites sampled by ISDA	1		
Population within NPA, based on 2010 Census	3250		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 12		Priority Area Name: Mountain Home AFB		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	3250
>10,001	3			
		Subtotal	2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	9
21 to 40	2			
>40	3			
		Subtotal	1	
c) Number of Wells with NO₃≥10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	8
21 to 40	3			
>40	4			
		Subtotal	2	
		Population Score Total	5	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥2 mg/L	0.89	2	1.78	
Percent of wells with NO ₃ ≥5 mg/L	0.59	5	2.95	
Percent of wells with NO ₃ ≥ 10 mg/L	0.22	10	2.20	
		Water Quality Total	6.93	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
		Trend Score	5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
		Beneficial use score	0	
		Max Possible Score = 1		
		Total Score	16.93	

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**2014 Nitrate Priority Area 13
Preston**

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PRESTON NITRATE PRIORITY AREA (NPA), 2014



Pocatello Regional Office



Preston NPA, 2014

Nitrate Concentrations (mg/L)

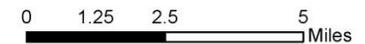
- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

 2014 NPAs

▲ Idaho Cities/Towns

 County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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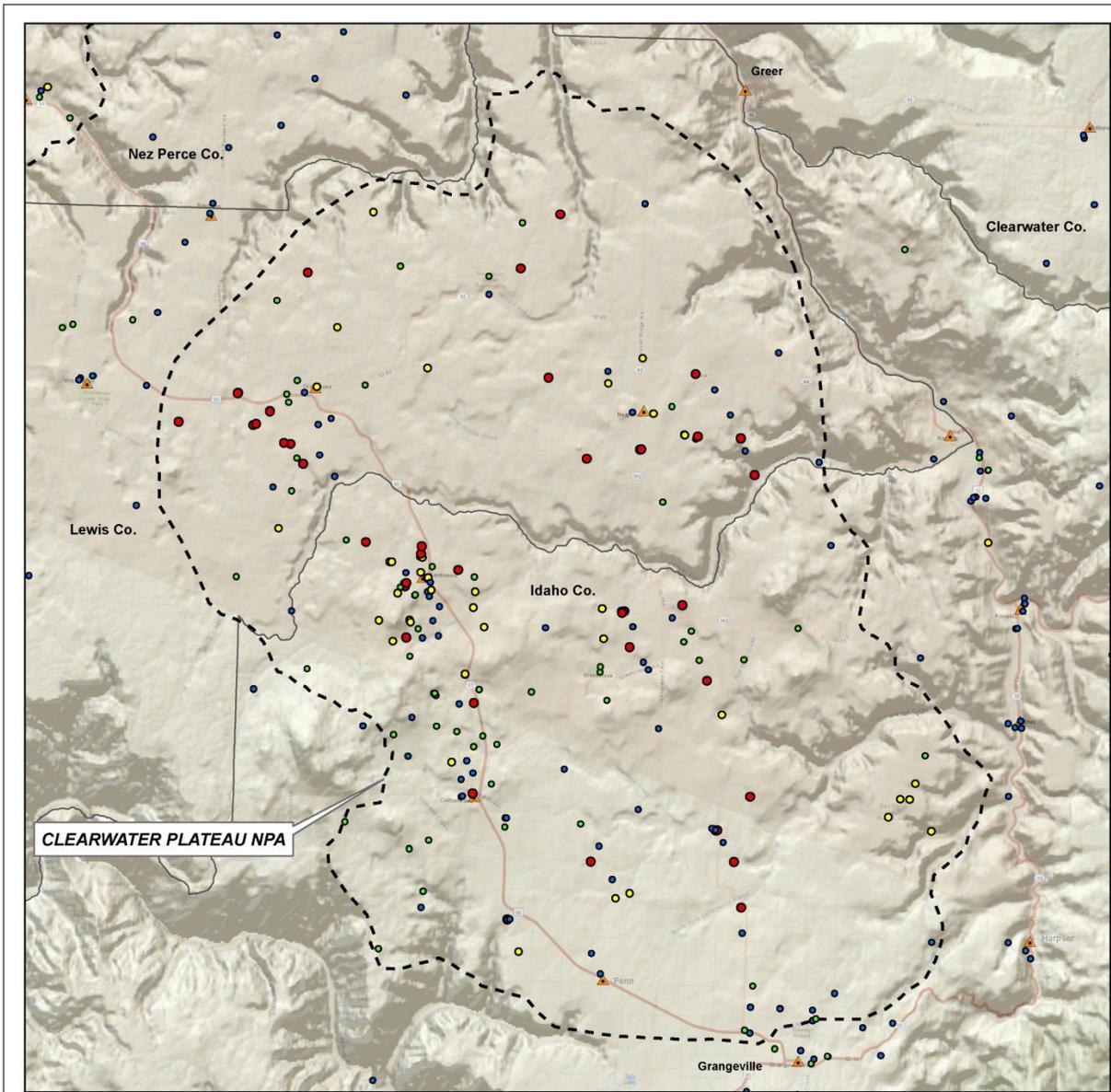
2014 Preston NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	72		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	23.80		
Middle Nitrate Value (mg/L)	4.01		
Average Nitrate Value (mg/L)	4.74		
Number of Sites less than 2 mg/L	25		
Percent of Sites less than 2 mg/L	34.72		
Number of Sites greater than or equal to 2 mg/L	47		
Percent of Sites greater than or equal to 2 mg/L	65.28		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	18		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	25.00		
Number of Sites greater than or equal to 5 mg/L	29		
Percent of Sites greater than or equal to 5 mg/L	40.28		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	20		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	27.78		
Number of Sites greater than or equal to 10 mg/L	9		
Percent of Sites greater than or equal to 10 mg/L	12.50		
Number of Public Water Systems	13		24
Number of Source Water Delineated Areas Intersecting NPA	11		
Sites sampled by DEQ	0		
Sites sampled by IDWR	4		
Sites sampled by the U.S.G.S.	6		
Sites sampled by ISDA	49	37	
Population within NPA, based on 2010 Census	11120		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 13		Priority Area Name: Preston		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
>10,001	3	x	3	11,120
Subtotal			3	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	24
>40	3			
Subtotal			2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	9
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			7	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.65	2	1.30	
Percent of wells with NO ₃ ≥ 5 mg/L	0.40	5	2.00	
Percent of wells with NO ₃ ≥ 10 mg/L	0.13	10	1.30	
Water Quality Total			4.60	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5.00	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5.00	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			16.60	

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**2014 Nitrate Priority Area 14
Clearwater Plateau**

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CLEARWATER PLATEAU NITRATE PRIORITY AREA (NPA), 2014



Lewiston Regional Office



Clearwater Plateau NPA, 2014

Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- ≥ 10
- ▲ Idaho Cities/Towns

- ⋯ 2014 NPAs
- ▭ County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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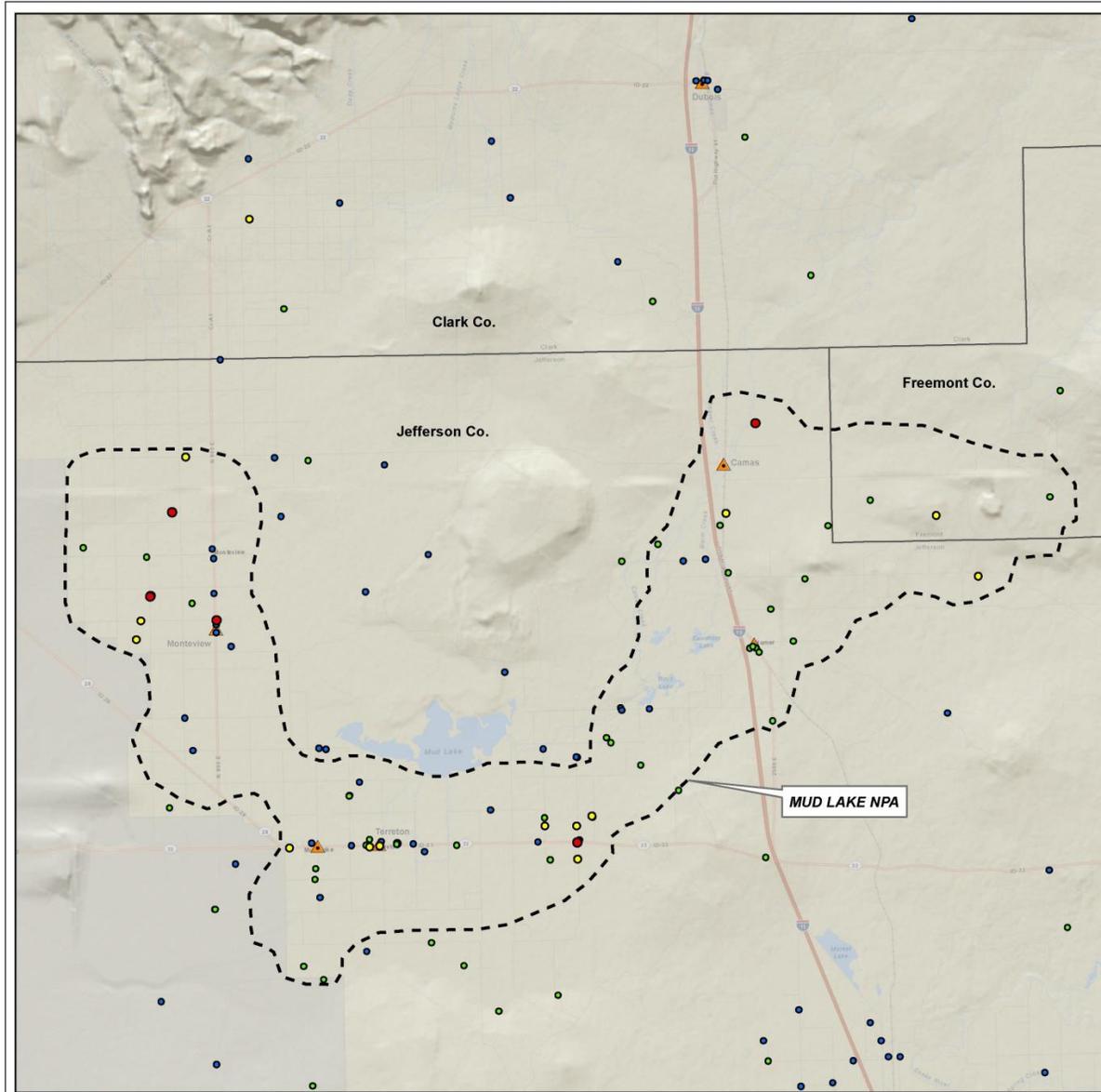
2014 Clearwater Plateau NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	216		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	77.10		
Middle Nitrate Value (mg/L)	4.30		
Average Nitrate Value (mg/L)	7.24		
Number of Sites less than 2 mg/L	61		
Percent of Sites less than 2 mg/L	28.24		
Number of Sites greater than or equal to 2 mg/L	155		
Percent of Sites greater than or equal to 2 mg/L	71.76		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	62		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	28.70		
Number of Sites greater than or equal to 5 mg/L	93		
Percent of Sites greater than or equal to 5 mg/L	43.06		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	43		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	19.91		
Number of Sites greater than or equal to 10 mg/L	50		
Percent of Sites greater than or equal to 10 mg/L	23.15		
Number of Public Water Systems	15		27
Number of Source Water Delineated Areas Intersecting NPA	12		
Sites sampled by DEQ	132		
Sites sampled by IDWR	12		
Sites sampled by the U.S.G.S.	15		
Sites sampled by ISDA	42	3	
Population within NPA, based on 2010 Census	4347		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 14		Priority Area Name: Clearwater Plateau		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	4347
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	27
>40	3			
Subtotal			2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3			
>40	4	x	4	50
Subtotal			4	
Population Score Total			8	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.72	2	1.44	
Percent of wells with NO ₃ ≥ 5 mg/L	0.43	5	2.15	
Percent of wells with NO ₃ ≥ 10 mg/L	0.23	10	2.30	
Water Quality Total			5.89	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5	x	2.5	
Decreasing Trend	0			
Trend Score			2.5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0		0
Beneficial use score			0	
Max Possible Score = 1				
Total Score			16.39	

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**2014 Nitrate Priority Area 15
Mud Lake**

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MUD LAKE NITRATE PRIORITY AREA (NPA), 2014



