From: Peven, Grace (gpeven@uidaho.edu) <gpeven@uidaho.edu>
Sent: Tuesday, November 10, 2026 3:10 PM
To: Cynda Herrick <cherrick@valleycountyid.gov>
Subject: Materials for commission meeting on Thursday

Hi Cynda,

Looking forward to presenting on Thursday. I've attached an example groundwater supply report that was generated from our online tool for a random area of interest in the county. If you'd like to distribute this prior to the meeting to the commission and staff, feel free to do so. Part of my presentation will be going over the report, its contents, and most importantly receiving feedback from you all on what additional information or analysis you'd like to see. Note that the report may contain spelling errors, etc. since this tool is still in development.

Thanks again and let me know if you have any questions prior to the meeting.

Grace

Grace Peven, Ph.D. (*she/her*)
Research Scientist, Idaho Water Resources Research Institute (IWRRI)

IDAHO WATER RESOURCES RESEARCH INSTITUTE · UNIVERSITY OF IDAHO

Area of Interest Water Supply Report

Valley County, Idaho · Generated Nov 10, 2026, 6:39 AM MT · Search radius 0.00 mi

Disclaimer: This report summarizes publicly available records (IDWR, USGS, NRCS, IGS, Valley County) and preliminary products calculated by the dashboard, for planning and screening only. Well records are self-reported at construction and may be incomplete or contain errors, and statistics describe wells near the area, not conditions at any one site. This report is not intended for legal, regulatory or water-rights determinations; consult IDWR and a qualified professional before making water-supply decisions.

Note: This report includes wells drilled before 1990.

Most wells drilled before 1990 were located with the quarter-quarter method, before GPS: the record names the 40-acre quarter-quarter section the well is in, and the well is placed at the centre of that section. Its position on the map may not reflect where it was actually drilled, and several wells can share one point.

Included by default. These wells are included on the map, in your selection, in data downloads and in water-supply reports. Because their locations are approximate, they may influence certain statistics, such as decadal well depth.

To exclude them. Turn off Show wells built before 1990 to exclude wells constructed before 1990. The report then notes at the top that they are not included. Wells you pick one at a time are always included.

Statistics use wells within 0.00 miles of the AOI boundary (geodesic buffer; 0 miles means inside the AOI only); land cover is reported for the AOI and for the same search area. Areas use Idaho Transverse Mercator (EPSG:8826). Well depth and production rate values of zero are treated as missing. Prepared by the Idaho Water Resources Research Institute (IWRRI), University of Idaho.

Section A. Overall summary

Table A1. Area summary

AOI area	1,177.0 acres
Search radius	None (AOI only)
County	Valley
HUC 8 basin	North Fork Payette (17050123)
HUC 10 basin	Lake Fork-North Fork Payette River (1705012302)
Irrigation district	Lake Irrigation District
Water district	Water District 65 (Payette River and Tributaries), Water District 65K (Lake Fork Creek)
Administrative basin	Administrative Basin 65
Date generated	Nov 10, 2026, 6:39 AM MT

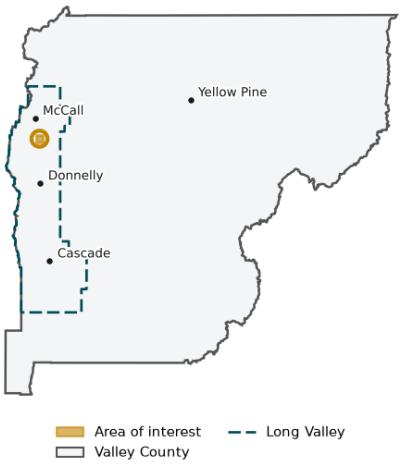

Figure A1. The area of interest in Valley County.

County, HUC, irrigation and water district describe the area of interest itself, not the search radius.

