

Water-Data Report 2012

11294500 North Fork Stanislaus River near Avery, CA

San Joaquin River Basin

LOCATION.--Lat 38°14'38", long 120°17'24" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.35, T.5 N., R.15 E., Calaveras County, CA, Hydrologic Unit 18040010, Stanislaus National Forest, on right bank, 1.1 mi upstream from McKays Point Dam, 3.3 mi upstream from Beaver Creek, and 5.1 mi northeast of Avery.

DRAINAGE AREA.--166 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1914 to September 1925, October 1928 to current year. Water-year estimates for 1923-25 and 1929 published in WSP 1315-A. WATER TEMPERATURE: Water years 1990-98.

REVISED RECORDS.--WSP 1215: 1938 (instantaneous maximum discharge). WSP 1515: 1915 (instantaneous maximum discharge), 1932 (instantaneous maximum discharge), 1936 (instantaneous maximum discharge), 1938, 1940 (instantaneous maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 3,388.30 ft above NGVD of 1929 (river-profile survey). Prior to September 1922, nonrecording gage at same site at datum 0.05 ft lower.

COOPERATION.--Records were collected by Northern California Power Agency, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2409.

REMARKS.--Low and medium flows regulated by Union and Utica Reservoirs, Lake Alpine, North Fork Stanislaus River Diversion Reservoir, and New Spicer Meadow Reservoir beginning 1990 (stations 11293350, 11293370, 11293460, 11293590, and 11293770, respectively), total combined usable capacity, 194,001 acre-ft. See schematic diagram of Stanislaus River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,000 ft³/s, Jan. 31, 1963, gage height, 15.00 ft, from floodmarks, from rating curve extended above 14,000 ft³/s, on basis of slope-area measurement at gage height 13.8 ft; minimum daily, 5.5 ft³/s, Dec. 6, 7, 1929.

