

November 27, 2006

All:

These are the data, with associated graphic, that we discussed at our November 8, 2006 meeting. Two new tables are included.

The first new table (Page 5) contains the flow below H Street for the latest CALSIMII study using the Water Forum Flow Management Standard (FMS) Minimum Flow Requirements (MFR). Highlighted cells indicate a flow less than the Hodge Criteria.

The second new table (Page 6) contains the flow below H Street for the latest CALSIMII study using the Water Forum Flow Management Standard (FMS) Minimum Flow Requirements (MFR). Highlighted cells indicate a flow less than the MFR Criteria.

The graphic (page 6) contains output from all of the tables.

Please advise me of any questions or additional analyses you may desire.

Buzz

Future with WFA, LARFS #2 (PROSIM) Hodge Criteria
Flow Below H Street (cfs)

| | Modeled Flow Below H Street Less Than Hodge | | | | | | | | | | | |
|--------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 1922 | 2,280 | 2,344 | 2,451 | 1,403 | 2,470 | 4,385 | 4,312 | 7,983 | 8,381 | 3,115 | 2,511 | 3,188 |
| 1923 | 2,299 | 2,399 | 6,036 | 4,327 | 2,822 | 2,829 | 3,000 | 4,054 | 3,755 | 2,574 | 4,292 | 1,940 |
| 1924 | 2,279 | 2,320 | 2,349 | 1,112 | 963 | 749 | 367 | 509 | 486 | 1,208 | 391 | 413 |
| 1925 | 1,033 | 1,004 | 1,082 | 1,168 | 3,668 | 3,042 | 3,263 | 3,848 | 4,906 | 2,052 | 1,750 | 2,209 |
| 1926 | 2,276 | 2,332 | 2,370 | 1,757 | 1,548 | 1,102 | 1,873 | 661 | 2,300 | 2,544 | 424 | 469 |
| 1927 | 2,318 | 2,436 | 2,371 | 3,127 | 13,214 | 4,263 | 7,653 | 4,267 | 4,820 | 6,162 | 3,419 | 2,220 |
| 1928 | 1,875 | 1,927 | 1,943 | 1,859 | 1,790 | 10,075 | 4,456 | 1,668 | 3,629 | 2,431 | 3,843 | 975 |
| 1929 | 1,527 | 1,581 | 1,604 | 1,240 | 971 | 923 | 860 | 1,201 | 1,866 | 1,303 | 700 | 745 |
| 1930 | 1,193 | 1,190 | 1,299 | 1,514 | 1,678 | 1,341 | 1,039 | 1,427 | 1,471 | 2,245 | 807 | 1,167 |
| 1931 | 2,276 | 2,334 | 2,334 | 1,564 | 1,358 | 1,041 | 447 | 721 | 677 | 2,364 | 442 | 487 |
| 1932 | 1,029 | 1,057 | 1,188 | 1,382 | 2,482 | 2,890 | 2,854 | 3,717 | 4,373 | 2,711 | 1,914 | 1,953 |
| 1933 | 2,231 | 2,277 | 2,340 | 1,880 | 1,431 | 1,516 | 1,429 | 1,963 | 1,911 | 1,063 | 1,066 | 1,112 |
| 1934 | 869 | 848 | 974 | 1,309 | 1,662 | 1,248 | 3,389 | 279 | 1,402 | 1,395 | 225 | 281 |
| 1935 | 796 | 864 | 856 | 1,248 | 1,606 | 2,982 | 4,758 | 3,975 | 3,706 | 2,240 | 3,677 | 2,596 |
| 1936 | 2,299 | 2,334 | 2,370 | 4,090 | 13,303 | 3,933 | 5,415 | 3,919 | 3,874 | 3,690 | 2,021 | 3,357 |
| 1937 | 2,273 | 2,314 | 2,396 | 1,586 | 1,579 | 4,220 | 3,835 | 4,074 | 3,190 | 2,159 | 1,725 | 3,189 |
| 1938 | 2,290 | 2,391 | 5,617 | 2,662 | 9,674 | 10,236 | 7,574 | 9,421 | 8,049 | 2,970 | 3,628 | 3,539 |
| 1939 | 2,282 | 2,322 | 2,359 | 1,739 | 1,458 | 1,164 | 295 | 521 | 1,474 | 1,424 | 348 | 403 |
| 1940 | 1,832 | 1,813 | 1,855 | 2,410 | 10,131 | 10,293 | 5,875 | 2,739 | 2,691 | 5,571 | 2,919 | 1,507 |
| 1941 | 1,862 | 1,890 | 2,034 | 4,904 | 7,828 | 4,583 | 3,422 | 4,978 | 3,834 | 1,999 | 2,286 | 3,483 |
| 1942 | 2,308 | 2,361 | 4,458 | 9,122 | 9,771 | 4,401 | 4,394 | 5,118 | 6,798 | 2,944 | 3,714 | 3,522 |
| 1943 | 2,286 | 3,262 | 4,558 | 10,739 | 6,662 | 11,861 | 4,889 | 3,087 | 3,055 | 6,025 | 2,571 | 1,705 |
| 1944 | 1,936 | 1,994 | 2,038 | 1,626 | 1,370 | 1,526 | 1,494 | 2,001 | 1,846 | 1,399 | 1,096 | 1,142 |
| 1945 | 2,010 | 2,095 | 2,088 | 1,635 | 5,822 | 2,502 | 2,408 | 3,165 | 4,540 | 4,533 | 2,062 | 2,101 |
| 1946 | 1,784 | 1,788 | 6,774 | 4,842 | 2,497 | 2,534 | 3,580 | 3,214 | 5,114 | 4,028 | 1,932 | 2,546 |
| 1947 | 1,680 | 1,731 | 1,752 | 1,631 | 1,373 | 1,092 | 721 | 1,039 | 2,463 | 2,173 | 617 | 662 |
| 1948 | 2,159 | 2,185 | 2,198 | 1,736 | 1,409 | 3,102 | 3,063 | 3,952 | 3,879 | 2,015 | 3,525 | 2,203 |
| 1949 | 1,636 | 1,649 | 1,726 | 1,332 | 1,083 | 1,881 | 1,737 | 2,353 | 3,449 | 2,595 | 2,752 | 1,433 |
| 1950 | 1,913 | 1,973 | 2,008 | 1,639 | 3,492 | 2,863 | 4,817 | 3,639 | 3,589 | 2,290 | 2,775 | 3,391 |
| 1951 | 2,331 | 15,869 | 16,191 | 9,919 | 7,944 | 3,509 | 2,728 | 3,112 | 2,672 | 5,392 | 2,908 | 1,764 |
| 1952 | 1,759 | 1,776 | 3,356 | 8,904 | 9,303 | 5,805 | 8,565 | 10,774 | 9,958 | 4,086 | 4,139 | 3,729 |
| 1953 | 2,282 | 2,366 | 2,472 | 6,139 | 2,340 | 3,473 | 3,446 | 4,266 | 4,226 | 2,196 | 2,211 | 2,240 |
| 1954 | 2,289 | 2,361 | 2,360 | 1,954 | 1,975 | 3,540 | 3,898 | 2,630 | 3,477 | 1,784 | 3,737 | 1,027 |
| 1955 | 1,720 | 1,779 | 1,832 | 1,498 | 1,740 | 1,591 | 1,585 | 2,103 | 2,056 | 1,145 | 2,333 | 1,206 |
| 1956 | 1,765 | 1,788 | 14,359 | 15,925 | 6,036 | 4,098 | 4,092 | 4,273 | 4,215 | 2,195 | 3,209 | 3,473 |
| 1957 | 2,307 | 2,325 | 2,354 | 1,901 | 1,627 | 3,361 | 2,542 | 3,328 | 3,815 | 4,312 | 2,383 | 1,776 |
| 1958 | 1,843 | 1,827 | 1,893 | 1,610 | 7,686 | 6,464 | 10,019 | 9,726 | 7,220 | 2,627 | 3,804 | 3,564 |
| 1959 | 2,284 | 2,330 | 2,367 | 1,681 | 1,918 | 1,439 | 439 | 653 | 2,372 | 427 | 2,306 | 720 |
| 1960 | 1,751 | 1,754 | 1,802 | 1,471 | 1,155 | 1,963 | 1,248 | 1,193 | 2,686 | 2,242 | 2,948 | 1,354 |
| 1961 | 1,757 | 1,837 | 1,803 | 1,450 | 1,121 | 876 | 498 | 750 | 701 | 467 | 470 | 517 |
| 1962 | 1,673 | 1,723 | 1,741 | 1,358 | 1,190 | 1,692 | 3,627 | 2,179 | 2,877 | 4,978 | 2,536 | 1,951 |
| 1963 | 1,888 | 2,509 | 2,955 | 3,413 | 11,858 | 3,366 | 4,036 | 6,716 | 4,203 | 5,342 | 2,190 | 2,230 |
| 1964 | 1,944 | 2,047 | 1,995 | 2,066 | 2,110 | 1,669 | 1,358 | 1,857 | 1,818 | 2,228 | 1,025 | 1,070 |
| 1965 | 1,922 | 1,992 | 19,863 | 13,080 | 5,287 | 2,942 | 3,205 | 3,755 | 3,712 | 6,175 | 2,302 | 1,981 |
| 1966 | 2,202 | 2,312 | 2,324 | 1,829 | 1,662 | 1,269 | 439 | 670 | 2,784 | 433 | 2,281 | 478 |
| 1967 | 1,844 | 1,968 | 1,940 | 6,497 | 4,200 | 5,643 | 4,371 | 7,290 | 9,939 | 3,764 | 3,752 | 3,796 |
| 1968 | 2,279 | 2,346 | 2,365 | 2,197 | 5,062 | 1,917 | 632 | 928 | 3,061 | 736 | 1,802 | 2,154 |
| 1969 | 1,831 | 1,889 | 1,909 | 14,413 | 9,155 | 4,370 | 5,308 | 8,762 | 6,101 | 2,406 | 3,581 | 3,519 |
| 1970 | 2,299 | 2,347 | 4,814 | 20,786 | 6,109 | 2,147 | 1,603 | 2,163 | 2,800 | 2,360 | 3,501 | 1,227 |
| 1971 | 1,784 | 1,896 | 4,477 | 4,570 | 3,159 | 3,812 | 3,073 | 4,015 | 3,954 | 2,063 | 2,769 | 3,346 |
| 1972 | 2,286 | 2,344 | 2,427 | 2,269 | 2,103 | 3,299 | 1,378 | 1,850 | 4,673 | 1,665 | 3,872 | 1,086 |
| 1973 | 1,597 | 1,662 | 1,640 | 8,539 | 7,048 | 3,126 | 2,341 | 3,761 | 6,203 | 2,466 | 3,505 | 1,701 |
| 1974 | 1,597 | 3,112 | 7,204 | 11,022 | 3,944 | 9,460 | 5,938 | 4,493 | 4,226 | 2,436 | 3,771 | 3,631 |
| 1975 | 2,307 | 2,361 | 2,416 | 1,800 | 1,819 | 3,851 | 3,750 | 4,258 | 4,487 | 2,375 | 3,571 | 3,404 |
| 1976 | 2,326 | 2,533 | 2,362 | 2,129 | 1,653 | 1,295 | 390 | 598 | 2,077 | 1,442 | 573 | 447 |
| 1977 | 825 | 838 | 861 | 680 | 250 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 375 | 500 | 1,956 | 4,576 | 5,482 | 3,874 | 3,593 | 3,551 | 5,895 | 2,944 | 1,906 |
| 1979 | 2,032 | 2,137 | 2,116 | 1,747 | 1,420 | 2,258 | 2,188 | 2,896 | 6,195 | 1,920 | 2,988 | 1,597 |
| 1980 | 1,617 | 1,617 | 1,680 | 15,197 | 13,558 | 3,119 | 2,684 | 3,485 | 3,438 | 3,684 | 3,853 | 1,841 |
| 1981 | 2,239 | 2,285 | 2,351 | 1,911 | 1,443 | 1,172 | 361 | 574 | 530 | 382 | 520 | 644 |
| 1982 | 2,109 | 5,299 | 13,977 | 8,107 | 14,947 | 7,470 | 14,063 | 8,897 | 5,716 | 2,824 | 3,757 | 3,984 |
| 1983 | 3,029 | 6,660 | 8,943 | 7,453 | 12,245 | 16,121 | 6,359 | 10,125 | 14,000 | 5,749 | 4,519 | 4,585 |
| 1984 | 2,309 | 14,317 | 15,099 | 6,380 | 5,441 | 2,403 | 2,343 | 3,061 | 3,684 | 4,713 | 2,446 | 1,699 |
| 1985 | 1,996 | 2,124 | 2,064 | 2,366 | 2,007 | 1,597 | 804 | 1,143 | 3,168 | 2,234 | 1,994 | 731 |
| 1986 | 1,875 | 1,995 | 1,966 | 2,318 | 32,820 | 10,783 | 2,375 | 3,092 | 3,052 | 5,085 | 3,304 | 1,730 |
| 1987 | 1,994 | 2,044 | 2,081 | 1,673 | 1,335 | 1,055 | 314 | 370 | 331 | 1,216 | 388 | 375 |
| 1988 | 1,857 | 1,508 | 1,580 | 1,238 | 1,362 | 1,051 | 349 | 307 | 1,883 | 899 | 248 | 292 |
| 1989 | 913 | 956 | 991 | 1,322 | 1,277 | 5,792 | 3,532 | 2,143 | 4,246 | 2,738 | 3,223 | 1,063 |
| 1990 | 1,523 | 1,523 | 1,520 | 1,263 | 1,323 | 983 | 2,579 | 879 | 2,262 | 1,174 | 1,116 | 558 |
| 1991 | 924 | 935 | 971 | 742 | 250 | 1,508 | 1,314 | 1,799 | 2,711 | 2,206 | 992 | 1,033 |
| Avg (cfs) | 1,890 | 2,438 | 3,448 | 3,991 | 4,551 | 3,594 | 3,101 | 3,259 | 3,756 | 2,684 | 2,334 | 1,852 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 30 | 34 | 27 | 39 | 33 | 37 | 36 | 34 | 27 | 18 | 21 | 36 |
| Percent of Months | 43% | 49% | 39% | 56% | 47% | 53% | 51% | 49% | 39% | 26% | 30% | 51% |

OCAP W/O WF Reductions (CALSIMII) Hodge Criteria
Flow Below H Street (cfs)

| | Modeled Flow Below H Street Less Than Hodge | | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| | OCT | NOV | DEC | | | | | | | | | |
| 1922 | 1,241 | 1,764 | 1,607 | 1,214 | 5,954 | 3,193 | 3,936 | 8,850 | 8,577 | 3,264 | 1,896 | 3,403 |
| 1923 | 1,640 | 2,727 | 6,465 | 4,324 | 2,832 | 2,483 | 3,319 | 3,934 | 2,277 | 4,590 | 2,202 | 1,987 |
| 1924 | 1,545 | 1,820 | 1,789 | 1,679 | 1,574 | 766 | 391 | 360 | 660 | 512 | 411 | 1,471 |
| 1925 | 375 | 375 | 500 | 1,163 | 4,082 | 4,839 | 1,541 | 3,447 | 4,590 | 4,565 | 1,097 | 375 |
| 1926 | 1,692 | 1,844 | 1,835 | 1,771 | 2,407 | 1,638 | 2,082 | 2,034 | 3,208 | 2,138 | 1,142 | 724 |
| 1927 | 1,387 | 500 | 938 | 3,422 | 13,260 | 4,182 | 7,268 | 4,039 | 4,629 | 4,567 | 1,149 | 2,834 |
| 1928 | 1,837 | 2,916 | 2,120 | 1,642 | 2,058 | 12,650 | 4,188 | 2,076 | 2,674 | 4,088 | 1,264 | 1,127 |
| 1929 | 1,529 | 1,665 | 1,476 | 1,050 | 353 | 617 | 572 | 1,044 | 1,516 | 1,467 | 1,208 | 712 |
| 1930 | 1,536 | 1,380 | 500 | 485 | 1,780 | 2,299 | 1,472 | 1,536 | 2,116 | 3,188 | 1,331 | 1,151 |
| 1931 | 2,444 | 1,966 | 500 | 410 | 1,283 | 912 | 280 | 332 | 933 | 724 | 549 | 625 |
| 1932 | 1,738 | 375 | 500 | 1,332 | 2,348 | 1,883 | 1,777 | 2,683 | 4,603 | 4,589 | 3,789 | 1,436 |
| 1933 | 2,372 | 2,129 | 1,615 | 1,213 | 339 | 573 | 3,566 | 715 | 2,474 | 1,828 | 1,310 | 815 |
| 1934 | 1,402 | 819 | 500 | 1,493 | 469 | 1,206 | 3,138 | 1,156 | 1,194 | 522 | 1,500 | 916 |
| 1935 | 1,523 | 375 | 500 | 438 | 1,354 | 1,050 | 6,332 | 4,107 | 3,008 | 4,561 | 2,936 | 1,435 |
| 1936 | 2,336 | 1,846 | 1,667 | 4,801 | 13,228 | 3,809 | 4,963 | 3,388 | 4,152 | 4,586 | 2,544 | 1,950 |
| 1937 | 2,411 | 1,896 | 1,758 | 1,613 | 2,541 | 4,296 | 3,796 | 3,262 | 3,666 | 4,583 | 1,823 | 1,563 |
| 1938 | 1,538 | 1,825 | 5,370 | 2,582 | 9,636 | 10,765 | 7,326 | 8,907 | 8,052 | 2,573 | 3,598 | 3,727 |
| 1939 | 1,548 | 2,018 | 1,847 | 1,361 | 1,897 | 865 | 1,037 | 1,112 | 1,251 | 1,494 | 523 | 281 |
| 1940 | 1,583 | 1,441 | 671 | 2,780 | 10,287 | 10,563 | 5,293 | 2,490 | 3,812 | 4,477 | 811 | 1,458 |
| 1941 | 1,867 | 2,071 | 2,941 | 5,562 | 7,798 | 4,566 | 3,443 | 4,406 | 2,535 | 2,331 | 2,626 | 3,605 |
| 1942 | 1,550 | 2,218 | 5,478 | 8,989 | 9,681 | 2,138 | 5,756 | 6,102 | 6,467 | 3,569 | 2,388 | 3,654 |
| 1943 | 1,505 | 3,966 | 4,494 | 10,578 | 6,889 | 12,375 | 4,527 | 2,720 | 1,682 | 4,595 | 1,147 | 2,938 |
| 1944 | 1,895 | 1,830 | 1,798 | 1,327 | 1,754 | 1,216 | 1,524 | 2,205 | 2,429 | 2,236 | 265 | 375 |
| 1945 | 1,920 | 1,814 | 2,014 | 1,505 | 9,039 | 1,726 | 1,932 | 2,666 | 2,931 | 4,579 | 734 | 1,974 |
| 1946 | 1,987 | 3,713 | 8,685 | 4,807 | 2,924 | 2,199 | 3,112 | 2,978 | 3,205 | 4,594 | 986 | 705 |
| 1947 | 2,451 | 1,986 | 1,779 | 1,268 | 1,785 | 2,058 | 1,925 | 1,690 | 1,728 | 1,993 | 638 | 1,360 |
| 1948 | 1,614 | 1,629 | 1,445 | 1,046 | 350 | 697 | 2,270 | 3,063 | 4,340 | 4,170 | 1,859 | 2,288 |
| 1949 | 1,691 | 1,841 | 1,877 | 1,343 | 1,708 | 2,117 | 2,741 | 2,671 | 3,875 | 3,454 | 991 | 375 |
| 1950 | 1,536 | 1,778 | 1,853 | 2,107 | 5,350 | 2,845 | 4,206 | 3,416 | 3,317 | 4,573 | 1,414 | 2,808 |
| 1951 | 2,490 | 16,545 | 15,903 | 9,977 | 7,993 | 3,439 | 2,339 | 2,929 | 2,250 | 4,597 | 1,775 | 938 |
| 1952 | 1,602 | 2,111 | 5,687 | 8,869 | 9,146 | 5,929 | 8,175 | 10,704 | 9,700 | 3,550 | 4,063 | 3,928 |
| 1953 | 1,499 | 2,297 | 2,503 | 6,989 | 1,973 | 1,529 | 2,217 | 2,519 | 5,304 | 4,568 | 2,318 | 3,200 |
| 1954 | 1,524 | 2,438 | 1,832 | 1,843 | 3,037 | 4,187 | 3,957 | 2,671 | 2,420 | 3,003 | 1,750 | 1,012 |
| 1955 | 1,522 | 1,675 | 1,528 | 1,108 | 1,039 | 1,107 | 1,190 | 2,234 | 2,267 | 2,145 | 1,649 | 375 |
| 1956 | 1,562 | 1,873 | 15,278 | 16,287 | 5,885 | 2,239 | 2,087 | 5,381 | 5,114 | 3,991 | 1,916 | 3,708 |
| 1957 | 1,567 | 2,193 | 1,980 | 1,481 | 2,894 | 4,200 | 1,714 | 2,307 | 3,345 | 4,560 | 2,200 | 1,879 |
| 1958 | 1,592 | 1,730 | 1,600 | 1,740 | 9,445 | 6,480 | 10,127 | 9,397 | 6,984 | 2,213 | 3,650 | 3,692 |
| 1959 | 1,507 | 1,806 | 1,826 | 1,427 | 2,955 | 1,481 | 1,189 | 1,560 | 2,416 | 4,607 | 250 | 375 |
| 1960 | 500 | 500 | 500 | 250 | 414 | 3,055 | 3,106 | 1,763 | 1,567 | 1,972 | 1,493 | 1,136 |
| 1961 | 1,526 | 1,556 | 1,337 | 997 | 351 | 681 | 791 | 1,331 | 928 | 3,698 | 250 | 375 |
| 1962 | 500 | 500 | 500 | 250 | 605 | 1,801 | 3,264 | 2,632 | 1,546 | 4,602 | 1,140 | 1,603 |
| 1963 | 3,154 | 4,033 | 3,136 | 3,704 | 11,568 | 1,642 | 6,029 | 6,370 | 2,524 | 4,564 | 2,591 | 2,195 |
| 1964 | 1,577 | 3,199 | 1,963 | 2,217 | 1,961 | 929 | 1,132 | 1,522 | 3,004 | 2,280 | 1,601 | 1,574 |
| 1965 | 1,591 | 1,506 | 19,260 | 12,730 | 5,116 | 1,607 | 4,496 | 3,465 | 2,436 | 4,592 | 1,333 | 3,510 |
| 1966 | 1,615 | 2,678 | 2,380 | 1,777 | 1,795 | 1,294 | 1,489 | 1,841 | 1,252 | 2,624 | 340 | 1,125 |
| 1967 | 1,528 | 1,465 | 1,268 | 6,041 | 4,088 | 5,849 | 3,652 | 7,672 | 9,725 | 3,131 | 3,581 | 3,856 |
| 1968 | 1,508 | 2,709 | 2,415 | 1,809 | 5,931 | 1,862 | 1,276 | 1,362 | 1,328 | 3,727 | 250 | 375 |
| 1969 | 1,565 | 1,637 | 1,464 | 14,165 | 8,964 | 3,438 | 5,946 | 8,457 | 5,832 | 3,691 | 2,289 | 3,223 |
| 1970 | 1,545 | 2,390 | 5,479 | 20,842 | 5,798 | 2,143 | 1,635 | 2,665 | 2,203 | 4,605 | 688 | 1,234 |
| 1971 | 1,573 | 1,603 | 3,669 | 4,481 | 3,612 | 3,185 | 2,635 | 2,422 | 4,155 | 4,590 | 1,715 | 2,737 |
| 1972 | 1,524 | 2,212 | 2,672 | 1,912 | 2,613 | 3,722 | 1,430 | 1,705 | 4,326 | 4,549 | 250 | 843 |
| 1973 | 1,807 | 1,600 | 1,393 | 7,901 | 6,903 | 3,179 | 2,284 | 3,196 | 4,580 | 3,828 | 491 | 494 |
| 1974 | 1,607 | 7,445 | 7,067 | 11,412 | 4,153 | 9,154 | 5,612 | 4,153 | 3,441 | 2,605 | 3,620 | 3,763 |
| 1975 | 1,540 | 1,849 | 1,880 | 1,330 | 3,849 | 4,460 | 2,789 | 3,450 | 5,529 | 3,455 | 2,085 | 3,573 |
| 1976 | 1,608 | 3,433 | 1,824 | 1,334 | 511 | 580 | 391 | 548 | 516 | 1,010 | 354 | 281 |
| 1977 | 1,545 | 1,601 | 500 | 365 | 344 | 318 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 375 | 500 | 1,749 | 4,652 | 5,839 | 3,111 | 2,818 | 3,477 | 4,573 | 2,484 | 2,215 |
| 1979 | 1,511 | 1,864 | 1,624 | 1,260 | 3,261 | 3,165 | 1,883 | 3,127 | 4,572 | 3,191 | 740 | 664 |
| 1980 | 1,621 | 1,857 | 1,987 | 18,006 | 12,997 | 3,238 | 2,010 | 2,320 | 2,479 | 3,248 | 2,554 | 3,580 |
| 1981 | 1,936 | 1,805 | 1,828 | 1,384 | 668 | 1,513 | 1,446 | 1,710 | 1,196 | 3,253 | 188 | 281 |
| 1982 | 1,542 | 3,057 | 14,154 | 7,791 | 14,998 | 7,385 | 14,070 | 8,561 | 5,244 | 2,277 | 3,524 | 4,254 |
| 1983 | 1,899 | 7,885 | 8,899 | 7,387 | 12,258 | 16,335 | 6,256 | 9,905 | 13,672 | 5,097 | 4,243 | 4,586 |
| 1984 | 1,511 | 15,513 | 14,841 | 6,407 | 5,582 | 2,298 | 1,557 | 2,373 | 2,711 | 4,602 | 798 | 2,406 |
| 1985 | 1,577 | 3,804 | 2,280 | 1,838 | 1,757 | 1,353 | 1,871 | 2,008 | 2,419 | 1,982 | 1,515 | 700 |
| 1986 | 1,749 | 500 | 500 | 3,730 | 32,713 | 10,712 | 2,101 | 2,229 | 2,595 | 4,594 | 1,643 | 2,570 |
| 1987 | 2,127 | 1,810 | 1,647 | 1,221 | 473 | 744 | 1,486 | 1,050 | 1,356 | 1,110 | 333 | 420 |
| 1988 | 1,562 | 375 | 1,452 | 1,039 | 566 | 829 | 527 | 1,433 | 1,042 | 688 | 495 | 281 |
| 1989 | 395 | 379 | 500 | 1,369 | 1,287 | 6,795 | 3,083 | 2,836 | 4,477 | 2,518 | 647 | 1,594 |
| 1990 | 1,641 | 1,712 | 1,523 | 1,170 | 1,388 | 683 | 1,777 | 714 | 1,332 | 1,321 | 919 | 482 |
| 1991 | 1,544 | 375 | 500 | 352 | 382 | 524 | 1,460 | 1,511 | 1,760 | 3,233 | 1,131 | 1,320 |
| 1992 | 1,574 | 1,326 | 500 | 373 | 480 | 964 | 2,373 | 1,490 | 586 | 410 | 188 | 281 |
| 1993 | 375 | 375 | 500 | 2,464 | 5,922 | 7,311 | 3,321 | 4,735 | 4,745 | 4,568 | 2,610 | 2,198 |
| 1994 | 1,531 | 3,234 | 1,817 | 1,333 | 488 | 1,014 | 784 | 1,447 | 1,140 | 4,620 | 188 | 281 |
| Avg (cfs) | 1,598 | 2,372 | 3,102 | 3,773 | 4,624 | 3,434 | 3,068 | 3,179 | 3,364 | 3,269 | 1,536 | 1,746 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 60 | 47 | 49 | 44 | 30 | 42 | 42 | 47 | 39 | 11 | 46 | 43 |
| Percent of Months | 82% | 64% | 67% | 60% | 41% | 58% | 58% | 64% | 53% | 15% | 63% | 59% |

