

Water-Data Report 2009

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, ID

Middle Snake-Boise Basin
North Fork Payette Subbasin

LOCATION.--Lat 44°06'51", long 116°06'26" referenced to North American Datum of 1983, in SW ¼ NW ¼ SE ¼ sec.16, T.9 N., R.3 E., Boise County, ID, Hydrologic Unit 17050123, Banks quad., Boise National Forest, on right bank, 300 ft downstream from highway bridge, 2.5 mi north of Banks, and at mile 2.8.

DRAINAGE AREA.--933 mi², Mean elevation, 5,800 ft.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,081.13 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Payette Lake (station 13238500), Lake Fork Reservoir, and Cascade Reservoir, 37.1 mi upstream, beginning November 1947. Diversions above station for irrigation of about 50,800 acres (1966 determination).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,830 ft³/s May 11, 1947, gage height, 13.50 ft, estimated on basis of records for station near Smiths Ferry; minimum recorded discharge, 36 ft³/s Dec. 21, 1947, gage height, 3.01 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,340 ft³/s June 7, gage height, 10.93 ft; minimum daily, 192 ft³/s Dec. 19.

13246000 NORTH FORK PAYETTE RIVER NEAR BANKS, ID—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 1 | 637 | 310 | 295 | 288 | 269 | 327 | 500 | 1,490 | 3,240 | 2,420 | 2,040 | 1,300 |
| 2 | 643 | 366 | 300 | 314 | 291 | 327 | 1,060 | 1,530 | 3,870 | 2,410 | 2,030 | 1,430 |
| 3 | 646 | 379 | 305 | 328 | 294 | 469 | 1,260 | 1,700 | 4,130 | 2,410 | 2,030 | 1,450 |
| 4 | 625 | 396 | 282 | e280 | 272 | 536 | 1,230 | 1,870 | 4,070 | 2,390 | 1,920 | 1,450 |
| 5 | 576 | 365 | 256 | e260 | 271 | 470 | 1,250 | 2,290 | 4,630 | 2,390 | 1,890 | 1,370 |
| 6 | 531 | 340 | 267 | e320 | 289 | 389 | 1,320 | 2,290 | 5,230 | 2,390 | 1,920 | 1,360 |
| 7 | 560 | 338 | 263 | e500 | 288 | 370 | 1,460 | 2,400 | 5,320 | 2,370 | 1,980 | 1,360 |
| 8 | 563 | 348 | 273 | 802 | 287 | 381 | 1,640 | 2,090 | 5,170 | 2,360 | 1,970 | 1,370 |
| 9 | 562 | 359 | 257 | 830 | 286 | 350 | 1,630 | 1,940 | 4,230 | 2,360 | 1,950 | e1,280 |
| 10 | 382 | 369 | 284 | 805 | 272 | 356 | 1,690 | 1,880 | 3,040 | 2,350 | 1,930 | e1,220 |
| 11 | 310 | 361 | 271 | 801 | 281 | 333 | 1,790 | 1,860 | 2,810 | 2,340 | 1,920 | e1,220 |
| 12 | 299 | 363 | 269 | 829 | 259 | 343 | 1,860 | 1,850 | 2,140 | 2,340 | 1,910 | e1,220 |
| 13 | 297 | 560 | 260 | 827 | 266 | 338 | 2,080 | 1,770 | 2,100 | 2,330 | 1,890 | e1,220 |
| 14 | 294 | 467 | 256 | 823 | 298 | 335 | 2,010 | 1,770 | 2,230 | 2,320 | 1,740 | e1,220 |
| 15 | 293 | 351 | 257 | 797 | 268 | 347 | 1,700 | 1,800 | 2,230 | 2,310 | 1,730 | e1,220 |
| 16 | 291 | 322 | 252 | 778 | 281 | 406 | 1,590 | 1,750 | 2,180 | 2,310 | 1,700 | e1,220 |
| 17 | 290 | 309 | 194 | 507 | 286 | 572 | 1,570 | 1,760 | 2,100 | 2,310 | 1,700 | e1,210 |
| 18 | 296 | 302 | 252 | 330 | 282 | 600 | 1,580 | 1,830 | 1,870 | 2,300 | 1,690 | e1,200 |
| 19 | 300 | 297 | 192 | 311 | 270 | 578 | 1,570 | 1,930 | 1,830 | 2,290 | 1,680 | e1,180 |