Idaho Falls Regional Office



Mud Lake NPA, 2014

Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10
- ▲ Idaho Cities/Towns
- 2014 NPAs
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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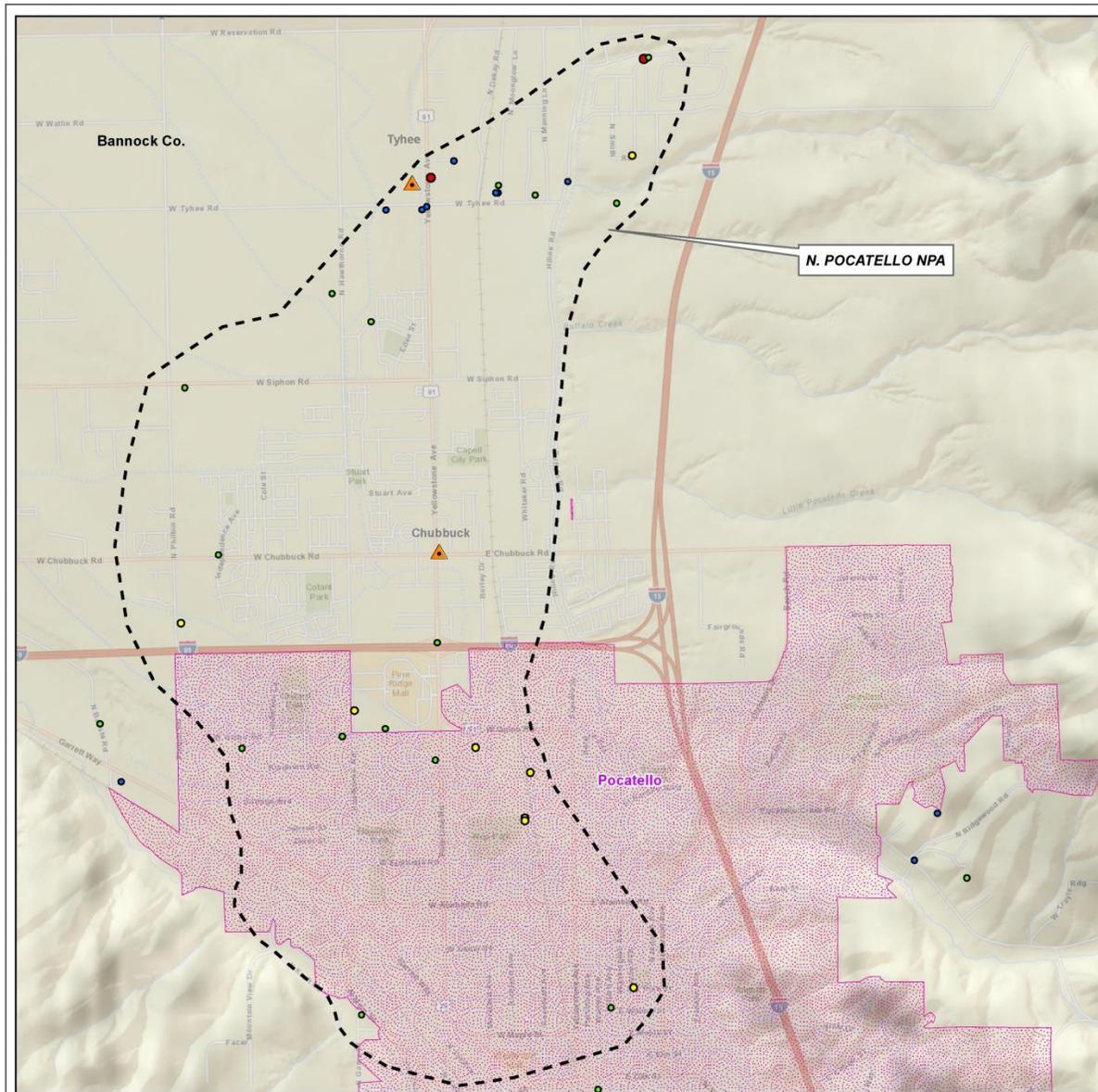
2014 Mud Lake NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	80		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	15.20		
Middle Nitrate Value (mg/L)	3.87		
Average Nitrate Value (mg/L)	3.92		
Number of Sites less than 2 mg/L	23		
Percent of Sites less than 2 mg/L	28.75		
Number of Sites greater than or equal to 2 mg/L	57		
Percent of Sites greater than or equal to 2 mg/L	71.25		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	36		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	45.00		
Number of Sites greater than or equal to 5 mg/L	21		
Percent of Sites greater than or equal to 5 mg/L	26.25		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	15		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	18.75		
Number of Sites greater than or equal to 10 mg/L	6		
Percent of Sites greater than or equal to 10 mg/L	7.50		
Number of Public Water Systems	8		13
Number of Source Water Delineated Areas Intersecting NPA	5		
Sites sampled by DEQ	8		
Sites sampled by IDWR	14		
Sites sampled by the U.S.G.S.	7		
Sites sampled by ISDA	43	15	
Population within NPA, based on 2010 Census	1916		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 15		Priority Area Name: Mud Lake		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	1916
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	13
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	6
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			5	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.71	2	1.42	
Percent of wells with NO ₃ ≥ 5 mg/L	0.26	5	1.30	
Percent of wells with NO ₃ ≥ 10 mg/L	0.08	10	0.80	
Water Quality Total			3.52	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5	x	7.5	
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			7.50	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			16.02	

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**2014 Nitrate Priority Area 16
N. Pocatello**

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N. POCATELLO NITRATE PRIORITY AREA (NPA), 2014



Pocatello Regional Office



N. Pocatello NPA, 2014

Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10
- ▲ Idaho Cities/Towns

- 2014 NPAs
- Major City Boundary
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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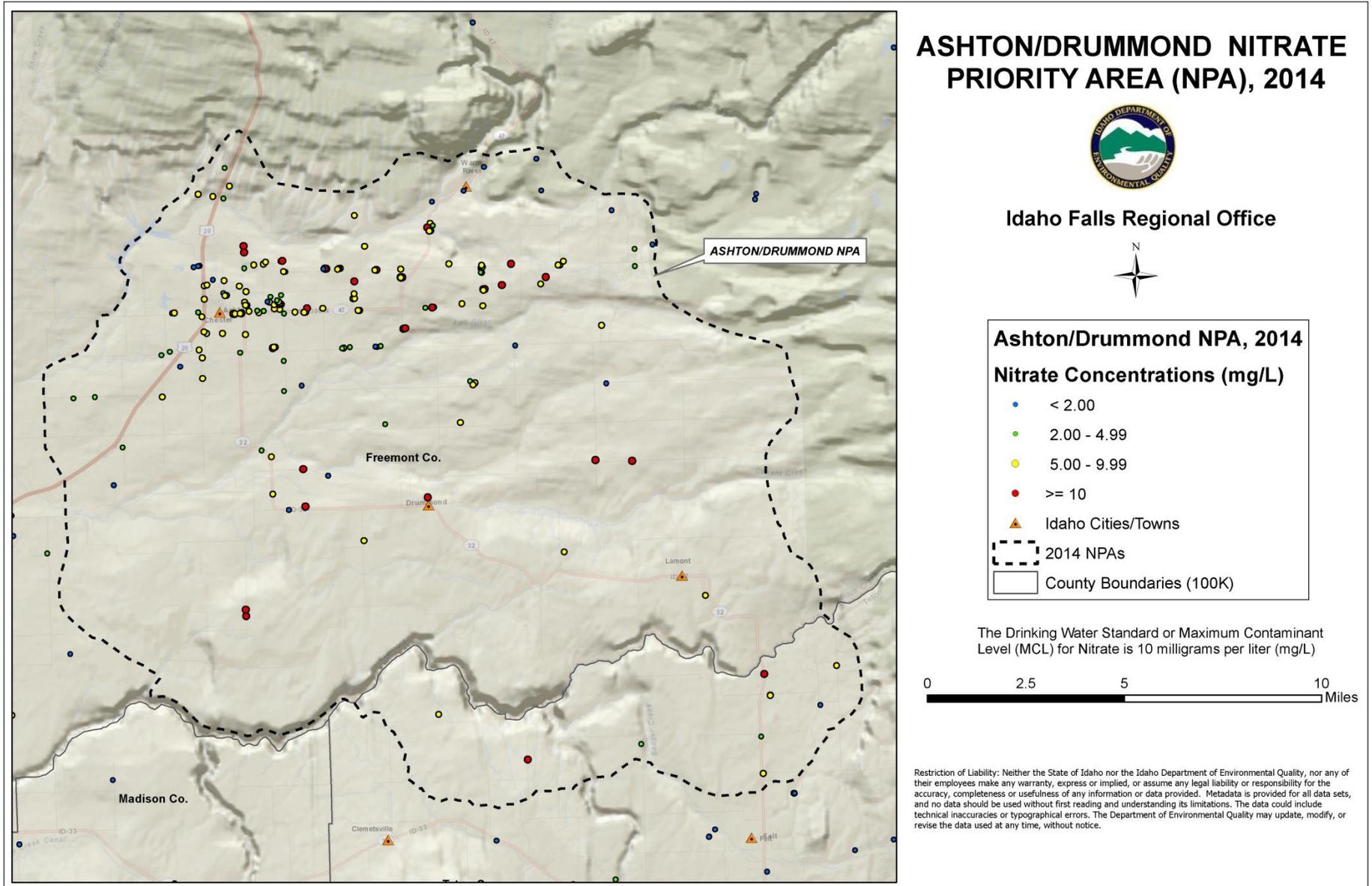
2014 N. Pocatello NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	32		
Minimum Nitrate Value (mg/L)	1.05		
Maximum Nitrate Value (mg/L)	12.30		
Middle Nitrate Value (mg/L)	4.08		
Average Nitrate Value (mg/L)	4.19		
Number of Sites less than 2 mg/L	7		
Percent of Sites less than 2 mg/L	21.88		
Number of Sites greater than or equal to 2 mg/L	25		
Percent of Sites greater than or equal to 2 mg/L	78.13		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	15		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	46.88		
Number of Sites greater than or equal to 5 mg/L	10		
Percent of Sites greater than or equal to 5 mg/L	31.25		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	8		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	25.00		
Number of Sites greater than or equal to 10 mg/L	2		
Percent of Sites greater than or equal to 10 mg/L	6.25		
Number of Public Water Systems	22		44
Number of Source Water Delineated Areas Intersecting NPA	22		
Sites sampled by DEQ	0		
Sites sampled by IDWR	5		
Sites sampled by the U.S.G.S.	4		
Sites sampled by ISDA	1		
Population within NPA, based on 2010 Census	24542		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 16		Priority Area Name: N. Pocatello		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
>10,001	3	x	3	24,542
		Subtotal	3	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2			
>40	3	x	3	44
		Subtotal	3	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	2
6 to 20	2			
21 to 40	3			
>40	4			
		Subtotal	1	
		Population Score Total	7	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.78	2	1.56	
Percent of wells with NO ₃ ≥ 5 mg/L	0.31	5	1.55	
Percent of wells with NO ₃ ≥ 10 mg/L	0.06	10	0.60	
		Water Quality Total	3.71	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
		Trend Score	5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
		Beneficial use score	0	
		Max Possible Score = 1		
		Total Score	15.71	

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**2014 Nitrate Priority Area 17
Ashton/Drummond**

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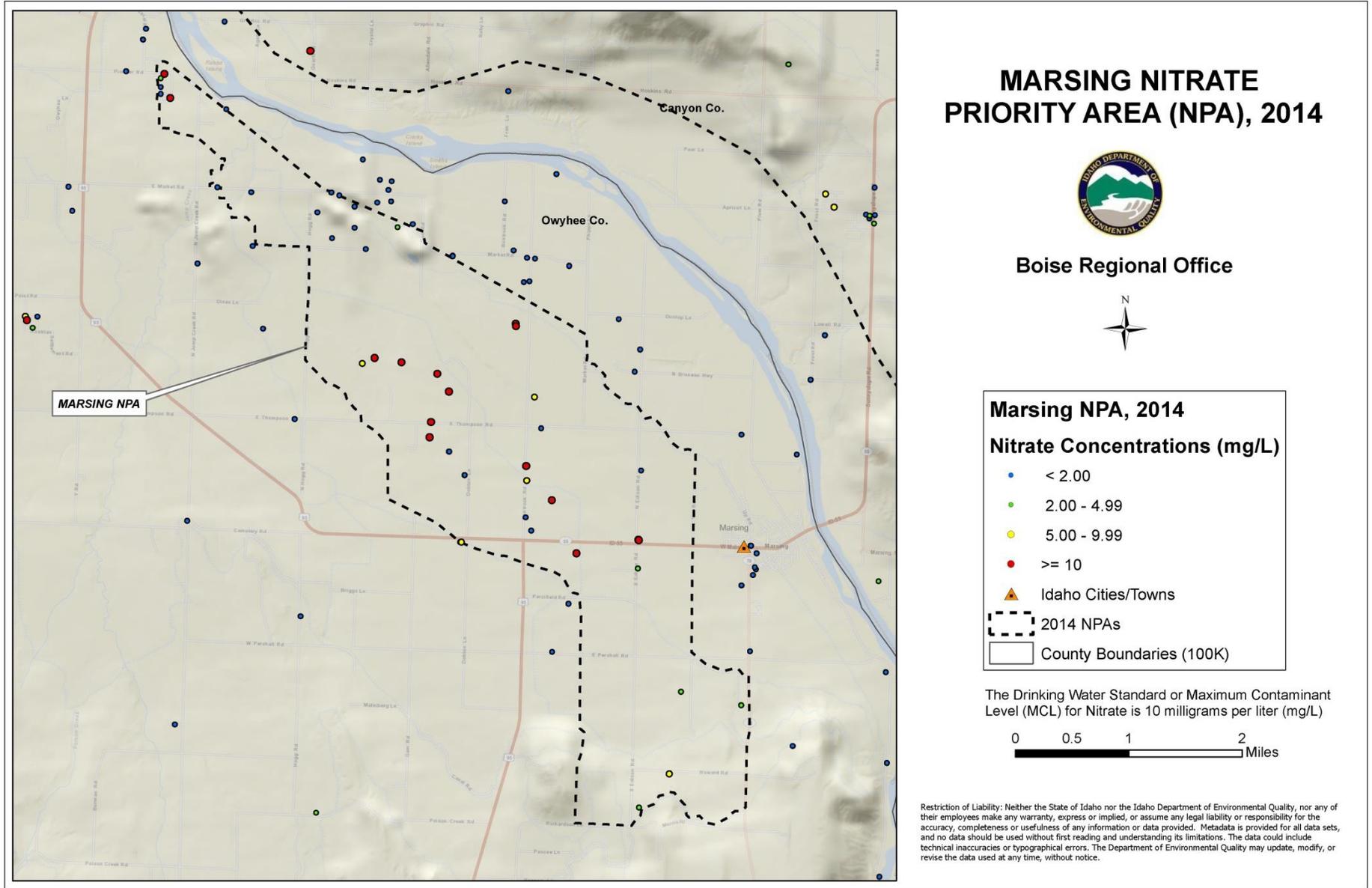
2014 Ashton/Drummond NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	191		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	47.00		
Middle Nitrate Value (mg/L)	6.62		
Average Nitrate Value (mg/L)	7.25		
Number of Sites less than 2 mg/L	23		
Percent of Sites less than 2 mg/L	12.04		
Number of Sites greater than or equal to 2 mg/L	168		
Percent of Sites greater than or equal to 2 mg/L	87.96		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	33		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	17.28		
Number of Sites greater than or equal to 5 mg/L	135		
Percent of Sites greater than or equal to 5 mg/L	70.68		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	103		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	53.93		
Number of Sites greater than or equal to 10 mg/L	32		
Percent of Sites greater than or equal to 10 mg/L	16.75		
Number of Public Water Systems	7		20
Number of Source Water Delineated Areas Intersecting NPA	13		
Sites sampled by DEQ	97		
Sites sampled by IDWR	7		
Sites sampled by the U.S.G.S.	11		
Sites sampled by ISDA	69	1	
Population within NPA, based on 2010 Census	2564		
*Included with ISDA sampled sites			
**Sum of Source Water Delinetions intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 17		Priority Area Name: Ashton/Drummond		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	2564
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	20
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3	x	3	32
>40	4			
Subtotal			3	
Population Score Total			6	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.88	2	1.76	
Percent of wells with NO ₃ ≥ 5 mg/L	0.71	5	3.55	
Percent of wells with NO ₃ ≥ 10 mg/L	0.17	10	1.70	
Water Quality Total			7.01	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5	x	2.5	
Decreasing Trend	0			
Trend Score			2.5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			15.51	