Proposed Joint Lower American River FMS (CALSIMII)

Flow Below H Street (cfs)

Modeled Flow Below H Street Less Than Hodge

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1922 | 1,429 | 1,773 | 1,944 | 1,620 | 4,976 | 3,203 | 3,934 | 8,849 | 8,577 | 3,264 | 1,896 | 3,403 |
| 1923 | 1,478 | 2,895 | 6,464 | 4,324 | 2,831 | 1,621 | 4,214 | 3,924 | 2,177 | 4,591 | 1,724 | 2,582 |
| 1924 | 1,483 | 1,745 | 1,839 | 1,587 | 1,385 | 1,092 | 545 | 461 | 492 | 430 | 461 | 1,318 |
| 1925 | 697 | 655 | 727 | 658 | 3,852 | 4,841 | 1,451 | 3,534 | 4,590 | 4,565 | 1,358 | 1,249 |
| 1926 | 1,609 | 1,770 | 1,860 | 1,577 | 1,539 | 704 | 3,063 | 1,989 | 3,228 | 2,132 | 1,148 | 610 |
| 1927 | 1,088 | 1,045 | 957 | 3,297 | 13,261 | 4,182 | 7,270 | 4,041 | 4,631 | 4,567 | 1,359 | 2,617 |
| 1928 | 1,967 | 2,783 | 2,122 | 1,643 | 2,059 | 12,651 | 4,189 | 2,033 | 2,538 | 4,207 | 1,463 | 1,247 |
| 1929 | 1,278 | 1,560 | 1,627 | 1,336 | 1,115 | 1,174 | 1,026 | 928 | 1,226 | 1,179 | 1,217 | 1,226 |
| 1930 | 624 | 656 | 766 | 764 | 695 | 2,609 | 1,469 | 1,413 | 2,036 | 3,295 | 1,381 | 1,253 |
| 1931 | 2,444 | 1,527 | 1,583 | 1,380 | 1,123 | 807 | 596 | 658 | 207 | 188 | 677 | 630 |
| 1932 | 1,747 | 662 | 794 | 670 | 1,562 | 1,892 | 1,448 | 2,857 | 4,601 | 4,589 | 3,801 | 1,231 |
| 1933 | 2,307 | 2,128 | 1,868 | 1,600 | 1,280 | 1,323 | 1,872 | 1,136 | 2,336 | 1,660 | 1,395 | 1,252 |
| 1934 | 951 | 805 | 740 | 670 | 688 | 1,322 | 2,885 | 922 | 1,552 | 685 | 1,249 | 1,125 |
| 1935 | 1,474 | 700 | 683 | 735 | 643 | 1,664 | 5,533 | 4,163 | 2,958 | 4,562 | 2,935 | 1,218 |
| 1936 | 2,084 | 1,762 | 1,859 | 5,154 | 13,225 | 3,809 | 4,963 | 3,388 | 4,152 | 4,586 | 2,597 | 1,913 |
| 1937 | 2,311 | 1,720 | 1,883 | 1,592 | 2,707 | 4,297 | 3,796 | 3,262 | 3,667 | 4,583 | 1,831 | 1,373 |
| 1938 | 1,289 | 1,813 | 5,806 | 2,578 | 9,636 | 10,765 | 7,326 | 8,907 | 8,052 | 2,573 | 3,598 | 3,727 |
| 1939 | 1,298 | 2,278 | 1,844 | 1,561 | 1,277 | 680 | 1,095 | 1,198 | 1,338 | 1,749 | 607 | 549 |
| 1940 | 1,115 | 1,096 | 1,138 | 2,646 | 10,288 | 10,563 | 5,293 | 2,490 | 3,792 | 4,495 | 1,366 | 1,247 |
| 1941 | 1,706 | 2,030 | 2,799 | 5,564 | 7,798 | 4,566 | 3,443 | 4,406 | 2,485 | 1,785 | 3,222 | 3,600 |
| 1942 | 1,300 | 2,478 | 5,476 | 8,989 | 9,681 | 2,138 | 5,756 | 6,101 | 6,467 | 3,568 | 2,389 | 3,654 |
| 1943 | 1,255 | 4,226 | 4,492 | 10,578 | 6,889 | 12,374 | 4,526 | 1,956 | 2,313 | 4,589 | 1,360 | 2,875 |
| 1944 | 1,646 | 1,757 | 1,860 | 1,573 | 1,401 | 1,623 | 1,520 | 1,436 | 2,536 | 2,461 | 1,381 | 1,244 |
| 1945 | 1,553 | 1,648 | 1,691 | 1,595 | 8,118 | 1,734 | 1,697 | 2,815 | 2,932 | 4,579 | 1,356 | 1,409 |
| 1946 | 1,832 | 3,880 | 8,684 | 4,807 | 2,914 | 2,209 | 3,112 | 2,979 | 3,206 | 4,594 | 1,370 | 1,260 |
| 1947 | 2,188 | 1,791 | 1,872 | 1,535 | 1,300 | 1,654 | 1,930 | 894 | 2,412 | 2,023 | 880 | 962 |
| 1948 | 1,367 | 1,473 | 1,509 | 1,259 | 1,050 | 1,651 | 1,601 | 2,450 | 4,346 | 4,169 | 1,334 | 2,834 |
| 1949 | 1,686 | 1,766 | 1,898 | 1,558 | 1,291 | 2,333 | 2,737 | 1,846 | 3,871 | 3,482 | 1,382 | 1,252 |
| 1950 | 1,571 | 1,767 | 1,857 | 1,608 | 5,347 | 2,843 | 4,206 | 3,416 | 3,317 | 4,573 | 1,556 | 2,660 |
| 1951 | 2,492 | 16,545 | 15,903 | 9,977 | 7,993 | 3,442 | 2,341 | 2,930 | 1,335 | 4,605 | 1,366 | 1,365 |
| 1952 | 1,378 | 3,229 | 5,677 | 8,869 | 9,146 | 5,930 | 8,175 | 10,704 | 9,700 | 3,550 | 4,064 | 3,927 |
| 1953 | 1,249 | 2,557 | 2,501 | 6,989 | 1,973 | 1,690 | 2,112 | 2,241 | 5,594 | 4,566 | 1,877 | 3,658 |
| 1954 | 1,270 | 2,698 | 1,829 | 1,684 | 3,214 | 4,185 | 3,958 | 2,524 | 2,420 | 3,002 | 1,379 | 1,243 |
| 1955 | 1,270 | 1,584 | 1,683 | 1,399 | 1,228 | 1,082 | 1,030 | 954 | 3,779 | 2,086 | 1,675 | 1,273 |
| 1956 | 1,299 | 1,538 | 14,821 | 16,291 | 5,885 | 1,505 | 1,890 | 6,307 | 5,106 | 3,991 | 1,916 | 3,708 |
| 1957 | 1,317 | 2,439 | 1,825 | 1,568 | 2,983 | 4,199 | 1,625 | 2,174 | 3,363 | 4,560 | 1,921 | 1,279 |
| 1958 | 1,347 | 1,745 | 1,878 | 2,307 | 9,923 | 6,476 | 10,129 | 9,398 | 6,984 | 2,213 | 3,650 | 3,692 |
| 1959 | 1,257 | 1,933 | 1,839 | 1,638 | 2,847 | 1,462 | 680 | 593 | 2,541 | 4,567 | 536 | 719 |
| 1960 | 582 | 613 | 662 | 710 | 697 | 2,639 | 3,039 | 1,238 | 2,179 | 1,928 | 1,495 | 1,225 |
| 1961 | 1,275 | 1,475 | 1,447 | 1,237 | 1,005 | 854 | 692 | 643 | 586 | 3,694 | 602 | 706 |
| 1962 | 583 | 682 | 683 | 663 | 789 | 1,626 | 1,990 | 1,394 | 1,349 | 4,603 | 1,739 | 1,244 |
| 1963 | 4,322 | 4,023 | 3,136 | 3,704 | 11,568 | 1,599 | 6,073 | 6,370 | 2,364 | 4,565 | 1,341 | 2,281 |
| 1964 | 1,327 | 4,818 | 2,008 | 2,157 | 2,011 | 1,506 | 1,345 | 1,378 | 2,300 | 2,286 | 1,559 | 1,526 |
| 1965 | 1,505 | 1,438 | 19,501 | 12,728 | 5,116 | 1,606 | 4,497 | 3,465 | 2,436 | 4,592 | 1,390 | 3,451 |
| 1966 | 1,372 | 2,931 | 1,870 | 1,751 | 1,664 | 806 | 1,383 | 638 | 3,774 | 2,532 | 614 | 697 |
| 1967 | 1,283 | 1,515 | 1,493 | 6,225 | 4,086 | 5,849 | 3,652 | 7,672 | 9,725 | 3,131 | 3,581 | 3,856 |
| 1968 | 1,268 | 2,969 | 1,835 | 1,855 | 6,502 | 1,857 | 933 | 901 | 2,152 | 3,696 | 888 | 952 |
| 1969 | 1,054 | 1,141 | 1,143 | 14,334 | 8,963 | 3,438 | 5,950 | 8,457 | 5,832 | 3,690 | 2,289 | 3,224 |
| 1970 | 1,295 | 2,650 | 5,477 | 20,842 | 5,798 | 2,145 | 1,475 | 1,418 | 2,619 | 4,601 | 1,372 | 1,250 |
| 1971 | 1,323 | 1,628 | 4,177 | 4,477 | 3,617 | 3,180 | 2,637 | 2,314 | 4,266 | 4,589 | 1,374 | 3,091 |
| 1972 | 1,270 | 2,472 | 2,670 | 1,730 | 2,809 | 3,720 | 1,430 | 1,412 | 4,608 | 4,530 | 1,365 | 1,289 |
| 1973 | 807 | 878 | 838 | 8,469 | 6,898 | 3,179 | 1,861 | 3,607 | 4,350 | 3,823 | 1,371 | 1,262 |
| 1974 | 1,347 | 6,264 | 7,077 | 11,412 | 4,153 | 9,156 | 5,613 | 4,154 | 3,442 | 2,605 | 3,620 | 3,763 |
| 1975 | 1,290 | 2,058 | 1,882 | 1,534 | 3,672 | 4,462 | 1,662 | 4,526 | 5,519 | 3,456 | 2,084 | 3,573 |
| 1976 | 1,358 | 3,693 | 1,822 | 1,534 | 1,289 | 764 | 665 | 600 | 567 | 564 | 612 | 666 |
| 1977 | 587 | 639 | 650 | 661 | 637 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 380 | 500 | 1,739 | 4,652 | 5,839 | 3,111 | 2,818 | 3,477 | 4,573 | 1,356 | 2,716 |
| 1979 | 1,393 | 1,848 | 1,845 | 1,657 | 3,423 | 3,163 | 1,460 | 3,536 | 4,568 | 3,200 | 1,529 | 1,368 |
| 1980 | 1,364 | 1,784 | 1,901 | 16,938 | 13,007 | 3,238 | 2,010 | 2,320 | 2,479 | 3,248 | 2,554 | 3,580 |
| 1981 | 1,773 | 1,731 | 1,870 | 1,615 | 1,274 | 920 | 497 | 466 | 2,865 | 3,196 | 422 | 538 |
| 1982 | 1,101 | 3,609 | 14,150 | 7,791 | 14,998 | 7,385 | 14,070 | 8,561 | 5,244 | 2,277 | 3,524 | 4,254 |
| 1983 | 1,899 | 7,885 | 8,899 | 7,391 | 12,262 | 16,338 | 6,258 | 9,906 | 13,673 | 5,097 | 4,244 | 4,586 |
| 1984 | 1,266 | 15,767 | 14,838 | 6,408 | 5,582 | 2,298 | 1,557 | 1,879 | 2,605 | 4,603 | 1,382 | 2,401 |
| 1985 | 1,399 | 3,995 | 2,278 | 1,588 | 1,484 | 1,242 | 1,513 | 982 | 3,627 | 2,284 | 1,560 | 1,053 |
| 1986 | 1,840 | 1,426 | 1,384 | 1,925 | 32,731 | 10,710 | 2,101 | 2,227 | 2,592 | 4,594 | 1,627 | 2,571 |
| 1987 | 1,965 | 1,737 | 1,847 | 1,569 | 1,321 | 734 | 551 | 994 | 1,392 | 1,050 | 452 | 528 |
| 1988 | 975 | 1,032 | 1,086 | 893 | 828 | 709 | 188 | 379 | 707 | 450 | 188 | 281 |
| 1989 | 722 | 804 | 821 | 783 | 1,808 | 8,049 | 3,072 | 2,828 | 4,403 | 2,568 | 1,379 | 1,344 |
| 1990 | 1,380 | 1,534 | 1,578 | 1,385 | 1,144 | 1,013 | 1,772 | 950 | 1,102 | 1,133 | 830 | 902 |
| 1991 | 1,099 | 1,147 | 1,169 | 957 | 818 | 949 | 649 | 616 | 1,390 | 2,885 | 1,388 | 1,245 |
| 1992 | 624 | 627 | 679 | 670 | 774 | 250 | 2,549 | 872 | 744 | 413 | 188 | 281 |
| 1993 | 647 | 619 | 754 | 2,846 | 5,918 | 7,312 | 3,321 | 4,735 | 4,745 | 4,568 | 1,528 | 3,072 |
| 1994 | 1,273 | 3,744 | 1,848 | 1,580 | 1,322 | 915 | 812 | 850 | 1,048 | 4,621 | 771 | 872 |
| Avg (cfs) | 1,405 | 2,439 | 3,184 | 3,821 | 4,654 | 3,451 | 2,945 | 2,980 | 3,449 | 3,242 | 1,631 | 1,895 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 63 | 46 | 51 | 45 | 31 | 43 | 44 | 48 | 38 | 12 | 53 | 45 |
| Percent of Months | 86% | 63% | 70% | 62% | 42% | 59% | 60% | 66% | 52% | 16% | 73% | 62% |

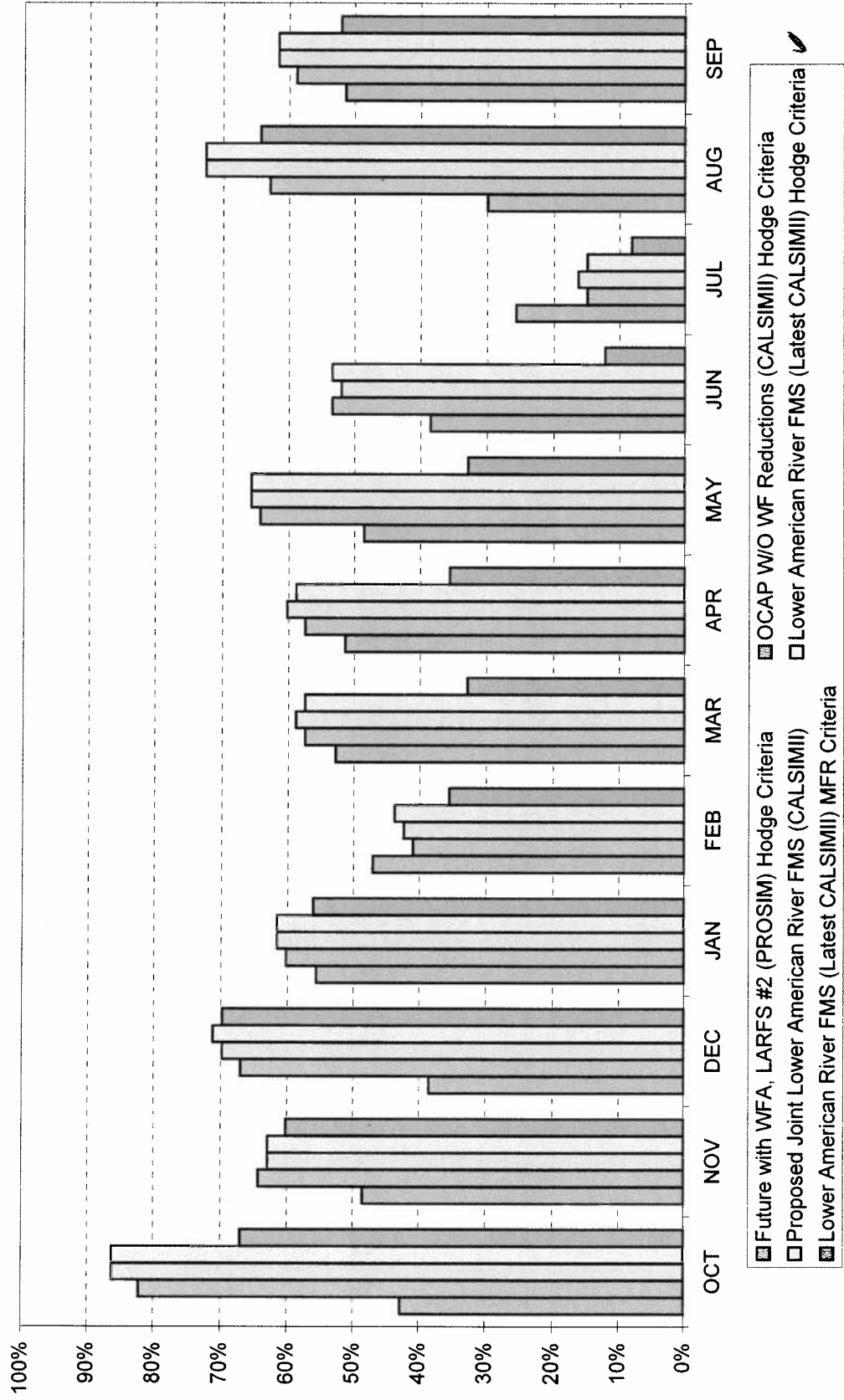
Lower American River FMS (Latest CALSIMII) Hodge Criteria
Flow Below H Street (cfs)