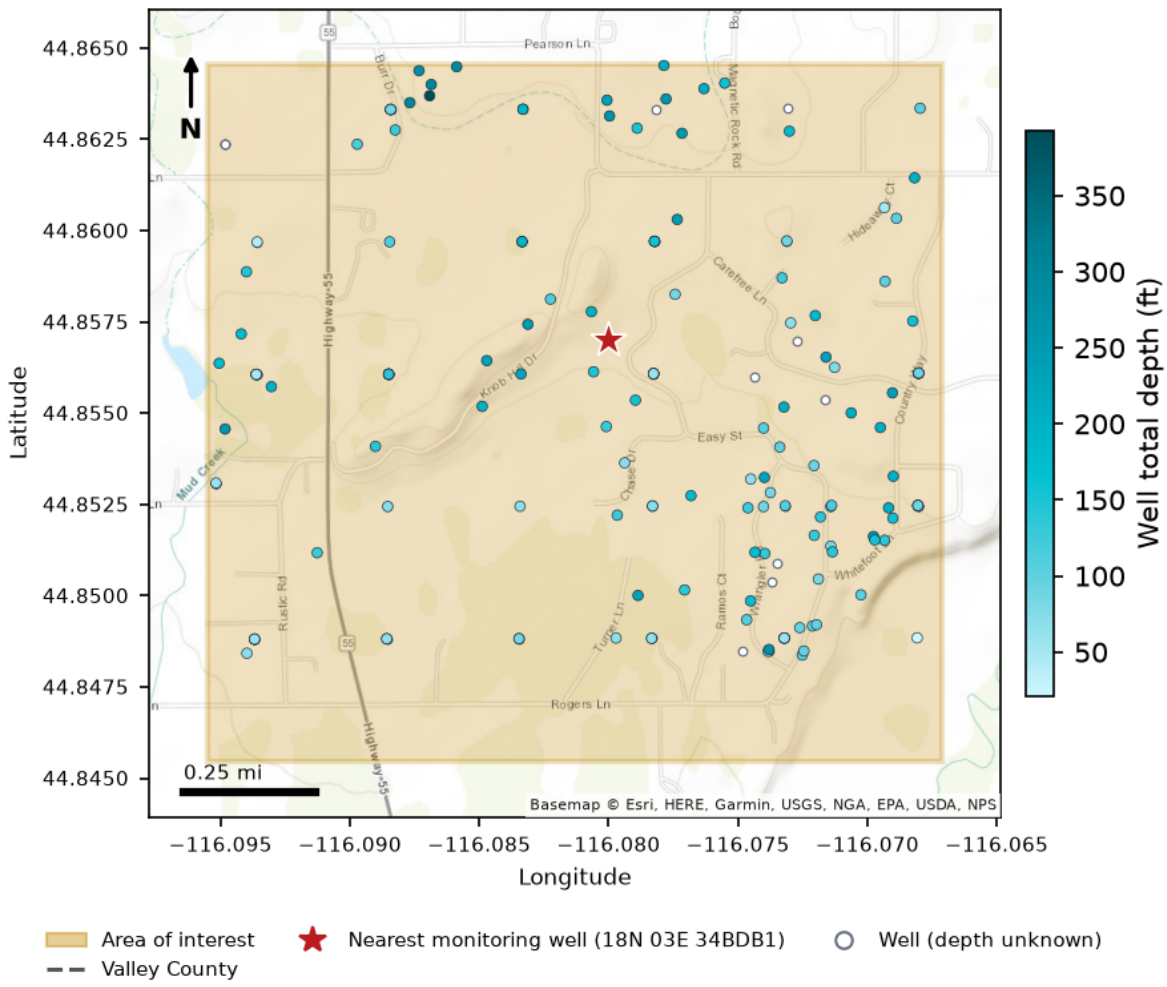

Figure A2. Site map: the area of interest, nearby wells colored by total depth and the nearest monitoring well.

Section B. Well data summary

Well statistics (AOI only)

Table B1. Wells in the search area

Wells in the AOI	220

Statistics below use all wells in the AOI (no search radius).

Table B2. Well depth, static water level, and production rate (wells in the AOI)

Measure	n	Mean	Std dev	Min	Median	Max	Units
Total well depth	147	137.52	68.66	21.00	123.00	393.00	ft, depth below land surface
Static water level	212	61.27	33.54	8.00	52.00	163.00	ft, depth below land surface
Production rate	201	31.67	63.66	5.00	20.00	800.00	gpm

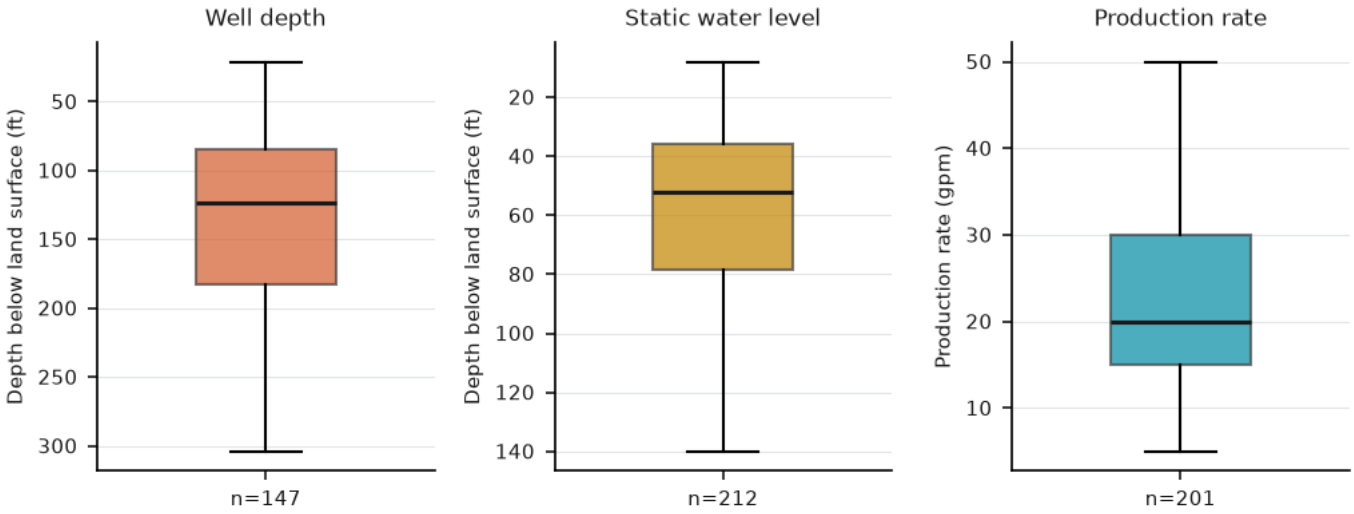

Figure B1. Well depth, static water level and production rate for wells in the AOI, each on its own scale: box spans the 25th–75th percentile, the line is the median, whiskers reach the furthest value within 1.5 times the box height. Values beyond the whiskers are not drawn, so a few very large wells do not flatten the boxes; the full range is in the table above.