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**2014 Nitrate Priority Area 18
Marsing**

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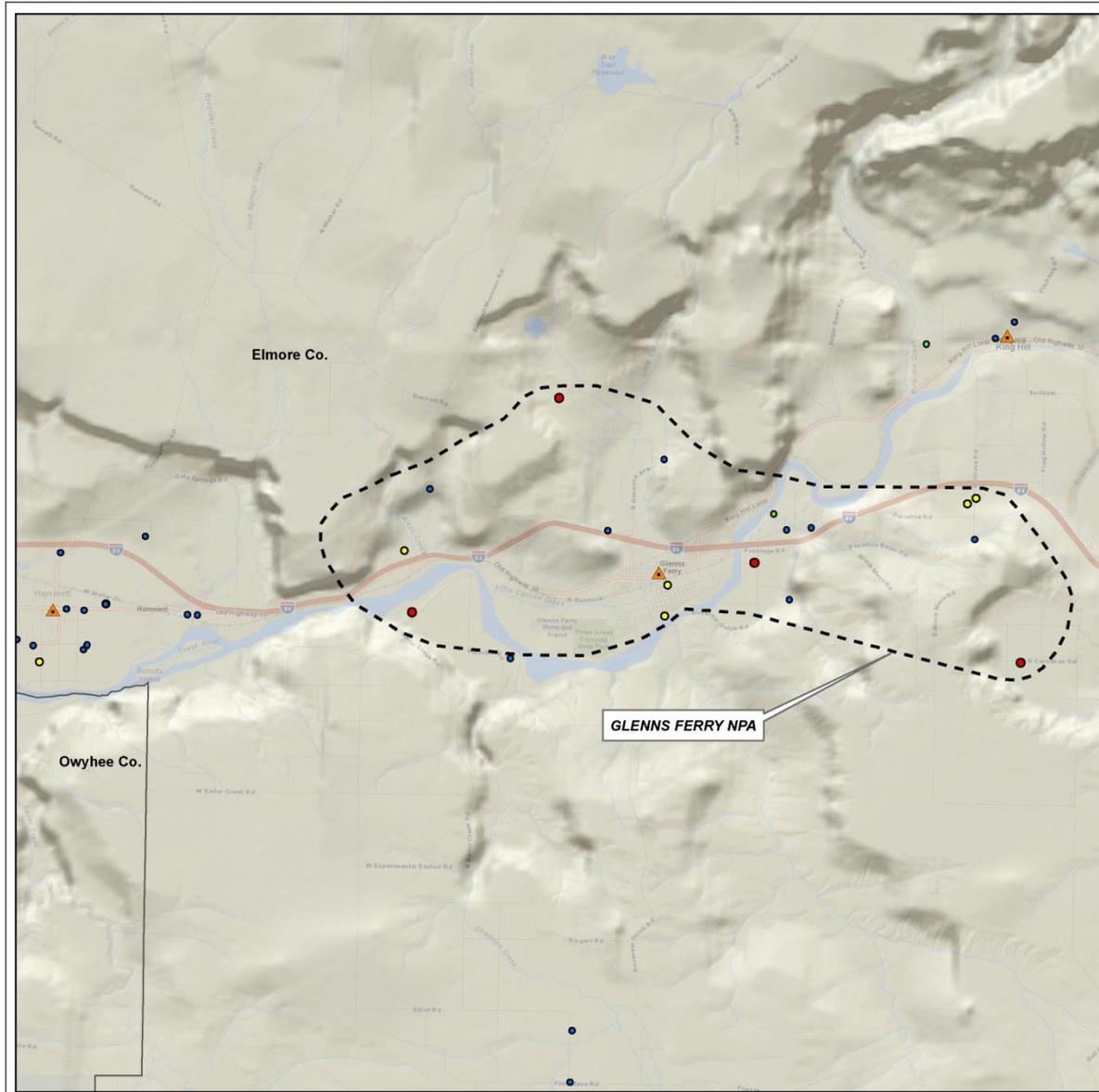
2014 Marsing NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	47		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	60.00		
Middle Nitrate Value (mg/L)	2.43		
Average Nitrate Value (mg/L)	9.74		
Number of Sites less than 2 mg/L	21		
Percent of Sites less than 2 mg/L	44.68		
Number of Sites greater than or equal to 2 mg/L	26		
Percent of Sites greater than or equal to 2 mg/L	55.32		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	6		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	12.77		
Number of Sites greater than or equal to 5 mg/L	20		
Percent of Sites greater than or equal to 5 mg/L	42.55		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	5		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	10.64		
Number of Sites greater than or equal to 10 mg/L	15		
Percent of Sites greater than or equal to 10 mg/L	31.91		
Number of Public Water Systems	9		12
Number of Source Water Delineated Areas Intersecting NPA	3		
Sites sampled by DEQ	11		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	25	3	
Population within NPA, based on 2010 Census	600		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 18		Priority Area Name: Marsing		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	600
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	12
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	15
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.55	2	1.10	
Percent of wells with NO ₃ ≥ 5 mg/L	0.43	5	2.15	
Percent of wells with NO ₃ ≥ 10 mg/L	0.32	10	3.20	
Water Quality Total			6.45	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			15.45	

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**2014 Nitrate Priority Area 19
Glenns Ferry**

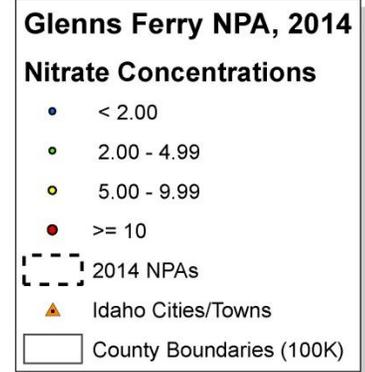
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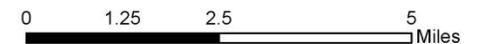
GLENN'S FERRY NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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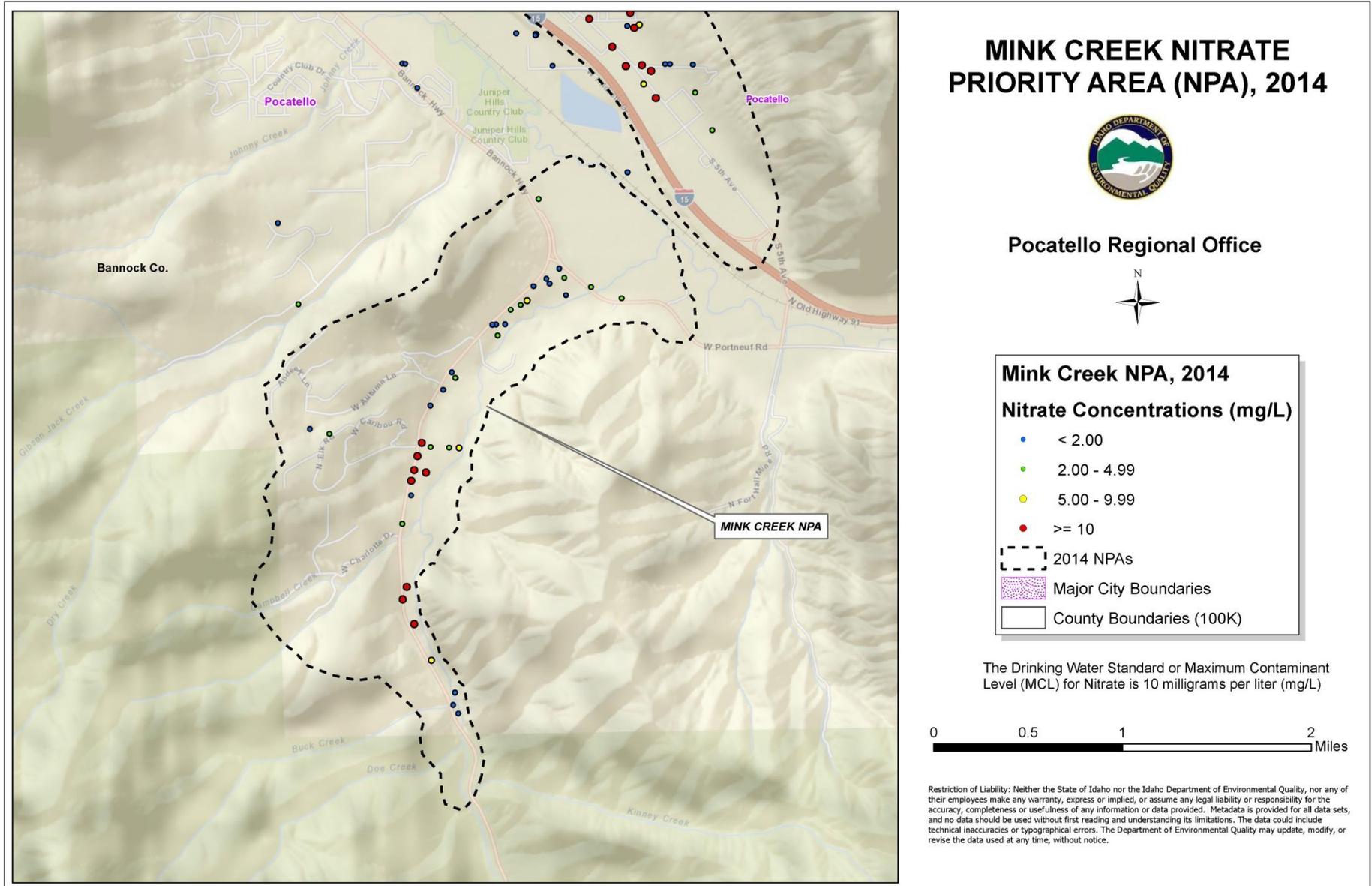
2014 Glenns Ferry NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	17		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	73.30		
Middle Nitrate Value (mg/L)	5.13		
Average Nitrate Value (mg/L)	11.62		
Number of Sites less than 2 mg/L	7		
Percent of Sites less than 2 mg/L	41.18		
Number of Sites greater than or equal to 2 mg/L	10		
Percent of Sites greater than or equal to 2 mg/L	58.82		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	1		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	5.88		
Number of Sites greater than or equal to 5 mg/L	9		
Percent of Sites greater than or equal to 5 mg/L	52.94		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	5		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	29.41		
Number of Sites greater than or equal to 10 mg/L	4		
Percent of Sites greater than or equal to 10 mg/L	23.53		
Number of Public Water Systems	1		3
Number of Source Water Delineated Areas Intersecting NPA	2		
Sites sampled by DEQ	0		
Sites sampled by IDWR	4		
Sites sampled by the U.S.G.S.	2		
Sites sampled by ISDA	10		
Population within NPA, based on 2010 Census	1496		
*Included with ISDA sampled sites			

Priority Area Number: 19		Priority Area Name: Glenns Ferry		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	1496
>10,001	3			
		Subtotal	2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	3
21 to 40	2			
>40	3			
		Subtotal	1	
c) Number of Wells with NO₃≥10 mg/L				
0	0			
1 to 5	1	x	1	4
6 to 20	2			
21 to 40	3			
>40	4			
		Subtotal	1	
		Population Score Total	4	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥2 mg/L	0.59	2	1.18	
Percent of wells with NO ₃ ≥5 mg/L	0.53	5	2.65	
Percent of wells with NO ₃ ≥ 10 mg/L	0.24	10	2.40	
		Water Quality Total	6.23	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
		Trend Score	5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
		Beneficial use score	0	
		Max Possible Score = 1		
		Total Score	15.23	

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**2014 Nitrate Priority Area 20
Mink Creek**

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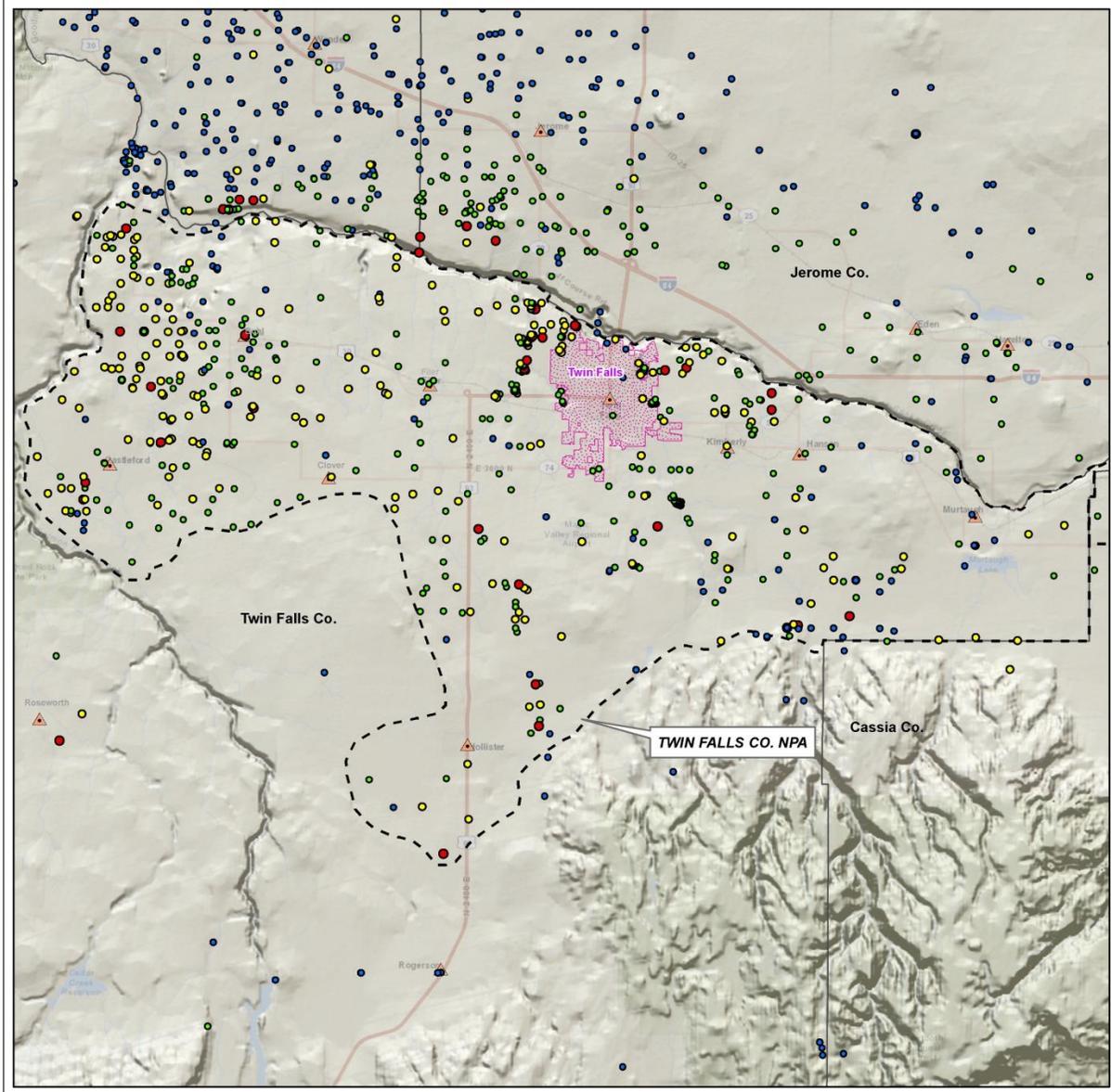
2014 Mink Creek NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	40		
Minimum Nitrate Value (mg/L)	0.05		
Maximum Nitrate Value (mg/L)	21.00		
Middle Nitrate Value (mg/L)	3.00		
Average Nitrate Value (mg/L)	4.84		
Number of Sites less than 2 mg/L	14		
Percent of Sites less than 2 mg/L	35.00		
Number of Sites greater than or equal to 2 mg/L	26		
Percent of Sites greater than or equal to 2 mg/L	65.00		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	12		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	30.00		
Number of Sites greater than or equal to 5 mg/L	14		
Percent of Sites greater than or equal to 5 mg/L	35.00		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	6		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	15.00		
Number of Sites greater than or equal to 10 mg/L	8		
Percent of Sites greater than or equal to 10 mg/L	20.00		
Number of Public Water Systems	3		32
Number of Source Water Delineated Areas Intersecting NPA	29		
Sites sampled by DEQ	35		
Sites sampled by IDWR	2		
Sites sampled by the U.S.G.S.	0		
Sites sampled by ISDA	0		
Population within NPA, based on 2010 Census	715		
*Included with ISDA sampled sites			
**Sum of Source Water Delinetions intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 20		Priority Area Name: Mink Creek		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	715
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	32
>40	3			
Subtotal			2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	8
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			5	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.65	2	1.30	
Percent of wells with NO ₃ ≥ 5 mg/L	0.35	5	1.75	
Percent of wells with NO ₃ ≥ 10 mg/L	0.20	10	2.00	
Water Quality Total			5.05	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			15.05	