| | Modeled Flow Below H Street Less Than Hodge | | | | | | | | | | | |
|-------------------|---|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 1922 | 1,429 | 1,773 | 1,944 | 1,670 | 4,920 | 3,204 | 3,934 | 8,849 | 8,577 | 3,264 | 1,896 | 3,403 |
| 1923 | 1,478 | 2,895 | 6,464 | 4,324 | 2,831 | 1,621 | 4,214 | 3,924 | 2,177 | 4,591 | 1,724 | 2,582 |
| 1924 | 1,483 | 1,745 | 1,839 | 1,587 | 1,385 | 1,092 | 545 | 461 | 492 | 430 | 411 | 1,318 |
| 1925 | 697 | 655 | 727 | 658 | 3,906 | 4,841 | 1,451 | 3,534 | 4,590 | 4,565 | 1,358 | 1,249 |
| 1926 | 1,608 | 1,770 | 1,860 | 1,577 | 1,541 | 598 | 3,174 | 1,987 | 3,229 | 2,133 | 1,146 | 505 |
| 1927 | 1,193 | 1,086 | 998 | 3,216 | 13,262 | 4,182 | 7,270 | 4,040 | 4,630 | 4,567 | 1,359 | 2,617 |
| 1928 | 1,813 | 2,944 | 2,120 | 1,642 | 2,059 | 12,651 | 4,189 | 2,099 | 2,705 | 3,945 | 1,482 | 1,247 |
| 1929 | 1,278 | 1,560 | 1,627 | 1,599 | 1,336 | 1,236 | 1,090 | 991 | 873 | 829 | 868 | 936 |
| 1930 | 908 | 931 | 1,042 | 1,040 | 970 | 1,937 | 1,350 | 1,289 | 2,074 | 3,366 | 1,255 | 1,237 |
| 1931 | 2,443 | 1,592 | 1,649 | 1,436 | 1,170 | 657 | 449 | 511 | 188 | 208 | 682 | 634 |
| 1932 | 1,873 | 661 | 794 | 670 | 1,921 | 1,890 | 1,448 | 2,860 | 4,601 | 4,589 | 3,794 | 1,231 |
| 1933 | 2,173 | 2,130 | 1,868 | 1,600 | 1,280 | 1,323 | 2,035 | 1,135 | 2,345 | 1,662 | 1,395 | 1,252 |
| 1934 | 1,095 | 805 | 737 | 670 | 688 | 1,177 | 3,138 | 1,174 | 1,238 | 529 | 1,499 | 1,236 |
| 1935 | 1,097 | 703 | 683 | 735 | 810 | 1,660 | 5,381 | 4,160 | 2,962 | 4,562 | 2,935 | 1,218 |
| 1936 | 2,086 | 1,762 | 1,859 | 5,152 | 13,225 | 3,809 | 4,963 | 3,388 | 4,152 | 4,586 | 2,649 | 1,877 |
| 1937 | 2,067 | 1,722 | 1,883 | 1,592 | 2,957 | 4,295 | 3,796 | 3,262 | 3,666 | 4,583 | 1,840 | 1,355 |
| 1938 | 1,289 | 1,813 | 5,815 | 2,578 | 9,636 | 10,765 | 7,326 | 8,907 | 8,052 | 2,573 | 3,598 | 3,727 |
| 1939 | 1,298 | 2,278 | 1,844 | 1,581 | 1,277 | 680 | 1,095 | 1,198 | 1,338 | 1,750 | 606 | 549 |
| 1940 | 1,115 | 1,096 | 1,137 | 2,646 | 10,288 | 10,563 | 5,293 | 2,490 | 3,792 | 4,495 | 1,366 | 1,247 |
| 1941 | 1,706 | 2,030 | 2,799 | 5,564 | 7,798 | 4,566 | 3,443 | 4,406 | 2,485 | 1,785 | 3,222 | 3,600 |
| 1942 | 1,300 | 2,478 | 5,476 | 8,989 | 9,681 | 2,138 | 5,756 | 6,100 | 6,466 | 3,568 | 2,389 | 3,654 |
| 1943 | 1,265 | 4,226 | 4,492 | 10,578 | 6,888 | 12,374 | 4,526 | 1,956 | 2,313 | 4,589 | 1,360 | 2,875 |
| 1944 | 1,646 | 1,757 | 1,860 | 1,573 | 1,401 | 1,623 | 1,520 | 1,436 | 2,536 | 2,461 | 1,381 | 1,244 |
| 1945 | 1,553 | 1,648 | 1,891 | 1,595 | 8,118 | 1,734 | 1,896 | 2,815 | 2,932 | 4,579 | 1,356 | 1,409 |
| 1946 | 1,832 | 3,880 | 8,684 | 4,807 | 2,914 | 2,209 | 3,112 | 2,978 | 3,207 | 4,594 | 1,370 | 1,260 |
| 1947 | 2,188 | 1,791 | 1,872 | 1,585 | 1,804 | 1,328 | 1,931 | 637 | 2,649 | 2,027 | 622 | 708 |
| 1948 | 1,370 | 1,536 | 1,594 | 1,594 | 1,595 | 1,646 | 1,601 | 1,982 | 4,350 | 4,169 | 1,334 | 2,834 |
| 1949 | 1,686 | 1,766 | 1,898 | 1,608 | 1,333 | 2,244 | 2,738 | 1,846 | 3,875 | 3,471 | 1,382 | 1,252 |
| 1950 | 1,572 | 1,767 | 1,857 | 1,610 | 5,353 | 2,843 | 4,206 | 3,416 | 3,317 | 4,573 | 1,648 | 2,565 |
| 1951 | 2,493 | 16,545 | 15,903 | 9,977 | 7,993 | 3,441 | 2,341 | 2,930 | 1,336 | 4,605 | 1,366 | 1,365 |
| 1952 | 1,377 | 3,229 | 5,677 | 8,869 | 9,146 | 5,929 | 8,175 | 10,704 | 9,700 | 3,550 | 4,064 | 3,927 |
| 1953 | 1,249 | 2,557 | 2,501 | 6,989 | 1,973 | 1,630 | 2,112 | 2,241 | 5,594 | 4,566 | 1,877 | 3,658 |
| 1954 | 1,270 | 2,698 | 1,829 | 1,684 | 3,214 | 4,185 | 3,957 | 2,524 | 2,420 | 3,002 | 1,379 | 1,243 |
| 1955 | 1,270 | 1,584 | 1,683 | 1,644 | 1,590 | 1,550 | 1,498 | 1,421 | 1,762 | 2,118 | 1,523 | 1,274 |
| 1956 | 1,299 | 1,538 | 14,956 | 16,290 | 5,885 | 1,505 | 1,890 | 6,307 | 5,106 | 3,991 | 1,916 | 3,708 |
| 1957 | 1,317 | 2,439 | 1,825 | 1,568 | 2,983 | 4,199 | 1,624 | 2,174 | 3,363 | 4,560 | 1,908 | 1,279 |
| 1958 | 1,347 | 1,745 | 1,878 | 2,319 | 9,923 | 6,475 | 10,128 | 9,398 | 6,984 | 2,213 | 3,650 | 3,692 |
| 1959 | 1,257 | 1,933 | 1,839 | 1,638 | 2,847 | 1,462 | 569 | 484 | 2,559 | 4,567 | 425 | 611 |
| 1960 | 584 | 613 | 682 | 710 | 697 | 3,039 | 3,043 | 1,032 | 2,385 | 1,920 | 1,498 | 1,080 |
| 1961 | 1,276 | 1,483 | 1,458 | 1,489 | 1,216 | 677 | 520 | 471 | 413 | 3,630 | 427 | 533 |
| 1962 | 586 | 682 | 683 | 663 | 789 | 1,626 | 2,806 | 1,386 | 1,347 | 4,603 | 1,734 | 1,244 |
| 1963 | 4,329 | 4,023 | 3,136 | 3,704 | 11,568 | 1,627 | 6,044 | 6,370 | 2,364 | 4,565 | 1,341 | 2,281 |
| 1964 | 1,327 | 4,818 | 1,966 | 2,199 | 1,962 | 1,557 | 1,395 | 1,427 | 2,195 | 2,312 | 1,725 | 1,423 |
| 1965 | 1,587 | 1,410 | 19,356 | 12,729 | 5,116 | 1,616 | 4,487 | 3,466 | 2,435 | 4,592 | 1,390 | 3,451 |
| 1966 | 1,366 | 2,938 | 1,870 | 1,751 | 1,664 | 806 | 1,363 | 472 | 3,897 | 2,530 | 449 | 534 |
| 1967 | 1,286 | 1,589 | 1,594 | 6,416 | 4,084 | 5,849 | 3,652 | 7,672 | 9,725 | 3,131 | 3,581 | 3,856 |
| 1968 | 1,258 | 2,969 | 1,835 | 1,855 | 6,502 | 1,857 | 778 | 679 | 2,534 | 3,681 | 644 | 730 |
| 1969 | 1,237 | 1,319 | 1,321 | 14,246 | 8,964 | 3,438 | 5,947 | 8,457 | 5,832 | 3,689 | 2,289 | 3,225 |
| 1970 | 1,295 | 2,650 | 5,477 | 20,842 | 5,798 | 2,143 | 1,473 | 1,417 | 2,619 | 4,601 | 1,372 | 1,250 |
| 1971 | 1,323 | 1,628 | 4,177 | 4,477 | 3,617 | 3,180 | 2,636 | 2,314 | 4,266 | 4,589 | 1,374 | 3,091 |
| 1972 | 1,270 | 2,472 | 2,670 | 1,730 | 2,809 | 3,720 | 1,430 | 1,412 | 4,608 | 4,530 | 1,385 | 1,289 |
| 1973 | 807 | 878 | 838 | 8,469 | 6,898 | 3,179 | 1,860 | 3,607 | 4,350 | 3,823 | 1,371 | 1,262 |
| 1974 | 1,347 | 6,263 | 7,077 | 11,412 | 4,153 | 9,155 | 5,613 | 4,154 | 3,442 | 2,605 | 3,620 | 3,763 |
| 1975 | 1,290 | 2,058 | 1,882 | 1,584 | 3,616 | 4,462 | 1,662 | 4,526 | 5,519 | 3,456 | 2,084 | 3,573 |
| 1976 | 1,358 | 3,693 | 1,822 | 1,584 | 1,331 | 634 | 538 | 473 | 440 | 606 | 481 | 539 |
| 1977 | 590 | 639 | 650 | 661 | 637 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 381 | 500 | 1,739 | 4,652 | 5,839 | 3,111 | 2,818 | 3,477 | 4,573 | 1,356 | 2,716 |
| 1979 | 1,393 | 1,842 | 1,845 | 1,663 | 3,423 | 3,163 | 1,460 | 3,536 | 4,568 | 3,195 | 1,530 | 1,369 |
| 1980 | 1,364 | 1,784 | 1,901 | 16,942 | 13,007 | 3,238 | 2,011 | 2,320 | 2,479 | 3,248 | 2,554 | 3,580 |
| 1981 | 1,773 | 1,731 | 1,870 | 1,615 | 1,529 | 700 | 501 | 466 | 2,853 | 3,197 | 422 | 538 |
| 1982 | 1,101 | 3,608 | 14,150 | 7,791 | 14,998 | 7,385 | 14,070 | 8,561 | 5,244 | 2,277 | 3,524 | 4,254 |
| 1983 | 1,899 | 7,885 | 8,899 | 7,395 | 12,265 | 16,340 | 6,259 | 9,907 | 13,674 | 5,098 | 4,244 | 4,586 |
| 1984 | 1,266 | 15,768 | 14,839 | 6,408 | 5,583 | 2,298 | 1,557 | 1,879 | 2,605 | 4,603 | 1,382 | 2,401 |
| 1985 | 1,399 | 3,995 | 2,278 | 1,588 | 1,601 | 1,014 | 1,641 | 754 | 3,639 | 2,375 | 1,695 | 826 |
| 1986 | 2,048 | 1,485 | 1,466 | 1,783 | 32,732 | 10,711 | 2,101 | 2,227 | 2,592 | 4,594 | 1,628 | 2,570 |
| 1987 | 1,965 | 1,737 | 1,847 | 1,569 | 1,321 | 250 | 1,031 | 1,026 | 1,335 | 1,061 | 302 | 410 |
| 1988 | 1,051 | 1,106 | 1,159 | 1,141 | 1,074 | 320 | 188 | 376 | 703 | 444 | 188 | 281 |
| 1989 | 713 | 795 | 812 | 774 | 1,806 | 8,054 | 3,072 | 2,826 | 4,317 | 2,610 | 1,379 | 1,344 |
| 1990 | 1,375 | 1,543 | 1,587 | 1,393 | 1,151 | 813 | 1,775 | 750 | 1,259 | 1,269 | 762 | 702 |
| 1991 | 1,246 | 1,290 | 1,312 | 1,078 | 921 | 1,051 | 751 | 719 | 1,371 | 2,603 | 1,390 | 1,245 |
| 1992 | 824 | 627 | 679 | 670 | 774 | 250 | 2,595 | 789 | 660 | 362 | 188 | 281 |
| 1993 | 647 | 619 | 754 | 2,757 | 5,919 | 7,313 | 3,321 | 4,735 | 4,745 | 4,568 | 1,530 | 3,069 |
| 1994 | 1,273 | 3,745 | 1,848 | 1,610 | 1,364 | 570 | 474 | 512 | 1,367 | 4,618 | 427 | 534 |
| Avg (cfs) | 1,411 | 2,454 | 3,198 | 3,848 | 4,702 | 3,416 | 2,963 | 2,955 | 3,426 | 3,232 | 1,609 | 1,859 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 63 | 46 | 52 | 45 | 32 | 42 | 43 | 48 | 39 | 11 | 53 | 45 |
| Percent of Months | 86% | 63% | 71% | 62% | 44% | 58% | 59% | 66% | 53% | 15% | 73% | 62% |

**Lower American River FMS (Latest CALSIMII) MFR Criteria
Flow Below H Street (cfs)**

| Modeled Flow Below H Street Less Than FMS Minimum Flow Requirement | | | | | | | | | | | | |
|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
| 1922 | 1,429 | 1,773 | 1,844 | 1,670 | 4,920 | 3,204 | 3,934 | 8,849 | 8,577 | 3,264 | 1,896 | 3,403 |
| 1923 | 1,478 | 2,895 | 6,464 | 4,324 | 2,831 | 1,621 | 4,214 | 3,924 | 2,177 | 4,591 | 1,724 | 2,582 |
| 1924 | 1,483 | 1,745 | 1,839 | 1,587 | 1,385 | 1,092 | 545 | 461 | 492 | 430 | 411 | 1,318 |
| 1925 | 697 | 655 | 727 | 658 | 3,906 | 4,841 | 1,451 | 3,534 | 4,590 | 4,565 | 1,358 | 1,249 |
| 1926 | 1,608 | 1,770 | 1,880 | 1,577 | 1,541 | 598 | 3,174 | 1,987 | 3,229 | 2,133 | 1,146 | 505 |
| 1927 | 1,193 | 1,086 | 998 | 3,216 | 13,262 | 4,182 | 7,270 | 4,040 | 4,630 | 4,567 | 1,359 | 2,617 |
| 1928 | 1,813 | 2,944 | 2,120 | 1,642 | 2,059 | 12,651 | 4,189 | 2,099 | 2,705 | 3,945 | 1,482 | 1,247 |
| 1929 | 1,278 | 1,560 | 1,627 | 1,599 | 1,336 | 1,236 | 1,090 | 991 | 873 | 829 | 968 | 935 |
| 1930 | 908 | 931 | 1,042 | 1,040 | 970 | 1,937 | 1,350 | 1,289 | 2,074 | 3,366 | 1,255 | 1,237 |
| 1931 | 2,443 | 1,592 | 1,649 | 1,436 | 1,170 | 657 | 449 | 511 | 188 | 208 | 682 | 634 |
| 1932 | 1,873 | 661 | 794 | 670 | 1,921 | 1,890 | 1,448 | 2,860 | 4,601 | 4,589 | 3,794 | 1,231 |
| 1933 | 2,173 | 2,130 | 1,868 | 1,600 | 1,280 | 1,323 | 2,035 | 1,135 | 2,345 | 1,682 | 1,395 | 1,252 |
| 1934 | 1,085 | 805 | 737 | 670 | 688 | 1,177 | 3,138 | 1,174 | 1,238 | 529 | 1,499 | 1,236 |
| 1935 | 1,097 | 703 | 683 | 735 | 810 | 1,860 | 5,381 | 4,160 | 2,962 | 4,562 | 2,935 | 1,218 |
| 1936 | 2,086 | 1,762 | 1,859 | 5,152 | 13,225 | 3,809 | 4,963 | 3,388 | 4,152 | 4,586 | 2,649 | 1,877 |
| 1937 | 2,067 | 1,722 | 1,883 | 1,592 | 2,957 | 4,295 | 3,796 | 3,262 | 3,666 | 4,583 | 1,840 | 1,355 |
| 1938 | 1,289 | 1,813 | 5,815 | 2,578 | 9,636 | 10,765 | 7,326 | 8,907 | 8,052 | 2,573 | 3,598 | 3,727 |
| 1939 | 1,298 | 2,278 | 1,844 | 1,561 | 1,277 | 880 | 1,095 | 1,198 | 1,338 | 1,750 | 606 | 549 |
| 1940 | 1,115 | 1,098 | 1,137 | 2,646 | 10,288 | 10,563 | 5,293 | 2,490 | 3,792 | 4,495 | 1,368 | 1,247 |
| 1941 | 1,706 | 2,030 | 2,799 | 5,564 | 7,798 | 4,566 | 3,443 | 4,406 | 2,485 | 1,785 | 3,222 | 3,600 |
| 1942 | 1,300 | 2,478 | 5,476 | 8,989 | 9,681 | 2,138 | 5,756 | 6,100 | 6,466 | 3,588 | 2,389 | 3,654 |
| 1943 | 1,255 | 4,226 | 4,492 | 10,578 | 6,888 | 12,374 | 4,526 | 1,956 | 2,313 | 4,589 | 1,360 | 2,875 |
| 1944 | 1,646 | 1,757 | 1,880 | 1,573 | 1,401 | 1,623 | 1,520 | 1,436 | 2,536 | 2,461 | 1,381 | 1,244 |
| 1945 | 1,553 | 1,648 | 1,691 | 1,595 | 8,118 | 1,734 | 1,696 | 2,815 | 2,932 | 4,579 | 1,356 | 1,409 |
| 1946 | 1,832 | 3,880 | 8,684 | 4,807 | 2,914 | 2,209 | 3,112 | 2,978 | 3,207 | 4,594 | 1,370 | 1,260 |
| 1947 | 2,188 | 1,791 | 1,872 | 1,585 | 1,604 | 1,328 | 1,931 | 637 | 2,649 | 2,027 | 622 | 708 |
| 1948 | 1,370 | 1,536 | 1,594 | 1,594 | 1,595 | 1,646 | 1,601 | 1,982 | 4,350 | 4,169 | 1,334 | 2,834 |
| 1949 | 1,696 | 1,766 | 1,898 | 1,608 | 1,333 | 2,244 | 2,738 | 1,846 | 3,875 | 3,471 | 1,382 | 1,252 |
| 1950 | 1,572 | 1,767 | 1,857 | 1,610 | 5,353 | 2,843 | 4,206 | 3,416 | 3,317 | 4,573 | 1,648 | 2,565 |
| 1951 | 2,493 | 16,545 | 15,903 | 9,977 | 7,993 | 3,441 | 2,341 | 2,930 | 1,335 | 4,605 | 1,366 | 1,365 |
| 1952 | 1,377 | 3,229 | 5,677 | 8,869 | 9,146 | 5,929 | 8,175 | 10,704 | 9,700 | 3,550 | 4,064 | 3,927 |
| 1953 | 1,249 | 2,657 | 2,501 | 6,989 | 1,973 | 1,630 | 2,112 | 2,241 | 5,594 | 4,566 | 1,877 | 3,658 |
| 1954 | 1,270 | 2,698 | 1,829 | 1,884 | 3,214 | 4,185 | 3,957 | 2,524 | 2,420 | 3,002 | 1,379 | 1,243 |
| 1955 | 1,270 | 1,584 | 1,683 | 1,644 | 1,590 | 1,550 | 1,498 | 1,421 | 1,762 | 2,118 | 1,523 | 1,274 |
| 1956 | 1,299 | 1,538 | 14,956 | 16,290 | 5,885 | 1,505 | 1,890 | 6,307 | 5,106 | 3,991 | 1,916 | 3,708 |
| 1957 | 1,317 | 2,439 | 1,825 | 1,568 | 2,983 | 4,199 | 1,624 | 2,174 | 3,363 | 4,560 | 1,908 | 1,279 |
| 1958 | 1,347 | 1,745 | 1,878 | 2,319 | 9,923 | 6,475 | 10,128 | 9,398 | 6,984 | 2,213 | 3,650 | 3,692 |
| 1959 | 1,257 | 1,933 | 1,839 | 1,638 | 2,847 | 1,462 | 589 | 484 | 2,559 | 4,567 | 425 | 611 |
| 1960 | 584 | 613 | 662 | 710 | 697 | 3,039 | 3,043 | 1,032 | 2,385 | 1,920 | 1,498 | 1,080 |
| 1961 | 1,276 | 1,483 | 1,458 | 1,489 | 1,216 | 677 | 520 | 471 | 413 | 3,630 | 427 | 533 |
| 1962 | 586 | 682 | 683 | 663 | 789 | 1,626 | 2,806 | 1,386 | 1,347 | 4,603 | 1,734 | 1,244 |
| 1963 | 4,329 | 4,023 | 3,136 | 3,704 | 11,568 | 1,627 | 6,044 | 6,370 | 2,364 | 4,565 | 1,341 | 2,281 |
| 1964 | 1,327 | 4,818 | 1,966 | 2,199 | 1,962 | 1,557 | 1,395 | 1,427 | 2,195 | 2,312 | 1,725 | 1,423 |
| 1965 | 1,587 | 1,410 | 19,356 | 12,729 | 5,116 | 1,616 | 4,487 | 3,466 | 2,435 | 4,592 | 1,390 | 3,451 |
| 1966 | 1,366 | 2,938 | 1,870 | 1,751 | 1,664 | 806 | 1,363 | 472 | 3,897 | 2,530 | 449 | 534 |
| 1967 | 1,286 | 1,589 | 1,594 | 6,416 | 4,084 | 5,849 | 3,652 | 7,672 | 9,725 | 3,131 | 3,581 | 3,856 |
| 1968 | 1,258 | 2,969 | 1,835 | 1,855 | 6,502 | 1,857 | 778 | 679 | 2,534 | 3,681 | 644 | 730 |
| 1969 | 1,237 | 1,319 | 1,321 | 14,246 | 8,964 | 3,438 | 5,947 | 8,457 | 5,832 | 3,689 | 2,289 | 3,225 |
| 1970 | 1,295 | 2,650 | 5,477 | 20,842 | 5,798 | 2,143 | 1,473 | 1,417 | 2,619 | 4,601 | 1,372 | 1,250 |
| 1971 | 1,323 | 1,628 | 4,177 | 4,477 | 3,617 | 3,180 | 2,636 | 2,314 | 4,266 | 4,589 | 1,374 | 3,091 |
| 1972 | 1,270 | 2,472 | 2,670 | 1,730 | 2,809 | 3,720 | 1,430 | 1,412 | 4,608 | 4,530 | 1,365 | 1,289 |
| 1973 | 807 | 878 | 838 | 8,469 | 6,898 | 3,179 | 1,860 | 3,607 | 4,350 | 3,823 | 1,371 | 1,262 |
| 1974 | 1,347 | 6,263 | 7,077 | 11,412 | 4,153 | 9,155 | 5,613 | 4,154 | 3,442 | 2,605 | 3,620 | 3,763 |
| 1975 | 1,290 | 2,058 | 1,882 | 1,584 | 3,616 | 4,462 | 1,662 | 4,526 | 5,519 | 3,456 | 2,084 | 3,573 |
| 1976 | 1,358 | 3,693 | 1,822 | 1,584 | 1,331 | 634 | 538 | 473 | 440 | 606 | 481 | 539 |
| 1977 | 590 | 639 | 650 | 661 | 637 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 381 | 500 | 1,739 | 4,652 | 5,839 | 3,111 | 2,818 | 3,477 | 4,573 | 1,356 | 2,716 |
| 1979 | 1,393 | 1,842 | 1,845 | 1,663 | 3,423 | 3,163 | 1,460 | 3,536 | 4,568 | 3,195 | 1,530 | 1,389 |
| 1980 | 1,364 | 1,784 | 1,901 | 16,942 | 13,007 | 3,238 | 2,011 | 2,320 | 2,479 | 3,248 | 2,554 | 3,580 |
| 1981 | 1,773 | 1,731 | 1,670 | 1,615 | 1,529 | 700 | 501 | 468 | 2,853 | 3,197 | 422 | 538 |
| 1982 | 1,101 | 3,608 | 14,150 | 7,791 | 14,998 | 7,385 | 14,070 | 8,561 | 5,244 | 2,277 | 3,524 | 4,254 |
| 1983 | 1,899 | 7,885 | 8,899 | 7,395 | 12,265 | 16,340 | 6,259 | 9,907 | 13,674 | 5,098 | 4,244 | 4,586 |
| 1984 | 1,266 | 15,768 | 14,839 | 6,408 | 5,583 | 2,298 | 1,557 | 1,879 | 2,605 | 4,603 | 1,382 | 2,401 |
| 1985 | 1,399 | 3,995 | 2,278 | 1,588 | 1,601 | 1,014 | 1,641 | 754 | 3,639 | 2,375 | 1,695 | 826 |
| 1986 | 2,048 | 1,485 | 1,466 | 1,783 | 32,732 | 10,711 | 2,101 | 2,227 | 2,592 | 4,594 | 1,828 | 2,570 |
| 1987 | 1,965 | 1,737 | 1,847 | 1,569 | 1,321 | 250 | 1,031 | 1,026 | 1,335 | 1,061 | 302 | 410 |
| 1988 | 1,051 | 1,106 | 1,159 | 1,141 | 1,074 | 320 | 188 | 376 | 703 | 444 | 188 | 281 |
| 1989 | 713 | 795 | 812 | 774 | 1,806 | 8,054 | 3,072 | 2,826 | 4,317 | 2,610 | 1,379 | 1,344 |
| 1990 | 1,375 | 1,543 | 1,587 | 1,393 | 1,151 | 813 | 1,775 | 750 | 1,259 | 1,269 | 762 | 702 |
| 1991 | 1,246 | 1,290 | 1,312 | 1,078 | 921 | 1,051 | 751 | 719 | 1,371 | 2,603 | 1,390 | 1,245 |
| 1992 | 624 | 627 | 679 | 670 | 774 | 250 | 2,595 | 789 | 660 | 362 | 188 | 281 |
| 1993 | 647 | 619 | 754 | 2,757 | 5,919 | 7,313 | 3,321 | 4,735 | 4,745 | 4,568 | 1,530 | 3,069 |
| 1994 | 1,273 | 3,745 | 1,848 | 1,610 | 1,364 | 570 | 474 | 512 | 1,367 | 4,618 | 427 | 534 |
| Avg (cfs) | 1,411 | 2,454 | 3,198 | 3,848 | 4,702 | 3,416 | 2,963 | 2,955 | 3,426 | 3,232 | 1,609 | 1,859 |
| Count | 49 | 44 | 51 | 41 | 26 | 24 | 26 | 24 | 9 | 6 | 47 | 38 |
| Percent of Months | 67% | 60% | 70% | 56% | 36% | 33% | 36% | 33% | 12% | 8% | 64% | 52% |

