# 12413355 SOUTH FORK COEUR D' ALENE RIVER ABOVE PINE CREEK NEAR PINEHURST ID

Spokane Basin
South Fork Coeur D'Alene Subbasin

LOCATION.--Lat 47°32′54″, long 116°13′11″ referenced to North American Datum of 1983, in SE ¼ NW ¼ SW ¼ sec.33, T.49 N., R.2 E., Shoshone County, ID, Hydrologic Unit 17010302, Kellogg West quad., on left bank, 0.5 mi upstream from mouth of Pine Creek, 0.5 mi northeast of Pinehurst, and at mile 2.8.

DRAINAGE AREA.--207 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2008 to current year. Miscellaneous measurements September 2008.

GAGE.--Water-stage recorder. Datum of gage is 2,100 ft above NAVD 88. Gage heights have been reduced to that datum.

REMARKS.--Records good except for estimated daily discharges which are fair. Station equipment includes satellite telemetry and crest-stage gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,690 $ft^3/s$ Mar. 30, 2012 gage height 92.50 ft; minimum daily discharge, 53 $ft^3/s$ Dec. 8, 2009.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,690 $ft^3/s$, Mar. 30, gage height, 92.50 ft; minimum daily discharge, 75 $ft^3/s$, Dec. 23.



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 12413355, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/12413355.2012.pdf

**12413355 SOUTH FORK COEUR D'ALENE RIVER ABOVE PINE CREEK NEAR PINEHURST ID—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**
[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 103 | 106 | 125 | 225 | 217 | 226 | 2,500 | 1,960 | 1,010 | 668 | 194 | 121 |
| 2 | 102 | 100 | 122 | 192 | 201 | e208 | 1,850 | 1,810 | 1,330 | 608 | 190 | 120 |
| 3 | 100 | 98 | 114 | 181 | 189 | e204 | 1,380 | 1,540 | 1,490 | 580 | 187 | 118 |
| 4 | 102 | 99 | 112 | 166 | 178 | e209 | 1,130 | 1,350 | 1,300 | 530 | 182 | 117 |
| 5 | 109 | 100 | 108 | 171 | 170 | e232 | 934 | 1,200 | 1,790 | 489 | 179 | 116 |
| 6 | 130 | 97 | 109 | 161 | 164 | e277 | 800 | 1,070 | 1,930 | 457 | 176 | 115 |
| 7 | 124 | 95 | 103 | 156 | 160 | e262 | 691 | 988 | 1,740 | 434 | 174 | 115 |
| 8 | 120 | 95 | 99 | 151 | 153 | e250 | 620 | 994 | 1,570 | 419 | 169 | 114 |
| 9 | 109 | 94 | 97 | 144 | 151 | 239 | 589 | 1,180 | 1,470 | 404 | 166 | 111 |
| 10 | 106 | 92 | 92 | 148 | 152 | 270 | 626 | 1,320 | 1,590 | 386 | 164 | 111 |
| 11 | 119 | 95 | 94 | 129 | 157 | 330 | 898 | 1,180 | 1,540 | 368 | 160 | 111 |
| 12 | 123 | 110 | 96 | 116 | 174 | 368 | 1,460 | 1,060 | 1,390 | 353 | 158 | 109 |
| 13 | 110 | 113 | 93 | 118 | 179 | 526 | 1,410 | 1,040 | 1,560 | 339 | 156 | 108 |
| 14 | 105 | 112 | 94 | 137 | 179 | 567 | 1,190 | 1,190 | 1,580 | 332 | 154 | 107 |
| 15 | 119 | 107 | 94 | 132 | 171 | 652 | 1,040 | 1,540 | 1,450 | 375 | 151 | 105 |
| 16 | 112 | 97 | 93 | 120 | 161 | 1,660 | 943 | 1,970 | 1,300 | 334 | 148 | 104 |
| 17 | 106 | 126 | 93 | 121 | 157 | 1,320 | 946 | 1,960 | 1,360 | 311 | 146 | 103 |
| 18 | 102 | 118 | 93 | 117 | 165 | 850 | 986 | 1,590 | 1,360 | 294 | 143 | 103 |
| 19 | 100 | 110 | 92 | 122 | 165 | 613 | 990 | 1,310 | 1,170 | 279 | 140 | 100 |
| 20 | 98 | 104 | 91 | 118 | 156 | 485 | 1,140 | 1,140 | 991 | 278 | 139 | 98 |
| 21 | 99 | 103 | 92 | 144 | 169 | 418 | 1,890 | 1,160 | 901 | 265 | 140 | 98 |
| 22 | 111 | 164 | 86 | 149 | 471 | 404 | 2,030 | 1,630 | 912 | 252 | 142 | 98 |
| 23 | 126 | 270 | 75 | 135 | 502 | 400 | 2,560 | 1,600 | 962 | 242 | 136 | 98 |
| 24 | 115 | 234 | 94 | 122 | 377 | 386 | 3,130 | 1,330 | 911 | 236 | 134 | 98 |
| 25 | 107 | 206 | 93 | 159 | 347 | 411 | 3,060 | 1,130 | 852 | 230 | 133 | 98 |
| 26 | 103 | 166 | 91 | 176 | 302 | 934 | 2,780 | 997 | 917 | 225 | 131 | 97 |
| 27 | 100 | 151 | 92 | 168 | 269 | 1,200 | 2,630 | 907 | 821 | 220 | 128 | 96 |
| 28 | 98 | 155 | 158 | 155 | 246 | 955 | 2,030 | 842 | 720 | 213 | 126 | 95 |
| 29 | 105 | 141 | 374 | 158 | 239 | 925 | 1,570 | 911 | 670 | 205 | 125 | 94 |
| 30 | 101 | 137 | 330 | 252 | --- | 2,170 | 1,520 | 943 | 642 | 202 | 123 | 94 |
| 31 | 115 | --- | 298 | 245 | --- | 3,140 | --- | 948 | --- | 199 | 124 | --- |
| Total | 3,379 | 3,795 | 3,797 | 4,788 | 6,321 | 21,091 | 45,323 | 39,790 | 37,229 | 10,727 | 4,718 | 3,172 |
| Mean | 109 | 126 | 122 | 154 | 218 | 680 | 1,511 | 1,284 | 1,241 | 346 | 152 | 106 |
| Max | 130 | 270 | 374 | 252 | 502 | 3,140 | 3,130 | 1,970 | 1,930 | 668 | 194 | 121 |
| Min | 98 | 92 | 75 | 116 | 151 | 204 | 589 | 842 | 642 | 199 | 123 | 94 |
| Ac-ft | 6,700 | 7,530 | 7,530 | 9,500 | 12,540 | 41,830 | 89,900 | 78,920 | 73,840 | 21,280 | 9,360 | 6,290 |

