



Water-Data Report 2010

12413860 COEUR D'ALENE RIVER NEAR HARRISON, ID

Spokane Basin
Coeur D'Alene Lake Subbasin

LOCATION.--Lat 47°28'43", long 116°43'59" referenced to North American Datum of 1983, in NE ¼ SW ¼ NW ¼ sec.28, T.48 N., R.3 W., Kootenai County, ID, Hydrologic Unit 17010303, Black Lake quad., on left bank on downstream side of Springston Bridge, 2.5 mi upstream from Coeur d'Alene Lake, 3.0 mi northeast of Harrison, and at mile 134.6.

DRAINAGE AREA.--1,453 mi², revised.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1991 to September 2003 (mean daily gage heights and discharge measurements only), March 2004 to September 2009 (discharge and mean daily gage heights), October 2009 to current year (discharge only).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 2,100.00 ft above NGVD of 1929. Gage heights have been reduced to that datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry and a crest-stage gage. Elevations affected by backwater from Coeur d'Alene Lake. Add 2,100 ft to gage heights to obtain elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 27,300 ft³/s May 21, 2008; maximum gage height, 33.59 ft, May 18, 19, 1997; minimum daily discharge, 230 ft³/s Sept. 15, 16, 2007; minimum gage height, 17.99 ft, Jan. 9, 10, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 8,550 ft³/s Jun. 6; minimum daily discharge, 366 ft³/s Oct. 1.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e366	825	e901	e900	1,130	1,440	5,560	5,310	4,660	2,740	e800	e515
2	e384	784	e875	e1,060	1,100	1,390	4,620	5,810	5,510	2,550	e780	e580
3	e409	753	e800	e1,200	1,060	1,380	4,000	5,870	6,520	2,540	e750	e555
4	e411	721	e698	e1,150	1,080	1,350	3,610	7,130	7,570	2,270	e730	e535
5	e411	711	e730	e1,200	1,030	1,490	3,160	7,690	8,330	2,000	e715	e500
6	e399	826	e730	e1,120	1,040	1,470	2,900	7,310	8,550	1,770	e700	e500
7	e395	800	e600	e960	986	1,500	2,750	6,570	8,310	1,630	e680	e485
8	e395	961	e525	e850	983	1,530	2,360	5,580	7,510	e1,560	e660	e490
9	e397	995	e560	e900	995	1,530	2,740	4,800	6,930	e1,500	e650	e505
10	e399	956	e630	e975	1,010	1,560	2,650	4,410	6,440	e1,460	e645	e515
11	e397	994	e670	e925	1,030	1,570	2,570	4,000	5,820	e1,400	e640	e510
12	e409	978	e660	e935	1,060	1,440	2,460	3,800	5,540	e1,360	e630	e505
13	e446	926	e645	e1,110	1,370	1,520	2,330	3,750	5,130	e1,300	e640	e490
14	e478	935	e655	e1,450	1,630	1,560	2,430	3,890	4,670	e1,250	e640	e485
15	e509	914	e655	e2,000	1,710	1,450	2,550	3,970	4,210	e1,210	e615	e480
16	e503	831	e700	e2,400	1,930	1,310	2,750	4,130	3,940	e1,160	e600	e480
17	e499	787	e775	e2,910	2,020	1,280	3,260	4,450	3,980	e1,120	e580	e550
18	e497	e899	e798	e2,630	2,080	1,410	4,120	5,060	4,180	e1,070	e570	e570
19	e474	e873	e800	e2,410	2,030	1,460	4,700	5,350	4,280	e1,040	e565	e585
20	e456	e845	e915	e2,260	1,910	1,630	5,060	5,250	4,310	e1,000	e550	e660
21	e464	e820	e1,250	e2,170	1,760	1,630	5,710	4,940	4,890	e950	e545	e725
22	e538	e810	e1,720	1,970	1,650	1,820	6,350	4,120	5,790	e940	e535	e680
23	617	e805	e1,620	1,750	1,530	2,010	5,940	3,560	6,330	e910	e535	e640
24	749	e798	e1,350	1,660	1,490	2,140	5,090	3,050	6,320	e900	e530	e600
25	824	e798	e1,180	1,580	1,470	2,090	4,600	2,670	5,850	e880	e515	e580
26	736	e815	e1,040	1,390	1,560	2,090	4,010	2,530	5,080	e865	e510	e570
27	1,140	e875	e900	1,290	1,480	2,290	3,610	2,600	4,050	e845	e505	e560
28	1,080	e1,000	e850	1,300	1,460	2,280	3,760	2,680	3,590	e850	e500	e555
29	917	e998	e925	1,170	---	2,560	4,370	3,010	3,220	e830	e500	e550
30	816	e945	e930	1,130	---	5,530	4,830	3,520	2,950	e815	e500	e545
31	816	---	e910	1,120	---	6,870	---	4,000	---	e820	e500	---
Total	17,331	25,978	26,997	45,875	39,584	60,580	114,850	140,810	164,460	41,535	18,815	16,500
Mean	559	866	871	1,480	1,414	1,954	3,828	4,542	5,482	1,340	607	550
Max	1,140	1,000	1,720	2,910	2,080	6,870	6,350	7,690	8,550	2,740	800	725
Min	366	711	525	850	983	1,280	2,330	2,530	2,950	815	500	480
Ac-ft	34,380	51,530	53,550	90,990	78,510	120,200	227,800	279,300	326,200	82,380	37,320	32,730