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**2014 Nitrate Priority Area 21
Twin Falls**

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TWIN FALLS CO. NITRATE PRIORITY AREA (NPA), 2014



Twin Falls Regional Office

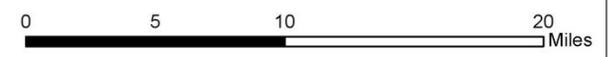


Twin Falls Co. NPA, 2014
Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

- 2014 NPAs
- Major City Boundary
- ▲ Idaho Cities/Towns
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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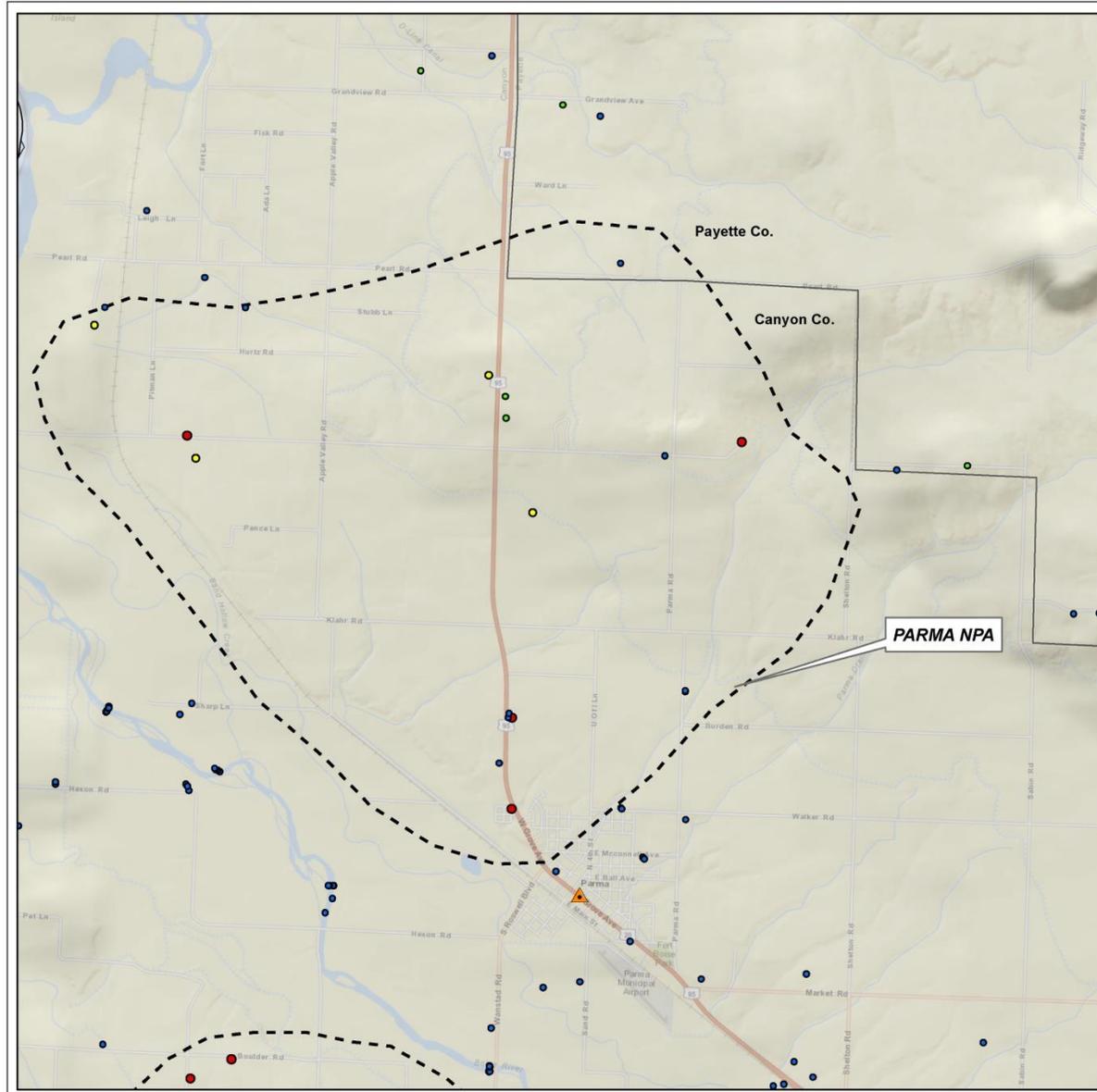
2014 Twin Falls NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	618		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	41.00		
Middle Nitrate Value (mg/L)	4.80		
Average Nitrate Value (mg/L)	5.18		
Number of Sites less than 2 mg/L	78		
Percent of Sites less than 2 mg/L	12.62		
Number of Sites greater than or equal to 2 mg/L	540		
Percent of Sites greater than or equal to 2 mg/L	87.38		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	252		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	40.78		
Number of Sites greater than or equal to 5 mg/L	288		
Percent of Sites greater than or equal to 5 mg/L	46.60		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	253		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	40.94		
Number of Sites greater than or equal to 10 mg/L	35		
Percent of Sites greater than or equal to 10 mg/L	5.66		
Number of Public Water Systems	48		88
Number of Source Water Delineated Areas Intersecting NPA	40		
Sites sampled by DEQ	152		
Sites sampled by IDWR	100		
Sites sampled by the U.S.G.S.	45		
Sites sampled by ISDA	273	99	
Population within NPA, based on 2010 Census	76,284		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 21		Priority Area Name: Twin Falls		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
>10,001	3	x	3	76,284
Subtotal			3	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2			
>40	3	x	3	88
Subtotal			3	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3	x	3	35
>40	4			
Subtotal			3	
Population Score Total			9	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.87	2	1.74	
Percent of wells with NO ₃ ≥ 5 mg/L	0.47	5	2.35	
Percent of wells with NO ₃ ≥ 10 mg/L	0.06	10	0.60	
Water Quality Total			4.69	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0	x	0	
Trend Score			0	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			1	Aquaculture
Max Possible Score = 1				
Total Score			14.69	

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**2014 Nitrate Priority Area 22
Parma**

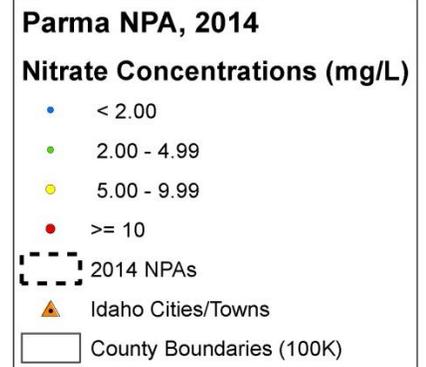
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PARMA NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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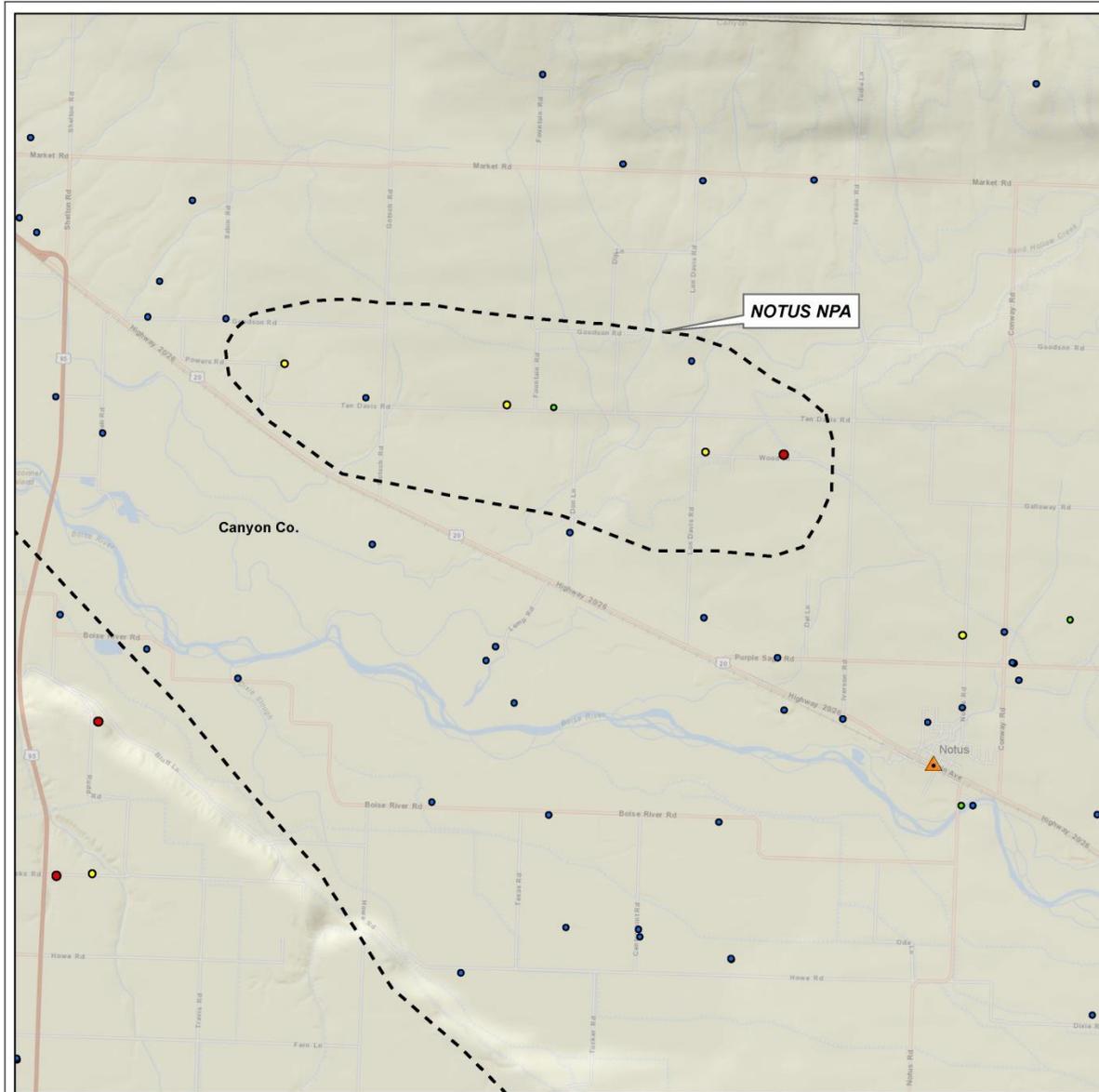
2014 Parma NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	19		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	14.50		
Middle Nitrate Value (mg/L)	2.10		
Average Nitrate Value (mg/L)	4.58		
Number of Sites less than 2 mg/L	9		
Percent of Sites less than 2 mg/L	47.37		
Number of Sites greater than or equal to 2 mg/L	10		
Percent of Sites greater than or equal to 2 mg/L	52.63		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	2		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	10.53		
Number of Sites greater than or equal to 5 mg/L	8		
Percent of Sites greater than or equal to 5 mg/L	42.11		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	4		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	21.05		
Number of Sites greater than or equal to 10 mg/L	4		
Percent of Sites greater than or equal to 10 mg/L	21.05		
Number of Public Water Systems	2		4
Number of Source Water Delineated Areas Intersecting NPA	2		
Sites sampled by DEQ	8		
Sites sampled by IDWR	3		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	5	4	
Population within NPA, based on 2010 Census	1063		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 22		Priority Area Name: Parma		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	1063
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	4
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	4
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.53	2	1.06	
Percent of wells with NO ₃ ≥ 5 mg/L	0.42	5	2.10	
Percent of wells with NO ₃ ≥ 10 mg/L	0.21	10	2.10	
Water Quality Total			5.26	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			14.26	

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**2014 Nitrate Priority Area 23
Notus**

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NOTUS NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