Percent of Months in which Flow Below H Street is Below Hodge Criteria or FMS Minimum Flow Requirement Criteria



LEAP YEAR

| | 2003 | | | 2004 | | | 2005 | | | 2006 | | | 2007 | | | |
|-----------|-----------|----------------------|---------------|-----------|----------------------|---------------|-----------|----------------------|---------------|-----------|----------------------|---------------|-----------|----------------------|---------------|------|
| | Date | Natoma Outflow (cfs) | Hodge Trigger | Date | Natoma Outflow (cfs) | Hodge Trigger | Date | Natoma Outflow (cfs) | Hodge Trigger | Date | Natoma Outflow (cfs) | Hodge Trigger | Date | Natoma Outflow (cfs) | Hodge Trigger | |
| January | 1/1/2003 | 1531 | 2000 | 1/1/2004 | 2035 | 2000 | 1/1/2005 | 1561 | 2000 | 1/1/2006 | 34396 | 2000 | 1/1/2007 | 2026 | 2000 | |
| | 1/2/2003 | 1537 | 2000 | 1/2/2004 | 2017 | 2000 | 1/2/2005 | 1555 | 2000 | 1/2/2006 | 35063 | 2000 | 1/2/2007 | 2028 | 2000 | |
| | 1/3/2003 | 1547 | 2000 | 1/3/2004 | 2031 | 2000 | 1/3/2005 | 1546 | 2000 | 1/3/2006 | 34926 | 2000 | 1/3/2007 | 2029 | 2000 | |
| | 1/4/2003 | 1544 | 2000 | 1/4/2004 | 2035 | 2000 | 1/4/2005 | 1601 | 2000 | 1/4/2006 | 34869 | 2000 | 1/4/2007 | 2016 | 2000 | |
| | 1/5/2003 | 1544 | 2000 | 1/5/2004 | 2047 | 2000 | 1/5/2005 | 1578 | 2000 | 1/5/2006 | 34800 | 2000 | 1/5/2007 | 2031 | 2000 | |
| | 1/6/2003 | 1544 | 2000 | 1/6/2004 | 2037 | 2000 | 1/6/2005 | 1546 | 2000 | 1/6/2006 | 27615 | 2000 | 1/6/2007 | 2031 | 2000 | |
| | 1/7/2003 | 1550 | 2000 | 1/7/2004 | 3334 | 2000 | 1/7/2005 | 1580 | 2000 | 1/7/2006 | 19682 | 2000 | 1/7/2007 | 1987 | 2000 | |
| | 1/8/2003 | 1544 | 2000 | 1/8/2004 | 3537 | 2000 | 1/8/2005 | 1566 | 2000 | 1/8/2006 | 20184 | 2000 | 1/8/2007 | 1778 | 2000 | |
| | 1/9/2003 | 1541 | 2000 | 1/9/2004 | 3531 | 2000 | 1/9/2005 | 1543 | 2000 | 1/9/2006 | 20003 | 2000 | 1/9/2007 | 1767 | 2000 | |
| | 1/10/2003 | 2051 | 2000 | 1/10/2004 | 3526 | 2000 | 1/10/2005 | 1540 | 2000 | 1/10/2006 | 20195 | 2000 | 1/10/2007 | 1778 | 2000 | |
| | 1/11/2003 | 2051 | 2000 | 1/11/2004 | 3542 | 2000 | 1/11/2005 | 1571 | 2000 | 1/11/2006 | 19041 | 2000 | 1/11/2007 | 1791 | 2000 | |
| | 1/12/2003 | 2214 | 2000 | 1/12/2004 | 3535 | 2000 | 1/12/2005 | 1585 | 2000 | 1/12/2006 | 14227 | 2000 | 1/12/2007 | 1782 | 2000 | |
| | 1/13/2003 | 2540 | 2000 | 1/13/2004 | 3082 | 2000 | 1/13/2005 | 1579 | 2000 | 1/13/2006 | 12380 | 2000 | 1/13/2007 | 1772 | 2000 | |
| | 1/14/2003 | 2720 | 2000 | 1/14/2004 | 3034 | 2000 | 1/14/2005 | 1549 | 2000 | 1/14/2006 | 10308 | 2000 | 1/14/2007 | 1795 | 2000 | |
| | 1/15/2003 | 2731 | 2000 | 1/15/2004 | 3039 | 2000 | 1/15/2005 | 1534 | 2000 | 1/15/2006 | 8956 | 2000 | 1/15/2007 | 1784 | 2000 | |
| | 1/16/2003 | 2735 | 2000 | 1/16/2004 | 3018 | 2000 | 1/16/2005 | 1531 | 2000 | 1/16/2006 | 8116 | 2000 | 1/16/2007 | 1778 | 2000 | |
| | 1/17/2003 | 2738 | 2000 | 1/17/2004 | 2316 | 2000 | 1/17/2005 | 1520 | 2000 | 1/17/2006 | 7926 | 2000 | 1/17/2007 | 1789 | 2000 | |
| | 1/18/2003 | 2725 | 2000 | 1/18/2004 | 2236 | 2000 | 1/18/2005 | 1514 | 2000 | 1/18/2006 | 7469 | 2000 | 1/18/2007 | 1782 | 2000 | |
| | 1/19/2003 | 2739 | 2000 | 1/19/2004 | 2235 | 2000 | 1/19/2005 | 1528 | 2000 | 1/19/2006 | 6687 | 2000 | 1/19/2007 | 1784 | 2000 | |
| | 1/20/2003 | 2736 | 2000 | 1/20/2004 | 2244 | 2000 | 1/20/2005 | 1567 | 2000 | 1/20/2006 | 5633 | 2000 | 1/20/2007 | 1779 | 2000 | |
| | 1/21/2003 | 2728 | 2000 | 1/21/2004 | 2224 | 2000 | 1/21/2005 | 1539 | 2000 | 1/21/2006 | 5160 | 2000 | 1/21/2007 | 1780 | 2000 | |
| | 1/22/2003 | 2734 | 2000 | 1/22/2004 | 2223 | 2000 | 1/22/2005 | 1554 | 2000 | 1/22/2006 | 4557 | 2000 | 1/22/2007 | 1776 | 2000 | |
| | 1/23/2003 | 3216 | 2000 | 1/23/2004 | 2233 | 2000 | 1/23/2005 | 1559 | 2000 | 1/23/2006 | 4108 | 2000 | 1/23/2007 | 1780 | 2000 | |
| | 1/24/2003 | 4026 | 2000 | 1/24/2004 | 2241 | 2000 | 1/24/2005 | 1550 | 2000 | 1/24/2006 | 4034 | 2000 | 1/24/2007 | 1774 | 2000 | |
| | 1/25/2003 | 4036 | 2000 | 1/25/2004 | 2244 | 2000 | 1/25/2005 | 1547 | 2000 | 1/25/2006 | 3988 | 2000 | 1/25/2007 | 1787 | 2000 | |
| | 1/26/2003 | 4033 | 2000 | 1/26/2004 | 2239 | 2000 | 1/26/2005 | 1544 | 2000 | 1/26/2006 | 3972 | 2000 | 1/26/2007 | 1763 | 2000 | |
| | 1/27/2003 | 4027 | 2000 | 1/27/2004 | 2195 | 2000 | 1/27/2005 | 1524 | 2000 | 1/27/2006 | 3997 | 2000 | 1/27/2007 | 1791 | 2000 | |
| | 1/28/2003 | 4041 | 2000 | 1/28/2004 | 2241 | 2000 | 1/28/2005 | 1532 | 2000 | 1/28/2006 | 3957 | 2000 | 1/28/2007 | 1788 | 2000 | |
| | 1/29/2003 | 4041 | 2000 | 1/29/2004 | 2242 | 2000 | 1/29/2005 | 1532 | 2000 | 1/29/2006 | 3925 | 2000 | 1/29/2007 | 1790 | 2000 | |
| | 1/30/2003 | 4093 | 2000 | 1/30/2004 | 2243 | 2000 | 1/30/2005 | 1597 | 2000 | 1/30/2006 | 3970 | 2000 | 1/30/2007 | 1776 | 2000 | |
| | 1/31/2003 | 4044 | 2000 | 1/31/2004 | 2244 | 2000 | 1/31/2005 | 1609 | 2000 | 1/31/2006 | 5470 | 2000 | 1/31/2007 | 1785 | 2000 | |
| February | 2/1/2003 | 4028 | 2000 | 2/1/2004 | 2233 | 2000 | 2/1/2005 | 2339 | 2000 | 2/1/2006 | 7289 | 2000 | 2/1/2007 | 1787 | 2000 | |
| | 2/2/2003 | 4034 | 2000 | 2/2/2004 | 2246 | 2000 | 2/2/2005 | 2538 | 2000 | 2/2/2006 | 7335 | 2000 | 2/2/2007 | 1794 | 2000 | |
| | 2/3/2003 | 4008 | 2000 | 2/3/2004 | 2244 | 2000 | 2/3/2005 | 2527 | 2000 | 2/3/2006 | 7335 | 2000 | 2/3/2007 | 1783 | 2000 | |
| | 2/4/2003 | 4033 | 2000 | 2/4/2004 | 2238 | 2000 | 2/4/2005 | 2548 | 2000 | 2/4/2006 | 8186 | 2000 | 2/4/2007 | 1784 | 2000 | |
| | 2/5/2003 | 4030 | 2000 | 2/5/2004 | 2232 | 2000 | 2/5/2005 | 2562 | 2000 | 2/5/2006 | 15071 | 2000 | 2/5/2007 | 1787 | 2000 | |
| | 2/6/2003 | 4023 | 2000 | 2/6/2004 | 2231 | 2000 | 2/6/2005 | 2545 | 2000 | 2/6/2006 | 15311 | 2000 | 2/6/2007 | 1780 | 2000 | |
| | 2/7/2003 | 4038 | 2000 | 2/7/2004 | 2236 | 2000 | 2/7/2005 | 2553 | 2000 | 2/7/2006 | 15375 | 2000 | 2/7/2007 | 1785 | 2000 | |
| | 2/8/2003 | 4046 | 2000 | 2/8/2004 | 2254 | 2000 | 2/8/2005 | 2554 | 2000 | 2/8/2006 | 15345 | 2000 | 2/8/2007 | 1796 | 2000 | |
| | 2/9/2003 | 4036 | 2000 | 2/9/2004 | 2247 | 2000 | 2/9/2005 | 3018 | 2000 | 2/9/2006 | 15212 | 2000 | 2/9/2007 | 1788 | 2000 | |
| | 2/10/2003 | 5218 | 2000 | 2/10/2004 | 2235 | 2000 | 2/10/2005 | 7947 | 2000 | 2/10/2006 | 15079 | 2000 | 2/10/2007 | 1793 | 2000 | |
| | 2/11/2003 | 5543 | 2000 | 2/11/2004 | 2228 | 2000 | 2/11/2005 | 7787 | 2000 | 2/11/2006 | 13611 | 2000 | 2/11/2007 | 1759 | 2000 | |
| | 2/12/2003 | 5529 | 2000 | 2/12/2004 | 2234 | 2000 | 2/12/2005 | 5837 | 2000 | 2/12/2006 | 7756 | 2000 | 2/12/2007 | 1607 | 2000 | |
| | 2/13/2003 | 5539 | 2000 | 2/13/2004 | 2234 | 2000 | 2/13/2005 | 4026 | 2000 | 2/13/2006 | 5152 | 2000 | 2/13/2007 | 1844 | 2000 | |
| | 2/14/2003 | 5528 | 2000 | 2/14/2004 | 2235 | 2000 | 2/14/2005 | 3484 | 2000 | 2/14/2006 | 5088 | 2000 | 2/14/2007 | 1850 | 2000 | |
| | 2/15/2003 | 5530 | 2000 | 2/15/2004 | 2249 | 2000 | 2/15/2005 | 2982 | 2000 | 2/15/2006 | 5080 | 2000 | 2/15/2007 | 1802 | 2000 | |
| | 2/16/2003 | 5538 | 2000 | 2/16/2004 | 2249 | 2000 | 2/16/2005 | 2532 | 2000 | 2/16/2006 | 5067 | 2000 | 2/16/2007 | 1784 | 2000 | |
| | 2/17/2003 | 5563 | 2000 | 2/17/2004 | 2233 | 2000 | 2/17/2005 | 2544 | 2000 | 2/17/2006 | 5015 | 2000 | 2/17/2007 | 1789 | 2000 | |
| | 2/18/2003 | 5366 | 2000 | 2/18/2004 | 2223 | 2000 | 2/18/2005 | 2548 | 2000 | 2/18/2006 | 4876 | 2000 | 2/18/2007 | 1812 | 2000 | |
| | 2/19/2003 | 4880 | 2000 | 2/19/2004 | 5100 | 2000 | 2/19/2005 | 2562 | 2000 | 2/19/2006 | 4447 | 2000 | 2/19/2007 | 1813 | 2000 | |
| | 2/20/2003 | 4512 | 2000 | 2/20/2004 | 7019 | 2000 | 2/20/2005 | 3177 | 2000 | 2/20/2006 | 4093 | 2000 | 2/20/2007 | 1816 | 2000 | |
| | 2/21/2003 | 4013 | 2000 | 2/21/2004 | 7037 | 2000 | 2/21/2005 | 8154 | 2000 | 2/21/2006 | 4149 | 2000 | 2/21/2007 | 1825 | 2000 | |
| | 2/22/2003 | 3542 | 2000 | 2/22/2004 | 7064 | 2000 | 2/22/2005 | 7709 | 2000 | 2/22/2006 | 4102 | 2000 | 2/22/2007 | 1816 | 2000 | |
| | 2/23/2003 | 3536 | 2000 | 2/23/2004 | 7070 | 2000 | 2/23/2005 | 5984 | 2000 | 2/23/2006 | 4100 | 2000 | 2/23/2007 | 1805 | 2000 | |
| | 2/24/2003 | 3534 | 2000 | 2/24/2004 | 6944 | 2000 | 2/24/2005 | 3987 | 2000 | 2/24/2006 | 4706 | 2000 | 2/24/2007 | 1791 | 2000 | |
| | 2/25/2003 | 3540 | 2000 | 2/25/2004 | 6031 | 2000 | 2/25/2005 | 3520 | 2000 | 2/25/2006 | 7589 | 2000 | 2/25/2007 | 1797 | 2000 | |
| | 2/26/2003 | 3156 | 2000 | 2/26/2004 | 6054 | 2000 | 2/26/2005 | 3056 | 2000 | 2/26/2006 | 7666 | 2000 | 2/26/2007 | 1804 | 2000 | |
| | 2/27/2003 | 2640 | 2000 | 2/27/2004 | 5788 | 2000 | 2/27/2005 | 3044 | 2000 | 2/27/2006 | 7577 | 2000 | 2/27/2007 | 1798 | 2000 | |
| | 2/28/2003 | 2497 | 2000 | 2/28/2004 | 4972 | 2000 | 2/28/2005 | 3043 | 2000 | 2/28/2006 | 7075 | 2000 | 2/28/2007 | 1798 | 2000 | |
| | March | 3/1/2003 | 2498 | 3000 | 2/29/2004 | 3339 | 3000 | 3/1/2005 | 3045 | 3000 | 3/1/2006 | 7575 | 3000 | 3/1/2007 | 1794 | 3000 |
| | | 3/2/2003 | 2501 | 3000 | 3/1/2004 | 3065 | 3000 | 3/2/2005 | 3027 | 3000 | 3/2/2006 | 7433 | 3000 | 3/2/2007 | 1800 | 3000 |
| | | 3/3/2003 | 2509 | 3000 | 3/2/2004 | 3060 | 3000 | 3/3/2005 | 3069 | 3000 | 3/3/2006 | 6296 | 3000 | 3/3/2007 | 1801 | 3000 |
| 3/4/2003 | | 2411 | 3000 | 3/3/2004 | 3050 | 3000 | 3/4/2005 | 3085 | 3000 | 3/4/2006 | 5552 | 3000 | 3/4/2007 | 1797 | 3000 | |
| 3/5/2003 | | 2028 | 3000 | 3/4/2004 | 3056 | 3000 | 3/5/2005 | 3093 | 3000 | 3/5/2006 | 5042 | 3000 | 3/5/2007 | 1795 | 3000 | |
| 3/6/2003 | | 2037 | 3000 | 3/5/2004 | 3171 | 3000 | 3/6/2005 | 3040 | 3000 | 3/6/2006 | 5057 | 3000 | 3/6/2007 | 1795 | 3000 | |
| 3/7/2003 | | 2036 | 3000 | 3/6/2004 | 3059 | 3000 | 3/7/2005 | 3070 | 3000 | 3/7/2006 | 5042 | 3000 | 3/7/2007 | 1792 | 3000 | |
| 3/8/2003 | | 2028 | 3000 | 3/7/2004 | 3086 | 3000 | 3/8/2005 | 3088 | 3000 | 3/8/2006 | 5051 | 3000 | 3/8/2007 | 1786 | 3000 | |
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May

June

July

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August

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September

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November

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| 9/1/2004 | 1567 | 1750 |
| 9/2/2004 | 1577 | 1750 |
| 9/3/2004 | 1582 | 1750 |
| 9/4/2004 | 1570 | 1750 |
| 9/5/2004 | 1586 | 1750 |
| 9/6/2004 | 1585 | 1750 |
| 9/7/2004 | 1583 | 1750 |
| 9/8/2004 | 1525 | 1750 |
| 9/9/2004 | 1550 | 1750 |
| 9/10/2004 | 1457 | 1750 |
| 9/11/2004 | 1538 | 1750 |
| 9/12/2004 | 1539 | 1750 |
| 9/13/2004 | 1548 | 1750 |
| 9/14/2004 | 1561 | 1750 |
| 9/15/2004 | 1570 | 1750 |
| 9/16/2004 | 1578 | 1750 |
| 9/17/2004 | 1575 | 1750 |
| 9/18/2004 | 1578 | 1750 |
| 9/19/2004 | 1570 | 1750 |
| 9/20/2004 | 1571 | 1750 |
| 9/21/2004 | 1560 | 1750 |
| 9/22/2004 | 1567 | 1750 |
| 9/23/2004 | 1568 | 1750 |
| 9/24/2004 | 1567 | 1750 |
| 9/25/2004 | 1561 | 1750 |
| 9/26/2004 | 1563 | 1750 |
| 9/27/2004 | 1568 | 1750 |
| 9/28/2004 | 1574 | 1750 |
| 9/29/2004 | 1575 | 1750 |
| 9/30/2004 | 1575 | 1750 |
| 10/1/2004 | 1583 | 1750 |
| 10/2/2004 | 1582 | 1750 |
| 10/3/2004 | 1582 | 1750 |
| 10/4/2004 | 1578 | 1750 |
| 10/5/2004 | 1578 | 1750 |
| 10/6/2004 | 1577 | 1750 |
| 10/7/2004 | 1578 | 1750 |
| 10/8/2004 | 1581 | 1750 |
| 10/9/2004 | 1575 | 1750 |
| 10/10/2004 | 1582 | 1750 |
| 10/11/2004 | 1584 | 1750 |
| 10/12/2004 | 1592 | 1750 |
| 10/13/2004 | 1618 | 1750 |
| 10/14/2004 | 1568 | 1750 |
| 10/15/2004 | 1573 | 2000 |
| 10/16/2004 | 1571 | 2000 |
| 10/17/2004 | 1575 | 2000 |
| 10/18/2004 | 1575 | 2000 |
| 10/19/2004 | 1576 | 2000 |
| 10/20/2004 | 1580 | 2000 |
| 10/21/2004 | 1573 | 2000 |
| 10/22/2004 | 1573 | 2000 |
| 10/23/2004 | 1570 | 2000 |
| 10/24/2004 | 1573 | 2000 |
| 10/25/2004 | 1540 | 2000 |
| 10/26/2004 | 1575 | 2000 |
| 10/27/2004 | 1576 | 2000 |
| 10/28/2004 | 1617 | 2000 |
| 10/29/2004 | 1575 | 2000 |
| 10/30/2004 | 1577 | 2000 |
| 10/31/2004 | 1602 | 2000 |
| 11/1/2004 | 1634 | 2000 |
| 11/2/2004 | 1568 | 2000 |
| 11/3/2004 | 1595 | 2000 |
| 11/4/2004 | 1578 | 2000 |
| 11/5/2004 | 1572 | 2000 |
| 11/6/2004 | 1573 | 2000 |
| 11/7/2004 | 1571 | 2000 |
| 11/8/2004 | 1584 | 2000 |
| 11/9/2004 | 1581 | 2000 |
| 11/10/2004 | 1586 | 2000 |
| 11/11/2004 | 1581 | 2000 |
| 11/12/2004 | 1574 | 2000 |
| 11/13/2004 | 1573 | 2000 |
| 11/14/2004 | 1570 | 2000 |
| 11/15/2004 | 1572 | 2000 |
| 11/16/2004 | 1574 | 2000 |
| 11/17/2004 | 1625 | 2000 |
| 11/18/2004 | 1629 | 2000 |
| 11/19/2004 | 1629 | 2000 |
| 11/20/2004 | 1614 | 2000 |
| 11/21/2004 | 1578 | 2000 |
| 11/22/2004 | 1786 | 2000 |
| 11/23/2004 | 1791 | 2000 |
| 11/24/2004 | 1795 | 2000 |
| 11/25/2004 | 1805 | 2000 |
| 11/26/2004 | 1809 | 2000 |
| 11/27/2004 | 1811 | 2000 |
| 11/28/2004 | 1812 | 2000 |
| 11/29/2004 | 1800 | 2000 |
| 11/30/2004 | 1786 | 2000 |
| 12/1/2004 | 1509 | 2000 |

| | | |
|-----------|------|------|
| 8/11/2005 | 3005 | 1750 |
| 8/12/2005 | 3193 | 1750 |
| 8/13/2005 | 3036 | 1750 |
| 8/14/2005 | 3056 | 1750 |
| 8/15/2005 | 3073 | 1750 |
| 8/16/2005 | 3017 | 1750 |
| 8/17/2005 | 3025 | 1750 |
| 8/18/2005 | 3013 | 1750 |
| 8/19/2005 | 3018 | 1750 |
| 8/20/2005 | 3006 | 1750 |
| 8/21/2005 | 2985 | 1750 |
| 8/22/2005 | 3093 | 1750 |
| 8/23/2005 | 3027 | 1750 |
| 8/24/2005 | | |