11294500 North Fork Stanislaus River near Avery, CA—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 | 407 | 150 | 343 | 168 | 141 | 135 | 484 | 735 | 192 | 172 | 253 | 164 |
| 2 | 335 | 185 | 210 | 171 | 122 | 130 | 408 | 651 | 192 | 175 | 220 | 163 |
| 3 | 325 | 283 | 164 | 249 | 127 | 148 | 430 | 560 | 187 | 175 | 219 | 163 |
| 4 | 181 | 320 | 163 | 253 | 128 | 181 | 491 | 516 | 209 | 173 | 200 | 162 |
| 5 | 260 | 314 | 222 | 253 | 130 | 193 | 362 | 462 | 229 | 173 | 191 | 165 |
| 6 | 209 | 312 | 257 | 252 | 128 | 194 | 302 | 414 | 180 | 171 | 189 | 165 |
| 7 | 293 | 509 | 258 | 252 | 127 | 133 | 279 | 381 | 179 | 170 | 207 | 162 |
| 8 | 288 | 631 | 231 | 190 | 126 | 151 | 285 | 357 | 176 | 229 | 255 | 162 |
| 9 | 257 | 576 | 218 | 182 | 126 | 157 | 320 | 348 | 173 | 226 | 259 | 162 |
| 10 | 214 | 367 | 245 | 181 | 132 | 149 | 359 | 336 | 179 | 215 | 260 | 178 |
| 11 | 272 | 353 | 290 | 183 | 139 | 145 | 367 | 310 | 225 | 224 | 330 | 203 |
| 12 | 422 | 380 | 358 | 183 | 137 | 137 | 335 | 289 | 283 | 223 | 439 | 214 |
| 13 | 551 | 413 | 335 | 183 | 152 | 160 | 329 | 272 | 249 | 223 | 416 | 224 |
| 14 | 443 | 413 | 263 | 182 | 121 | 277 | 307 | 259 | 192 | 192 | 414 | 232 |
| 15 | 220 | 410 | 210 | 182 | 146 | 414 | 339 | 241 | 210 | 190 | 258 | 232 |
| 16 | 182 | 319 | 162 | 182 | 134 | 1,100 | 427 | 220 | 246 | 191 | 291 | 171 |
| 17 | 181 | 314 | 155 | 152 | 134 | 877 | 583 | 202 | 282 | 168 | 235 | 161 |
| 18 | 181 | 315 | 188 | 126 | 143 | 427 | 682 | 181 | 272 | 165 | 202 | 163 |
| 19 | 181 | 323 | 258 | 119 | 139 | 303 | 778 | 165 | 216 | 165 | 210 | 163 |
| 20 | 180 | 328 | 263 | 156 | 134 | 285 | 1,010 | 188 | 179 | 173 | 217 | 164 |
| 21 | 180 | 341 | 203 | 1,140 | 132 | 405 | 1,150 | 219 | 174 | 182 | 317 | 164 |
| 22 | 181 | 303 | 186 | 230 | 148 | 475 | 1,190 | 233 | 172 | 206 | 239 | 165 |
| 23 | 178 | 313 | 187 | 226 | 138 | 499 | 1,200 | 228 | 172 | 209 | 180 | 165 |
| 24 | 397 | 323 | 189 | 199 | 133 | 401 | 1,200 | 221 | 172 | 208 | 179 | 213 |
| 25 | 409 | 301 | 194 | 218 | 144 | 370 | 1,060 | 209 | 171 | 196 | 172 | 281 |
| 26 | 196 | 261 | 226 | 233 | 135 | 313 | 2,710 | 213 | 169 | 164 | 163 | 218 |
| 27 | 182 | 469 | 226 | 205 | 138 | 278 | 1,340 | 189 | 171 | 166 | 162 | 216 |
| 28 | 184 | 292 | 197 | 145 | 134 | 329 | 949 | 167 | 173 | 166 | 162 | 215 |
| 29 | 183 | 189 | 170 | 156 | 146 | 340 | 837 | 149 | 171 | 166 | 164 | 215 |
| 30 | 183 | 360 | 169 | 200 | --- | 363 | 775 | 141 | 170 | 165 | 165 | 215 |
| 31 | 182 | --- | 169 | 191 | --- | 596 | --- | 170 | --- | 225 | 167 | --- |
| Total | 8,037 | 10,367 | 6,909 | 6,942 | 3,914 | 10,065 | 21,288 | 9,226 | 5,965 | 5,846 | 7,335 | 5,640 |
| Mean | 259 | 346 | 223 | 224 | 135 | 325 | 710 | 298 | 199 | 189 | 237 | 188 |
| Max | 551 | 631 | 358 | 1,140 | 152 | 1,100 | 2,710 | 735 | 283 | 229 | 439 | 281 |
| Min | 178 | 150 | 155 | 119 | 121 | 130 | 279 | 141 | 169 | 164 | 162 | 161 |
| Ac-ft | 15,940 | 20,560 | 13,700 | 13,770 | 7,760 | 19,960 | 42,220 | 18,300 | 11,830 | 11,600 | 14,550 | 11,190 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2012, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 105 | 150 | 245 | 277 | 345 | 517 | 943 | 1,372 | 761 | 204 | 119 | 111 |
| Max | 482 | 2,103 | 1,957 | 2,440 | 2,105 | 1,785 | 2,026 | 3,299 | 3,651 | 1,231 | 672 | 492 |
| (WY) | (1983) | (1951) | (1965) | (1997) | (1986) | (1986) | (1982) | (1969) | (1983) | (1983) | (1998) | (2011) |
| Min | 21.8 | 10.6 | 10.1 | 17.0 | 23.5 | 39.7 | 70.6 | 138 | 44.9 | 34.0 | 24.2 | 22.9 |
| (WY) | (1960) | (1960) | (1977) | (1977) | (1933) | (1977) | (1924) | (1924) | (1924) | (1924) | (1981) | (1924) |

11294500 North Fork Stanislaus River near Avery, CA—Continued

SUMMARY STATISTICS

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1915 - 2012 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 302,564 | | 101,534 | | | |
| Annual mean | 829 | | 277 | | 429 | |
| Highest annual mean | | | | | 1,019 | 1983 |
| Lowest annual mean | | | | | 54.3 | 1924 |
| Highest daily mean | 4,320 | Jun 29 | 2,710 | Apr 26 | 23,400 | Dec 23, 1955 |
| Lowest daily mean | 150 | Nov 1 | 119 | Jan 19 | 5.5 | Dec 6, 1929 |
| Annual seven-day minimum | 178 | Oct 27 | 127 | Feb 2 | 7.4 | Dec 2, 1929 |
| Maximum peak flow | | | 3,940 | Apr 26 | 36,000 | Jan 31, 1963 |
| Maximum peak stage | | | 7.37 | Apr 26 | 15.00 | Jan 31, 1963 |
| Annual runoff (ac-ft) | 600,100 | | 201,400 | | 310,900 | |
| 10 percent exceeds | 1,670 | | 427 | | 1,160 | |
| 50 percent exceeds | 552 | | 209 | | 175 | |
| 90 percent exceeds | 216 | | 147 | | 37 | |