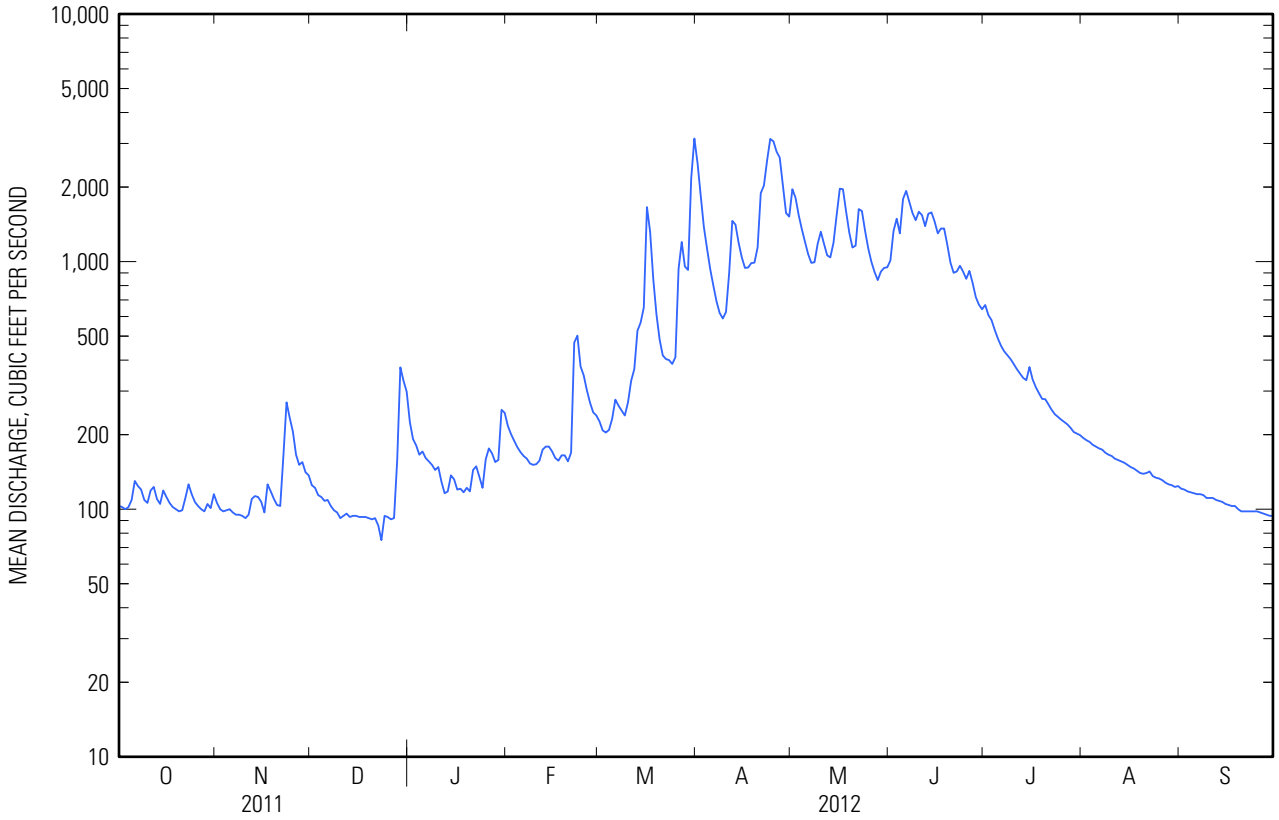
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2009 - 2012, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 103 | 130 | 145 | 301 | 205 | 422 | 887 | 1,190 | 1,050 | 342 | 146 | 103 |
| Max | 109 | 143 | 245 | 633 | 313 | 680 | 1,511 | 1,671 | 1,558 | 586 | 178 | 119 |
| (WY) | (2012) | (2011) | (2011) | (2011) | (2011) | (2012) | (2012) | (2011) | (2011) | (2011) | (2011) | (2011) |
| Min | 97.7 | 112 | 92.7 | 125 | 118 | 158 | 365 | 623 | 614 | 196 | 126 | 91.4 |
| (WY) | (2010) | (2010) | (2010) | (2010) | (2010) | (2010) | (2010) | (2010) | (2009) | (2009) | (2010) | (2009) |