December

| | | | | | | | | | | | | | | |
|------------|------|------|------------|------|------|------------|-------|------|------------|------|------|------------|------|------|
| 12/3/2003 | 2047 | 2000 | 12/2/2004 | 1706 | 2000 | 12/3/2005 | 2341 | 2000 | 12/3/2006 | 2065 | 2000 | 12/3/2007 | 1274 | 2000 |
| 12/4/2003 | 2048 | 2000 | 12/3/2004 | 1708 | 2000 | 12/4/2005 | 2346 | 2000 | 12/4/2006 | 2057 | 2000 | 12/4/2007 | 1279 | 2000 |
| 12/5/2003 | 2050 | 2000 | 12/4/2004 | 1754 | 2000 | 12/5/2005 | 2341 | 2000 | 12/5/2006 | 2065 | 2000 | 12/5/2007 | 1283 | 2000 |
| 12/6/2003 | 2048 | 2000 | 12/5/2004 | 1691 | 2000 | 12/6/2005 | 2333 | 2000 | 12/6/2006 | 2060 | 2000 | 12/6/2007 | 1298 | 2000 |
| 12/7/2003 | 2040 | 2000 | 12/6/2004 | 1724 | 2000 | 12/7/2005 | 2338 | 2000 | 12/7/2006 | 2041 | 2000 | 12/7/2007 | 1312 | 2000 |
| 12/8/2003 | 2048 | 2000 | 12/7/2004 | 1719 | 2000 | 12/8/2005 | 2326 | 2000 | 12/8/2006 | 2047 | 2000 | 12/8/2007 | 1367 | 2000 |
| 12/9/2003 | 2043 | 2000 | 12/8/2004 | 1708 | 2000 | 12/9/2005 | 2327 | 2000 | 12/9/2006 | 2010 | 2000 | 12/9/2007 | 1364 | 2000 |
| 12/10/2003 | 2034 | 2000 | 12/9/2004 | 1777 | 2000 | 12/10/2005 | 2331 | 2000 | 12/10/2006 | 2002 | 2000 | 12/10/2007 | 1288 | 2000 |
| 12/11/2003 | 2037 | 2000 | 12/10/2004 | 1708 | 2000 | 12/11/2005 | 2336 | 2000 | 12/11/2006 | 1997 | 2000 | 12/11/2007 | 1276 | 2000 |
| 12/12/2003 | 2039 | 2000 | 12/11/2004 | 1801 | 2000 | 12/12/2005 | 2331 | 2000 | 12/12/2006 | 1997 | 2000 | 12/12/2007 | 1283 | 2000 |
| 12/13/2003 | 2034 | 2000 | 12/12/2004 | 1812 | 2000 | 12/13/2005 | 2345 | 2000 | 12/13/2006 | 2003 | 2000 | 12/13/2007 | 1289 | 2000 |
| 12/14/2003 | 2041 | 2000 | 12/13/2004 | 1811 | 2000 | 12/14/2005 | 2350 | 2000 | 12/14/2006 | 2013 | 2000 | 12/14/2007 | 1291 | 2000 |
| 12/15/2003 | 2028 | 2000 | 12/14/2004 | 1818 | 2000 | 12/15/2005 | 2317 | 2000 | 12/15/2006 | 2037 | 2000 | 12/15/2007 | 1292 | 2000 |
| 12/16/2003 | 2039 | 2000 | 12/15/2004 | 1760 | 2000 | 12/16/2005 | 2349 | 2000 | 12/16/2006 | 2033 | 2000 | 12/16/2007 | 1295 | 2000 |
| 12/17/2003 | 2048 | 2000 | 12/16/2004 | 1815 | 2000 | 12/17/2005 | 2354 | 2000 | 12/17/2006 | 2032 | 2000 | 12/17/2007 | 1196 | 2000 |
| 12/18/2003 | 2043 | 2000 | 12/17/2004 | 1781 | 2000 | 12/18/2005 | 2408 | 2000 | 12/18/2006 | 2109 | 2000 | 12/18/2007 | 1199 | 2000 |
| 12/19/2003 | 2049 | 2000 | 12/18/2004 | 1779 | 2000 | 12/19/2005 | 2418 | 2000 | 12/19/2006 | 2166 | 2000 | 12/19/2007 | 1181 | 2000 |
| 12/20/2003 | 2045 | 2000 | 12/19/2004 | 1785 | 2000 | 12/20/2005 | 2291 | 2000 | 12/20/2006 | 2170 | 2000 | 12/20/2007 | 1181 | 2000 |
| 12/21/2003 | 2044 | 2000 | 12/20/2004 | 1785 | 2000 | 12/21/2005 | 2299 | 2000 | 12/21/2006 | 2177 | 2000 | 12/21/2007 | 1183 | 2000 |
| 12/22/2003 | 2037 | 2000 | 12/21/2004 | 1839 | 2000 | 12/22/2005 | 3728 | 2000 | 12/22/2006 | 2091 | 2000 | 12/22/2007 | 1193 | 2000 |
| 12/23/2003 | 2031 | 2000 | 12/22/2004 | 1791 | 2000 | 12/23/2005 | 4027 | 2000 | 12/23/2006 | 2045 | 2000 | 12/23/2007 | 1183 | 2000 |
| 12/24/2003 | 2012 | 2000 | 12/23/2004 | 1567 | 2000 | 12/24/2005 | 8617 | 2000 | 12/24/2006 | 2041 | 2000 | 12/24/2007 | 1194 | 2000 |
| 12/25/2003 | 2016 | 2000 | 12/24/2004 | 1550 | 2000 | 12/25/2005 | 19968 | 2000 | 12/25/2006 | 2040 | 2000 | 12/25/2007 | 1180 | 2000 |
| 12/26/2003 | 2019 | 2000 | 12/25/2004 | 1556 | 2000 | 12/26/2005 | 25203 | 2000 | 12/26/2006 | 2046 | 2000 | 12/26/2007 | 1180 | 2000 |
| 12/27/2003 | 2018 | 2000 | 12/26/2004 | 1560 | 2000 | 12/27/2005 | 32372 | 2000 | 12/27/2006 | 2027 | 2000 | 12/27/2007 | 1194 | 2000 |
| 12/28/2003 | 2036 | 2000 | 12/27/2004 | 1563 | 2000 | 12/28/2005 | 32812 | 2000 | 12/28/2006 | 2022 | 2000 | 12/28/2007 | 1169 | 2000 |
| 12/29/2003 | 2032 | 2000 | 12/28/2004 | 1546 | 2000 | 12/29/2005 | 33966 | 2000 | 12/29/2006 | 2028 | 2000 | 12/29/2007 | 1168 | 2000 |
| 12/30/2003 | 2042 | 2000 | 12/29/2004 | 1567 | 2000 | 12/30/2005 | 34028 | 2000 | 12/30/2006 | 2030 | 2000 | 12/30/2007 | 1179 | 2000 |
| 12/31/2003 | 2034 | 2000 | 12/30/2004 | 1574 | 2000 | 12/31/2005 | 34966 | 2000 | 12/31/2006 | 2030 | 2000 | 12/31/2007 | 1175 | 2000 |

$\frac{W}{\emptyset}$ $\frac{G}{\emptyset}$ $\frac{Y}{29}$
 $\frac{W}{\emptyset}$ $\frac{G}{29}$ $\frac{Y}{\emptyset}$
 $\frac{W}{29}$ $\frac{G}{\emptyset}$ $\frac{Y}{\emptyset}$
 $\frac{W}{4}$ $\frac{G}{2}$ $\frac{Y}{23}$
 $\frac{W}{\emptyset}$ $\frac{G}{29}$ $\frac{Y}{\emptyset}$

Leap Year

2003 - $\frac{W}{182}$ $\frac{G}{76}$ $\frac{Y}{106}$ $\frac{79\%}{50\%}$

| 2008 | | |
|-----------|----------------------|---------------|
| Date | Natoma Outflow (cfs) | Hodge Trigger |
| 1/1/2008 | 1162 | 2000 |
| 1/2/2008 | 1165 | 2000 |
| 1/3/2008 | 1161 | 2000 |
| 1/4/2008 | 1162 | 2000 |
| 1/5/2008 | 1153 | 2000 |
| 1/6/2008 | 1144 | 2000 |
| 1/7/2008 | 1139 | 2000 |
| 1/8/2008 | 1123 | 2000 |
| 1/9/2008 | 1095 | 2000 |
| 1/10/2008 | 1123 | 2000 |
| 1/11/2008 | 1068 | 2000 |
| 1/12/2008 | 1050 | 2000 |
| 1/13/2008 | 1014 | 2000 |
| 1/14/2008 | 1034 | 2000 |
| 1/15/2008 | 987 | 2000 |
| 1/16/2008 | 970 | 2000 |
| 1/17/2008 | 1014 | 2000 |
| 1/18/2008 | 1014 | 2000 |
| 1/19/2008 | 1017 | 2000 |
| 1/20/2008 | 1014 | 2000 |
| 1/21/2008 | 1016 | 2000 |
| 1/22/2008 | 1013 | 2000 |
| 1/23/2008 | 1058 | 2000 |
| 1/24/2008 | 1045 | 2000 |
| 1/25/2008 | 1038 | 2000 |
| 1/26/2008 | 1061 | 2000 |
| 1/27/2008 | 1080 | 2000 |
| 1/28/2008 | 1082 | 2000 |
| 1/29/2008 | 1103 | 2000 |
| 1/30/2008 | 1084 | 2000 |
| 1/31/2008 | 1059 | 2000 |
| 2/1/2008 | 1031 | 2000 |
| 2/2/2008 | 1036 | 2000 |
| 2/3/2008 | 1042 | 2000 |
| 2/4/2008 | 1043 | 2000 |
| 2/5/2008 | 1051 | 2000 |
| 2/6/2008 | 1064 | 2000 |
| 2/7/2008 | 1067 | 2000 |
| 2/8/2008 | 1067 | 2000 |
| 2/9/2008 | 1068 | 2000 |
| 2/10/2008 | 1063 | 2000 |
| 2/11/2008 | 1053 | 2000 |
| 2/12/2008 | 1048 | 2000 |
| 2/13/2008 | 1052 | 2000 |
| 2/14/2008 | 1001 | 2000 |
| 2/15/2008 | 1001 | 2000 |
| 2/16/2008 | 1002 | 2000 |
| 2/17/2008 | 1008 | 2000 |
| 2/18/2008 | 1080 | 2000 |
| 2/19/2008 | 1090 | 2000 |
| 2/20/2008 | 1095 | 2000 |
| 2/21/2008 | 1104 | 2000 |
| 2/22/2008 | 1120 | 2000 |
| 2/23/2008 | 1110 | 2000 |
| 2/24/2008 | 1107 | 2000 |
| 2/25/2008 | 1106 | 2000 |
| 2/26/2008 | 1104 | 2000 |
| 2/27/2008 | 1106 | 2000 |
| 2/28/2008 | 1116 | 2000 |
| 2/29/2008 | 1116 | 2000 |
| 3/1/2008 | 1116 | 3000 |
| 3/2/2008 | 1108 | 3000 |
| 3/3/2008 | 1105 | 3000 |
| 3/4/2008 | 1108 | 3000 |
| 3/5/2008 | 1038 | 3000 |
| 3/6/2008 | 1046 | 3000 |
| 3/7/2008 | 1049 | 3000 |
| 3/8/2008 | 1053 | 3000 |
| 3/9/2008 | 1013 | 3000 |
| 3/10/2008 | 1047 | 3000 |
| 3/11/2008 | 1050 | 3000 |
| 3/12/2008 | 1048 | 3000 |
| 3/13/2008 | 1051 | 3000 |
| 3/14/2008 | 1052 | 3000 |
| 3/15/2008 | 1050 | 3000 |
| 3/16/2008 | 1050 | 3000 |
| 3/17/2008 | 1057 | 3000 |
| 3/18/2008 | 1056 | 3000 |
| 3/19/2008 | 982 | 3000 |
| 3/20/2008 | 1066 | 3000 |
| 3/21/2008 | 1067 | 3000 |
| 3/22/2008 | 1040 | 3000 |
| 3/23/2008 | 1037 | 3000 |
| 3/24/2008 | 1034 | 3000 |
| 3/25/2008 | 1032 | 3000 |
| 3/26/2008 | 1034 | 3000 |
| 3/27/2008 | 1043 | 3000 |
| 3/28/2008 | 1044 | 3000 |
| 3/29/2008 | 1055 | 3000 |
| 3/30/2008 | 1067 | 3000 |
| 3/31/2008 | 1051 | 3000 |
| 4/1/2008 | 1055 | 3000 |
| 4/2/2008 | 1183 | 3000 |
| 4/3/2008 | 1166 | 3000 |
| 4/4/2008 | 1070 | 3000 |
| 4/5/2008 | 1048 | 3000 |
| 4/6/2008 | 1050 | 3000 |
| 4/7/2008 | 1059 | 3000 |
| 4/8/2008 | 1039 | 3000 |
| 4/9/2008 | 1048 | 3000 |
| 4/10/2008 | 1050 | 3000 |
| 4/11/2008 | 1050 | 3000 |
| 4/12/2008 | 1249 | 3000 |
| 4/13/2008 | 1258 | 3000 |
| 4/14/2008 | 1257 | 3000 |
| 4/15/2008 | 1254 | 3000 |
| 4/16/2008 | 1259 | 3000 |
| 4/17/2008 | 1283 | 3000 |

2004 - 157 $\frac{199}{439}$ $\frac{8}{45\%}$

2005 - 302 $\frac{33}{83\%}$ $\frac{29}{91\%}$

2006 - 290 $\frac{3}{79}$ $\frac{71}{99}$

2007 - 87 $\frac{271}{24\%}$ $\frac{6}{13\%}$

2008 - $\frac{45}{1063 (52\%)}$ $\frac{162}{744 (37\%)}$ $\frac{4}{224 (11\%)}$ $\frac{12\%}{13\%}$

← 90 AVAILABLE w/ Y
← 90 AVAILABLE w/o Y

- OVER ALL -
WITH Y - 63%
WITHOUT Y - 52%

2036

108

W G Y
8 108 8

| | | |
|-----------|------|------|
| 4/18/2008 | 1297 | 3000 |
| 4/19/2008 | 1254 | 3000 |
| 4/20/2008 | 1251 | 3000 |
| 4/21/2008 | 1248 | 3000 |
| 4/22/2008 | 1046 | 3000 |
| 4/23/2008 | 1051 | 3000 |
| 4/24/2008 | 1051 | 3000 |
| 4/25/2008 | 1061 | 3000 |
| 4/26/2008 | 1063 | 3000 |
| 4/27/2008 | 1067 | 3000 |
| 4/28/2008 | 1068 | 3000 |
| 4/29/2008 | 1063 | 3000 |
| 4/30/2008 | 1058 | 3000 |
| 5/1/2008 | 1064 | 3000 |
| 5/2/2008 | 1060 | 3000 |
| 5/3/2008 | 1059 | 3000 |
| 5/4/2008 | 1066 | 3000 |
| 5/5/2008 | 1061 | 3000 |
| 5/6/2008 | 1064 | 3000 |
| 5/7/2008 | 1057 | 3000 |
| 5/8/2008 | 1063 | 3000 |
| 5/9/2008 | 1058 | 3000 |
| 5/10/2008 | 1060 | 3000 |
| 5/11/2008 | 1064 | 3000 |
| 5/12/2008 | 1056 | 3000 |
| 5/13/2008 | 1058 | 3000 |
| 5/14/2008 | 1062 | 3000 |
| 5/15/2008 | 1064 | 3000 |
| 5/16/2008 | 1061 | 3000 |
| 5/17/2008 | 1063 | 3000 |
| 5/18/2008 | 1061 | 3000 |
| 5/19/2008 | 1067 | 3000 |
| 5/20/2008 | 1060 | 3000 |
| 5/21/2008 | 1496 | 3000 |
| 5/22/2008 | 1563 | 3000 |
| 5/23/2008 | 1567 | 3000 |
| 5/24/2008 | 1509 | 3000 |
| 5/25/2008 | 1511 | 3000 |
| 5/26/2008 | 1562 | 3000 |
| 5/27/2008 | 1537 | 3000 |
| 5/28/2008 | 1790 | 3000 |
| 5/29/2008 | 1994 | 3000 |
| 5/30/2008 | 1894 | 3000 |
| 5/31/2008 | 1955 | 3000 |
| 6/1/2008 | 2527 | 3000 |
| 6/2/2008 | 2577 | 3000 |
| 6/3/2008 | 2134 | 3000 |
| 6/4/2008 | 2078 | 3000 |
| 6/5/2008 | 2080 | 3000 |
| 6/6/2008 | 2081 | 3000 |
| 6/7/2008 | 2082 | 3000 |
| 6/8/2008 | 2077 | 3000 |
| 6/9/2008 | 2494 | 3000 |
| 6/10/2008 | 3354 | 3000 |
| 6/11/2008 | 4080 | 3000 |
| 6/12/2008 | 4070 | 3000 |
| 6/13/2008 | 4092 | 3000 |
| 6/14/2008 | 4062 | 3000 |
| 6/15/2008 | 4058 | 3000 |
| 6/16/2008 | 4068 | 3000 |
| 6/17/2008 | 4069 | 3000 |
| 6/18/2008 | 4068 | 3000 |
| 6/19/2008 | 4070 | 3000 |
| 6/20/2008 | 4075 | 3000 |
| 6/21/2008 | 3883 | 3000 |
| 6/22/2008 | 3879 | 3000 |
| 6/23/2008 | 3876 | 3000 |
| 6/24/2008 | 3555 | 3000 |
| 6/25/2008 | 3228 | 3000 |
| 6/26/2008 | 3091 | 3000 |
| 6/27/2008 | 3055 | 3000 |
| 6/28/2008 | 3058 | 3000 |
| 6/29/2008 | 3044 | 3000 |
| 6/30/2008 | 2980 | 3000 |
| 7/1/2008 | 3050 | 1750 |
| 7/2/2008 | 3037 | 1750 |
| 7/3/2008 | 3050 | 1750 |
| 7/4/2008 | 2995 | 1750 |
| 7/5/2008 | 3018 | 1750 |
| 7/6/2008 | 3025 | 1750 |
| 7/7/2008 | 2995 | 1750 |
| 7/8/2008 | 3007 | 1750 |
| 7/9/2008 | 3028 | 1750 |
| 7/10/2008 | 3029 | 1750 |
| 7/11/2008 | 2698 | 1750 |
| 7/12/2008 | 3030 | 1750 |
| 7/13/2008 | 3036 | 1750 |
| 7/14/2008 | 3040 | 1750 |
| 7/15/2008 | 3046 | 1750 |
| 7/16/2008 | 3049 | 1750 |
| 7/17/2008 | 3047 | 1750 |
| 7/18/2008 | 3024 | 1750 |
| 7/19/2008 | 3014 | 1750 |
| 7/20/2008 | 3008 | 1750 |
| 7/21/2008 | 3022 | 1750 |
| 7/22/2008 | 2590 | 1750 |
| 7/23/2008 | 2304 | 1750 |
| 7/24/2008 | 2283 | 1750 |
| 7/25/2008 | 2285 | 1750 |
| 7/26/2008 | 2290 | 1750 |
| 7/27/2008 | 2284 | 1750 |
| 7/28/2008 | 2283 | 1750 |
| 7/29/2008 | 2290 | 1750 |

103

W 48
G 54
Y 4

South Service Area Water Demand (MG)

| Year | January | February | March | April | May | June | July | August | September | October | November | December |
|------|---------|----------|---------|---------|---------|---------|----------|----------|-----------|---------|----------|----------|
| 2007 | 331.591 | 267.303 | 327.494 | 462.671 | 613.888 | 817.167 | 897.066 | 899.287 | 655.895 | 531.619 | 344.14 | 301.224 |
| 2006 | 313.477 | 286.659 | 289.896 | 254.598 | 668.465 | 769.587 | 1172.271 | 976.817 | 678.353 | 711.989 | 378.837 | 291.357 |
| 2005 | 335.473 | 241.139 | 318.179 | 382.948 | 469.814 | 892.529 | 944.439 | 1086.669 | 849.298 | 691.72 | 416.683 | 261.768 |

Average

of 3 Years (MG)

| | | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| 326.847 | 265.034 | 311.856 | 366.739 | 584.056 | 826.428 | 1004.592 | 987.591 | 727.849 | 645.109 | 379.887 | 284.783 |
|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|

Convert to

mgd

| | | | | | | | | | | | |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 10.54 | 9.47 | 10.06 | 12.22 | 18.84 | 27.55 | 32.41 | 31.86 | 24.26 | 20.81 | 12.66 | 9.19 |
|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|

Convert to

Acre-Feet

| | | | | | | | | | | | |
|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 1002.91 | 813.24 | 956.91 | 1125.31 | 1792.13 | 2535.83 | 3082.52 | 3030.35 | 2233.35 | 1979.47 | 1165.65 | 873.84 |
|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|

Maximum amount of surface water from the City of Sacramento that the District can utilize hydraulically is **1,300 AF/month**.