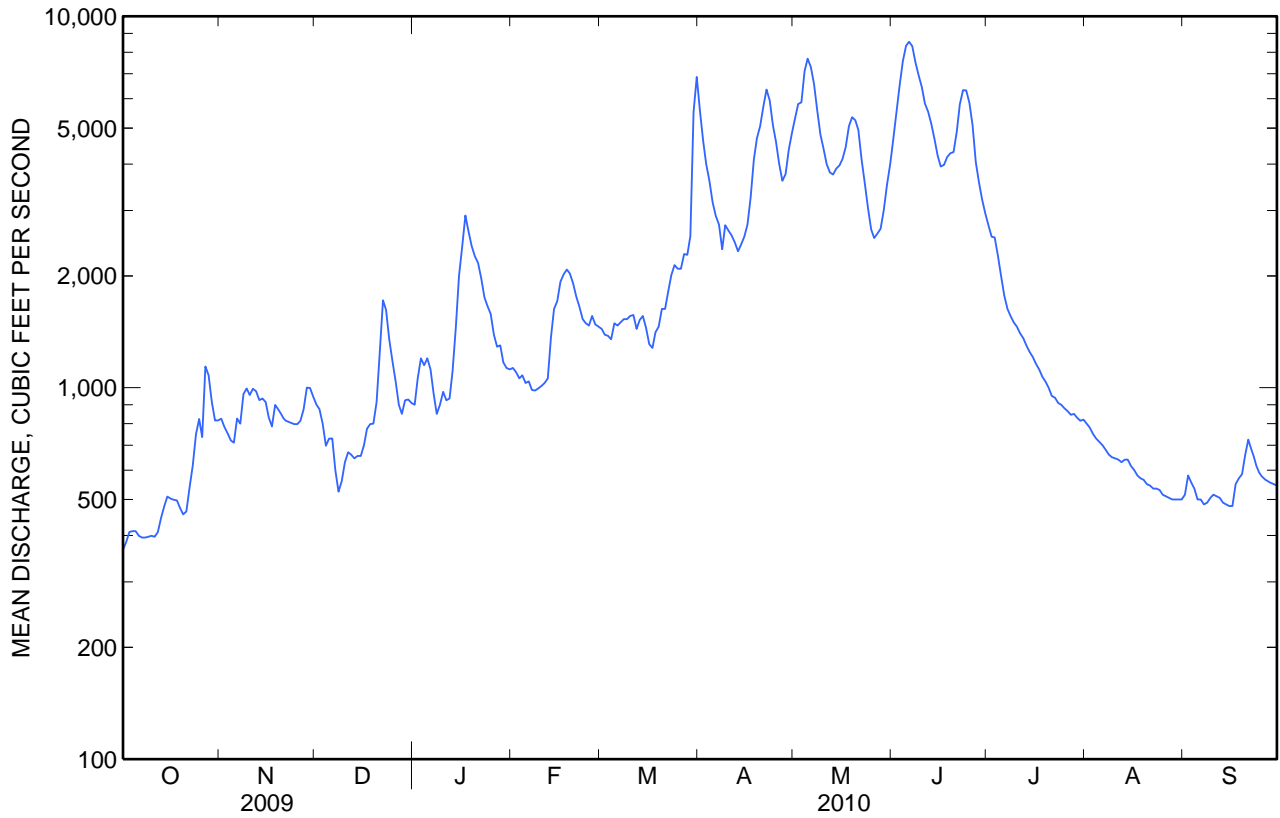
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	612	1,429	1,803	2,723	1,922	3,612	5,693	6,820	3,707	986	514	408
Max	881	2,842	4,185	5,496	2,694	7,966	8,370	15,070	8,530	1,472	660	550
(WY)	(2005)	(2007)	(2005)	(2006)	(2007)	(2007)	(2006)	(2008)	(2008)	(2008)	(2008)	(2010)
Min	418	770	751	872	1,100	1,954	3,746	2,639	1,278	535	320	279
(WY)	(2007)	(2008)	(2009)	(2008)	(2008)	(2010)	(2008)	(2005)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2005 - 2010	
Annual total	920,406		713,315			
Annual mean	2,522		1,954		2,521	
Highest annual mean					3,108	2008
Lowest annual mean					1,954	2010
Highest daily mean	13,200	Apr 24	8,550	Jun 6	27,300	May 21, 2008
Lowest daily mean	360	Sep 29	366	Oct 1	230	Sep 15, 2007
Annual seven-day minimum	366	Sep 25	396	Oct 1	234	Sep 12, 2007
Annual runoff (ac-ft)	1,826,000		1,415,000		1,826,000	
10 percent exceeds	7,690		4,990		6,410	
50 percent exceeds	1,040		1,120		1,300	
90 percent exceeds	448		510		419	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1991 to current year.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 3