Notus NPA, 2014

Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10
- ▲ Idaho Cities/Towns

2014 NPAs

County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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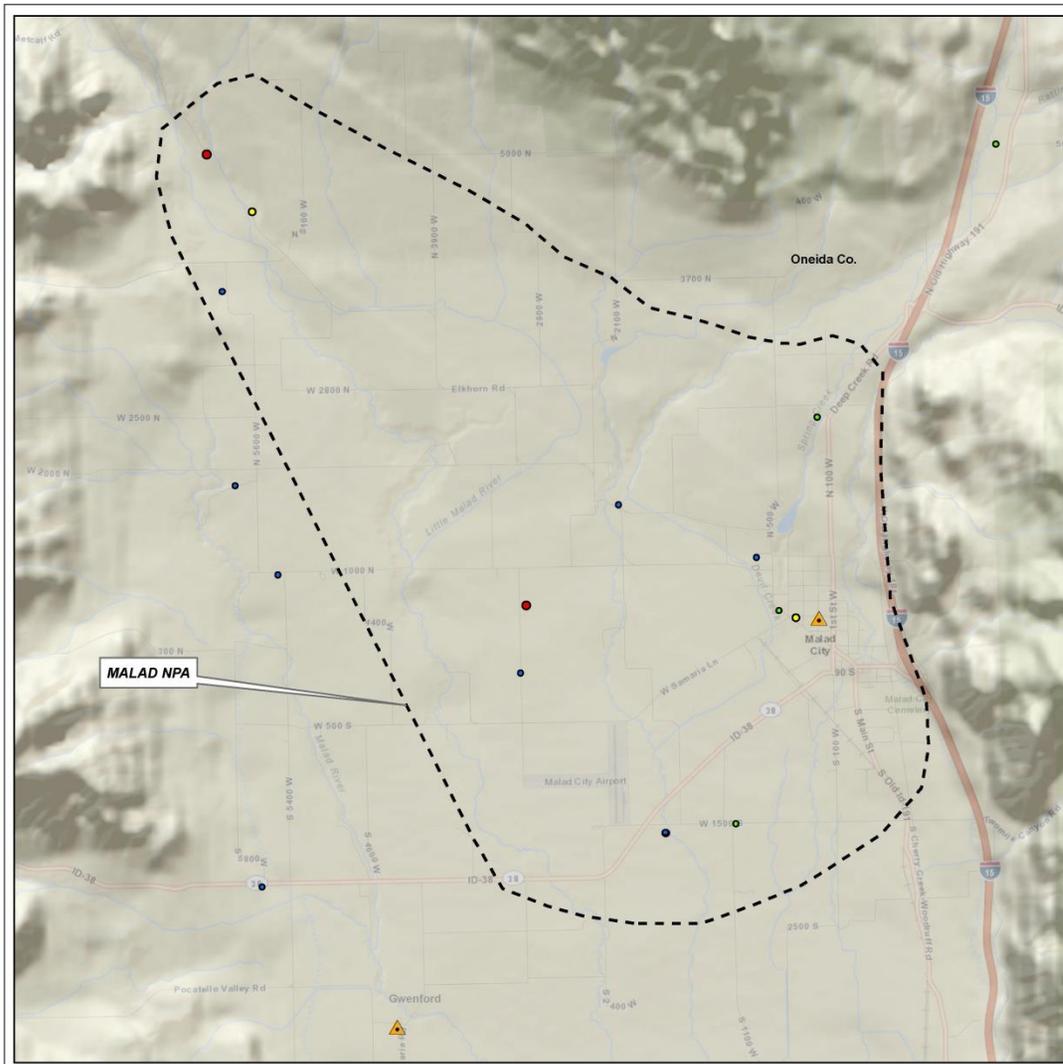
2014 Notus NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	7		
Minimum Nitrate Value (mg/L)	0.03		
Maximum Nitrate Value (mg/L)	16.00		
Middle Nitrate Value (mg/L)	6.70		
Average Nitrate Value (mg/L)	5.79		
Number of Sites less than 2 mg/L	2		
Percent of Sites less than 2 mg/L	28.57		
Number of Sites greater than or equal to 2 mg/L	5		
Percent of Sites greater than or equal to 2 mg/L	71.43		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	1		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	14.29		
Number of Sites greater than or equal to 5 mg/L	4		
Percent of Sites greater than or equal to 5 mg/L	57.14		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	3		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	42.86		
Number of Sites greater than or equal to 10 mg/L	1		
Percent of Sites greater than or equal to 10 mg/L	14.29		
Number of Public Water Systems	1		1
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	5		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	0		
Sites sampled by ISDA	0		
Population within NPA, based on 2010 Census	168		
*Included with ISDA sampled sites			
**Sum of Source Water Delinements intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 23		Priority Area Name: Notus		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	168
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	1
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	1
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			3	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.71	2	1.42	
Percent of wells with NO ₃ ≥ 5 mg/L	0.57	5	2.85	
Percent of wells with NO ₃ ≥ 10 mg/L	0.14	10	1.40	
Water Quality Total			5.67	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			13.67	

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**2014 Nitrate Priority Area 24
Malad**

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MALAD NITRATE PRIORITY AREA (NPA), 2014



Pocatello Regional Office



Malad NPA, 2014

Nitrate Concentrations (mg/L)

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10

 2014 NPAs

▲ Idaho Cities/Towns

 County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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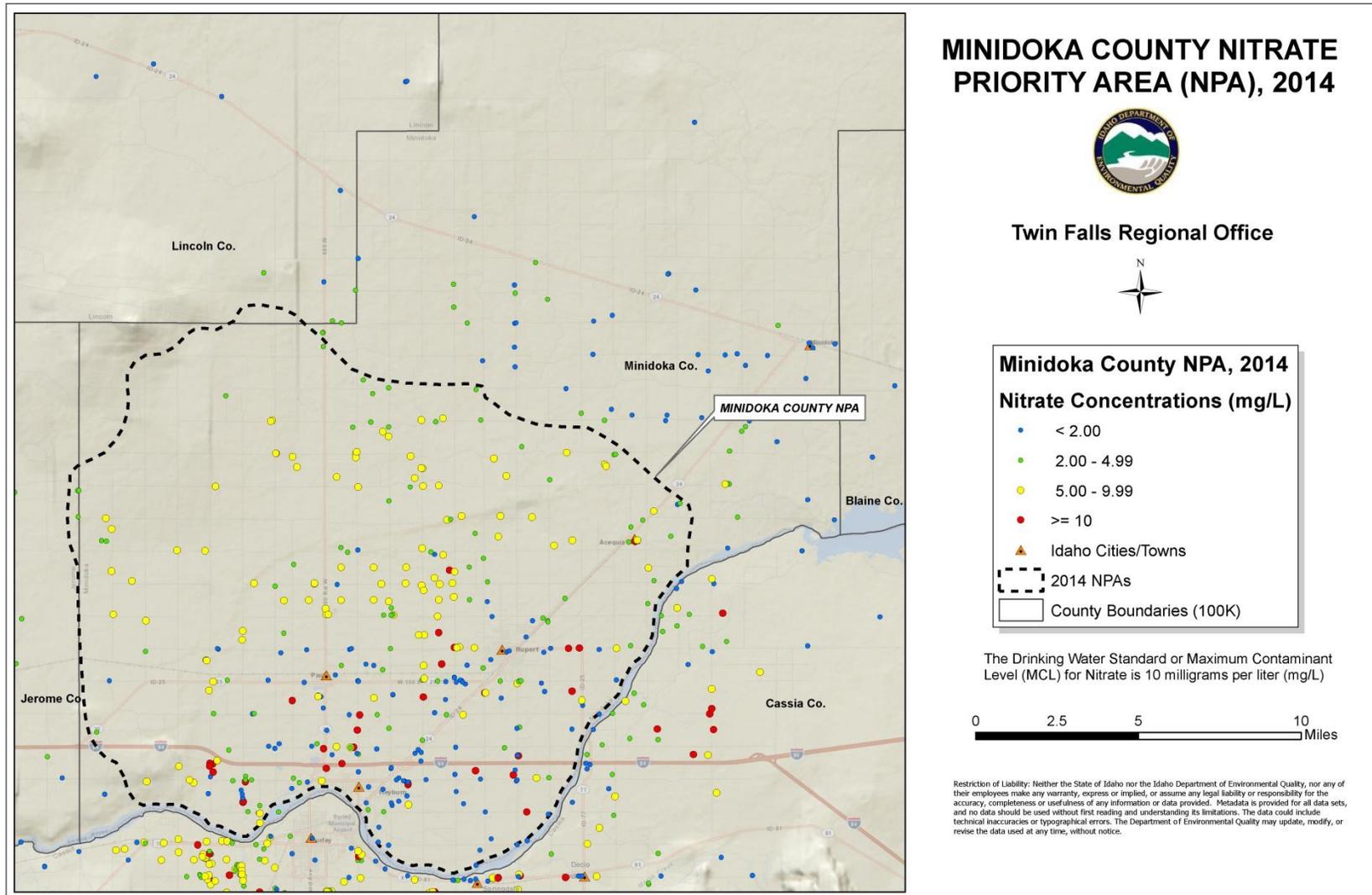
2014 Malad NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	13		
Minimum Nitrate Value (mg/L)	0.03		
Maximum Nitrate Value (mg/L)	17.00		
Middle Nitrate Value (mg/L)	3.77		
Average Nitrate Value (mg/L)	4.86		
Number of Sites less than 2 mg/L	5		
Percent of Sites less than 2 mg/L	38.46		
Number of Sites greater than or equal to 2 mg/L	8		
Percent of Sites greater than or equal to 2 mg/L	61.54		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	3		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	23.08		
Number of Sites greater than or equal to 5 mg/L	5		
Percent of Sites greater than or equal to 5 mg/L	38.46		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	3		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	23.08		
Number of Sites greater than or equal to 10 mg/L	2		
Percent of Sites greater than or equal to 10 mg/L	15.38		
Number of Public Water Systems	3		3
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	0		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	4		
Sites sampled by ISDA	5	5	
Population within NPA, based on 2010 Census	2803		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 24		Priority Area Name: Malad		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	2803
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	3
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	2
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.62	2	1.24	
Percent of wells with NO ₃ ≥ 5 mg/L	0.38	5	1.90	
Percent of wells with NO ₃ ≥ 10 mg/L	0.15	10	1.50	
Water Quality Total			4.64	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			13.64	

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**2014 Nitrate Priority Area 25
Minidoka**

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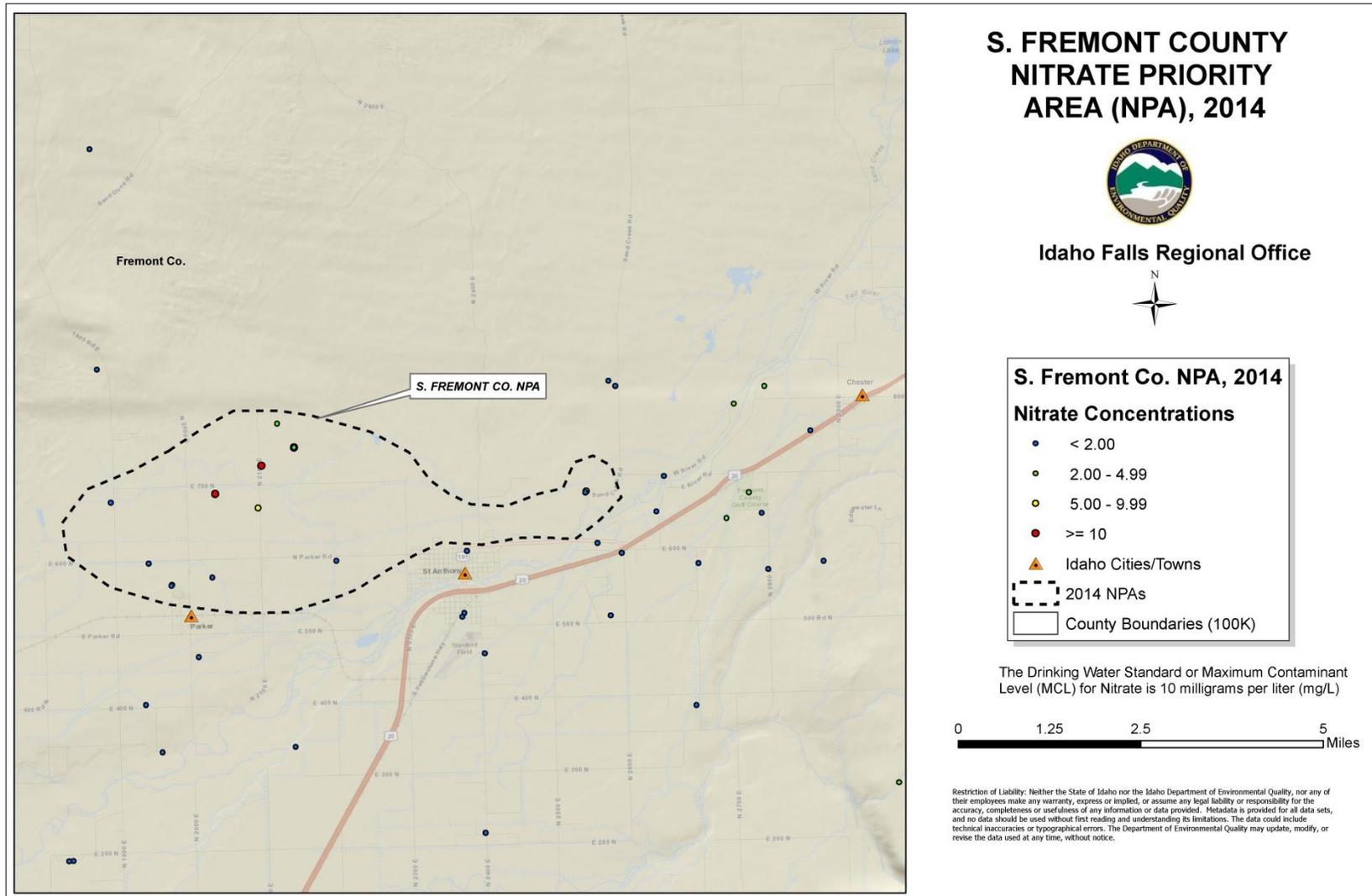
2014 Minidoka NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	337		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	83		
Middle Nitrate Value (mg/L)	4.26		
Average Nitrate Value (mg/L)	5.45		
Number of Sites less than 2 mg/L	107		
Percent of Sites less than 2 mg/L	31.75		
Number of Sites greater than or equal to 2 mg/L	230		
Percent of Sites greater than or equal to 2 mg/L	68.25		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	90		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	26.71		
Number of Sites greater than or equal to 5 mg/L	140		
Percent of Sites greater than or equal to 5 mg/L	41.54		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	110		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	32.64		
Number of Sites greater than or equal to 10 mg/L	30		
Percent of Sites greater than or equal to 10 mg/L	8.90		
Number of Public Water Systems	22		69
Number of Source Water Delineated Areas Intersecting NPA	47		
Sites sampled by DEQ	72		
Sites sampled by IDWR	60		
Sites sampled by the U.S.G.S.	57		
Sites sampled by ISDA	118	23	
Population within NPA, based on 2010 Census	18,612		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 25		Priority Area Name: Minidoka		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2			
>10,001	3	x	3	18,612
Subtotal			3	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2			
>40	3	x	3	69
Subtotal			3	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3	x	3	30
>40	4			
Subtotal			3	
Population Score Total			9	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.68	2	1.36	
Percent of wells with NO ₃ ≥ 5 mg/L	0.42	5	2.10	
Percent of wells with NO ₃ ≥ 10 mg/L	0.09	10	0.90	
Water Quality Total			4.36	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0	x	0	
Trend Score			0	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			13.36	

