12413500 COEUR D'ALENE RIVER AT CATALDO, ID

Spokane Basin
Coeur D'Alene Lake Subbasin

LOCATION.--Lat 47°33′18″, long 116°19′28″ referenced to North American Datum of 1983, in NW ¼ SE ¼ NW ¼ sec.34, T.49 N., R.1 E., Kootenai County, ID, Hydrologic Unit 17010303, Cataldo quad., on left bank at Cataldo, downstream side of Rails-to-Trails bicycle bridge, 0.9 mi upstream from Interstate 90, 1.5 mi downstream from old gage site, 3.4 mi upstream from Latour Creek, about 2 mi upstream from Coeur d'Alene Lake backwater, 4.9 mi downstream from South Fork, and at mile 162.9.

DRAINAGE AREA.--1,208 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1911 to December 1912, July 1920 to September 1972, October 1986 to current year. Miscellaneous measurements made at this site 1972-80, published as 12413600.

REVISED RECORDS.--WSP 1396: 1945. WSP 1736: 1934 M. WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder. Gage readings have been reduced to datum of gage at 2,100.00 ft above NGVD of 1929. National Geodetic Survey adjustment in 1991 found datum to be 3.67 ft higher. Apr. 25, 1911 to Dec. 31, 1912, nonrecording gage at site 1.4 mi upstream at different datum. July 29, 1920 to Oct. 10, 1925, nonrecording gage, Oct. 11, 1925 to Sept. 30, 1972, recording gage at site 1.5 mi upstream at datum 2.84 ft lower and Aug. 22, 1986 to Feb. 3, 1997, at site 50 ft upstream at same datum.

REMARKS.--No estimated daily discharges. Records good. Station equipment includes satellite telemetry.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft^3/s Feb. 9, 1996, gage height, 51.62 ft, from rating curve extended above 30,000 ft^3/s, on basis of runoff comparisons with upstream stations; maximum gage height, 56.90 ft, datum then in use, Dec. 22 or 23, 1933, (from floodmark); minimum discharge, 122 ft^3/s Dec. 4, 1929; minimum gage height, 32.79 ft, Dec. 8, 2009.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 16, 1974 reached a discharge of 79,000 ft^3/s, by indirect computation.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 16	2245	15,100	41.80
Mar 31	1130	*29,100	*45.22
Apr 13	0600	12,800	41.06
Apr 25	0445	26,600	44.69
May 1	2245	13,900	41.41
Jun 7	1100	12,000	40.81

Minimum daily discharge, 307 ft^3/s, Dec. 24.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 12413500, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12413500.2012.pdf

12413500 COEUR D'ALENE RIVER AT CATALDO, ID—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	413	494	647	1,780	1,820	1,410	20,400	12,700	4,140	2,810	875	478
2	407	468	607	1,370	1,540	1,260	14,700	12,900	4,590	2,630	853	463
3	402	441	562	1,140	1,340	1,170	10,300	10,400	5,270	2,600	841	455
4	401	427	495	1,000	1,200	1,150	8,170	8,890	4,790	2,500	805	449
5	418	424	460	907	1,090	1,290	6,850	7,820	5,890	2,300	784	443
6	480	412	463	863	1,010	1,760	5,790	7,100	8,300	2,160	767	440
7	501	403	455	823	953	1,850	4,960	6,440	11,600	2,040	759	435
8	498	399	403	792	897	1,730	4,360	6,240	10,400	1,930	739	429
9	464	392	395	760	887	1,660	4,060	7,080	9,550	1,840	726	416
10	446	387	363	753	893	1,750	4,280	8,070	10,300	1,770	711	413
11	461	386	339	701	880	2,060	6,110	7,430	10,600	1,680	695	413
12	550	443	378	547	931	2,530	10,300	6,370	8,970	1,610	679	407
13	556	498	399	490	975	3,370	12,300	5,860	8,460	1,550	664	402
14	503	495	387	557	1,000	4,090	10,500	6,220	9,180	1,510	647	397
15	496	484	398	629	965	4,300	8,960	7,530	8,910	1,680	630	394
16	473	438	391	587	917	11,200	8,010	9,170	7,580	1,800	617	389
17	447	451	381	553	883	13,200	8,620	9,280	6,800	1,540	607	384
18	431	506	378	507	897	8,700	9,620	7,860	6,180	1,420	598	380
19	421	492	372	526	918	6,250	9,470	6,530	5,450	1,330	585	375
20	414	452	366	513	869	4,840	9,890	5,570	4,660	1,290	577	369
21	408	439	361	578	902	4,290	16,500	5,310	4,150	1,310	562	366
22	435	507	349	668	2,160	3,860	17,700	6,780	3,930	1,220	580	365
23	530	919	312	662	3,550	3,600	19,000	7,290	3,850	1,150	579	365
24	540	1,130	307	613	2,870	3,350	24,000	6,640	3,620	1,110	554	366
25	494	1,140	327	657	2,540	3,310	25,700	5,860	3,360	1,080	539	365
26	453	964	358	814	2,160	5,130	22,700	5,180	3,450	1,050	529	364
27	430	802	367	906	1,840	7,960	22,000	4,710	3,630	1,010	518	362
28	417	762	518	844	1,600	7,390	17,200	4,300	3,200	980	507	359
29	439	733	1,660	831	1,480	7,420	11,700	4,290	2,970	946	498	357
30	462	691	2,300	1,600	---	13,800	9,890	4,340	2,800	920	490	351
31	493	---	2,470	2,080	---	27,300	---	4,200	---	896	486	---
Total	14,283	16,979	17,968	26,051	39,967	162,980	364,040	218,360	186,580	49,662	20,001	11,951
Mean	461	566	580	840	1,378	5,257	12,130	7,044	6,219	1,602	645	398
Max	556	1,140	2,470	2,080	3,550	27,300	25,700	12,900	11,600	2,810	875	478
Min	401	386	307	490	869	1,150	4,060	4,200	2,800	896	486	351
Ac-ft	28,330	33,680	35,640	51,670	79,270	323,300	722,100	433,100	370,100	98,500	39,670	23,700
Cfsm	0.38	0.47	0.48	0.70	1.14	4.35	10.0	5.83	5.15	1.33	0.53	0.33
In.	0.44	0.52	0.55	0.80	1.23	5.02	11.21	6.72	5.75	1.53	0.62	0.37