Surface Water Availability Using 70 years of Hydrologic Data Based on Hodge Flow Restrictions and Proposed New Lower American River

Flow Standard

| SW Availability | January | February | March | April | May | June | July | August | September | October | November | December |
|-----------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|
| No | 0.62 | 0.44 | 0.58 | 0.59 | 0.66 | 0.54 | 0.15 | 0.73 | 0.62 | 0.85 | 0.63 | 0.72 |
| Yes | 0.38 | 0.56 | 0.42 | 0.41 | 0.34 | 0.46 | 0.85 | 0.27 | 0.38 | 0.15 | 0.37 | 0.28 |

SW Avail. to

Drought Bank

| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-------------|
| 272 | 356 | 292 | 355 | 442 | 598 | 1105 | 351 | 494 | 195 | 325 | 135 | 4921 |
|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-------------|

Total

CORRECT MODELING
 ORIGINAL WF EUR-PA
 MONTHLY MODEL
 MONTHLY VOLUME = NO. OF DAYS
 "F PATTERN"
 MINIMUM TO U.S. BUREAU
 DO NOT LOOK AT IT

Future with WFA, LARFS #2 (PROSIM)
 Flow Below H Street (cfs)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1922 | 2,280 | 2,344 | 2,451 | 1,403 | 2,470 | 4,385 | 4,312 | 7,983 | 8,381 | 3,115 | 2,511 | 3,188 |
| 1923 | 2,299 | 2,399 | 6,036 | 4,327 | 2,822 | 2,829 | 3,000 | 4,054 | 3,755 | 2,574 | 4,292 | 1,940 |
| 1924 | 2,279 | 2,320 | 2,349 | 1,112 | 963 | 749 | 367 | 509 | 486 | 1,208 | 391 | 413 |
| 1925 | 1,033 | 1,004 | 1,082 | 1,188 | 3,668 | 3,042 | 3,263 | 3,848 | 4,906 | 2,052 | 1,750 | 2,209 |
| 1926 | 2,276 | 2,332 | 2,370 | 1,757 | 1,548 | 1,102 | 1,873 | 681 | 2,300 | 2,544 | 424 | 469 |
| 1927 | 2,318 | 2,436 | 2,371 | 3,127 | 13,214 | 4,263 | 7,653 | 4,267 | 4,820 | 6,162 | 3,419 | 2,220 |
| 1928 | 1,875 | 1,927 | 1,943 | 1,859 | 1,790 | 10,075 | 4,456 | 1,068 | 3,629 | 2,431 | 3,843 | 975 |
| 1929 | 1,527 | 1,581 | 1,604 | 1,240 | 971 | 923 | 860 | 1,201 | 1,866 | 1,303 | 700 | 745 |
| 1930 | 1,193 | 1,190 | 1,299 | 1,514 | 1,678 | 1,341 | 1,039 | 1,427 | 1,471 | 2,245 | 807 | 1,167 |
| 1931 | 2,276 | 2,334 | 2,334 | 1,564 | 1,358 | 1,041 | 447 | 721 | 677 | 2,364 | 442 | 487 |
| 1932 | 1,029 | 1,057 | 1,188 | 1,382 | 2,482 | 2,890 | 2,854 | 3,717 | 4,373 | 2,711 | 1,914 | 1,953 |
| 1933 | 2,231 | 2,277 | 2,340 | 1,880 | 1,431 | 1,516 | 1,429 | 1,963 | 1,911 | 1,063 | 1,066 | 1,112 |
| 1934 | 869 | 848 | 974 | 1,309 | 1,062 | 1,248 | 3,389 | 279 | 1,402 | 1,395 | 225 | 281 |
| 1935 | 796 | 864 | 856 | 1,248 | 1,606 | 2,982 | 4,758 | 3,975 | 3,706 | 2,240 | 3,677 | 2,596 |
| 1936 | 2,299 | 2,334 | 2,370 | 4,090 | 13,303 | 3,933 | 5,415 | 3,919 | 3,874 | 3,690 | 2,021 | 3,357 |
| 1937 | 2,273 | 2,314 | 2,396 | 1,586 | 1,579 | 4,220 | 3,835 | 4,074 | 3,190 | 2,159 | 1,725 | 3,189 |
| 1938 | 2,290 | 2,391 | 5,617 | 2,662 | 9,674 | 10,236 | 7,574 | 9,421 | 8,049 | 2,970 | 3,628 | 3,539 |
| 1939 | 2,282 | 2,322 | 2,359 | 1,739 | 1,458 | 1,164 | 295 | 521 | 1,474 | 1,424 | 348 | 403 |
| 1940 | 1,832 | 1,813 | 1,855 | 2,410 | 10,131 | 10,293 | 5,875 | 2,739 | 2,691 | 5,571 | 2,919 | 1,507 |
| 1941 | 1,862 | 1,890 | 2,034 | 4,904 | 7,828 | 4,583 | 3,422 | 4,978 | 3,834 | 1,999 | 2,286 | 3,483 |
| 1942 | 2,308 | 2,361 | 4,458 | 9,122 | 9,771 | 4,401 | 4,394 | 5,118 | 6,798 | 2,944 | 3,714 | 3,522 |
| 1943 | 2,286 | 3,262 | 4,558 | 10,739 | 6,662 | 11,861 | 4,889 | 3,087 | 3,055 | 6,025 | 2,571 | 1,705 |
| 1944 | 1,936 | 1,994 | 2,038 | 1,626 | 1,370 | 1,526 | 1,494 | 2,001 | 1,948 | 1,399 | 1,096 | 1,142 |
| 1945 | 2,010 | 2,095 | 2,088 | 1,635 | 5,822 | 2,502 | 2,408 | 3,165 | 4,540 | 4,533 | 2,062 | 2,101 |
| 1946 | 1,784 | 1,788 | 6,774 | 4,842 | 2,497 | 2,534 | 3,580 | 3,214 | 5,114 | 4,028 | 1,932 | 2,546 |
| 1947 | 1,680 | 1,731 | 1,752 | 1,631 | 1,373 | 1,092 | 721 | 1,039 | 2,463 | 2,173 | 617 | 662 |
| 1948 | 2,159 | 2,185 | 2,198 | 1,736 | 1,409 | 3,102 | 3,063 | 3,952 | 3,879 | 2,015 | 3,525 | 2,203 |
| 1949 | 1,636 | 1,649 | 1,726 | 1,332 | 1,083 | 1,881 | 1,737 | 2,353 | 3,449 | 2,595 | 2,752 | 1,433 |
| 1950 | 1,913 | 1,973 | 2,008 | 1,639 | 3,492 | 2,863 | 4,817 | 3,639 | 3,589 | 2,290 | 2,775 | 3,391 |
| 1951 | 2,331 | 15,869 | 16,191 | 9,919 | 7,944 | 3,509 | 2,728 | 3,112 | 2,672 | 5,392 | 2,908 | 1,764 |
| 1952 | 1,799 | 1,776 | 3,356 | 8,904 | 9,303 | 5,805 | 8,565 | 10,774 | 9,958 | 4,086 | 4,139 | 3,229 |
| 1953 | 2,282 | 2,366 | 2,472 | 6,139 | 2,340 | 3,473 | 3,446 | 4,266 | 4,226 | 2,196 | 2,211 | 2,740 |
| 1954 | 2,289 | 2,361 | 2,360 | 1,954 | 1,975 | 3,540 | 3,898 | 2,630 | 3,477 | 1,784 | 3,737 | 1,027 |
| 1955 | 1,720 | 1,779 | 1,832 | 1,498 | 1,740 | 1,591 | 1,585 | 2,103 | 2,056 | 1,145 | 2,333 | 1,206 |
| 1956 | 1,765 | 1,788 | 14,359 | 15,925 | 6,036 | 4,098 | 4,092 | 4,273 | 4,215 | 2,195 | 3,209 | 3,473 |
| 1957 | 2,307 | 2,325 | 2,354 | 1,901 | 1,627 | 3,361 | 2,542 | 3,328 | 3,815 | 4,312 | 2,383 | 1,776 |
| 1958 | 1,843 | 1,827 | 1,893 | 1,610 | 7,686 | 6,464 | 10,019 | 9,726 | 7,220 | 2,627 | 3,804 | 3,564 |
| 1959 | 2,284 | 2,330 | 2,367 | 1,681 | 1,918 | 1,439 | 439 | 653 | 2,372 | 427 | 2,306 | 720 |
| 1960 | 1,751 | 1,754 | 1,802 | 1,471 | 1,155 | 1,963 | 1,248 | 1,193 | 2,686 | 2,242 | 2,948 | 1,354 |
| 1961 | 1,757 | 1,837 | 1,803 | 1,450 | 1,121 | 876 | 498 | 750 | 701 | 487 | 470 | 517 |
| 1962 | 1,673 | 1,723 | 1,741 | 1,358 | 1,190 | 1,692 | 3,627 | 2,179 | 2,877 | 4,978 | 2,536 | 1,951 |
| 1963 | 1,888 | 2,509 | 2,955 | 3,413 | 11,858 | 3,366 | 4,036 | 6,716 | 4,203 | 5,342 | 2,190 | 2,230 |
| 1964 | 1,944 | 2,047 | 1,995 | 2,066 | 2,110 | 1,669 | 1,358 | 1,857 | 1,818 | 2,228 | 1,025 | 1,070 |
| 1965 | 1,922 | 1,992 | 19,863 | 13,080 | 5,287 | 2,942 | 3,205 | 3,755 | 3,712 | 6,175 | 2,302 | 1,981 |
| 1966 | 2,202 | 2,312 | 2,324 | 1,829 | 1,662 | 1,269 | 439 | 670 | 2,784 | 433 | 2,281 | 478 |
| 1967 | 1,844 | 1,988 | 1,940 | 6,497 | 4,200 | 5,643 | 4,371 | 7,290 | 9,939 | 3,764 | 3,752 | 3,796 |
| 1968 | 2,279 | 2,346 | 2,365 | 2,197 | 5,062 | 1,917 | 632 | 928 | 3,061 | 736 | 1,802 | 2,154 |
| 1969 | 1,831 | 1,889 | 1,909 | 14,413 | 9,155 | 4,370 | 5,308 | 8,762 | 6,101 | 2,406 | 3,581 | 3,519 |
| 1970 | 2,299 | 2,347 | 4,814 | 20,786 | 6,109 | 2,147 | 1,603 | 2,163 | 2,800 | 2,360 | 3,501 | 1,227 |
| 1971 | 1,784 | 1,696 | 4,477 | 4,570 | 3,159 | 3,812 | 3,073 | 4,015 | 3,954 | 2,063 | 2,769 | 3,346 |
| 1972 | 2,286 | 2,344 | 2,427 | 2,269 | 2,103 | 3,299 | 1,378 | 1,850 | 4,673 | 1,665 | 3,872 | 1,086 |
| 1973 | 1,597 | 1,662 | 1,640 | 8,539 | 7,048 | 3,126 | 2,341 | 3,761 | 6,203 | 2,466 | 3,505 | 1,701 |
| 1974 | 1,597 | 3,112 | 7,204 | 11,022 | 3,944 | 9,460 | 5,938 | 4,493 | 4,226 | 2,436 | 3,771 | 3,631 |
| 1975 | 2,307 | 2,361 | 2,416 | 1,800 | 1,819 | 3,851 | 3,750 | 4,258 | 4,487 | 2,375 | 3,571 | 3,404 |
| 1976 | 2,326 | 2,533 | 2,362 | 2,129 | 1,653 | 1,295 | 390 | 598 | 2,077 | 1,442 | 573 | 447 |
| 1977 | 825 | 838 | 861 | 680 | 250 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 375 | 500 | 1,956 | 4,576 | 5,482 | 3,874 | 3,593 | 3,551 | 5,895 | 2,944 | 1,906 |
| 1979 | 2,032 | 2,137 | 2,116 | 1,747 | 1,420 | 2,258 | 2,188 | 2,896 | 6,195 | 1,920 | 2,988 | 1,597 |
| 1980 | 1,617 | 1,617 | 1,680 | 15,197 | 13,558 | 3,119 | 2,684 | 3,485 | 3,438 | 3,684 | 3,853 | 1,841 |
| 1981 | 2,239 | 2,285 | 2,351 | 1,911 | 1,443 | 1,172 | 361 | 574 | 530 | 382 | 520 | 644 |
| 1982 | 2,109 | 5,299 | 13,977 | 8,107 | 14,947 | 7,470 | 14,063 | 8,897 | 5,716 | 2,824 | 3,757 | 3,984 |
| 1983 | 3,029 | 6,660 | 8,943 | 7,453 | 12,245 | 16,121 | 6,359 | 10,125 | 14,000 | 5,749 | 4,519 | 4,585 |
| 1984 | 2,309 | 14,317 | 15,099 | 6,380 | 5,441 | 2,403 | 2,343 | 3,061 | 3,684 | 4,713 | 2,446 | 1,699 |
| 1985 | 1,996 | 2,124 | 2,064 | 2,366 | 2,007 | 1,597 | 804 | 1,143 | 3,168 | 2,234 | 1,994 | 731 |
| 1986 | 1,875 | 1,985 | 1,966 | 2,318 | 32,820 | 10,783 | 2,375 | 3,092 | 3,052 | 5,085 | 3,304 | 1,730 |
| 1987 | 1,994 | 2,044 | 2,081 | 1,673 | 1,335 | 1,055 | 314 | 370 | 331 | 1,216 | 388 | 375 |
| 1988 | 1,857 | 1,508 | 1,580 | 1,238 | 1,362 | 1,051 | 349 | 307 | 1,883 | 859 | 248 | 292 |
| 1989 | 913 | 956 | 991 | 1,322 | 1,277 | 5,792 | 3,532 | 2,143 | 4,246 | 2,738 | 3,223 | 1,063 |
| 1990 | 1,523 | 1,523 | 1,520 | 1,263 | 1,323 | 983 | 2,579 | 879 | 2,262 | 1,174 | 1,116 | 558 |
| 1991 | 924 | 935 | 971 | 742 | 250 | 1,508 | 1,314 | 1,799 | 2,711 | 2,206 | 992 | 1,033 |
| Avg (cfs) | 1,890 | 2,438 | 3,448 | 3,991 | 4,551 | 3,594 | 3,101 | 3,259 | 3,756 | 2,684 | 2,334 | 1,852 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 30 | 34 | 27 | 39 | 33 | 37 | 36 | 34 | 27 | 18 | 21 | 36 |
| Percent of Months | 43% | 49% | 39% | 56% | 47% | 53% | 51% | 49% | 39% | 26% | 30% | 51% |

New Tool
New Data Criteria

OCAP - CHANGES (STUDY 5)
OPERATIONS CRITERIA & PLAN
CENTRAL JURY PROCEED
CUPIA - COMPLIANCE
W/O UPSTREAM REDUCTIONS
NEW MODEL

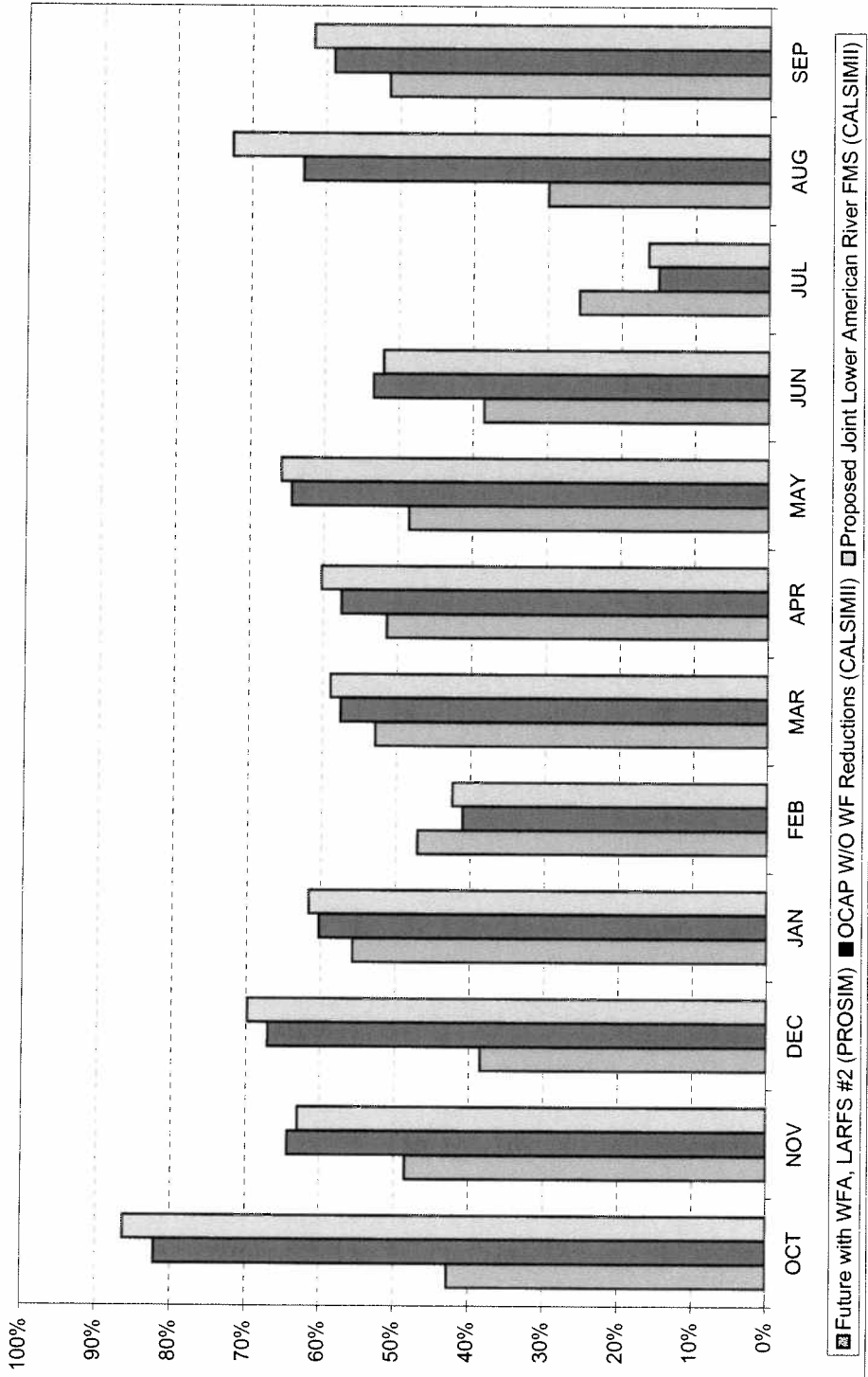
OCAP W/O WF Reductions (CALSIMII)
Flow Below H Street (cfs)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1922 | 1,241 | 1,764 | 1,667 | 1,214 | 5,954 | 3,193 | 3,936 | 8,850 | 8,577 | 3,264 | 1,896 | 3,403 |
| 1923 | 1,640 | 2,727 | 6,465 | 4,324 | 2,832 | 2,483 | 3,319 | 3,934 | 2,277 | 4,590 | 2,202 | 1,987 |
| 1924 | 1,545 | 1,820 | 1,780 | 1,679 | 1,574 | 766 | 391 | 360 | 660 | 512 | 411 | 1,471 |
| 1925 | 375 | 375 | 500 | 1,163 | 4,082 | 4,839 | 1,541 | 3,447 | 4,590 | 4,565 | 1,097 | 375 |
| 1926 | 1,692 | 1,844 | 1,835 | 1,771 | 2,407 | 1,638 | 2,082 | 2,034 | 3,208 | 2,138 | 1,142 | 724 |
| 1927 | 1,387 | 500 | 938 | 3,422 | 13,260 | 4,182 | 7,268 | 4,039 | 4,629 | 4,567 | 1,149 | 2,834 |
| 1928 | 1,837 | 2,916 | 2,120 | 1,642 | 2,058 | 12,650 | 4,188 | 2,076 | 2,674 | 4,088 | 1,264 | 1,127 |
| 1929 | 1,529 | 1,665 | 1,476 | 1,050 | 353 | 617 | 572 | 1,044 | 1,516 | 1,467 | 1,208 | 712 |
| 1930 | 1,536 | 1,380 | 500 | 485 | 1,780 | 2,299 | 1,472 | 1,536 | 2,116 | 3,188 | 1,331 | 1,151 |
| 1931 | 2,444 | 1,966 | 500 | 410 | 1,283 | 912 | 280 | 332 | 833 | 724 | 549 | 625 |
| 1932 | 1,738 | 375 | 500 | 1,332 | 2,348 | 1,883 | 1,777 | 2,683 | 4,603 | 4,589 | 3,789 | 1,436 |
| 1933 | 2,372 | 2,129 | 1,615 | 1,213 | 339 | 573 | 3,566 | 715 | 2,474 | 1,828 | 1,310 | 815 |
| 1934 | 1,402 | 819 | 500 | 1,493 | 469 | 1,206 | 3,138 | 1,156 | 1,194 | 522 | 1,500 | 916 |
| 1935 | 1,523 | 375 | 500 | 438 | 1,354 | 1,050 | 6,332 | 4,107 | 3,008 | 4,561 | 2,936 | 1,435 |
| 1936 | 2,336 | 1,846 | 1,667 | 4,801 | 13,228 | 3,809 | 4,963 | 3,388 | 4,152 | 4,586 | 2,544 | 1,950 |
| 1937 | 2,411 | 1,896 | 1,758 | 1,613 | 2,541 | 4,296 | 3,796 | 3,262 | 3,666 | 4,583 | 1,823 | 1,583 |
| 1938 | 1,538 | 1,825 | 5,370 | 2,582 | 9,636 | 10,765 | 7,326 | 8,907 | 8,052 | 2,573 | 3,598 | 3,727 |
| 1939 | 1,548 | 2,018 | 1,847 | 1,381 | 1,697 | 885 | 1,037 | 1,112 | 1,251 | 1,494 | 523 | 281 |
| 1940 | 1,583 | 1,441 | 671 | 2,780 | 10,287 | 10,563 | 5,293 | 2,490 | 3,812 | 4,477 | 811 | 1,458 |
| 1941 | 1,867 | 2,071 | 2,941 | 5,562 | 7,798 | 4,566 | 3,443 | 4,406 | 2,535 | 2,331 | 2,626 | 3,605 |
| 1942 | 1,550 | 2,218 | 5,478 | 8,989 | 9,681 | 2,138 | 5,756 | 6,102 | 6,467 | 3,569 | 2,388 | 3,654 |
| 1943 | 1,505 | 3,966 | 4,494 | 10,578 | 6,889 | 12,375 | 4,527 | 2,720 | 1,682 | 4,595 | 1,147 | 2,938 |
| 1944 | 1,895 | 1,830 | 1,798 | 1,327 | 1,754 | 1,216 | 1,524 | 2,205 | 2,429 | 2,236 | 265 | 375 |
| 1945 | 1,920 | 1,814 | 2,014 | 1,505 | 9,039 | 1,726 | 1,932 | 2,666 | 2,931 | 4,579 | 734 | 1,974 |
| 1946 | 1,987 | 3,713 | 8,685 | 4,807 | 2,924 | 2,199 | 3,112 | 2,978 | 3,205 | 4,594 | 986 | 705 |
| 1947 | 2,451 | 1,986 | 1,779 | 1,268 | 1,765 | 2,058 | 1,925 | 1,690 | 1,728 | 1,993 | 638 | 1,360 |
| 1948 | 1,614 | 1,629 | 1,445 | 1,046 | 350 | 697 | 2,270 | 3,063 | 4,340 | 4,170 | 1,859 | 2,288 |
| 1949 | 1,691 | 1,841 | 1,877 | 1,343 | 1,708 | 2,117 | 2,741 | 2,671 | 3,875 | 3,454 | 991 | 375 |
| 1950 | 1,536 | 1,778 | 1,853 | 2,107 | 5,350 | 2,845 | 4,206 | 3,416 | 3,317 | 4,573 | 1,414 | 2,808 |
| 1951 | 2,490 | 16,545 | 15,903 | 9,977 | 7,993 | 3,439 | 2,338 | 2,929 | 2,260 | 4,597 | 1,775 | 936 |
| 1952 | 1,602 | 2,111 | 5,687 | 8,869 | 9,146 | 5,929 | 8,175 | 10,704 | 9,700 | 3,550 | 4,063 | 3,928 |
| 1953 | 1,490 | 2,297 | 2,503 | 6,989 | 1,373 | 1,529 | 2,217 | 2,519 | 5,304 | 4,568 | 2,318 | 3,200 |
| 1954 | 1,524 | 2,438 | 1,832 | 1,843 | 3,037 | 4,187 | 3,957 | 2,671 | 2,420 | 3,003 | 1,750 | 1,012 |
| 1955 | 1,522 | 1,675 | 1,528 | 1,108 | 1,039 | 1,107 | 1,190 | 2,234 | 2,267 | 2,145 | 1,649 | 375 |
| 1956 | 1,562 | 1,673 | 15,278 | 16,287 | 5,885 | 2,239 | 2,087 | 5,381 | 5,114 | 3,991 | 1,916 | 3,708 |
| 1957 | 1,567 | 2,193 | 1,980 | 1,481 | 2,894 | 4,200 | 1,714 | 2,307 | 3,345 | 4,560 | 2,200 | 1,879 |
| 1958 | 1,592 | 1,730 | 1,600 | 1,740 | 9,445 | 6,480 | 10,127 | 9,397 | 6,984 | 2,213 | 3,650 | 3,692 |
| 1959 | 1,507 | 1,806 | 1,826 | 1,427 | 2,955 | 1,461 | 1,189 | 1,560 | 2,416 | 4,607 | 250 | 375 |
| 1960 | 500 | 500 | 500 | 250 | 414 | 3,055 | 3,106 | 1,763 | 1,567 | 1,972 | 1,493 | 1,136 |
| 1961 | 1,526 | 1,556 | 1,337 | 997 | 351 | 681 | 791 | 1,331 | 928 | 3,698 | 250 | 375 |
| 1962 | 500 | 500 | 500 | 250 | 605 | 1,801 | 3,264 | 2,632 | 1,546 | 4,602 | 1,140 | 1,603 |
| 1963 | 3,154 | 4,033 | 3,136 | 3,704 | 11,568 | 1,642 | 6,029 | 6,370 | 2,524 | 4,564 | 2,591 | 2,195 |
| 1964 | 1,577 | 3,199 | 1,963 | 2,217 | 1,961 | 929 | 1,132 | 1,522 | 3,004 | 2,280 | 1,601 | 1,574 |
| 1965 | 1,591 | 1,506 | 19,260 | 12,730 | 5,116 | 1,607 | 4,496 | 3,465 | 2,436 | 4,592 | 1,333 | 3,510 |
| 1966 | 1,615 | 2,678 | 2,380 | 1,777 | 1,795 | 1,294 | 1,469 | 1,841 | 1,252 | 2,624 | 340 | 1,125 |
| 1967 | 1,528 | 1,465 | 1,268 | 6,041 | 4,088 | 5,849 | 3,652 | 7,672 | 9,725 | 3,131 | 3,581 | 3,856 |
| 1968 | 1,508 | 2,709 | 2,415 | 1,809 | 5,931 | 1,862 | 1,276 | 1,362 | 1,328 | 3,727 | 250 | 375 |
| 1969 | 1,565 | 1,637 | 1,484 | 14,165 | 8,964 | 3,438 | 5,946 | 8,457 | 5,832 | 3,691 | 2,289 | 3,223 |
| 1970 | 1,545 | 2,390 | 5,479 | 20,842 | 5,798 | 2,143 | 1,635 | 2,665 | 2,203 | 4,605 | 688 | 1,234 |
| 1971 | 1,573 | 1,603 | 3,669 | 4,481 | 3,612 | 3,185 | 2,635 | 2,422 | 4,155 | 4,590 | 1,715 | 2,737 |
| 1972 | 1,524 | 2,212 | 2,672 | 1,912 | 2,613 | 3,722 | 1,430 | 1,705 | 4,326 | 4,549 | 250 | 843 |
| 1973 | 1,607 | 1,600 | 1,393 | 7,901 | 6,903 | 3,179 | 2,284 | 3,196 | 4,580 | 3,828 | 491 | 494 |
| 1974 | 1,607 | 7,445 | 7,067 | 11,412 | 4,153 | 9,154 | 5,612 | 4,153 | 3,441 | 2,605 | 3,620 | 3,763 |
| 1975 | 1,540 | 1,849 | 1,880 | 1,330 | 3,849 | 4,460 | 2,769 | 3,450 | 5,529 | 3,455 | 2,085 | 3,573 |
| 1976 | 1,608 | 3,433 | 1,824 | 1,334 | 511 | 580 | 391 | 548 | 516 | 1,010 | 354 | 281 |
| 1977 | 1,545 | 1,601 | 500 | 365 | 344 | 318 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 375 | 500 | 1,749 | 4,652 | 5,839 | 3,111 | 2,818 | 3,477 | 4,573 | 2,484 | 2,215 |
| 1979 | 1,511 | 1,864 | 1,624 | 1,260 | 3,261 | 3,165 | 1,883 | 3,127 | 4,572 | 3,191 | 740 | 664 |
| 1980 | 1,621 | 1,857 | 1,987 | 18,006 | 12,997 | 3,238 | 2,010 | 2,320 | 2,479 | 3,248 | 2,554 | 3,580 |
| 1981 | 1,936 | 1,805 | 1,828 | 1,384 | 668 | 1,513 | 1,446 | 1,710 | 1,196 | 3,253 | 188 | 281 |
| 1982 | 1,542 | 3,057 | 14,154 | 7,791 | 14,998 | 7,385 | 14,070 | 8,561 | 5,244 | 2,277 | 3,524 | 4,254 |
| 1983 | 1,899 | 7,885 | 8,899 | 7,387 | 12,258 | 16,335 | 6,256 | 9,905 | 13,672 | 5,097 | 4,243 | 4,586 |
| 1984 | 1,511 | 15,513 | 14,841 | 6,407 | 5,582 | 2,298 | 1,557 | 2,373 | 2,711 | 4,602 | 796 | 2,406 |
| 1985 | 1,577 | 3,804 | 2,280 | 1,838 | 1,757 | 1,353 | 1,871 | 2,008 | 2,419 | 1,982 | 1,515 | 700 |
| 1986 | 1,749 | 500 | 500 | 3,730 | 32,713 | 10,712 | 2,101 | 2,229 | 2,595 | 4,594 | 1,643 | 2,570 |
| 1987 | 2,127 | 1,810 | 1,647 | 1,221 | 473 | 744 | 1,486 | 1,050 | 1,356 | 1,110 | 333 | 420 |
| 1988 | 1,562 | 375 | 1,452 | 1,039 | 566 | 829 | 527 | 1,433 | 1,042 | 688 | 495 | 281 |
| 1989 | 395 | 379 | 500 | 1,369 | 1,287 | 6,795 | 3,083 | 2,836 | 4,477 | 2,518 | 647 | 1,594 |
| 1990 | 1,641 | 1,712 | 1,523 | 1,170 | 1,388 | 683 | 1,777 | 714 | 1,332 | 1,321 | 919 | 482 |
| 1991 | 1,544 | 375 | 500 | 352 | 382 | 524 | 1,460 | 1,511 | 1,760 | 3,233 | 1,131 | 1,320 |
| 1992 | 1,574 | 1,326 | 500 | 373 | 480 | 964 | 2,373 | 1,490 | 586 | 410 | 188 | 281 |
| 1993 | 375 | 375 | 500 | 2,464 | 5,922 | 7,311 | 3,321 | 4,735 | 4,745 | 4,568 | 2,610 | 2,198 |
| 1994 | 1,531 | 3,234 | 1,817 | 1,333 | 488 | 1,014 | 784 | 1,447 | 1,140 | 4,620 | 188 | 281 |
| Avg (cfs) | 1,598 | 2,372 | 3,102 | 3,773 | 4,624 | 3,434 | 3,068 | 3,179 | 3,364 | 3,269 | 1,536 | 1,746 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 60 | 47 | 49 | 44 | 30 | 42 | 42 | 47 | 39 | 11 | 46 | 43 |
| Percent of Months | 82% | 64% | 67% | 60% | 41% | 58% | 58% | 64% | 53% | 15% | 63% | 59% |