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**2014 Nitrate Priority Area 26
S. Fremont**

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2014 S. Fremont Co. NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	15		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	35.00		
Middle Nitrate Value (mg/L)	3.50		
Average Nitrate Value (mg/L)	8.47		
Number of Sites less than 2 mg/L	7		
Percent of Sites less than 2 mg/L	46.67		
Number of Sites greater than or equal to 2 mg/L	8		
Percent of Sites greater than or equal to 2 mg/L	53.33		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	3		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	20.00		
Number of Sites greater than or equal to 5 mg/L	5		
Percent of Sites greater than or equal to 5 mg/L	33.33		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	2		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	13.33		
Number of Sites greater than or equal to 10 mg/L	3		
Percent of Sites greater than or equal to 10 mg/L	20.00		
Number of Public Water Systems	3		6
Number of Source Water Delineated Areas Intersecting NPA	3		
Sites sampled by DEQ	0		
Sites sampled by IDWR	4		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	7	3	
Population within NPA, based on 2010 Census	979		
*Included with ISDA sampled sites			
**Sum of Source Water Delinetions intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 26		Priority Area Name: S. Fremont Co.		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	979
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	6
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	3
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			3	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.53	2	1.06	
Percent of wells with NO ₃ ≥ 5 mg/L	0.33	5	1.65	
Percent of wells with NO ₃ ≥ 10 mg/L	0.20	10	2.00	
Water Quality Total			4.71	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			12.71	

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**2014 Nitrate Priority Area 27
Lapwai Creek**

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LAPWAI CREEK NITRATE PRIORITY AREA (NPA), 2014



Lewiston Regional Office



Lapwai Creek NPA, 2014

Nitrate Concentrations

- < 2.00
- 2.00 - 4.99
- 5.00 - 9.99
- >= 10
- ▲ Idaho Cities/Towns

- 2014 NPAs
- County Boundaries (100K)

The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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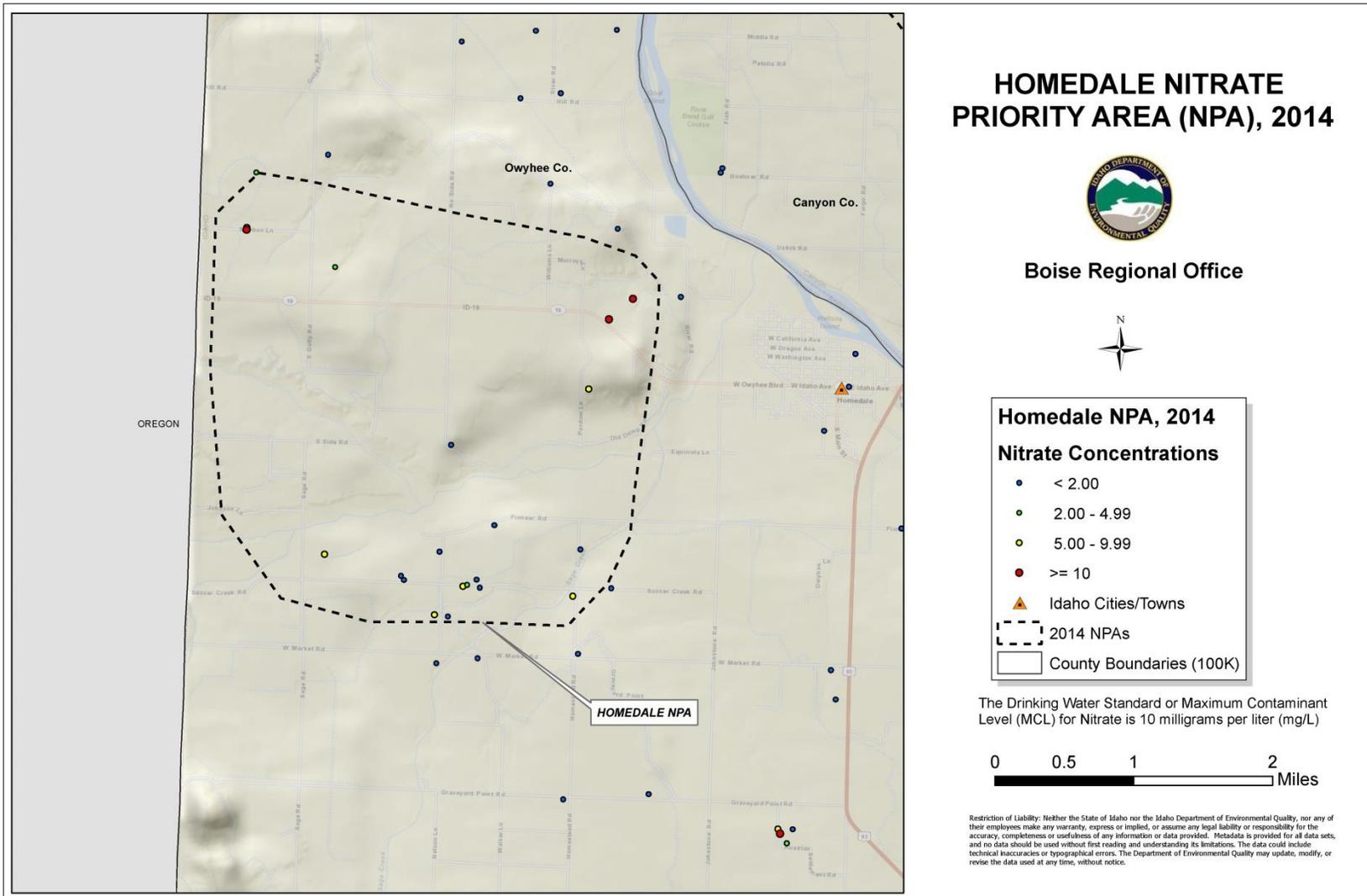
2014 Lapwai Creek NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	15		
Minimum Nitrate Value (mg/L)	0.40		
Maximum Nitrate Value (mg/L)	10.30		
Middle Nitrate Value (mg/L)	4.80		
Average Nitrate Value (mg/L)	4.74		
Number of Sites less than 2 mg/L	3		
Percent of Sites less than 2 mg/L	20.00		
Number of Sites greater than or equal to 2 mg/L	12		
Percent of Sites greater than or equal to 2 mg/L	80.00		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	5		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	33.33		
Number of Sites greater than or equal to 5 mg/L	7		
Percent of Sites greater than or equal to 5 mg/L	46.67		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	6		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	40.00		
Number of Sites greater than or equal to 10 mg/L	1		
Percent of Sites greater than or equal to 10 mg/L	6.67		
Number of Public Water Systems	3		10
Number of Source Water Delineated Areas Intersecting NPA	7		
Sites sampled by DEQ	0		
Sites sampled by IDWR	3		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	8		
Population within NPA, based on 2010 Census	982		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 27		Priority Area Name: Lapwai Creek		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	982
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	10
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃≥10 mg/L				
0	0			
1 to 5	1	x	1	1
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			3	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥2 mg/L	0.80	2	1.60	
Percent of wells with NO ₃ ≥5 mg/L	0.47	5	2.35	
Percent of wells with NO ₃ ≥ 10 mg/L	0.07	10	0.70	
Water Quality Total			4.65	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Increases=Decreases
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			12.65	

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**2014 Nitrate Priority Area 28
Homedale**

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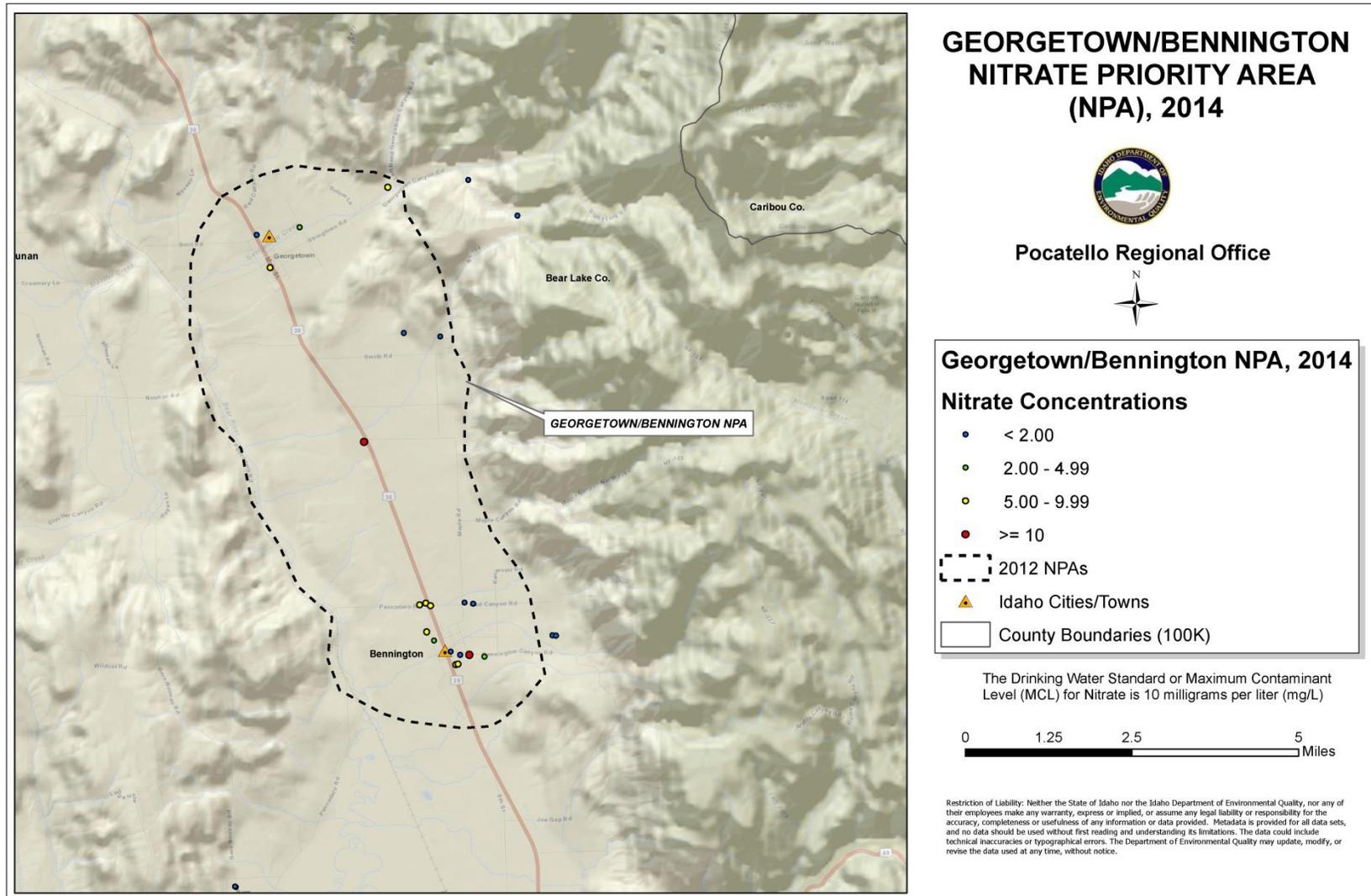
2014 Homedale NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	24		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	16.00		
Middle Nitrate Value (mg/L)	2.05		
Average Nitrate Value (mg/L)	4.16		
Number of Sites less than 2 mg/L	11		
Percent of Sites less than 2 mg/L	45.83		
Number of Sites greater than or equal to 2 mg/L	13		
Percent of Sites greater than or equal to 2 mg/L	54.16		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	3		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	12.50		
Number of Sites greater than or equal to 5 mg/L	10		
Percent of Sites greater than or equal to 5 mg/L	41.67		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	7		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	29.17		
Number of Sites greater than or equal to 10 mg/L	3		
Percent of Sites greater than or equal to 10 mg/L	12.50		
Number of Public Water Systems	0		1
Number of Source Water Delineated Areas Intersecting NPA	1		
Sites sampled by DEQ	2		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	1		
Sites sampled by ISDA	20		
Population within NPA, based on 2010 Census	478		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 28		Priority Area Name: Homedale		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	478
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	3
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃≥10 mg/l				
0	0			
1 to 5	1	x	1	3
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			3	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration		
		Criteria		
Percent of wells with NO ₃ ≥2 mg/l	0.54	2	1.08	
Percent of wells with NO ₃ ≥5 mg/l	0.42	5	2.10	
Percent of wells with NO ₃ ≥ 10 mg/l	0.13	10	1.30	
Water Quality Total			4.48	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			12.48	

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**2014 Nitrate Priority Area 29
Georgetown/Bennington**