Well construction by year

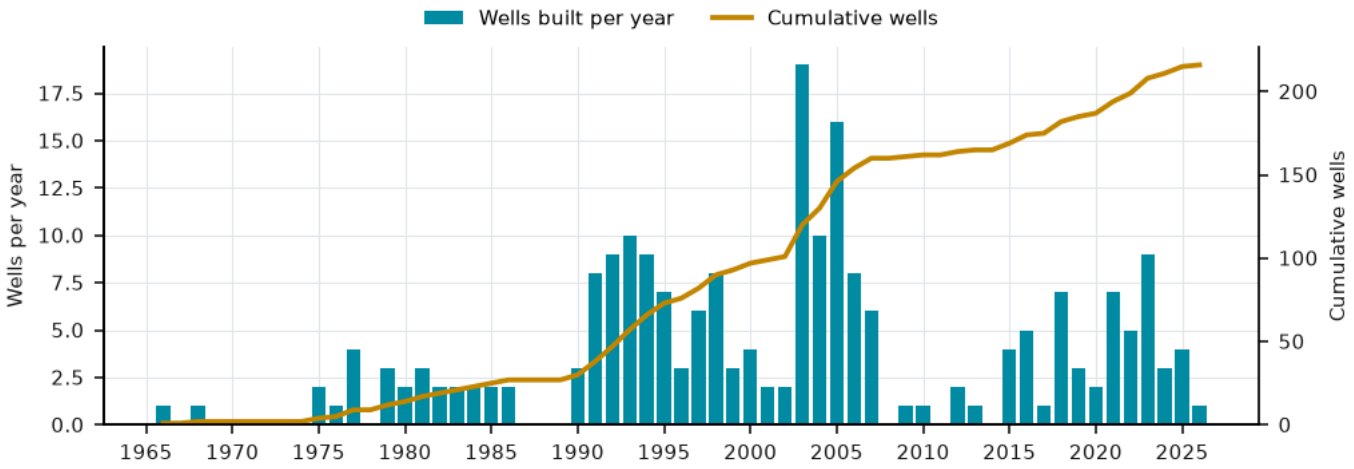

Figure B2. Wells built per year (bars) and the running total (line), wells in the AOI. 4 wells have no construction date (or one before 1900) and are not counted by year. Table B3, the yearly counts, is in the Excel workbook (sheet “B Construction by year”).

Wells by use

Table B4. Number of wells by reported use

Well use	Wells
Domestic-Single Residence	118
Unknown	98
Domestic	3
Irrigation	1

Section C. Groundwater supply

Nearest monitoring well

Table C1. Nearest monitoring well

Station	18N 03E 34BDB1
Distance from AOI	0.00 mi (within search radius)
Record	597 observations, 2021-11-17 to 2026-04-08
Latest depth to water	89.21 ft

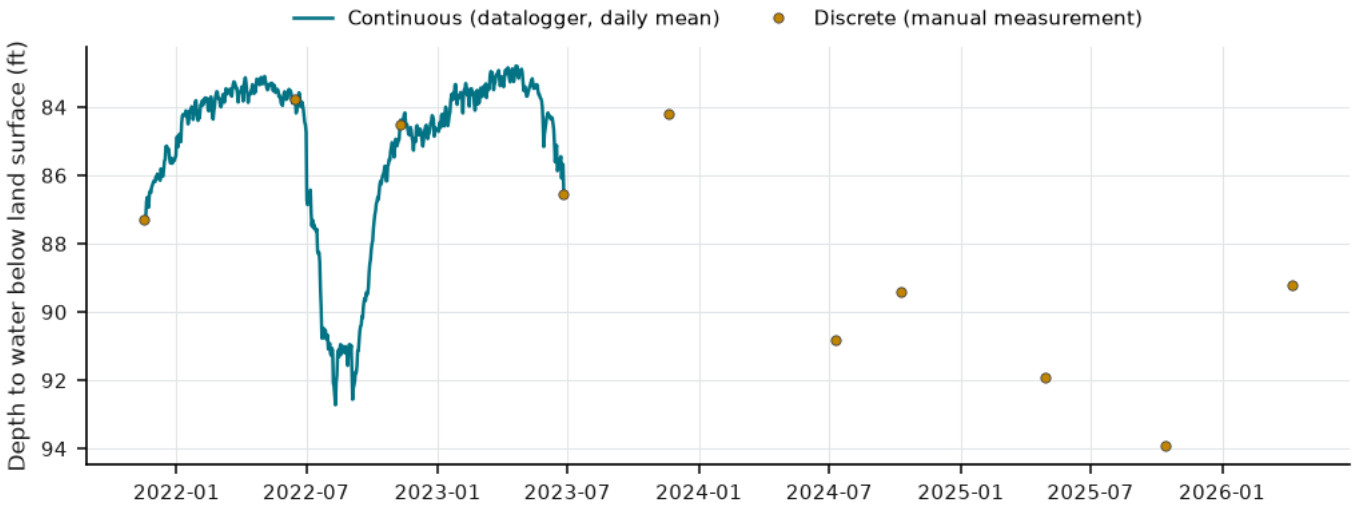

Figure C1. Hydrograph of depth to water at 18N 03E 34BDB1. Lower on the chart means deeper water.

Decadal change in wells (by construction decade; wells in the AOI)

> Disclaimer: well depth change does not necessarily represent aquifer level changes. Changes in well depth over time can represent water quality considerations, diverse substrate, and other factors

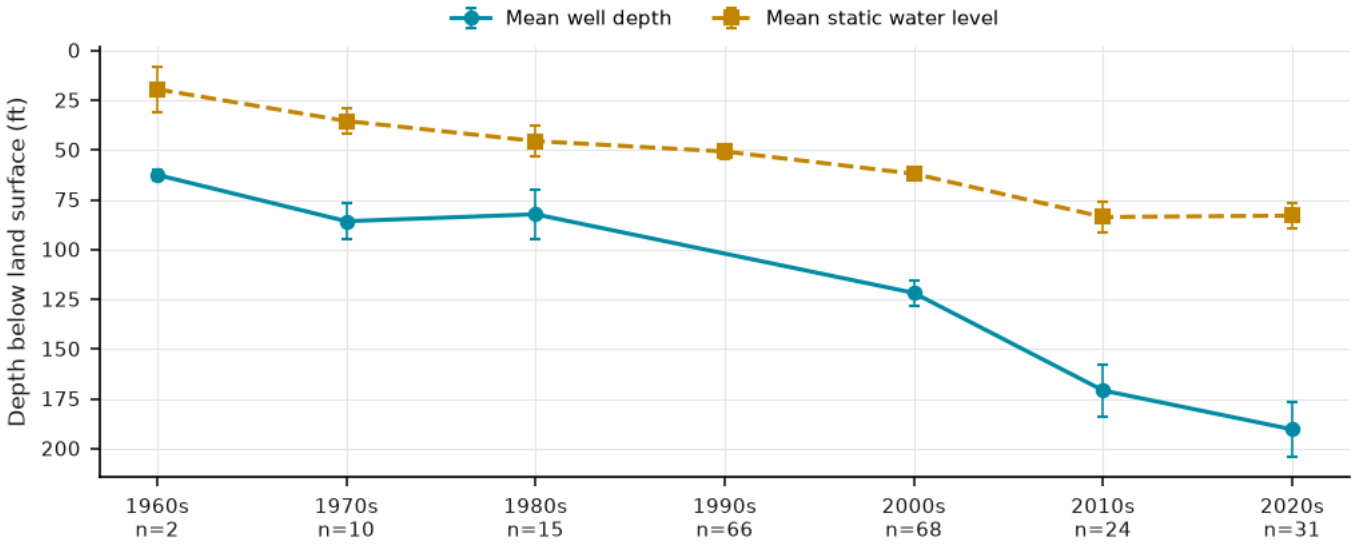

Figure C2. Mean well depth and mean static water level by construction decade, with standard-error bars. The number under each decade (n=) is the wells built in it.