[CaCO₃, 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; <, less than; E, estimated]

Date	Sample start time	Temperature, air, °C (00020)	Discharge, instantaneous, ft ³ /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)
10-27-2009	1130	6.0	1,100	7.2	111	8.1	41.9	10.8	3.63	< .020
01-26-2010	1000	3.5	1,320	6.9	73	2.4	24.2	5.90	2.30	.028
03-31-2010	1143	10.0	6,850	6.4	42	4.5	16.6	4.11	1.54	E .011
04-23-2010	1555	17.5	6,060	6.8	43	7.2	14.4	3.51	1.38	< .020
07-15-2010	1130	26.0	1,210	7.6	74	18.5	29.2	7.32	2.66	< .020

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 3

[CaCO₃, 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; <, less than; E, estimated]

Date	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)	Iron, water, unfiltered, recoverable, μg/L (01045)
10-27-2009	.059	E .006	< .008	E .008	.13	1.95	1.88	85	205
01-26-2010	.056	E .008	< .008	.009	.11	.75	.86	144	316
03-31-2010	.060	E .007	E .006	.055	.28	.77	2.21	42	2,220
04-23-2010	.047	< .008	E .007	.019	.11	.61	.79	28	700
07-15-2010	< .016	E .008	E .004	.009	E .06	.97	1.02	91	261

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 3

[CaCO₃, 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; <, less than; E, estimated]

Date	Lead, water, filtered, μg/L (01049)	Lead, water, unfiltered, recover able, μg/L (01051)	Manga nese, water, filtered, μg/L (01056)	Manganes e, water, unfiltered, recover able, μg/L (01055)	Zinc, water, filtered, μg/L (01090)	Zinc, water, unfiltered, recover able, μg/L (01092)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concen tration, mg/L (80154)
10-27-2009	8.77	22.1	85.4	103	402	356	65	3
01-26-2010	7.36	19.8	103	116	162	153	100	2
03-31-2010	10.3	267	53.3	288	130	226	95	50
04-23-2010	6.47	71.2	32.9	87.5	99.6	112	--	--
07-15-2010	6.94	17.4	82.3	97.5	158	161	81	3