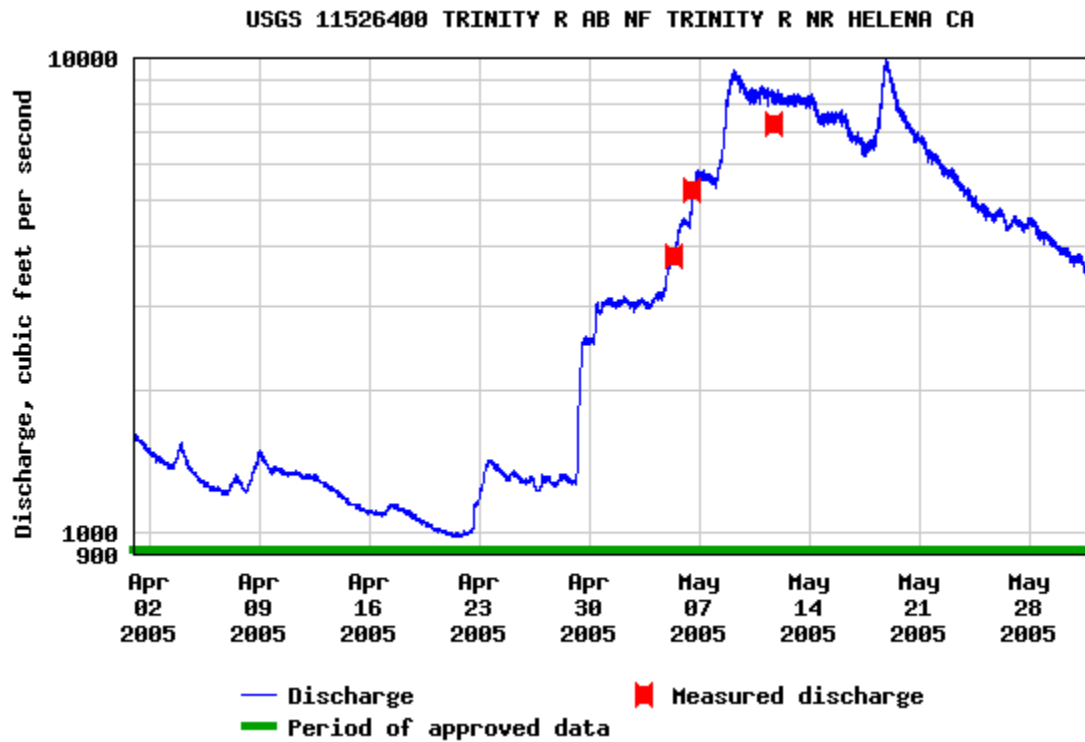
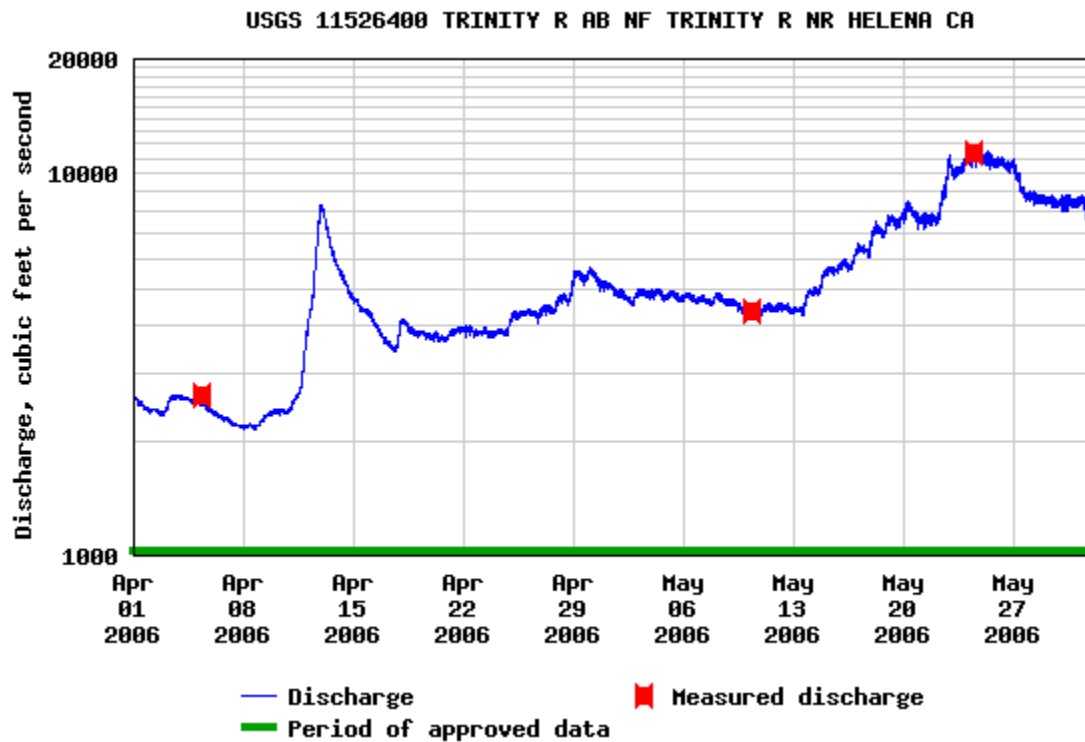