Table C2. Mean ± standard error by construction decade, wells in the AOI. Change is each decade's mean minus the previous decade's. Positive values mean deeper wells or a deeper static water level than the decade before; negative values mean shallower.

Decade	Wells	Mean well depth, depth below land surface (ft) ± SE	Depth change (ft)	Mean SWL, depth below land surface (ft) ± SE	SWL change (ft)
1960s	2	62.5 ± 2.5	—	19.5 ± 11.5	—
1970s	10	85.8 ± 9.2	23.3	35.4 ± 6.5	15.9
1980s	15	82.3 ± 12.2	-3.5	45.5 ± 7.9	10.1
1990s	66	—	—	50.8 ± 3.5	5.2
2000s	68	121.8 ± 6.3	—	61.9 ± 3.6	11.2
2010s	24	170.8 ± 13.1	49.0	83.7 ± 7.8	21.7
2020s	31	190.4 ± 14.0	19.6	83.0 ± 6.1	-0.7

SWL = static water level; SE = standard error of the mean. Wells grouped by construction decade; change is versus the previous decade with data.

Section D. Estimated groundwater demand

> In development: groundwater pumping estimates will be added in a later version.

Section E. Water rights

Table E1. Active water rights and maximum authorized diversion volume, in the AOI

Supply	Active rights in the AOI	Authorized volume, AOI (acre-feet)
Groundwater	51	395.9
Surface water	15	782.0
Total	**66**	**1,178.0**

Source: IDWR points of diversion. Each active water right is counted once, even with several points of diversion. Volume is IDWR's maximum diversion volume; where a right has none it is the maximum diversion rate (cfs) × 184 days × 1.9835 (24 rights in the search area). Springs, drains and waste water count as surface water.

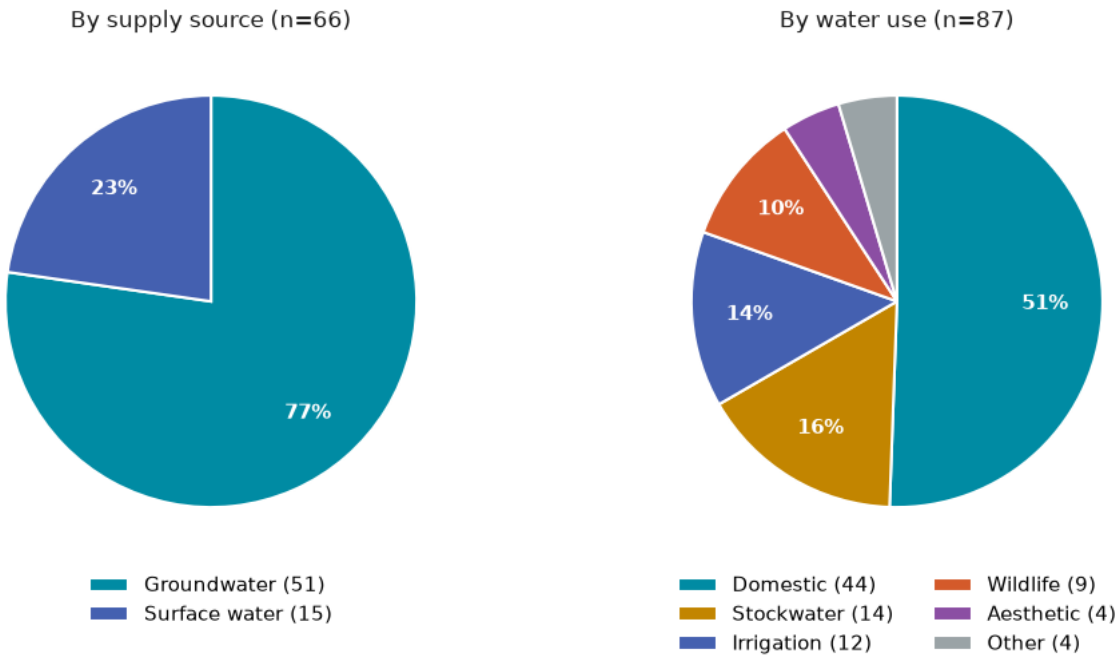

Figure E1. Active water rights in the AOI, by supply source and by beneficial use. A right with several uses counts under each, so the use chart can total more than the number of rights. Storage uses are grouped with their use (irrigation storage counts as irrigation); uses held by under 3% of rights are grouped as Other.

Section F. Physical information (within the AOI)

Surface geology

Source: surface geology, Surficial Geologic Map of Long Valley (IGS DWM-68, 1:24,000). Wells counted in the AOI.