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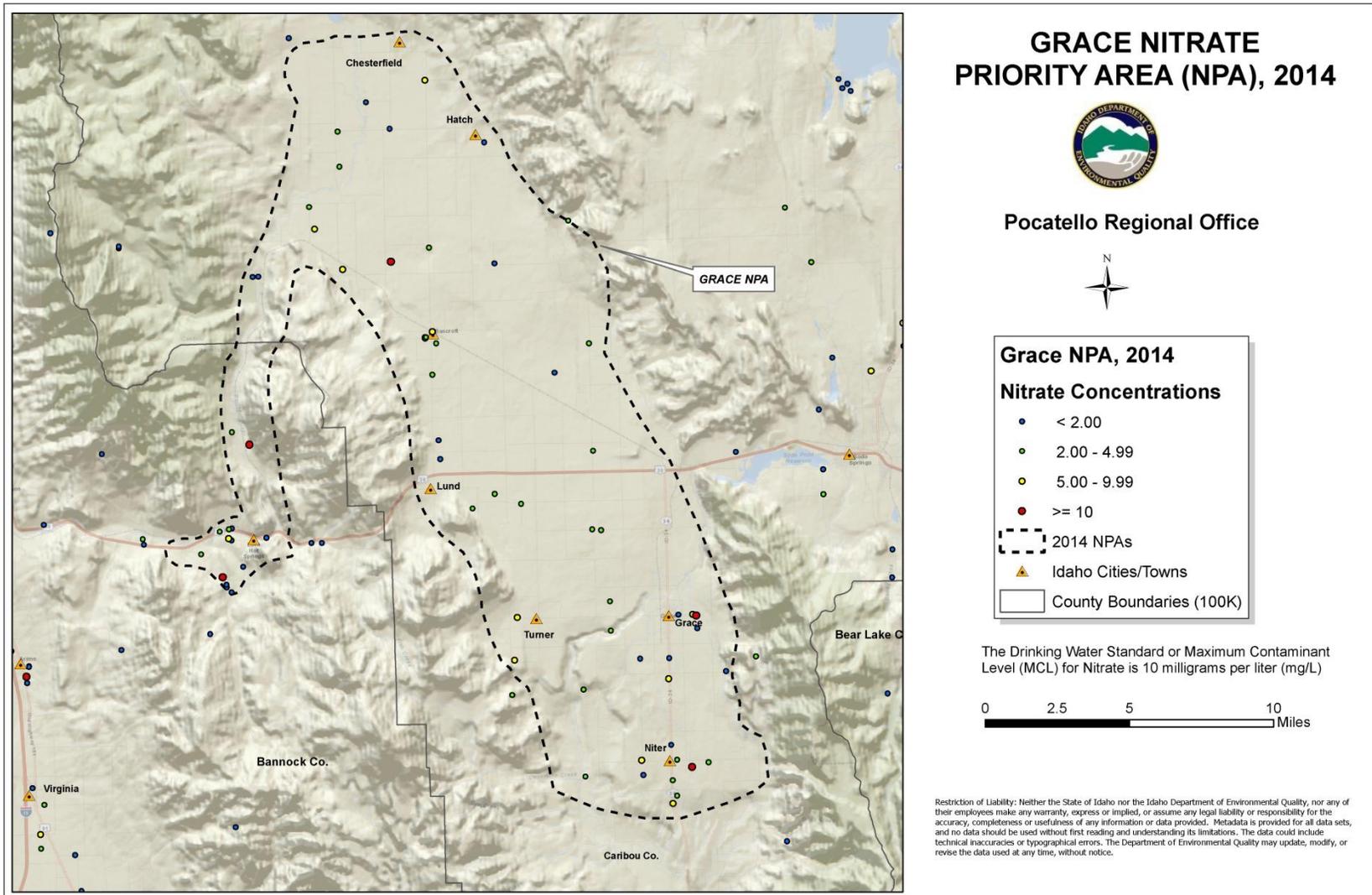
2014 Georgetown/Bennington NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	22		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	13.30		
Middle Nitrate Value (mg/L)	4.89		
Average Nitrate Value (mg/L)	4.72		
Number of Sites less than 2 mg/L	7		
Percent of Sites less than 2 mg/L	31.82		
Number of Sites greater than or equal to 2 mg/L	15		
Percent of Sites greater than or equal to 2 mg/L	68.18		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	4		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	18.18		
Number of Sites greater than or equal to 5 mg/L	11		
Percent of Sites greater than or equal to 5 mg/L	50.00		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	9		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	40.91		
Number of Sites greater than or equal to 10 mg/L	2		
Percent of Sites greater than or equal to 10 mg/L	9.09		
Number of Public Water Systems	4		4
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	10		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	3		
Sites sampled by ISDA	5	5	
Population within NPA, based on 2010 Census	795		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 29		Priority Area Name: Georgetown/Bennington		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	795
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	4
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	2
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			3	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.68	2	1.36	
Percent of wells with NO ₃ ≥ 5 mg/L	0.50	5	2.50	
Percent of wells with NO ₃ ≥ 10 mg/L	0.09	10	0.90	
Water Quality Total			4.76	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Insufficient Data
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			12.46	

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**2014 Nitrate Priority Area 30
Grace**

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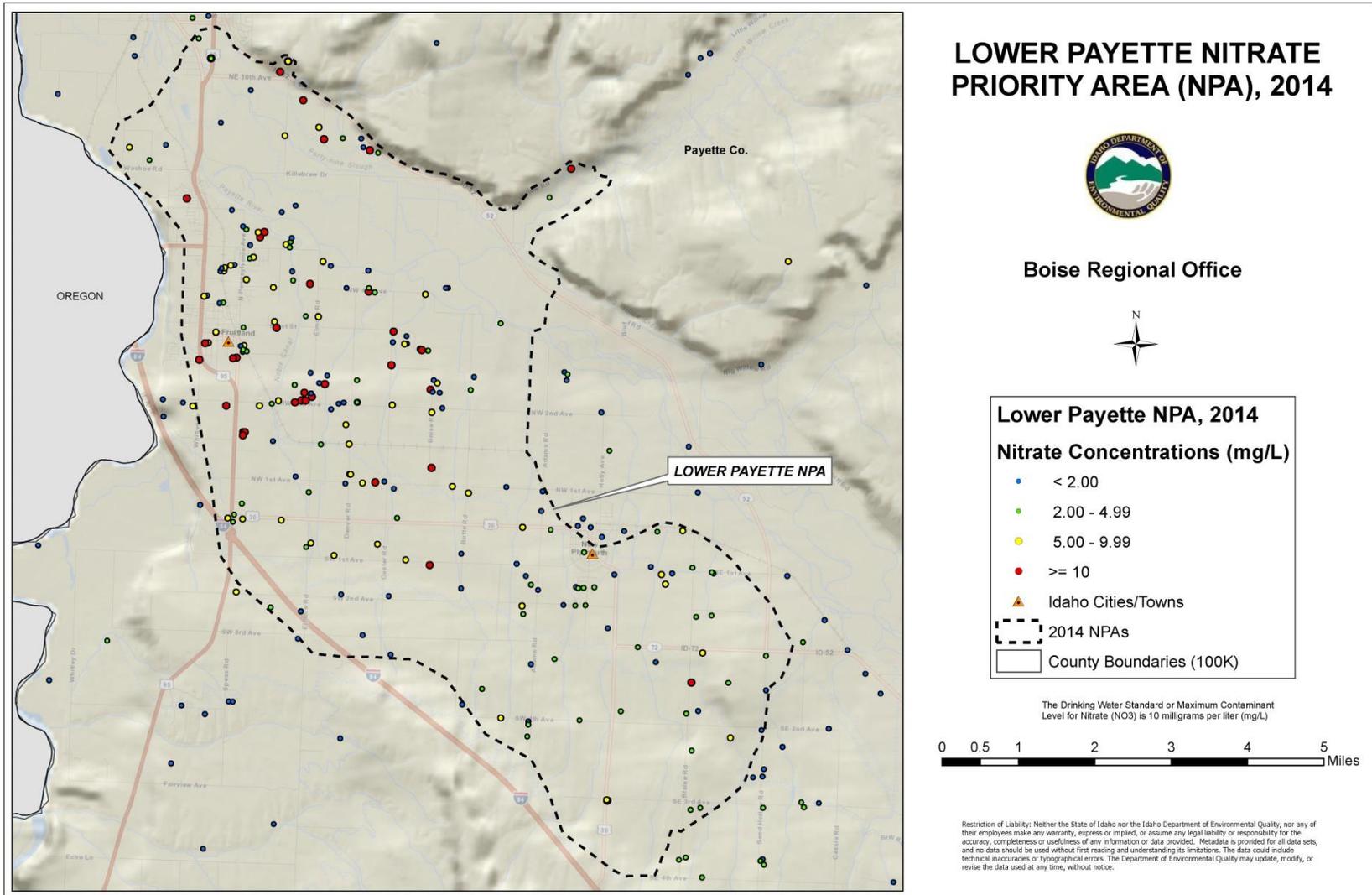
2014 Grace NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	69		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	37.2		
Middle Nitrate Value (mg/L)	3.20		
Average Nitrate Value (mg/L)	4.54		
Number of Sites less than 2 mg/L	23		
Percent of Sites less than 2 mg/L	33.33		
Number of Sites greater than or equal to 2 mg/L	46		
Percent of Sites greater than or equal to 2 mg/L	66.67		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	28		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	40.58		
Number of Sites greater than or equal to 5 mg/L	18		
Percent of Sites greater than or equal to 5 mg/L	26.09		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	13		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	18.84		
Number of Sites greater than or equal to 10 mg/L	5		
Percent of Sites greater than or equal to 10 mg/L	7.25		
Number of Public Water Systems	16		16
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	0		
Sites sampled by IDWR	13		
Sites sampled by the U.S.G.S.	18		
Sites sampled by ISDA	22	9	
Population within NPA, based on 2010 Census	2977		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 30		Priority Area Name: Grace		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	2977
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	16
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/l				
0	0			
1 to 5	1	x	1	1
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			4	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/l	0.67	2	1.34	
Percent of wells with NO ₃ ≥ 5 mg/l	0.26	5	1.30	Increases=Decreases
Percent of wells with NO ₃ ≥ 10 mg/l	0.07	10	0.70	
Water Quality Total			3.34	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			12.34	

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**2014 Nitrate Priority Area 31
Lower Payette**

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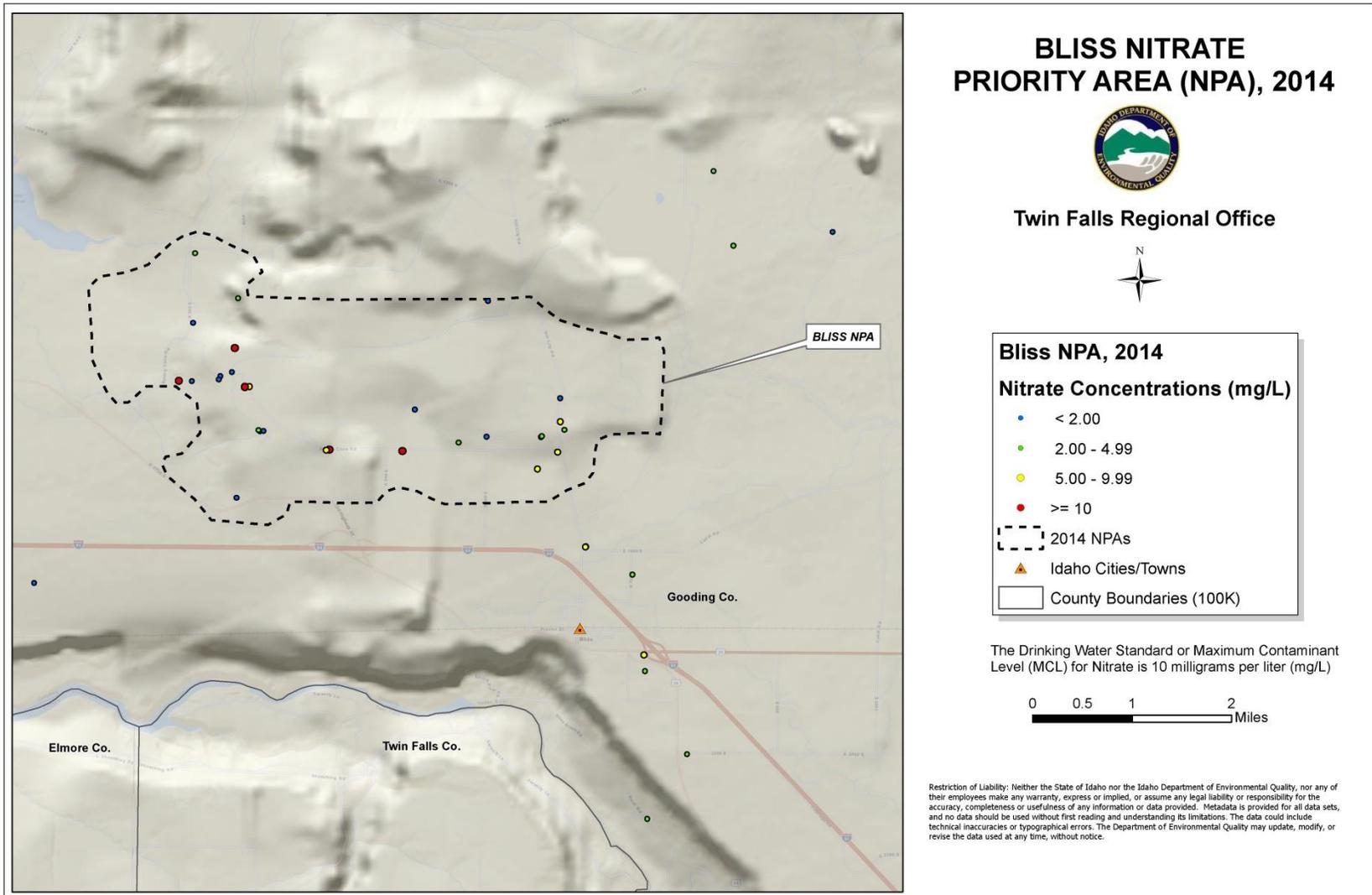
2014 Lower Payette NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	246		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	61.00		
Middle Nitrate Value (mg/L)	4.11		
Average Nitrate Value (mg/L)	5.91		
Number of Sites less than 2 mg/L	77		
Percent of Sites less than 2 mg/L	31.30		
Number of Sites greater than or equal to 2 mg/L	169		
Percent of Sites greater than or equal to 2 mg/L	68.29		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	66		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	26.83		
Number of Sites greater than or equal to 5 mg/L	103		
Percent of Sites greater than or equal to 5 mg/L	41.87		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	65		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	26.42		
Number of Sites greater than or equal to 10 mg/L	38		
Percent of Sites greater than or equal to 10 mg/L	15.45		
Number of Public Water Systems	19		39
Number of Source Water Delineated Areas Intersecting NPA	20		
Sites sampled by DEQ	147		
Sites sampled by IDWR	4		
Sites sampled by the U.S.G.S.	3		
Sites sampled by ISDA	73	18	
Population within NPA, based on 2010 Census	8755		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 31		Priority Area Name: Lower Payette		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	8755
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	39
>40	3			
Subtotal			2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2			
21 to 40	3	x	3	38
>40	4			
Subtotal			3	
Population Score Total			7	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.68	2	1.36	
Percent of wells with NO ₃ ≥ 5 mg/L	0.42	5	2.10	
Percent of wells with NO ₃ ≥ 10 mg/L	0.15	10	1.50	
Water Quality Total			4.96	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0	x	0	
Trend Score			0	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			11.96	