Proposed Joint Lower American River FMS (CALSIMII)
Flow Below H Street (cfs)

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1922 | 1,429 | 1,773 | 1,944 | 1,620 | 4,976 | 3,203 | 3,934 | 8,849 | 8,577 | 3,264 | 1,896 | 3,403 |
| 1923 | 1,478 | 2,895 | 6,464 | 4,324 | 2,831 | 1,621 | 4,214 | 3,924 | 2,177 | 4,591 | 1,724 | 2,582 |
| 1924 | 1,483 | 1,745 | 1,839 | 1,587 | 1,385 | 1,092 | 545 | 461 | 492 | 430 | 461 | 1,318 |
| 1925 | 697 | 655 | 727 | 658 | 3,852 | 4,841 | 1,451 | 3,534 | 4,590 | 4,565 | 1,358 | 1,249 |
| 1926 | 1,609 | 1,770 | 1,860 | 1,577 | 1,539 | 704 | 3,063 | 1,989 | 3,226 | 2,132 | 1,148 | 610 |
| 1927 | 1,088 | 1,045 | 957 | 3,297 | 13,261 | 4,182 | 7,270 | 4,041 | 4,631 | 4,567 | 1,359 | 2,617 |
| 1928 | 1,967 | 2,783 | 2,122 | 1,643 | 2,059 | 12,651 | 4,189 | 2,033 | 2,536 | 4,207 | 1,463 | 1,247 |
| 1929 | 1,278 | 1,560 | 1,627 | 1,336 | 1,115 | 1,174 | 1,026 | 928 | 1,226 | 1,179 | 1,217 | 1,226 |
| 1930 | 624 | 656 | 766 | 764 | 695 | 2,609 | 1,469 | 1,413 | 2,036 | 3,295 | 1,381 | 1,253 |
| 1931 | 2,444 | 1,527 | 1,583 | 1,380 | 1,123 | 807 | 596 | 658 | 207 | 188 | 677 | 630 |
| 1932 | 1,747 | 662 | 794 | 670 | 1,562 | 1,892 | 1,448 | 2,857 | 4,601 | 4,589 | 3,801 | 1,231 |
| 1933 | 2,307 | 2,128 | 1,868 | 1,600 | 1,280 | 1,323 | 1,872 | 1,136 | 2,336 | 1,660 | 1,395 | 1,252 |
| 1934 | 951 | 805 | 740 | 670 | 688 | 1,322 | 2,885 | 922 | 1,552 | 685 | 1,249 | 1,125 |
| 1935 | 1,474 | 700 | 683 | 735 | 643 | 1,664 | 5,533 | 4,163 | 2,958 | 4,562 | 2,935 | 1,218 |
| 1936 | 2,084 | 1,762 | 1,859 | 5,154 | 13,225 | 3,809 | 4,963 | 3,388 | 4,152 | 4,586 | 2,597 | 1,913 |
| 1937 | 2,311 | 1,720 | 1,883 | 1,592 | 2,707 | 4,297 | 3,796 | 3,262 | 3,667 | 4,583 | 1,831 | 1,373 |
| 1938 | 1,289 | 1,813 | 5,806 | 2,578 | 9,636 | 10,765 | 7,326 | 8,907 | 8,052 | 2,573 | 3,598 | 3,727 |
| 1939 | 1,298 | 2,278 | 1,844 | 1,561 | 1,277 | 680 | 1,095 | 1,198 | 1,338 | 1,749 | 607 | 549 |
| 1940 | 1,115 | 1,096 | 1,138 | 2,646 | 10,288 | 10,563 | 5,293 | 2,490 | 3,792 | 4,495 | 1,366 | 1,247 |
| 1941 | 1,706 | 2,030 | 2,799 | 5,564 | 7,798 | 4,566 | 3,443 | 4,406 | 2,485 | 1,785 | 3,222 | 3,600 |
| 1942 | 1,300 | 2,478 | 5,476 | 8,989 | 9,681 | 2,138 | 5,756 | 6,101 | 6,467 | 3,568 | 2,389 | 3,654 |
| 1943 | 1,255 | 4,226 | 4,492 | 10,578 | 6,889 | 12,374 | 4,526 | 1,966 | 2,313 | 4,589 | 1,360 | 2,875 |
| 1944 | 1,046 | 1,757 | 1,860 | 1,573 | 1,401 | 1,623 | 1,520 | 1,436 | 2,536 | 2,461 | 1,381 | 1,244 |
| 1945 | 1,553 | 1,648 | 1,691 | 1,595 | 8,118 | 1,734 | 1,697 | 2,815 | 2,932 | 4,579 | 1,356 | 1,409 |
| 1946 | 1,832 | 3,880 | 8,684 | 4,807 | 2,914 | 2,209 | 3,112 | 2,979 | 3,206 | 4,594 | 1,370 | 1,260 |
| 1947 | 2,188 | 1,791 | 1,872 | 1,535 | 1,300 | 1,654 | 1,930 | 894 | 2,412 | 2,023 | 880 | 962 |
| 1948 | 1,367 | 1,473 | 1,509 | 1,259 | 1,050 | 1,651 | 1,601 | 2,450 | 4,346 | 4,169 | 1,334 | 2,834 |
| 1949 | 1,686 | 1,766 | 1,898 | 1,558 | 1,291 | 2,333 | 2,737 | 1,846 | 3,871 | 3,482 | 1,382 | 1,252 |
| 1950 | 1,571 | 1,767 | 1,857 | 1,608 | 5,347 | 2,843 | 4,206 | 3,416 | 3,317 | 4,573 | 1,556 | 2,660 |
| 1951 | 2,492 | 16,545 | 15,903 | 9,977 | 7,993 | 3,442 | 2,341 | 2,930 | 1,335 | 4,605 | 1,366 | 1,366 |
| 1952 | 1,378 | 3,229 | 5,677 | 8,869 | 9,146 | 5,930 | 8,175 | 10,704 | 9,700 | 3,550 | 4,064 | 3,927 |
| 1953 | 1,249 | 2,557 | 2,501 | 6,989 | 1,973 | 1,630 | 2,112 | 2,241 | 5,594 | 4,566 | 1,877 | 3,658 |
| 1954 | 1,270 | 2,698 | 1,829 | 1,684 | 3,214 | 4,185 | 3,958 | 2,524 | 2,420 | 3,002 | 1,379 | 1,243 |
| 1955 | 1,270 | 1,584 | 1,683 | 1,399 | 1,228 | 1,082 | 1,030 | 954 | 3,779 | 2,086 | 1,675 | 1,273 |
| 1956 | 1,299 | 1,538 | 14,821 | 16,291 | 5,885 | 1,505 | 1,890 | 6,307 | 5,106 | 3,991 | 1,916 | 3,708 |
| 1957 | 1,317 | 2,439 | 1,825 | 1,568 | 2,983 | 4,199 | 1,625 | 2,174 | 3,363 | 4,560 | 1,921 | 1,279 |
| 1958 | 1,347 | 1,745 | 1,878 | 2,307 | 9,923 | 6,476 | 10,129 | 9,398 | 6,984 | 2,213 | 3,650 | 3,692 |
| 1959 | 1,257 | 1,933 | 1,839 | 1,638 | 2,847 | 1,462 | 680 | 593 | 2,541 | 4,567 | 536 | 719 |
| 1960 | 582 | 613 | 662 | 710 | 697 | 2,639 | 3,039 | 1,238 | 2,179 | 1,928 | 1,495 | 1,225 |
| 1961 | 1,275 | 1,475 | 1,447 | 1,237 | 1,005 | 854 | 692 | 643 | 586 | 3,694 | 602 | 706 |
| 1962 | 583 | 682 | 683 | 683 | 799 | 1,626 | 1,990 | 1,394 | 1,349 | 4,603 | 1,739 | 1,244 |
| 1963 | 4,322 | 4,023 | 3,136 | 3,704 | 11,568 | 1,599 | 6,073 | 6,370 | 2,364 | 4,565 | 1,341 | 2,281 |
| 1964 | 1,327 | 4,818 | 2,008 | 2,157 | 2,011 | 1,506 | 1,345 | 1,378 | 2,300 | 2,286 | 1,559 | 1,526 |
| 1965 | 1,505 | 1,438 | 19,501 | 12,728 | 5,116 | 1,606 | 4,497 | 3,465 | 2,436 | 4,592 | 1,390 | 3,451 |
| 1966 | 1,372 | 2,931 | 1,870 | 1,751 | 1,664 | 806 | 1,363 | 638 | 3,774 | 2,532 | 614 | 697 |
| 1967 | 1,283 | 1,515 | 1,493 | 6,225 | 4,086 | 5,849 | 3,652 | 7,672 | 9,725 | 3,131 | 3,581 | 3,856 |
| 1968 | 1,258 | 2,969 | 1,835 | 1,855 | 6,502 | 1,857 | 933 | 901 | 2,152 | 3,696 | 868 | 952 |
| 1969 | 1,054 | 1,141 | 1,143 | 14,334 | 8,963 | 3,438 | 5,950 | 8,457 | 5,832 | 3,690 | 2,289 | 3,224 |
| 1970 | 1,295 | 2,650 | 5,477 | 20,842 | 5,798 | 2,145 | 1,475 | 1,418 | 2,619 | 4,601 | 1,372 | 1,259 |
| 1971 | 1,323 | 1,628 | 4,177 | 4,477 | 3,617 | 3,180 | 2,637 | 2,314 | 4,266 | 4,589 | 1,374 | 3,091 |
| 1972 | 1,270 | 2,472 | 2,670 | 1,730 | 2,809 | 3,720 | 1,430 | 1,412 | 4,608 | 4,530 | 1,365 | 1,289 |
| 1973 | 807 | 878 | 838 | 8,469 | 6,898 | 3,179 | 1,861 | 3,607 | 4,350 | 3,823 | 1,371 | 1,262 |
| 1974 | 1,347 | 6,264 | 7,077 | 11,412 | 4,153 | 9,156 | 5,613 | 4,154 | 3,442 | 2,605 | 3,620 | 3,763 |
| 1975 | 1,290 | 2,058 | 1,882 | 1,534 | 3,672 | 4,462 | 1,662 | 4,526 | 5,519 | 3,456 | 2,084 | 3,573 |
| 1976 | 1,358 | 3,693 | 1,822 | 1,534 | 1,289 | 764 | 665 | 600 | 567 | 564 | 612 | 666 |
| 1977 | 587 | 639 | 650 | 661 | 637 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 380 | 500 | 1,739 | 4,652 | 5,839 | 3,111 | 2,818 | 3,477 | 4,573 | 1,356 | 2,716 |
| 1979 | 1,393 | 1,848 | 1,845 | 1,857 | 3,423 | 3,163 | 1,460 | 3,536 | 4,568 | 3,200 | 1,529 | 1,368 |
| 1980 | 1,364 | 1,784 | 1,901 | 16,938 | 13,007 | 3,238 | 2,010 | 2,320 | 2,479 | 3,248 | 2,554 | 3,580 |
| 1981 | 1,773 | 1,731 | 1,870 | 1,615 | 1,274 | 920 | 497 | 466 | 2,865 | 3,196 | 422 | 838 |
| 1982 | 1,101 | 3,609 | 14,150 | 7,791 | 14,998 | 7,385 | 14,070 | 8,561 | 5,244 | 2,277 | 3,524 | 4,254 |
| 1983 | 1,899 | 7,885 | 8,899 | 7,391 | 12,262 | 16,338 | 6,258 | 9,906 | 13,673 | 5,097 | 4,244 | 4,566 |
| 1984 | 1,266 | 15,767 | 14,838 | 6,408 | 5,582 | 2,298 | 1,557 | 1,879 | 2,605 | 4,603 | 1,382 | 2,401 |
| 1985 | 1,399 | 3,995 | 2,278 | 1,588 | 1,484 | 1,242 | 1,513 | 982 | 3,627 | 2,284 | 1,560 | 1,053 |
| 1986 | 1,840 | 1,426 | 1,384 | 1,925 | 32,731 | 10,710 | 2,101 | 2,227 | 2,592 | 4,594 | 1,627 | 2,571 |
| 1987 | 1,965 | 1,737 | 1,847 | 1,569 | 1,321 | 734 | 551 | 994 | 1,392 | 1,050 | 452 | 528 |
| 1988 | 975 | 1,032 | 1,086 | 893 | 828 | 709 | 188 | 379 | 707 | 450 | 188 | 281 |
| 1989 | 722 | 804 | 821 | 783 | 1,808 | 8,049 | 3,072 | 2,828 | 4,403 | 2,568 | 1,379 | 1,344 |
| 1990 | 1,360 | 1,534 | 1,578 | 1,385 | 1,144 | 1,013 | 1,772 | 950 | 1,102 | 1,133 | 830 | 902 |
| 1991 | 1,099 | 1,147 | 1,169 | 957 | 818 | 949 | 649 | 616 | 1,390 | 2,885 | 1,388 | 1,245 |
| 1992 | 624 | 627 | 679 | 670 | 774 | 250 | 2,549 | 872 | 744 | 413 | 188 | 281 |
| 1993 | 647 | 619 | 754 | 2,846 | 5,918 | 7,312 | 3,321 | 4,735 | 4,745 | 4,568 | 1,528 | 3,072 |
| 1994 | 1,273 | 3,744 | 1,848 | 1,560 | 1,322 | 915 | 812 | 850 | 1,048 | 4,621 | 771 | 872 |
| Avg (cfs) | 1,405 | 2,439 | 3,184 | 3,821 | 4,654 | 3,451 | 2,945 | 2,980 | 3,449 | 3,242 | 1,631 | 1,895 |
| Hodge (cfs) | 1,875 | 2,000 | 2,000 | 2,000 | 2,000 | 3,000 | 3,000 | 3,000 | 3,000 | 1,750 | 1,750 | 1,750 |
| Count | 63 | 46 | 51 | 45 | 31 | 43 | 44 | 48 | 38 | 12 | 53 | 45 |
| Percent of Months | 86% | 63% | 70% | 62% | 42% | 59% | 60% | 66% | 52% | 16% | 73% | 62% |

Percent of Months in which Flow Below H Street is Below Hodge





4-26-2005 5:37PM

FROM DANIEL B STEINER 916 7917712

P. 1

DANIEL B. STEINER
CONSULTING ENGINEER

FACSIMILE TRANSMITTAL SHEET

April 26, 2005

To: Buzz Link 916-286-0957

Receiving Number:

From: Daniel B. Steiner

Number of Pages (including cover): 8

Message:

The attached appears to be the last work I performed for Jim and Bill regarding the frequency a "curtailment" might occur with the "City Rule". I couldn't find the final spreadsheet that put the numbers together, but the math seems to be simple. I started with your "PROSIM/DWRSIM"?? H Street Flows (see email transmittal, and title on Table 4). The City "only" diversion from Node 16 is on Table 3 (these also came from your study). Do the math and you get to Table 1 showing the curtailments. Other than rounding, the curtailments seem to match the reduction schedule for the City. The bottom of Table 1 appears to be the cited statistics.

Give me a call please.

A Hard Copy of this Transmission () Will, (x) Will Not Be Mailed.

Return Facsimile Number: (916) 791-7712
Office Phone Number: (916) 791-2511

04/28/05

5

GaryR.pdf

P.O. BOX 2175, GRANITE BAY, CALIFORNIA 95746-2175
PHONE 916-791-2511 • FAX 916-791-7712

DANIEL B. STEINER
CONSULTING ENGINEER

FACSIMILE TRANSMITTAL SHEET

April 30, 2000

To:

Bill Dendy 530-758-0511

Receiving Number:

From: Daniel B. Steiner

Number of Pages (including cover): 5

Message:

Bill,

Here are some tables regarding the frequency of 'curtailment' at Fairbairn anticipated with the current LARS proposed release objectives. These values are from Buzz' studies for the future 2020 condition. Table 1 is the bottom line... 32 years out of 71 years (45 percent of the years) a curtailment in October, and so on. Table 2 (TAF) and Table 3 (cfs) are the supporting tables for the City's diversion. The study assumes a normal Fairbairn of 96 TAF per year. Table 4 shows the simulated flow below the City's diversion, and also shows the "Hodge trigger" that affects the City's diversion.

A Hard Copy of this Transmission () Will, (x) Will Not Be Mailed.