**12413355 SOUTH FORK COEUR D'ALENE RIVER ABOVE PINE CREEK NEAR PINEHURST ID—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 2009 - 2012 | |
|---|---|---|---|---|---|---|
| **Annual total** | 204,593 | | 184,130 | | | |
| **Annual mean** | 561 | | 503 | | 419 | |
| **Highest annual mean** | | | | | 572 | 2011 |
| **Lowest annual mean** | | | | | 245 | 2010 |
| **Highest daily mean** | 3,190 | Jan 17 | 3,140 | Mar 31 | 3,190 | Jan 17, 2011 |
| **Lowest daily mean** | 75 | Dec 23 | 75 | Dec 23 | 53 | Dec 8, 2009 |
| **Annual seven-day minimum** | 89 | Dec 17 | 89 | Dec 17 | 71 | Dec 6, 2009 |
| **Annual runoff (ac-ft)** | 405,800 | | 365,200 | | 303,500 | |
| **10 percent exceeds** | 1,610 | | 1,420 | | 1,140 | |
| **50 percent exceeds** | 279 | | 177 | | 169 | |
| **90 percent exceeds** | 100 | | 98 | | 98 | |



**12413355 SOUTH FORK COEUR D'ALENE RIVER ABOVE PINE CREEK NEAR PINEHURST ID—Continued**

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2009-2012.

### WATER-QUALITY DATA
### WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 1 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]

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| **10-14-2011** | **1150** | 4.0 | 106 | 7.0 | 260 | 8.8 | 105 | 27.8 | 8.64 | 0.308 |
| **02-23-2012** | **1605** | 1.0 | -- | 7.2 | 178 | 4.4 | 63.8 | 16.8 | 5.31 | .143 |
| **04-26-2012** | **1305** | 11.0 | -- | 7.1 | 66 | 6.9 | 25.0 | 6.78 | 1.97 | .013 |
| **06-26-2012** | **1215** | 11.0 | -- | 6.9 | 105 | 9.3 | 40.1 | 10.9 | 3.12 | .028 |

### WATER-QUALITY DATA
### WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Part 2 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]

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| **10-14-2011** | **1150** | 0.109 | 0.025 | 0.034 | 0.055 | 0.44 | 8.66 | 8.82 | 108 |
| **02-23-2012** | **1605** | .211 | .020 | .022 | .046 | .44 | 6.43 | 6.60 | 74.6 |
| **04-26-2012** | **1305** | .073 | .006 | .008 | .045 | .16 | 1.86 | 2.60 | 34.2 |
| **06-26-2012** | **1215** | .040 | .007 | .011 | .021 | .11 | 3.19 | 3.15 | 31.2 |

**12413355 SOUTH FORK COEUR D'ALENE RIVER ABOVE PINE CREEK NEAR PINEHURST 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]

| 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| **10-14-2011** | **1150** | 235 | 1.30 | 7.74 | 360 | 320 | 1,500 | 1,230 | 93 | 2 |
| **02-23-2012** | **1605** | 363 | 2.16 | 21.2 | 211 | 224 | 783 | 834 | 76 | 8 |
| **04-26-2012** | **1305** | 1,510 | 4.28 | 170 | 35.9 | 192 | 312 | 403 | 84 | 62 |
| **06-26-2012** | **1215** | 391 | 2.90 | 22.7 | 91.1 | 112 | 449 | 433 | 65 | 11 |