| 20 | 296 | 299 | 193 | 317 | 284 | 605 | 1,610 | 1,970 | 1,830 | 2,280 | 1,600 | e1,160 |
| 21 | 295 | 300 | 253 | 303 | 271 | 719 | 1,700 | 1,890 | 1,850 | 2,130 | 1,540 | e1,160 |
| 22 | 293 | 280 | 254 | 320 | 272 | 804 | 1,850 | 1,860 | 1,850 | 2,120 | 1,520 | e1,120 |
| 23 | 289 | 280 | 274 | 313 | 301 | 762 | 1,910 | 1,870 | 1,810 | 2,130 | 1,530 | e1,070 |
| 24 | 290 | 265 | 273 | 311 | 336 | 720 | 1,770 | 1,970 | 1,800 | 2,130 | 1,520 | e1,060 |
| 25 | 310 | 267 | 231 | 308 | 359 | 652 | 1,650 | 1,930 | 2,490 | 2,120 | 1,500 | e1,060 |
| 26 | 302 | 275 | e220 | 241 | 355 | 552 | 1,590 | 1,880 | 2,510 | 2,120 | 1,490 | e1,060 |
| 27 | 292 | 268 | e250 | 221 | 293 | 515 | 1,540 | 2,330 | 2,480 | 2,120 | 1,490 | e1,060 |
| 28 | 307 | 268 | 260 | 258 | 312 | 506 | 1,580 | 2,460 | 2,460 | 2,110 | 1,480 | e1,060 |
| 29 | 277 | 275 | 293 | 326 | --- | 601 | 1,560 | 3,180 | 2,450 | 2,080 | 1,290 | e1,010 |
| 30 | 291 | 288 | 303 | 297 | --- | 571 | 1,530 | 3,250 | 2,430 | 2,050 | 1,280 | e990 |
| 31 | 297 | --- | 287 | 287 | --- | 541 | --- | 3,230 | --- | 2,050 | 1,340 | --- |
| Total | 11,934 | 9,967 | 8,076 | 14,232 | 8,093 | 15,375 | 47,080 | 63,620 | 86,380 | 70,140 | 53,200 | 36,310 |
| Mean | 385 | 332 | 261 | 459 | 289 | 496 | 1,569 | 2,052 | 2,879 | 2,263 | 1,716 | 1,210 |
| Max | 646 | 560 | 305 | 830 | 359 | 804 | 2,080 | 3,250 | 5,320 | 2,420 | 2,040 | 1,450 |
| Min | 277 | 265 | 192 | 221 | 259 | 327 | 500 | 1,490 | 1,800 | 2,050 | 1,280 | 990 |
| Ac-ft | 23,670 | 19,770 | 16,020 | 28,230 | 16,050 | 30,500 | 93,380 | 126,200 | 171,300 | 139,100 | 105,500 | 72,020 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2009, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 758 | 483 | 656 | 735 | 810 | 1,109 | 1,741 | 1,984 | 2,392 | 1,604 | 1,749 | 1,516 |
| Max | 1,435 | 1,256 | 1,983 | 3,632 | 3,763 | 3,545 | 4,546 | 4,303 | 5,286 | 2,948 | 2,559 | 2,521 |
| (WY) | (1955) | (1951) | (1996) | (1997) | (1997) | (1974) | (2006) | (1952) | (1953) | (1982) | (1957) | (1969) |
| Min | 194 | 109 | 89.5 | 237 | 250 | 223 | 443 | 470 | 407 | 702 | 439 | 328 |
| (WY) | (1978) | (1949) | (1948) | (1989) | (1989) | (1977) | (1991) | (1992) | (1988) | (1986) | (1947) | (1948) |

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SUMMARY STATISTICS

| | Calendar Year 2008 | | Water Year 2009 | | Water Years 1947 - 2009 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 464,240 | | 424,407 | | | |
| Annual mean | 1,268 | | 1,163 | | 1,299 | |
| Highest annual mean | | | | | 2,186 | 1997 |
| Lowest annual mean | | | | | 637 | 2001 |
| Highest daily mean | 4,420 | Jun 10 | 5,320 | Jun 7 | 7,990 | Jun 29, 1971 |
| Lowest daily mean | 170 | Jan 25 | 192 | Dec 19 | 50 | Nov 23, 1947 |
| Annual seven-day minimum | 223 | Jan 21 | 227 | Dec 16 | 69 | Dec 14, 1948 |
| Annual runoff (ac-ft) | 920,800 | | 841,800 | | 941,200 | |
| 10 percent exceeds | 2,600 | | 2,320 | | 2,680 | |
| 50 percent exceeds | 1,120 | | 830 | | 1,020 | |
| 90 percent exceeds | 266 | | 272 | | 289 | |