Return Facsimile Number: (916) 791-7712

Office Phone Number: (916) 791-2511

DRS 4/29/00

TABLE 1

| City Curtailment CFS | Year | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|-------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | 1922 | | | | | | | | | | | | | |
| | 1923 | | | | | | | | | | | | | |
| | 1924 | | | | | | | | | | | | | |
| | 1925 | 65 | 49 | 39 | 37 | 38 | 42 | 55 | 72 | 88 | 99 | 96 | 82 | |
| | 1926 | | | | | | | | 33 | 28 | | 46 | 52 | |
| | 1927 | | | | | | | | | | | | | |
| | 1928 | 16 | | | | | | | 33 | | | | 52 | |
| | 1929 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1930 | 36 | | | | | | | 33 | 29 | | 46 | 52 | |
| | 1931 | | | | | | | | 33 | 29 | | 46 | 52 | |
| | 1932 | 36 | | | | | | | | | | | | |
| | 1933 | | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1934 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1935 | 36 | | | | | | | | | | | | |
| | 1936 | | | | | | | | | | | | | |
| | 1937 | | | | | | | | | | | 46 | | |
| | 1938 | | | | | | | | | | | | | |
| | 1939 | | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1940 | 36 | | | | | | | 33 | 29 | | | 52 | |
| | 1941 | 36 | | | | | | | | | | | | |
| | 1942 | | | | | | | | | | | | | |
| | 1943 | | | | | | | | | | | | | |
| | 1944 | | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1945 | | | | | | | | | | | | | |
| | 1946 | 36 | | | | | | | | | | | | |
| | 1947 | 36 | | | | | | | 33 | 29 | | 46 | 52 | |
| | 1948 | | | | | | | | | | | | | |
| | 1949 | 36 | | | | | | | 33 | | | | 52 | |
| | 1950 | | | | | | | | | | | | | |
| | 1951 | | | | | | | | | 29 | | | 52 | |
| | 1952 | 36 | | | | | | | | | | | | |
| | 1953 | | | | | | | | | | | | | |
| | 1954 | | | | | | | | 33 | | 50 | | 52 | |
| | 1955 | 36 | | | | | | | 33 | 29 | 50 | | 52 | |
| | 1956 | 36 | | | | | | | | | | | | |
| | 1957 | | | | | | | | | | | | | |
| | 1958 | 36 | | | | | | | | | | | | |
| | 1959 | | | | | | | | 33 | 29 | 50 | | 52 | |
| | 1960 | 36 | | | | | | | 33 | 29 | | | 52 | |
| | 1961 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1962 | 36 | | | | | | | 33 | 29 | | | | |
| | 1963 | | | | | | | | | | | | | |
| | 1964 | | | | | | | | 33 | 29 | | 46 | 52 | |
| | 1965 | | | | | | | | | | | | | |
| | 1966 | | | | | | | | 33 | 29 | 50 | | 52 | |
| | 1967 | 36 | | | | | | | | | | | | |
| | 1968 | | | | | | | | 33 | | 50 | | | |
| | 1969 | 36 | | | | | | | | | | | | |
| | 1970 | | | | | | | | 33 | 29 | | | 52 | |
| | 1971 | 36 | | | | | | | | | | | | |
| | 1972 | | | | | | | | 33 | | 50 | | 52 | |
| | 1973 | 36 | | | | | | | | | | | 52 | |
| | 1974 | 36 | | | | | | | | | | | | |
| | 1975 | | | | | | | | | | | | | |
| | 1976 | | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1977 | 36 | | | | | | | 72 | 88 | 99 | 96 | 82 | |
| | 1978 | 65 | 49 | 39 | 37 | 38 | 42 | 55 | | | | | | |
| | 1979 | | | | | | | | 33 | | | | 52 | |
| | 1980 | 36 | | | | | | | | | | | | |
| | 1981 | | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1982 | | | | | | | | | | | | | |
| | 1983 | | | | | | | | | | | | | |
| | 1984 | | | | | | | | | | | | | 52 |
| | 1985 | | | | | | | | 33 | | | | | 52 |
| | 1986 | 11 | | | | | | | | | | | | 52 |
| | 1987 | | | | | | | | | | | | | 52 |
| | 1988 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1989 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1990 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| | 1991 | 36 | | | | | | | 33 | 29 | 50 | 46 | 52 | |
| Number | | 32 | 2 | 2 | 2 | 2 | 2 | 2 | 34 | 27 | 19 | 21 | 37 | |
| Percent | | 45 | 3 | 3 | 3 | 3 | 3 | 3 | 48 | 38 | 27 | 30 | 52 | |

DBS 4/29/00

TABLE 2

City only portion of Node 16 Diversion
TAF

| Year | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-------|
| 1922 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1923 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 98.3 |
| 1924 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 2.7 | 3.6 | 4.9 | 5.6 | 6.6 | 6.4 | 5.3 | 63.8 |
| 1925 | 4.4 | 3.1 | 2.7 | 2.5 | 2.3 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 10.1 | 10.2 | 80.4 |
| 1926 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 9.5 | 7.1 | 86.7 |
| 1927 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1928 | 7.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 12.7 | 12.3 | 7.1 | 90.2 |
| 1929 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 81.4 |
| 1930 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 9.5 | 7.1 | 84.5 |
| 1931 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 9.5 | 7.1 | 86.7 |
| 1932 | 8.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1933 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 83.6 |
| 1934 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 81.4 |
| 1935 | 8.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1936 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 8.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1937 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 9.5 | 10.2 | 93.5 |
| 1938 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1939 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 83.6 |
| 1940 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 12.3 | 7.1 | 87.3 |
| 1941 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1942 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1943 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 7.1 | 93.2 |
| 1944 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 83.6 |
| 1945 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1946 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1947 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 9.5 | 7.1 | 84.5 |
| 1948 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1949 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 12.7 | 12.3 | 7.1 | 89 |
| 1950 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1951 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 7.1 | 91.5 |
| 1952 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1953 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1954 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 9.6 | 12.3 | 7.1 | 88.1 |
| 1955 | 8.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 12.3 | 7.1 | 84.2 |
| 1956 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1957 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1958 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1959 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 12.3 | 7.1 | 86.4 |
| 1960 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 12.3 | 7.1 | 87.3 |
| 1961 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 81.4 |
| 1962 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 12.3 | 10.2 | 90.4 |
| 1963 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1964 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 9.5 | 7.1 | 86.7 |
| 1965 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1966 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 12.3 | 7.1 | 86.4 |
| 1967 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1968 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 9.6 | 12.3 | 10.2 | 91.2 |
| 1969 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1970 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 12.3 | 7.1 | 89.5 |
| 1971 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1972 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 9.6 | 12.3 | 7.1 | 88.1 |
| 1973 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 7.1 | 91 |
| 1974 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1975 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1976 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 83.6 |
| 1977 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 2.7 | 3.6 | 4.9 | 5.6 | 6.6 | 6.4 | 5.3 | 61.6 |
| 1978 | 4.4 | 3.1 | 2.7 | 2.5 | 2.3 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 82.6 |
| 1979 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 12.7 | 12.3 | 7.1 | 91.2 |
| 1980 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 94.1 |
| 1981 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 83.6 |
| 1982 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1983 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 10.2 | 96.3 |
| 1984 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 7.1 | 93.2 |
| 1985 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 12.7 | 12.3 | 7.1 | 91.2 |
| 1986 | 7.7 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 9.3 | 10.9 | 12.7 | 12.3 | 7.1 | 92.5 |
| 1987 | 8.4 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 83.6 |
| 1988 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 81.4 |
| 1989 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 10.9 | 12.7 | 12.3 | 7.1 | 89 |
| 1990 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 9.6 | 9.5 | 7.1 | 81.4 |
| 1991 | 6.2 | 6 | 5.1 | 4.8 | 4.4 | 5.3 | 6.9 | 7.3 | 9.2 | 12.7 | 9.5 | 7.1 | 84.5 |

DES 4/29/00

TABLE 3

City only portion of Node 16 Diversion
CFS

| Year | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 1922 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1923 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1924 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1925 | 72 | 52 | 44 | 41 | 41 | 44 | 61 | 80 | 94 | 107 | 104 | 89 | |
| 1926 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1927 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1928 | 120 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1929 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1930 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1931 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1932 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1933 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1934 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1935 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1936 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1937 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1938 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1939 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1940 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1941 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1942 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1943 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1944 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1945 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1946 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1947 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1948 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1949 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1950 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1951 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1952 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1953 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1954 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1955 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1956 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1957 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1958 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1959 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1960 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1961 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1962 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1963 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1964 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1965 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1966 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1967 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1968 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1969 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1970 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1971 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1972 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1973 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1974 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1975 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1976 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1977 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1978 | 72 | 52 | 44 | 41 | 41 | 44 | 61 | 80 | 94 | 107 | 104 | 89 | |
| 1979 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1980 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1981 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1982 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1983 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1984 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1985 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1986 | 125 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1987 | 137 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1988 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1989 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1990 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |
| 1991 | 101 | 101 | 83 | 78 | 79 | 86 | 118 | 151 | 183 | 207 | 200 | 171 | |

DBS 4/29/00

TABLE 4

H st Flow
Future with WFA, LARFS #2, Deliveries fixed to WF Future
Equation is #to 16
Report is in ascending order by year

Units are in CFS

| Year | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1922 | 2,280 | 2,344 | 2,451 | 1,403 | 2,470 | 4,365 | 4,312 | 7,983 | 8,381 | 3,115 | 2,511 | 3,188 |
| 1923 | 2,299 | 2,399 | 6,036 | 4,327 | 2,822 | 2,829 | 3,000 | 4,054 | 3,755 | 2,874 | 4,292 | 1,940 |
| 1924 | 2,279 | 2,320 | 2,349 | 1,112 | 963 | 749 | 387 | 509 | 486 | 1,208 | 591 | 413 |
| 1925 | 1,033 | 1,004 | 1,082 | 1,168 | 3,658 | 3,042 | 3,263 | 3,848 | 4,906 | 2,052 | 1,750 | 2,209 |
| 1926 | 2,276 | 2,332 | 2,370 | 1,757 | 1,548 | 1,102 | 1,873 | 861 | 2,300 | 2,544 | 424 | 469 |
| 1927 | 2,318 | 2,436 | 2,371 | 3,127 | 13,214 | 4,293 | 7,853 | 4,267 | 4,820 | 6,162 | 3,419 | 2,220 |
| 1928 | 1,875 | 1,827 | 1,943 | 1,859 | 1,790 | 10,075 | 4,456 | 1,868 | 3,629 | 2,431 | 3,843 | 975 |
| 1929 | 1,527 | 1,561 | 1,604 | 1,240 | 971 | 923 | 880 | 1,201 | 1,866 | 1,303 | 700 | 745 |
| 1930 | 1,183 | 1,190 | 1,299 | 1,514 | 1,678 | 1,341 | 1,039 | 1,427 | 1,471 | 2,245 | 807 | 1,167 |
| 1931 | 2,276 | 2,334 | 2,334 | 1,564 | 1,358 | 1,041 | 447 | 721 | 677 | 2,384 | 442 | 487 |
| 1932 | 1,029 | 1,057 | 1,188 | 1,382 | 2,482 | 2,890 | 2,854 | 3,717 | 4,373 | 2,711 | 1,914 | 1,953 |
| 1933 | 2,231 | 2,277 | 2,340 | 1,880 | 1,431 | 1,516 | 1,429 | 1,963 | 1,911 | 1,083 | 1,066 | 1,112 |
| 1934 | 869 | 848 | 974 | 1,309 | 1,682 | 1,248 | 3,388 | 279 | 1,402 | 1,395 | 225 | 281 |
| 1935 | 796 | 864 | 856 | 1,248 | 1,608 | 2,982 | 4,758 | 3,975 | 3,706 | 2,240 | 3,677 | 2,698 |
| 1936 | 2,299 | 2,334 | 2,370 | 4,090 | 13,303 | 3,933 | 5,415 | 3,919 | 3,874 | 3,690 | 2,021 | 3,357 |
| 1937 | 2,273 | 2,314 | 2,395 | 1,566 | 1,579 | 4,220 | 3,835 | 4,074 | 3,190 | 2,168 | 1,725 | 3,189 |
| 1938 | 2,290 | 2,391 | 5,617 | 2,862 | 9,674 | 10,236 | 7,574 | 9,421 | 8,049 | 2,970 | 3,828 | 3,539 |
| 1939 | 2,282 | 2,322 | 2,359 | 1,739 | 1,458 | 1,164 | 295 | 521 | 1,474 | 1,424 | 348 | 403 |
| 1940 | 1,832 | 1,813 | 1,855 | 2,410 | 10,131 | 10,293 | 5,875 | 2,739 | 2,691 | 5,571 | 2,919 | 1,507 |
| 1941 | 1,862 | 1,890 | 2,034 | 4,904 | 7,828 | 4,583 | 3,422 | 4,978 | 3,834 | 1,999 | 2,286 | 3,483 |
| 1942 | 2,308 | 2,361 | 4,458 | 9,122 | 9,771 | 4,401 | 4,394 | 5,118 | 6,798 | 2,944 | 3,714 | 3,522 |
| 1943 | 2,286 | 3,262 | 4,558 | 10,739 | 6,662 | 11,851 | 4,889 | 3,087 | 3,055 | 6,025 | 2,571 | 1,705 |
| 1944 | 1,936 | 1,994 | 2,038 | 1,626 | 1,370 | 1,526 | 1,494 | 2,001 | 1,946 | 1,399 | 1,098 | 1,142 |
| 1945 | 2,010 | 2,095 | 2,088 | 1,635 | 5,822 | 2,502 | 2,408 | 3,165 | 4,540 | 4,533 | 2,062 | 2,101 |
| 1946 | 1,784 | 1,788 | 6,774 | 4,842 | 2,497 | 2,534 | 3,580 | 3,214 | 5,114 | 4,028 | 1,932 | 2,546 |
| 1947 | 1,680 | 1,731 | 1,752 | 1,631 | 1,373 | 1,092 | 721 | 1,039 | 2,463 | 2,173 | 617 | 682 |
| 1948 | 2,159 | 2,185 | 2,198 | 1,736 | 1,409 | 3,102 | 3,063 | 3,952 | 3,879 | 2,015 | 3,525 | 2,203 |
| 1949 | 1,836 | 1,649 | 1,726 | 1,332 | 1,083 | 1,881 | 1,737 | 2,353 | 3,449 | 2,585 | 2,752 | 1,433 |
| 1950 | 1,913 | 1,973 | 2,008 | 1,639 | 3,492 | 2,863 | 4,817 | 3,639 | 3,589 | 2,290 | 2,775 | 3,391 |
| 1951 | 2,331 | 15,868 | 16,191 | 9,919 | 7,944 | 3,509 | 2,728 | 3,112 | 2,872 | 5,392 | 2,908 | 1,764 |
| 1952 | 1,759 | 1,776 | 3,356 | 8,904 | 9,303 | 5,805 | 8,565 | 10,774 | 9,958 | 4,086 | 4,139 | 3,729 |
| 1953 | 2,282 | 2,388 | 2,472 | 6,109 | 2,340 | 3,473 | 3,446 | 4,266 | 4,226 | 2,196 | 2,211 | 2,240 |
| 1954 | 2,289 | 2,381 | 2,360 | 1,954 | 1,975 | 3,540 | 3,898 | 2,830 | 3,477 | 1,784 | 3,737 | 1,027 |
| 1955 | 1,720 | 1,779 | 1,832 | 1,498 | 1,740 | 1,591 | 1,685 | 2,103 | 2,056 | 1,145 | 2,333 | 1,206 |
| 1956 | 1,765 | 1,788 | 14,359 | 15,925 | 6,036 | 4,098 | 4,092 | 4,273 | 4,215 | 2,195 | 3,209 | 3,473 |
| 1957 | 2,307 | 2,325 | 2,354 | 1,901 | 1,627 | 3,361 | 2,542 | 3,328 | 3,815 | 4,312 | 2,383 | 1,776 |
| 1958 | 1,843 | 1,827 | 1,893 | 1,610 | 7,688 | 6,484 | 10,019 | 9,726 | 7,220 | 2,627 | 3,804 | 3,564 |
| 1959 | 2,284 | 2,330 | 2,367 | 1,681 | 1,918 | 1,439 | 439 | 653 | 2,372 | 427 | 2,308 | 720 |
| 1960 | 1,751 | 1,754 | 1,802 | 1,471 | 1,155 | 1,963 | 1,248 | 1,193 | 2,686 | 2,242 | 2,948 | 1,354 |
| 1961 | 1,757 | 1,837 | 1,503 | 1,450 | 1,121 | 878 | 498 | 750 | 701 | 467 | 470 | 517 |
| 1962 | 1,873 | 1,723 | 1,741 | 1,358 | 1,190 | 1,692 | 3,627 | 2,179 | 2,877 | 4,978 | 2,538 | 1,951 |
| 1963 | 1,888 | 2,509 | 2,955 | 3,413 | 11,868 | 3,368 | 4,036 | 6,716 | 4,205 | 5,342 | 2,190 | 2,230 |
| 1964 | 1,944 | 2,047 | 1,985 | 2,066 | 2,110 | 1,895 | 1,358 | 1,857 | 1,818 | 2,228 | 1,025 | 1,070 |
| 1965 | 1,922 | 1,982 | 18,863 | 13,080 | 5,287 | 2,942 | 3,205 | 3,755 | 3,712 | 6,175 | 2,302 | 1,981 |
| 1966 | 2,202 | 2,312 | 2,324 | 1,829 | 1,862 | 1,269 | 439 | 670 | 2,784 | 433 | 2,281 | 478 |
| 1967 | 1,844 | 1,868 | 881 | 980 | 250 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1968 | 2,279 | 2,346 | 2,385 | 2,197 | 5,062 | 1,917 | 632 | 926 | 3,061 | 736 | 1,802 | 2,154 |
| 1969 | 1,831 | 1,859 | 1,909 | 14,413 | 9,155 | 4,370 | 5,308 | 8,762 | 6,101 | 2,406 | 3,581 | 3,519 |
| 1970 | 2,299 | 2,347 | 4,814 | 20,788 | 6,109 | 2,147 | 1,603 | 2,163 | 2,800 | 2,360 | 3,501 | 1,227 |
| 1971 | 1,784 | 1,898 | 4,477 | 4,570 | 3,158 | 3,812 | 3,073 | 4,016 | 3,954 | 2,063 | 2,769 | 3,346 |
| 1972 | 2,286 | 2,344 | 2,427 | 2,269 | 2,103 | 3,289 | 1,378 | 1,850 | 4,673 | 1,665 | 3,872 | 1,088 |
| 1973 | 1,597 | 1,662 | 1,640 | 8,539 | 7,048 | 3,126 | 2,341 | 3,761 | 6,203 | 2,466 | 3,505 | 1,701 |
| 1974 | 1,597 | 3,112 | 7,204 | 11,022 | 3,844 | 8,460 | 5,938 | 4,493 | 4,226 | 2,436 | 3,771 | 3,631 |
| 1975 | 2,307 | 2,361 | 2,416 | 1,800 | 1,819 | 3,851 | 3,750 | 4,258 | 4,487 | 2,375 | 3,571 | 3,404 |
| 1976 | 2,326 | 2,533 | 2,382 | 2,129 | 1,653 | 1,295 | 390 | 598 | 2,077 | 1,442 | 573 | 447 |
| 1977 | 825 | 838 | 881 | 980 | 250 | 250 | 188 | 188 | 188 | 188 | 188 | 281 |
| 1978 | 375 | 375 | 500 | 1,958 | 4,576 | 5,482 | 3,874 | 3,593 | 3,551 | 5,895 | 2,944 | 1,906 |
| 1979 | 2,032 | 2,137 | 2,116 | 1,747 | 1,420 | 2,258 | 2,189 | 2,896 | 8,195 | 1,920 | 2,888 | 1,597 |
| 1980 | 1,517 | 1,617 | 1,680 | 15,197 | 13,558 | 3,119 | 2,684 | 3,485 | 3,438 | 3,684 | 3,853 | 1,841 |
| 1981 | 2,239 | 2,285 | 2,351 | 1,911 | 1,443 | 1,172 | 361 | 574 | 530 | 382 | 520 | 644 |
| 1982 | 2,109 | 5,298 | 13,977 | 8,107 | 14,947 | 7,470 | 14,063 | 8,897 | 5,716 | 2,824 | 3,757 | 3,984 |
| 1983 | 3,029 | 6,660 | 8,943 | 7,453 | 12,245 | 16,121 | 6,359 | 10,125 | 14,000 | 6,749 | 4,519 | 4,585 |
| 1984 | 2,309 | 14,317 | 15,099 | 6,380 | 5,441 | 2,403 | 2,343 | 3,061 | 3,684 | 4,713 | 2,448 | 1,699 |
| 1985 | 1,996 | 2,124 | 2,084 | 2,388 | 2,007 | 1,597 | 804 | 1,143 | 3,168 | 2,234 | 1,996 | 731 |
| 1986 | 1,875 | 1,985 | 1,968 | 2,318 | 32,820 | 10,783 | 2,375 | 3,092 | 3,052 | 5,085 | 3,304 | 1,730 |
| 1987 | 1,994 | 2,044 | 2,081 | 1,879 | 1,335 | 1,056 | 314 | 370 | 331 | 1,216 | 388 | 375 |
| 1988 | 1,857 | 1,508 | 1,580 | 1,238 | 1,362 | 1,051 | 349 | 307 | 1,883 | 899 | 248 | 293 |
| 1989 | 913 | 956 | 991 | 1,322 | 1,277 | 5,792 | 3,532 | 2,143 | 4,246 | 2,738 | 3,223 | 1,063 |
| 1990 | 1,523 | 1,523 | 1,520 | 1,263 | 1,323 | 983 | 2,579 | 879 | 2,262 | 1,174 | 1,116 | 558 |
| 1991 | 924 | 935 | 971 | 742 | 250 | 1,508 | 1,314 | 1,799 | 2,711 | 2,206 | 992 | 1,033 |
| Avg. | 1890.1 | 2438.2 | 3447.8 | 3990.7 | 4551 | 3584.2 | 3100.8 | 3259.2 | 3755.7 | 2683.8 | 2354.1 | 1852 |

Hodge Trigger
1875 2000 2000 2000 2000 3000 3000 3000 3000 1750 1750 1750

04/28/05

10

GaryR.pdf

4-26-2005 5:40PM

FROM DANIEL B STEINER 916 7917712

P. 7


City of Sac FWTP diversions for LARFS simulation


Subject: City of Sac FWTP diversions for LARFS simulation
Date: Wed, 26 Apr 2000 15:09:19 -0700
From: "Robert Leaf, Surface Water Resources, Inc." <leaf@swri.net>
To: steinerd@ix.netcom.com

Dan -

Buzz asked that I send the output directly to you.
 I have attached both a excel 'prn' file and the spreadsheet.

- R Leaf

| | |
|---|--|
|  City of sac.xls | Name: City_of_sac.xls Type: Microsoft Excel Worksheet (application/x-msexcel) Encoding: basc64 |
|---|--|

| | |
|---|--|
|  City of sac.prn | Name: City_of_sac.prn Type: Plain Text (text/plain) |
|---|--|

| | |
|-------------------------------|----------------------|
| Robert Leaf, P.E. | ph: 916.325.4057 |
| Water Resource Engineer | fax: 916.446.0143 |
| Surface Water Resources, Inc. | |
| 455 Capitol Mall, Suite 600 | email: leaf@swri.net |
| Sacramento, CA. 95814 | or leaf@calweb.com |

4-26-2005 5:40PM

FROM DANIEL B STEINER 916 7917712

P. 8

FW: LARFS2 City of Sac at H St


Subject: FW: LARFS2 City of Sac at H St
Date: Tue, 25 Apr 2000 09:33:49 -0700
From: Buzz Link <Link@SWRI.net>
To: Dan Steiner <steinerd@ix.netcom.com>

Dan:

I think this is what you asked for.

Buzz

> -----Original Message-----
> From: Robert Leaf, Surface Water Resources, Inc.
> [mailto:leaf@swri.net]
> Sent: Monday, April 24, 2000 7:09 PM
> To: Link@swri.net
> Subject: LARFS2 Fixed City of Sac at H St
>
>

| | |
|---|--|
|  winmail.dat | Name: winmail.dat Type: DAT File (application/x-unknown-content-type-dat_auto_file) Encoding: base64 |
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