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**2014 Nitrate Priority Area 32
Bliss**

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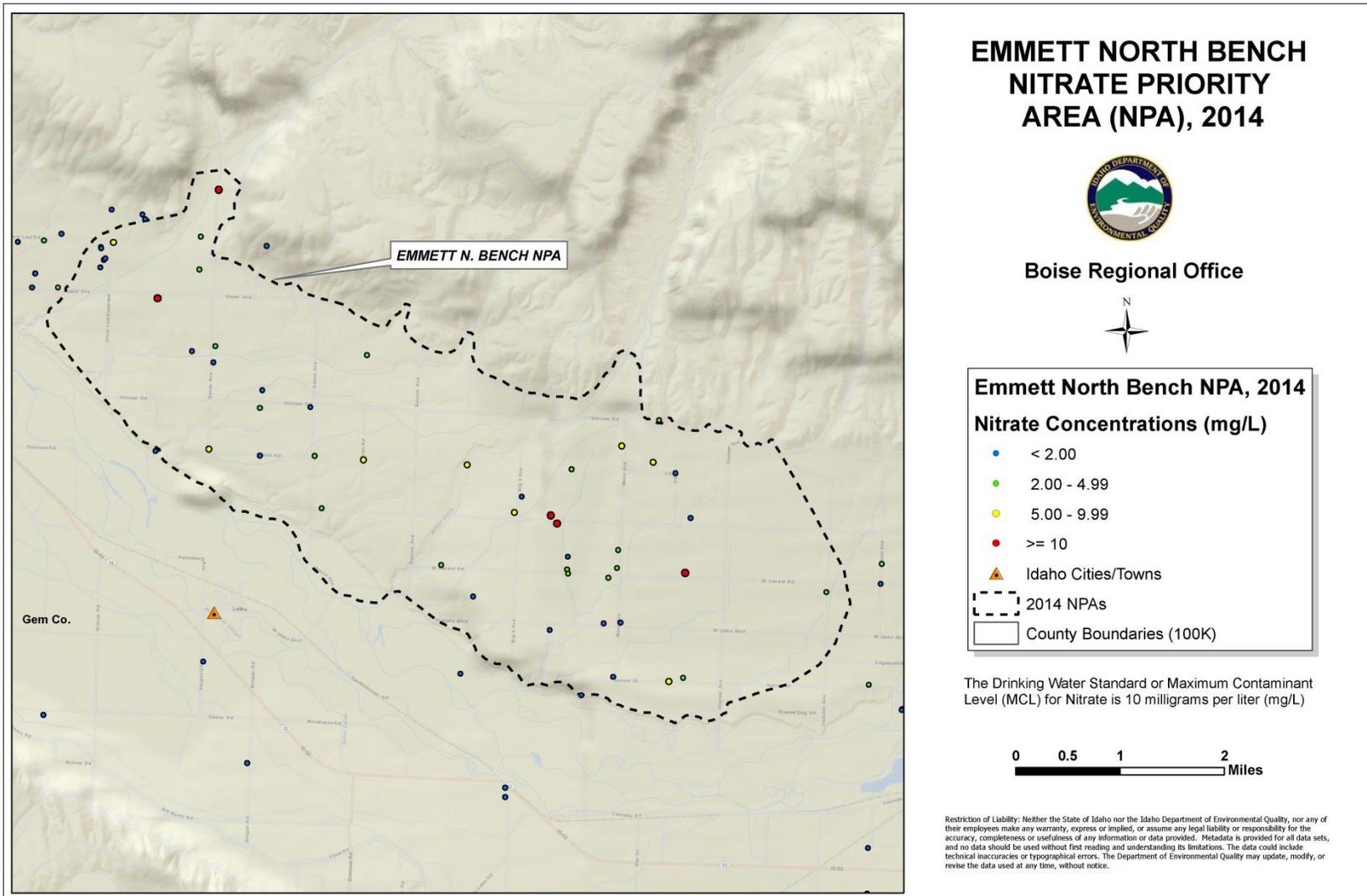
2014 Bliss NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	29		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	45.00		
Middle Nitrate Value (mg/L)	3.17		
Average Nitrate Value (mg/L)	5.25		
Number of Sites less than 2 mg/L	10		
Percent of Sites less than 2 mg/L	34.48		
Number of Sites greater than or equal to 2 mg/L	19		
Percent of Sites greater than or equal to 2 mg/L	65.52		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	9		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	31.03		
Number of Sites greater than or equal to 5 mg/L	10		
Percent of Sites greater than or equal to 5 mg/L	34.48		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	5		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	17.24		
Number of Sites greater than or equal to 10 mg/L	5		
Percent of Sites greater than or equal to 10 mg/L	17.24		
Number of Public Water Systems	0		0
Number of Source Water Delineated Areas Intersecting NPA	0		
Sites sampled by DEQ	0		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	0		
Sites sampled by ISDA	28	2	
Population within NPA, based on 2010 Census	67		
*Included with ISDA sampled sites			
**Sum of Source Water Delineties intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 32		Priority Area Name: Bliss		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	67
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0	x	0	
1 to 20	1			
21 to 40	2			
>40	3			
Subtotal			0	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	5
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			2	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.66	2	1.32	
Percent of wells with NO ₃ ≥ 5 mg/L	0.34	5	1.70	
Percent of wells with NO ₃ ≥ 10 mg/L	0.17	10	1.70	
Water Quality Total			4.72	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			11.72	

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**2014 Nitrate Priority Area 33
Emmett North Bench**

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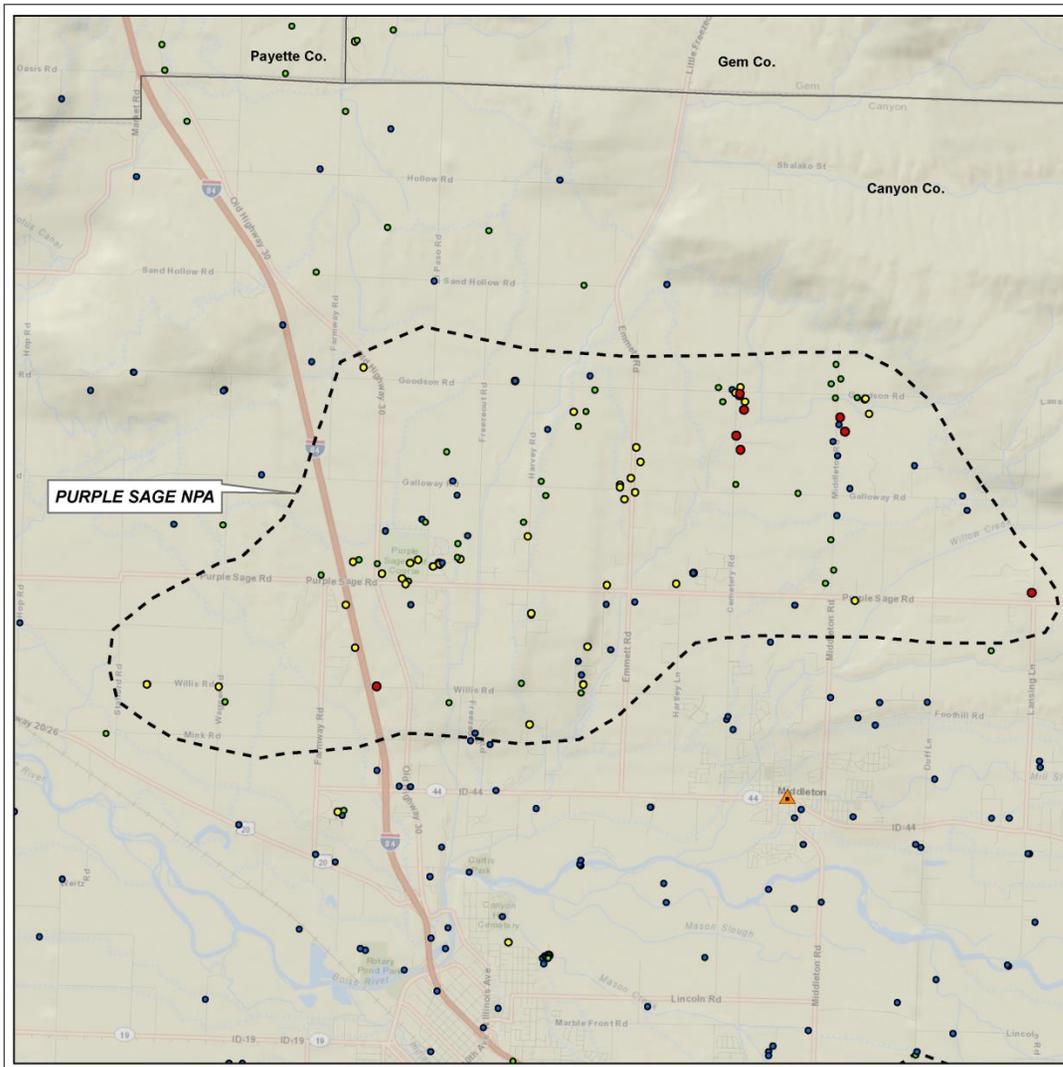
2014 Emmett North Bench NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	53		
Minimum Nitrate Value (mg/L)	0		
Maximum Nitrate Value (mg/L)	22.80		
Middle Nitrate Value (mg/L)	2.80		
Average Nitrate Value (mg/L)	3.87		
Number of Sites less than 2 mg/L	20		
Percent of Sites less than 2 mg/L	37.74		
Number of Sites greater than or equal to 2 mg/L	33		
Percent of Sites greater than or equal to 2 mg/L	62.26		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	20		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	37.74		
Number of Sites greater than or equal to 5 mg/L	13		
Percent of Sites greater than or equal to 5 mg/L	24.53		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	8		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	15.09		
Number of Sites greater than or equal to 10 mg/L	5		
Percent of Sites greater than or equal to 10 mg/L	9.43		
Number of Public Water Systems	1		3
Number of Source Water Delineated Areas Intersecting NPA	2		
Sites sampled by DEQ	20		
Sites sampled by IDWR	1		
Sites sampled by the U.S.G.S.	3		
Sites sampled by ISDA	28	11	
Population within NPA, based on 2010 Census	865		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 33		Priority Area Name: Emmett North Bench		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1	x	1	865
1000 to 10,000	2			
>10,001	3			
Subtotal			1	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1	x	1	3
21 to 40	2			
>40	3			
Subtotal			1	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1	x	1	5
6 to 20	2			
21 to 40	3			
>40	4			
Subtotal			1	
Population Score Total			3	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.62	2	1.24	
Percent of wells with NO ₃ ≥ 5 mg/L	0.25	5	1.25	
Percent of wells with NO ₃ ≥ 10 mg/L	0.09	10	0.9	
Water Quality Total			3.39	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0	x	5	Increases= Decreases
Decreasing Tendency	2.5			
Decreasing Trend	0			
Trend Score			5	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			11.39	

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**2014 Nitrate Priority Area 34
Purple Sage**

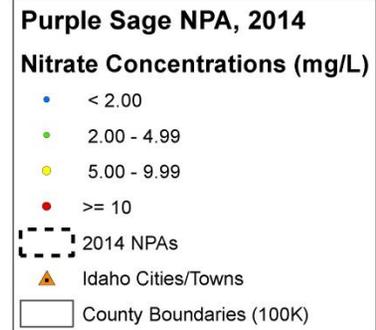
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PURPLE SAGE NITRATE PRIORITY AREA (NPA), 2014



Boise Regional Office



The Drinking Water Standard or Maximum Contaminant Level (MCL) for Nitrate is 10 milligrams per liter (mg/L)



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2014 Purple Sage NPA Summary		Dairies*	SWA + PWS**
Number of Sampled Sites	120		
Minimum Nitrate Value (mg/L)	0.01		
Maximum Nitrate Value (mg/L)	27.00		
Middle Nitrate Value (mg/L)	4.55		
Average Nitrate Value (mg/L)	5.28		
Number of Sites less than 2 mg/L	28		
Percent of Sites less than 2 mg/L	23.33		
Number of Sites greater than or equal to 2 mg/L	92		
Percent of Sites greater than or equal to 2 mg/L	76.67		
Number of Sites greater than equal to 2 mg/L but less than 5 mg/L	37		
Percent of Sites greater than equal to 2 mg/L but less than 5 mg/L	30.83		
Number of Sites greater than or equal to 5 mg/L	55		
Percent of Sites greater than or equal to 5 mg/L	45.83		
Number of Sites greater than equal to 5 mg/L but less than 10 mg/L	44		
Percent of Sites greater than equal to 5 mg/L but less than 10 mg/L	36.67		
Number of Sites greater than or equal to 10 mg/L	11		
Percent of Sites greater than or equal to 10 mg/L	9.17		
Number of Public Water Systems	12		24
Number of Source Water Delineated Areas Intersecting NPA	12		
Sites sampled by DEQ	65		
Sites sampled by IDWR	6		
Sites sampled by the U.S.G.S.	5		
Sites sampled by ISDA	32	9	
Population within NPA, based on 2010 Census	4032		
*Included with ISDA sampled sites			
**Sum of Source Water Delineations intersecting a NPA and the number of Public Water System Sources within a NPA			

Priority Area Number: 34		Priority Area Name: Purple Sage		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	x	2	4032
>10,001	3			
Subtotal			2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0			
1 to 20	1			
21 to 40	2	x	2	24
>40	3			
Subtotal			2	
c) Number of Wells with NO₃ ≥ 10 mg/L				
0	0			
1 to 5	1			
6 to 20	2	x	2	11
21 to 40	3			
>40	4			
Subtotal			2	
Population Score Total			6	
Max Possible Score = 10				
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with NO ₃ ≥ 2 mg/L	0.77	2	1.54	
Percent of wells with NO ₃ ≥ 5 mg/L	0.46	5	2.30	
Percent of wells with NO ₃ ≥ 10 mg/L	0.09	10	0.90	
Water Quality Total			4.74	
3) WATER QUALITY TRENDS				
		Select One		
Increasing Trend	10.0			
Increasing Tendency	7.5			
No Discernable Trend	5.0			
Decreasing Tendency	2.5			
Decreasing Trend	0	x	0	
Trend Score			0	
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	1	Yes=1 No = 0	0	
Beneficial use score			0	
Max Possible Score = 1				
Total Score			10.74	