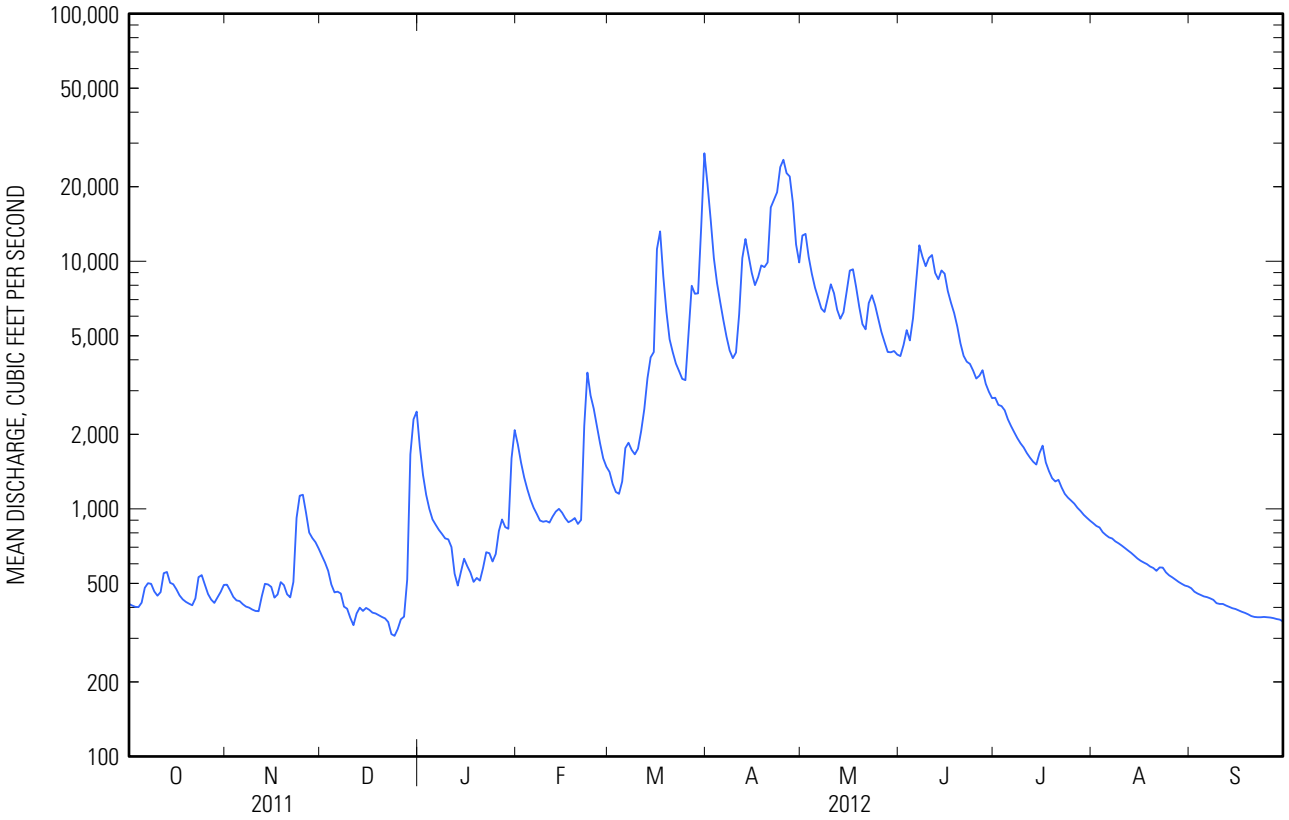
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	553	1,300	1,916	1,920	2,477	3,376	7,184	6,932	2,824	926	487	414
Max	1,984	6,529	13,230	8,323	10,430	10,340	12,570	15,070	6,800	1,906	898	839
(WY)	(1928)	(1928)	(1934)	(1934)	(1996)	(1972)	(1943)	(2008)	(2011)	(1950)	(1948)	(1927)
Min	276	238	276	241	276	810	2,489	1,895	768	404	273	260
(WY)	(1945)	(1930)	(1931)	(1930)	(1929)	(1955)	(1941)	(1992)	(1926)	(1926)	(1940)	(2001)