Table F1. Surface geology units in the AOI; wells counted in the AOI

Geologic type	Characteristics	% of AOI	Number of wells within geologic unit	Mean well depth, depth below land surface (ft)
Qgr2 Recessional, ice contact and end moraine deposits of pre-late Pleistocene glaciation Sedimentary	pre-late Pleistocene. Surface: cobbly and bouldery silty clay and clayey silt; brown and dark brown. 0.5-2 meters: gravelly sandy clayey silt and gravelly clayey silty sand; pebble-to boulder-sized gravel dark brown, brown, and yellowish brown. Below 2 meters; massive unsorted till: consists of gravelly silty sand; pebble to boulder-sized gravel clasts, brown and gray. Grades laterally into and includes water-laid till and ice contact and meltwater deposits. Unstratified to stratified and angular to subrounded clasts. Occasional very large rounded boulders of basalt and granite. Forms hummocky stagnation moraine, with closed depressions and immature drainage, and recessional moraines with subdued crests deposited during pre-Wisconsin, Bull Lake glaciation. Soil series include the Archabal. Thickness variable to tens of meters.	46.8	106	152
Qgo2 Outwash deposits of pre-late Pleistocene glaciation Sedimentary	pre-late Pleistocene. Surface: silty sand and clayey silt; brown and dark brown. 0.5-2 meters; sandy clayey silt, clayey silt, clayey silty sand, and pebbly sand; dark brown, brown, and yellowish brown. Below 2 meters: silty sand, sand, and pebbly sand; brown , pale brown, and light gray. Pebble clasts, rounded to subrounded. Forms flat to gently undulating remnants of a broad plain of outwash graded to end moraine deposits of pre-Wisconsin, Bull Lake glaciation (Qgt2 and Qgr2). Includes narrow dissected channels of younger ages. Soil series include the Archabal. Thickness 10 feet to more than 40 feet.	42.9	106	118
Qgt2 Till deposits of pre-late Pleistocene glaciation Sedimentary	pre-late Pleistocene. Surface: cobbly and bouldery silty clay and clayey silt; brown and dark brown. 0.5-2 meters: gravelly sandy clayey silt and gravelly clayey silty sand; pebble-to boulder-sized gravel dark brown, brown, and yellowish brown. Below 2 meters: massive unsorted till; consists of gravelly silty sand; pebble to boulder-sized gravel clasts; brown and gray. Gravel clasts primarily subangular to angular; many faceted. Forms large massive lateral and end moraines deposited during pre-Wisconsin, Bull Lake glacial advances. Equivalent to till of Timber Ridge age of Colman and Pierce (1983). Soil series include the McCall. Thickness 40 feet to more than 80 feet.	6.3	7	194
Qgo1o Outwash of older late-Pleistocene glaciation Sedimentary	late Pleistocene. Surface: silty sand, silty pebbly sand, sandy gravel, local silt, and clay, pale brown, yellowish brown and dark brown (locally mottled: gray, yellow, brown, and olive). Below 1 meter: (primarily gravel) silty sandy gravel and gravelly coarse sand; granule- to small boulder-sized clasts; Forms large outwash plain graded to early Wisconsin, older Pinedale glaciation end moraines in McCall (Qgr1o). Equivalent to outwash of McCall age of Colman and Pierce (1983). Soil series include the Roseberry. Thickness 20 feet to more than 40 feet.	3.4	1	21

Geologic type	Characteristics	% of AOI	Number of wells within geologic unit	Mean well depth, depth below land surface (ft)
Qam Alluvium of mainstreams Sedimentary	Holocene. Variable clayey silt, silty sand, gravelly sand and sandy gravel form the flood plain of the North Fork of the Payette River, Lake Fork, Gold Fork, and Boulder Creek. Gravel clasts are rounded to subrounded. Bedding distinct to indistinct in sand and gravel and thin to medium in silt and clay. Soil series include the Blackwell, Donnel, Kangas, Melton, and Roseberry. Thickness 2-10 feet.	0.4	0	—
water Water	—	0.2	0	—

Soils (SSURGO)

Table F2. Soil map units in the AOI (SSURGO)

Map unit	HSG[1]	Ksat (µm/s)[2]	% of AOI
Archabal loam, 4 to 12 percent slopes	B	25.67	32.5
Archabal loam, 2 to 4 percent slopes	B	25.67	26.1
Melton loam	B/D	54.63	13.7
Gestrin loam, 2 to 4 percent slopes, rarely flooded	B	34.35	9.1
Blackwell silt loam, frequently flooded	C/D	52.77	5.2
McCall complex, 5 to 50 percent slopes	A	47.75	4.2
Archabal loam, 12 to 20 percent slopes	B	25.67	4.2
Gestrin loam, 4 to 12 percent slopes, rarely flooded	B	34.35	2.0
Gestrin loam, 0 to 2 percent slopes	C	34.35	0.9
Donnel sandy loam, 2 to 4 percent slopes	A	70.24	0.9
Roseberry, occasionally flooded-Melton, frequently flooded-Jurvannah, frequently flooded complex	B	68.59	0.5
Kangas coarse sandy loam	A	92.00	0.3
Donnel sandy loam, 0 to 2 percent slopes	A	70.24	0.2
Water	—	—	0.2

[1] HSG (hydrologic soil group, A to D): how readily the soil soaks up rain. Group A (mostly sand or gravel) absorbs water fastest and has the least runoff; group D (clay or shallow soil) absorbs it slowest and has the most. A dual group such as A/D means drained/undrained.

[2] Ksat (saturated hydraulic conductivity, micrometres per second): how fast water moves through the soil when it is fully wet. Higher values drain faster; 10 µm/s is about 1.4 inches per hour.

Terrain

Table F3. Terrain of the AOI (USGS 3DEP elevation model)

Elevation	mean 5,038 ft (range 4,958–5,108, 150 ft)
Slope	mean 1.7°, max 14.4°

Land cover (NLCD)

