

Water-Data Report 2012

10254730 Alamo River near Niland, CA

Salton Sea Basin

LOCATION.--Lat 33°11'56", long 115°35'46" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.23, T.11 S., R.13 E., Imperial County, CA, Hydrologic Unit 18100200, on left bank, 1.0 mi upstream from mouth, and 4.5 mi southwest of Niland.

DRAINAGE AREA.--Not determined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1943 to September 1960 (monthly discharge only, published in WSP 1743), October 1960 to current year.

GAGE.--Acoustic-velocity meter and water-stage recorder. Elevation of gage is 220 ft below NGVD of 1929, from topographic map. Prior to Oct. 1, 1986, at site 0.4 mi downstream at different datum.

REMARKS.--Records rated fair except for estimated daily discharges, which are poor. Discharge mainly represents seepage and return flow from irrigated areas. See schematic diagram of Salton Sea Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,500 ft³/s, estimated, Aug. 17, 1977, by Imperial Irrigation District; minimum daily, 288 ft³/s, Jan. 2, 1966, Dec. 15, 1984.

10254730 Alamo River near Niland, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | e956 | e855 | e806 | e650 | e719 | e1,010 | e1,280 | e1,210 | 980 | 962 | 1,270 | 998 |
| 2 | e1,030 | e823 | e788 | e520 | e773 | e986 | e1,150 | e1,250 | 942 | 923 | 945 | 957 |
| 3 | e987 | e830 | e820 | e518 | e839 | e984 | e1,100 | e1,210 | 973 | 912 | 780 | 833 |
| 4 | e1,100 | e842 | e783 | e669 | e814 | e996 | e1,090 | e1,290 | 952 | 918 | 765 | 810 |
| 5 | e946 | e848 | e731 | e692 | e784 | e945 | e1,140 | e1,330 | 956 | 968 | 808 | 829 |
| 6 | e878 | e825 | e699 | e712 | e739 | e914 | e1,180 | e1,320 | 938 | 995 | 761 | 813 |
| 7 | e884 | e821 | e709 | e694 | e767 | e941 | e1,260 | e1,230 | 949 | 1,040 | 748 | 791 |
| 8 | e890 | e796 | e697 | e654 | e790 | e966 | e1,210 | e1,160 | 954 | 1,010 | 839 | 807 |
| 9 | e906 | e780 | e695 | e607 | e810 | e1,030 | e1,080 | e1,110 | 982 | 1,020 | 849 | 884 |
| 10 | e945 | e762 | e784 | e639 | e824 | e1,090 | e1,080 | 1,120 | 930 | 959 | 857 | 1,040 |
| 11 | e953 | e795 | e872 | e697 | e821 | e1,100 | e1,130 | 1,180 | 912 | 928 | 918 | 866 |
| 12 | e938 | e799 | e818 | e758 | e845 | e1,030 | e1,130 | 1,200 | 891 | 975 | 938 | 883 |
| 13 | e928 | e790 | e768 | e752 | e776 | e991 | e1,180 | 1,220 | 900 | 1,070 | 869 | 948 |
| 14 | e935 | e799 | e816 | e783 | e760 | e1,030 | e1,240 | 1,100 | 872 | 1,740 | 822 | 935 |
| 15 | e943 | e730 | e659 | e858 | e784 | e1,040 | e1,190 | 1,050 | 919 | 1,130 | 828 | 926 |
| 16 | e937 | e774 | e643 | e802 | e871 | e1,080 | e1,200 | 1,090 | 1,000 | 798 | 847 | 948 |
| 17 | e899 | e854 | e596 | e770 | e880 | e1,110 | e1,200 | 1,060 | 1,000 | 772 | 861 | 930 |
| 18 | e868 | e820 | e584 | e763 | e767 | e1,150 | e1,180 | 1,050 | 954 | 849 | 842 | 849 |
| 19 | e856 | e784 | e573 | e778 | e764 | e1,020 | e1,230 | 989 | 906 | 937 | 864 | 847 |
| 20 | e927 | e771 | e570 | e836 | e716 | e994 | e1,240 | 938 | 833 | 936 | 852 | 912 |