12413500 COEUR D'ALENE RIVER AT CATALDO, ID—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1911 - 2012	
Annual total	1,251,452		1,128,822			
Annual mean	3,429		3,084		2,521	
Highest annual mean					4,057	1996
Lowest annual mean					1,043	1944
Highest daily mean	27,800	Jan 17	27,300	Mar 31	56,000	Feb 9, 1996
Lowest daily mean	307	Dec 24	307	Dec 24	141	Dec 5, 1929
Annual seven-day minimum	340	Dec 20	340	Dec 20	176	Jan 16, 1930
Annual runoff (ac-ft)	2,482,000		2,239,000		1,826,000	
Annual runoff (cfsm)	2.84		2.55		2.09	
Annual runoff (inches)	38.54		34.76		28.35	
10 percent exceeds	9,680		8,920		6,800	
50 percent exceeds	1,480		920		1,110	
90 percent exceeds	418		396		350	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1987 to March 2000, October 2003, October 2004, October 2005, October 2006, October 2007, water year 2008, October 2008, water years 2010-2012.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 of 3

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Temperature, air, °C (00020)	Discharge, instantaneous, ft³/s (00061)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)	Hardness, water, mg/L as $CaCO_3$ (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Ammonia, water, filtered, mg/L as N (00608)
10-11-2011	**1120**	9.5	453	7.1	108	10.9	44.3	11.3	3.91	< .010
02-24-2012	**1320**	5.5	--	7.2	65	2.9	25.3	6.34	2.31	.021
04-27-2012	**1415**	11.0	--	6.9	32	5.8	13.0	3.29	1.16	< .010
06-27-2012	**1130**	18.0	--	7.0	55	9.9	23.1	5.93	2.02	< .010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 of 3

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Cadmium, water, filtered, µg/L (01025)	Cadmium, water, unfiltered, µg/L (01027)	Iron, water, filtered, µg/L (01046)
10-11-2011	**1120**	0.013	0.004	< .004	< .004	< .05	2.09	2.14	13.9
02-24-2012	**1320**	.187	.006	.006	.012	.12	1.21	1.17	28.9
04-27-2012	**1415**	.033	.006	.008	.039	.11	.248	.409	44.7
06-27-2012	**1130**	.023	< .004	.006	.009	.06	.787	.786	24.7

12413500 COEUR D'ALENE RIVER AT CATALDO, ID—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 3 of 3

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Iron, water, unfiltered, recoverable, µg/L (01045)	Lead, water, filtered, µg/L (01049)	Lead, water, unfiltered, recoverable, µg/L (01051)	Manganese, water, filtered, µg/L (01056)	Manganese, water, unfiltered, recoverable, µg/L (01055)	Zinc, water, filtered, µg/L (01090)	Zinc, water, unfiltered, recoverable, µg/L (01092)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)
10-11-2011	**1120**	41.7	0.385	1.96	64.5	61.9	381	336	50	< .5
02-24-2012	**1320**	148	.670	7.19	36.3	51.5	180	162	80	3
04-27-2012	**1415**	804	1.21	28.1	9.50	50.4	47.1	58.6	94	39
06-27-2012	**1130**	114	1.35	12.5	30.0	35.4	125	114	28	17