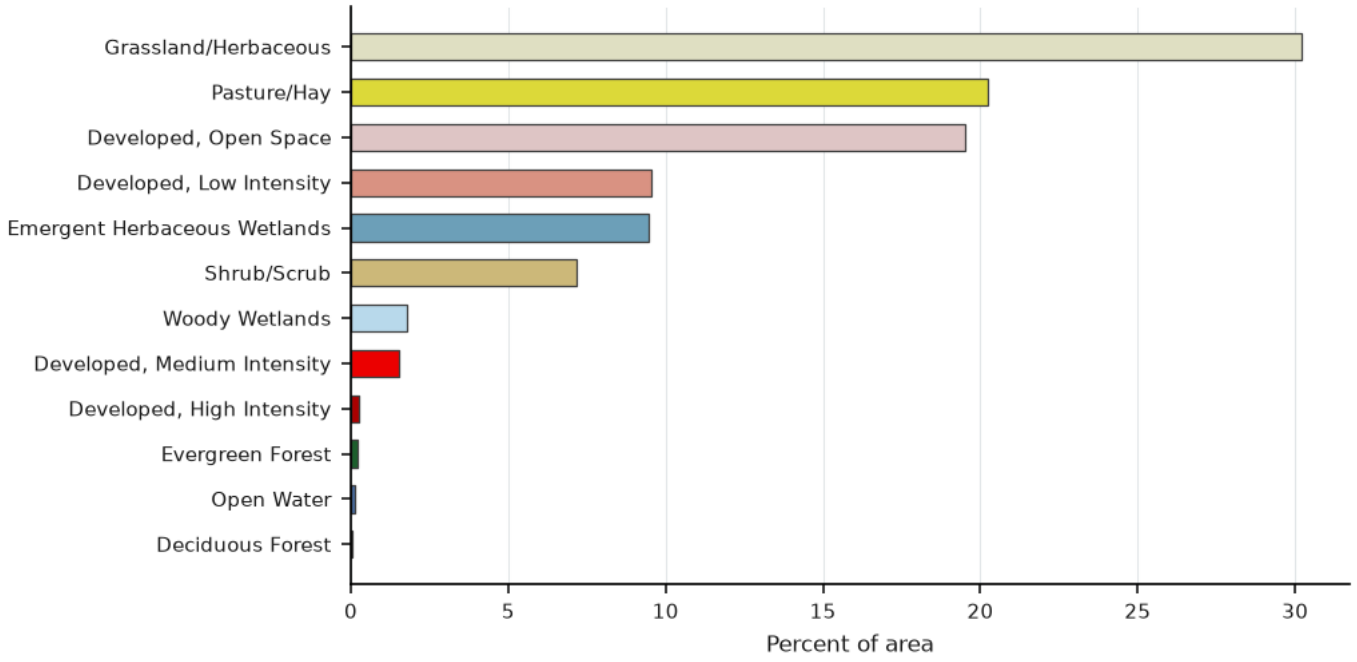

Figure F1. Land cover classes as a share of the AOI, largest first.

Table F4. Land cover share of the AOI (Land cover (Annual NLCD 2025))

Class	% of AOI
Grassland/Herbaceous	30.2
Pasture/Hay	20.2
Developed, Open Space	19.5
Developed, Low Intensity	9.5
Emergent Herbaceous Wetlands	9.4
Shrub/Scrub	7.2
Woody Wetlands	1.8
Developed, Medium Intensity	1.5
Developed, High Intensity	0.2
Evergreen Forest	0.2
Open Water	0.1
Deciduous Forest	0.1

Wells in the AOI

Table B5. Wells in the AOI

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
289333	—	—	51	8.0	1999	0.00
289349	—	—	72	8.0	1999	0.00
289566	—	—	38	10.0	1998	0.00
289589	—	—	108	20.0	1998	0.00
289608	—	—	32	20.0	1998	0.00
289655	—	—	28	12.0	1998	0.00
289719	—	—	46	15.0	1998	0.00
289871	—	—	95	25.0	1999	0.00
289972	—	—	56	12.0	1997	0.00
289979	—	—	44	12.0	1997	0.00
289990	Domestic-Single Residence	—	—	40.0	1997	0.00
290092	—	—	54	15.0	1998	0.00
290162	—	—	28	18.0	1998	0.00
290163	—	—	31	24.0	1998	0.00
290352	—	—	42	6.0	1996	0.00
290486	—	—	24	12.0	1997	0.00
290572	—	—	34	20.0	1997	0.00
290624	—	—	15	40.0	1997	0.00
290739	Domestic-Single Residence	240	118	20.0	2012	0.00
290746	—	—	15	82.0	1995	0.00
290754	—	—	43	15.0	1995	0.00
290756	—	—	74	15.0	1995	0.00
291090	—	—	30	12.0	1996	0.00
291119	—	—	65	25.0	1996	0.00
291230	—	—	37	20.0	1995	0.00
291298	—	—	18	20.0	1995	0.00
291319	—	—	48	30.0	1995	0.00
291329	—	—	50	50.0	1995	0.00
291589	—	—	20	70.0	1994	0.00
291601	—	—	20	60.0	1994	0.00
291669	—	—	20	60.0	1994	0.00
291770	—	—	16	30.0	1994	0.00
291771	—	—	33	30.0	1994	0.00
291887	—	—	37	30.0	1994	0.00
291923	—	—	50	22.0	1993	0.00
291956	—	—	77	14.0	1993	0.00
292003	—	—	28	20.0	1993	0.00
292046	—	—	25	50.0	1993	0.00
292142	—	—	38	22.0	1994	0.00

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
292143	—	—	105	20.0	1994	0.00
292276	—	—	29	30.0	1994	0.00
292321	—	—	27	20.0	1992	0.00
292322	—	—	28	60.0	1992	0.00
292327	—	—	32	20.0	1992	0.00
292336	—	—	68	15.0	1992	0.00
292342	—	—	62	15.0	1992	0.00
292413	—	—	71	8.0	1993	0.00
292571	—	—	63	18.0	1993	0.00
292572	—	—	74	19.0	1993	0.00
292587	—	—	64	40.0	1993	0.00
292590	—	—	60	20.0	1993	0.00
292597	—	—	71	15.0	1993	0.00
292912	—	—	38	35.0	1992	0.00
292931	—	—	24	20.0	1992	0.00
292953	—	—	40	12.0	1992	0.00
293038	—	—	45	20.0	1992	0.00
293181	—	—	55	12.0	1991	0.00
293231	—	—	163	6.0	1991	0.00
293303	—	—	62	20.0	1991	0.00
293316	—	—	110	30.0	1991	0.00
293357	—	—	59	35.0	1991	0.00
293358	—	—	66	30.0	1991	0.00
293359	—	—	64	30.0	1991	0.00
293403	—	—	66	15.0	1991	0.00
293720	—	—	69	20.0	1990	0.00
293761	—	—	115	40.0	1990	0.00
293795	—	—	28	30.0	1990	0.00
293893	—	—	21	60.0	1984	0.00
293950	—	—	30	20.0	1984	0.00
294001	—	—	—	—	—	0.00
294087	—	—	—	—	—	0.00
294098	—	—	—	—	—	0.00
336535	Domestic-Single Residence	101	51	30.0	2000	0.00
337660	Domestic-Single Residence	43	12	75.0	2000	0.00
338450	Domestic-Single Residence	223	160	20.0	2000	0.00
339272	Domestic-Single Residence	200	64	12.0	2000	0.00
342009	—	195	122	12.0	2001	0.00
342092	—	135	73	22.0	2001	0.00
345286	—	41	28	—	1981	0.00
357326	Domestic	36	13	20.0	2002	0.00