| 21 | e948 | e746 | e556 | e859 | e721 | e1,040 | e1,280 | 985 | 845 | 975 | 783 | 909 |
| 22 | e939 | e719 | e523 | e838 | e774 | e1,100 | e1,310 | 1,010 | 893 | 1,020 | 846 | 929 |
| 23 | e943 | e744 | e532 | e738 | e847 | e1,140 | e1,360 | 1,050 | 895 | 923 | 836 | 985 |
| 24 | e923 | e758 | e530 | e717 | e853 | e1,130 | e1,240 | 1,030 | 933 | 942 | 859 | 994 |
| 25 | e852 | e712 | e508 | e752 | e906 | e1,120 | e1,290 | 1,100 | 909 | 957 | 837 | 925 |
| 26 | e888 | e704 | e417 | e741 | e1,020 | e1,030 | e1,250 | 1,100 | 927 | 984 | 831 | 991 |
| 27 | e914 | e702 | e480 | e809 | e976 | e990 | e1,220 | 1,090 | 968 | 916 | 831 | 1,040 |
| 28 | e905 | e718 | e630 | e785 | e952 | e1,020 | e1,200 | 1,020 | 952 | 947 | 833 | 1,050 |
| 29 | e894 | e752 | e704 | e794 | e1,020 | e1,130 | e1,210 | 1,010 | 959 | 923 | 907 | 1,090 |
| 30 | e866 | e762 | e730 | e752 | --- | e1,230 | e1,120 | 998 | 1,010 | 863 | 910 | 1,140 |
| 31 | e866 | --- | e670 | e730 | --- | e1,250 | --- | 985 | --- | 1,170 | 1,020 | --- |
| Total | 28,644 | 23,415 | 20,691 | 22,667 | 23,912 | 32,587 | 35,970 | 34,485 | 28,034 | 30,462 | 26,756 | 27,859 |
| Mean | 924 | 780 | 667 | 731 | 825 | 1,051 | 1,199 | 1,112 | 934 | 983 | 863 | 929 |
| Max | 1,100 | 855 | 872 | 859 | 1,020 | 1,250 | 1,360 | 1,330 | 1,010 | 1,740 | 1,270 | 1,140 |
| Min | 852 | 702 | 417 | 518 | 716 | 914 | 1,080 | 938 | 833 | 772 | 748 | 791 |
| Ac-ft | 56,820 | 46,440 | 41,040 | 44,960 | 47,430 | 64,640 | 71,350 | 68,400 | 55,610 | 60,420 | 53,070 | 55,260 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2012, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 931 | 760 | 640 | 636 | 740 | 959 | 1,088 | 979 | 844 | 844 | 842 | 892 |
| Max | 1,159 | 851 | 792 | 834 | 970 | 1,144 | 1,272 | 1,182 | 992 | 1,027 | 1,278 | 1,271 |
| (WY) | (1964) | (1991) | (1973) | (1972) | (1964) | (1963) | (1980) | (1975) | (2001) | (1963) | (1977) | (1962) |
| Min | 742 | 616 | 416 | 396 | 480 | 734 | 797 | 684 | 646 | 636 | 656 | 667 |
| (WY) | (1986) | (1966) | (1986) | (1978) | (2010) | (1987) | (1965) | (1964) | (1964) | (1985) | (1986) | (1992) |

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SUMMARY STATISTICS

[e, estimated]

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1961 - 2012 | |
|---------------------------------|--------------------|-------|-----------------|--------|---------------------------------|--------------|
| Annual total | 308,534 | | 335,482 | | | |
| Annual mean | 845 | | 917 | | 847 | |
| Highest annual mean | | | | | 991 | 1963 |
| Lowest annual mean | | | | | 680 | 1986 |
| Highest daily mean | 1,170 | Apr 3 | 1,740 | Jul 14 | ^e 4,500 Aug 17, 1977 | |
| Lowest daily mean | 382 | Jan 2 | 417 | Dec 26 | 288 | Jan 2, 1966 |
| Annual seven-day minimum | 500 | Jan 1 | 507 | Dec 21 | 323 | Dec 27, 1965 |
| Annual runoff (ac-ft) | 612,000 | | 665,400 | | 613,400 | |
| 10 percent exceeds | 1,030 | | 1,160 | | 1,090 | |
| 50 percent exceeds | 856 | | 912 | | 842 | |
| 90 percent exceeds | 621 | | 718 | | 607 | |

