

**SYCAMORE CREEK FIRE
FCD GAGE ID# 5873**

STATION DESCRIPTION

LOCATION - The gage is located in northeast Maricopa County about 5 miles west of Mt. Ord, and just north of the old SR87 crossing of Sycamore Creek. Latitude 33° 55' 58.2" North; Longitude 111° 28' 46.0" West. Located in S25 T7N R8E, in the Reno Pass 7.5-minute quadrangle.

ESTABLISHMENT - The gage was installed June 26, 2012.

DRAINAGE AREA – Not Determined

GAGE - The gage is a pressure transducer type instrument. The PT diaphragm is at gage height 7.26 feet, levels of July 3, 2012. The PT is located on the right bank, near the forest service road. ID is 5873.

There is a status sensor at the site. It is in the low flow channel, at elevation 2.15 feet gage height, levels of July 7, 2014. ID is 5872.

There is a radar gage located near the main gage cross section. It is mounted in the trees on the left bank. ID is 5871.

There is no crest-stage gage at the gage cross section. The USGS has established a group of crest-stage gages nearby to monitor flow in a continuous slope area project.

There is no staff gage at this site.

ZERO GAGE HEIGHT – Zero gage height was arbitrarily chosen during the first survey.

HISTORY – Gaging established on June 26, 2012. No previous gaging history at this location.

REFERENCE MARKS

RP-1 is a nail driven into a stump about 15 feet east northeast of the station house. Elevation is 18.598 feet gage height, levels of July 3, 2012.

RP-2 is presumed missing and no longer valid.

RP-3 is the top of the status sensor on July 3, 2012. Elevation is 4.543 feet gage height.

RM-1 is a USGS aluminum tablet located near the gage cross section. It has elevation of 6.283 feet gage height, levels of October 23, 2012.

CHANNEL AND CONTROL – The channel has a trapezoidal shape, with a relatively flat bottom with a bottom width of about 30 feet. The left bank rises sharply. The right bank has an overbank width of about 60 feet before the right bank rises sharply.

The control for the gage is not defined at low flows. The channel is the control at higher stages.

RATING - The current rating is Rating #1, dated June 26, 2012. The rating was developed from a one cross section survey with slope.

DISCHARGE MEASUREMENTS - Direct measurements would be possible in the channel at low flows. The distance from the office may make it impossible to do.

POINT OF ZERO FLOW - The PZF is at about -0.4 feet gage height, as of October 23, 2012.

FLOODS – Several large runoff events have occurred, with the largest being 7,700 cfs and 11.84 feet gage height, on August 16, 2012. Another event occurred on September 7, 2012 with a peak stage of 8.59 feet, and peak discharge of 3,187 cfs.

REGULATION - None known.

DIVERSIONS - None known

ACCURACY - Fair

JUSTIFICATION - Monitor flows in Sycamore Creek because of severe burn of upper watershed in May-June 2012.

UPDATED - July 8, 2014
 D E Gardner