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
357796	Domestic-Single Residence	226	94	10.0	2002	0.00
358589	—	135	80	—	1977	0.00
361093	Domestic-Single Residence	236	86	15.0	2003	0.00
361769	Domestic-Single Residence	106	46	12.0	2003	0.00
364478	—	65	30	—	1977	0.00
364480	—	71	27	—	1977	0.00
364482	—	84	50	—	1979	0.00
364484	—	68	25	—	1977	0.00
364493	—	80	35	—	1976	0.00
364539	—	85	32	—	1975	0.00
369680	Domestic-Single Residence	76	49	8.0	2003	0.00
370463	Domestic-Single Residence	123	90	10.0	2003	0.00
371261	Domestic-Single Residence	94	51	20.0	2003	0.00
371789	Irrigation	156	77	40.0	2003	0.00
371940	Domestic-Single Residence	150	55	30.0	2003	0.00
373382	Domestic-Single Residence	145	90	20.0	2003	0.00
376635	Domestic-Single Residence	94	45	30.0	2003	0.00
376636	Domestic-Single Residence	85	33	15.0	2003	0.00
376757	Domestic-Single Residence	70	41	18.0	2003	0.00
376795	Domestic-Single Residence	80	47	20.0	2003	0.00
377166	Domestic-Single Residence	102	57	10.0	2003	0.00
377263	Domestic-Single Residence	144	84	15.0	2003	0.00
377431	Domestic-Single Residence	100	50	13.0	2003	0.00
378459	Domestic-Single Residence	189	117	16.0	2003	0.00
379384	Domestic-Single Residence	73	44	9.0	2003	0.00
379403	—	113	76	15.0	1986	0.00
380120	Domestic-Single Residence	60	29	35.0	2003	0.00
380288	Domestic-Single Residence	90	52	15.0	2003	0.00
380487	—	97	74	—	1981	0.00
385383	Domestic-Single Residence	100	51	12.0	2004	0.00
385622	Domestic-Single Residence	100	52	15.0	2004	0.00

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
386226	Domestic-Single Residence	108	50	20.0	2004	0.00
386388	Domestic-Single Residence	106	45	12.0	2004	0.00
387425	Domestic-Single Residence	127	65	12.0	2004	0.00
388606	—	60	31	800.0	1968	0.00
390280	—	86	53	20.0	1983	0.00
390453	—	155	120	15.0	1981	0.00
392431	Domestic-Single Residence	234	140	15.0	2004	0.00
392461	—	47	30	—	1982	0.00
392484	—	65	8	400.0	1966	0.00
393126	Domestic-Single Residence	103	49	18.0	2004	0.00
393351	—	92	43	—	1980	0.00
393762	Domestic-Single Residence	—	20	—	2005	0.00
394348	—	173	86	—	1985	0.00
394364	—	60	26	—	1986	0.00
394447	Domestic-Single Residence	160	80	10.0	2004	0.00
395332	Domestic-Single Residence	110	70	15.0	2004	0.00
396226	Domestic-Single Residence	78	34	10.0	2004	0.00
397831	—	21	8	12.0	1982	0.00
399301	Domestic-Single Residence	75	34	10.0	2005	0.00
399303	Domestic-Single Residence	94	45	10.0	2005	0.00
403107	Domestic-Single Residence	230	70	60.0	2005	0.00
403108	Domestic-Single Residence	157	78	30.0	2005	0.00
404780	Domestic-Single Residence	128	69	20.0	2005	0.00
404794	Domestic-Single Residence	85	45	15.0	2005	0.00
404811	Domestic-Single Residence	116	64	15.0	2005	0.00
404812	Domestic-Single Residence	160	69	15.0	2005	0.00
404959	Domestic-Single Residence	126	53	10.0	2005	0.00
405011	Domestic-Single Residence	51	29	10.0	2005	0.00
405825	Domestic-Single Residence	130	57	10.0	2012	0.00
406316	Domestic-Single Residence	109	50	17.0	2005	0.00

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
406646	Domestic-Single Residence	122	82	30.0	2005	0.00
406674	Domestic-Single Residence	87	36	15.0	2005	0.00
406836	Domestic-Single Residence	106	75	15.0	2005	0.00
408345	Domestic-Single Residence	98	51	25.0	2005	0.00
408557	Domestic-Single Residence	90	—	25.0	2006	0.00
408679	Domestic-Single Residence	88	47	25.0	2006	0.00
409739	—	60	23	15.0	1983	0.00
410624	Domestic-Single Residence	191	140	10.0	2006	0.00
410628	Domestic-Single Residence	67	31	35.0	2006	0.00
410629	Domestic-Single Residence	89	50	19.0	2006	0.00
411782	—	60	37	30.0	1985	0.00
414761	Domestic-Single Residence	137	64	15.0	2006	0.00
414824	Domestic-Single Residence	60	35	5.0	2006	0.00
415117	Domestic-Single Residence	245	84	40.0	2007	0.00
415118	Domestic-Single Residence	84	48	30.0	2007	0.00
416837	Domestic	116	72	15.0	2007	0.00
417753	Domestic-Single Residence	211	118	15.0	2007	0.00
418305	Domestic-Single Residence	160	76	20.0	2007	0.00
419017	Domestic-Single Residence	133	45	25.0	2007	0.00
419083	Domestic-Single Residence	60	21	30.0	2006	0.00
421979	—	80	28	40.0	1975	0.00
422115	Domestic-Single Residence	250	118	30.0	2010	0.00
424958	—	50	12	30.0	1979	0.00
425287	—	65	28	15.0	1980	0.00
426167	Domestic	128	81	40.0	2009	0.00
428620	—	140	—	—	1979	0.00
434744	Domestic-Single Residence	175	75	20.0	2013	0.00
440894	Domestic-Single Residence	72	39	25.0	2015	0.00
441034	Domestic-Single Residence	143	104	10.0	2015	0.00
441253	Domestic-Single Residence	153	97	15.0	2015	0.00

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
442109	Domestic-Single Residence	67	42	20.0	2015	0.00
444412	Domestic-Single Residence	209	112	20.0	2016	0.00
444518	Domestic-Single Residence	179	87	20.0	2016	0.00
444547	Domestic-Single Residence	213	125	20.0	2016	0.00
445158	Domestic-Single Residence	69	20	15.0	2016	0.00
445219	Domestic-Single Residence	68	38	20.0	2016	0.00
448200	Domestic-Single Residence	208	94	20.0	2017	0.00
451312	Domestic-Single Residence	106	48	25.0	2018	0.00
451592	Domestic-Single Residence	204	65	20.0	2018	0.00
451877	Domestic-Single Residence	236	125	30.0	2018	0.00
452228	Domestic-Single Residence	148	86	25.0	2018	0.00
452403	Domestic-Single Residence	169	52	50.0	2018	0.00
452445	Domestic-Single Residence	269	125	40.0	2018	0.00
452514	Domestic-Single Residence	170	51	50.0	2018	0.00
456018	Domestic-Single Residence	238	160	15.0	2019	0.00
456051	Domestic-Single Residence	260	130	30.0	2019	0.00
456221	Domestic-Single Residence	124	40	15.0	2019	0.00
460491	Domestic-Single Residence	158	59	20.0	2020	0.00
460921	Domestic-Single Residence	81	40	12.0	2020	0.00
462568	Domestic-Single Residence	203	85	40.0	2021	0.00
463749	Domestic-Single Residence	257	106	25.0	2021	0.00
464581	Domestic-Single Residence	109	49	32.0	2021	0.00
464650	Domestic-Single Residence	105	46	12.0	2021	0.00
464810	Domestic-Single Residence	99	49	9.0	2021	0.00
464913	Domestic-Single Residence	208	91	27.0	2021	0.00
466598	Domestic-Single Residence	82	52	19.0	2021	0.00
470051	Domestic-Single Residence	304	134	90.0	2022	0.00

Well ID	Use	Well depth, depth below land surface (ft)	SWL, depth below land surface (ft)	Rate (gpm)	Built	Distance (mi)
470522	Domestic-Single Residence	98	36	10.0	2022	0.00
472074	Domestic-Single Residence	150	135	15.0	2022	0.00
472229	Domestic-Single Residence	281	132	80.0	2022	0.00
472234	Domestic-Single Residence	182	80	15.0	2022	0.00
473674	Domestic-Single Residence	273	62	100.0	2023	0.00
474384	Domestic-Single Residence	293	135	65.0	2023	0.00
474465	Domestic-Single Residence	304	128	90.0	2023	0.00
474513	Domestic-Single Residence	393	134	39.0	2023	0.00
474754	Domestic-Single Residence	183	81	100.0	2023	0.00
475241	—	—	—	—	—	0.00
475795	Domestic-Single Residence	114	26	18.0	2023	0.00
475929	Domestic-Single Residence	136	72	6.0	2023	0.00
476016	Domestic-Single Residence	136	64	50.0	2023	0.00
476447	Domestic-Single Residence	200	—	16.0	2023	0.00
479036	Domestic-Single Residence	198	75	100.0	2024	0.00
480688	Domestic-Single Residence	140	100	12.0	2024	0.00
481246	Domestic-Single Residence	245	114	63.0	2024	0.00
483719	Domestic-Single Residence	128	51	50.0	2025	0.00
483773	Domestic-Single Residence	209	108	13.0	2025	0.00
483976	Domestic-Single Residence	198	95	15.0	2025	0.00
485727	Domestic-Single Residence	260	66	100.0	2025	0.00
489806	Domestic-Single Residence	175	85	100.0	2026	0.00

Data sources

Datasets used in this report and when they were last retrieved

Dataset	Source	Retrieved
Administrative and hydrologic boundaries	U.S. Census Bureau TIGERweb; USGS Watershed Boundary Dataset; IDWR	2026-11-09
Elevation and slope (USGS 3DEP)	USGS 3D Elevation Program (3DEPElevation ImageServer)	2026-11-09
Surficial geology of Long Valley (Idaho Geological Survey)	Idaho Geological Survey — Surficial Geologic Map of Long Valley (DWM-68)	2026-11-09

Dataset	Source	Retrieved
Long Valley boundary	Derived from Idaho Geological Survey DWM-68	2026-11-09
Land cover (Annual NLCD)	USGS / MRLC — Annual NLCD Collection 1 land cover	2026-11-09
Soils (SSURGO)	USDA-NRCS Soil Survey Geographic (SSURGO) Database, via Soil Data Access	2026-11-09
Water rights: points of diversion and places of use (IDWR)	Idaho Department of Water Resources (IDWR) — Water Right PODs and POUs	2026-11-09
Groundwater levels (IDWR monitoring wells)	Idaho Department of Water Resources — Groundwater Levels	2026-11-09
Well construction records (IDWR)	Idaho Department of Water Resources — Wells (Groundwater/ Wells FeatureServer)	2026-11-09