## Trinity River Above North Fork (aka Pear Tree) – began operation in March 2005

2005 (Normal by Apr 1 forecast but later became Wet): Release Peak = 6970 cfs



2006 (Ext Wet): Release Peak 10,100 - limited by infrastructure



**California Department of Water Resources (2007) Trinity River hydraulic flow study: North Fork Trinity to Lewiston Dam. Report by the California Department of Water Resources for the Trinity River Restoration Program.**

The flows modeled and presented in this report are the maximum flows that would be released from Lewiston Reservoir under the ROD schedule, which is 11,000 cfs in May during extremely wet years. The Flood Hydrology Group from U.S. Bureau of Reclamation's (USBR) Denver office provided the estimated 10-year and 100-year spring tributary flow events plus releases from Lewiston Reservoir<sup>2</sup>. Table 2 presents the flows modeled and their respective classifications.

**Table 2. Modeled Trinity River Flow**

| Inflow Source          | Trinity River Cross Sections | 11,000 cfs Plus 10-Year Spring Tributary Flow (cfs) | 11,000 cfs Plus 100-Year Spring Tributary Flow (cfs) |
|------------------------|------------------------------|-----------------------------------------------------|------------------------------------------------------|
| North Fork Trinity     | 72.45 - 72.50                | 17,612                                              | 23,854                                               |
| Canyon Creek           | 72.65 - 79.18                | 17,028                                              | 23,207                                               |
| Dutch Creek            | 79.33 - 86.40                | 16,223                                              | 21,736                                               |
| Browns Creek           | 86.48 - 87.95                | 16,020                                              | 21,336                                               |
| Reading Creek          | 87.98 - 93.06                | 14,697                                              | 18,613                                               |
| Weaver Creek           | 93.10 - 93.91                | 14,177                                              | 17,544                                               |
| Indian Creek           | 93.98 - 95.59                | 13,316                                              | 15,771                                               |
| Limekiln/China Gulches | 95.63 - 101.14               | 12,543                                              | 14,226                                               |
| Grass Valley Creek     | 101.19 - 104.36              | 12,248                                              | 13,692                                               |
| Rush Creek             | 104.43 - 107.74              | 11,433                                              | 12,096                                               |
| Deadwood Creek         | 107.83 - 110.936             | 11,070                                              | 11,219                                               |
| Lewiston Release       | 110.96 - 112.17              | 11,000                                              | 11,000                                               |

**FEMA (Federal Emergency Management Agency). 2016. Flood insurance study, Trinity County, California. Flood insurance study number 06105CV000C, Revised July 20, 2016.**

**Table 10: Summary of Discharges**

| Flooding Source             | Location                               | Drainage Area (Square Miles) | Peak Discharge (cfs) |                  |                  |                  |                    |
|-----------------------------|----------------------------------------|------------------------------|----------------------|------------------|------------------|------------------|--------------------|
|                             |                                        |                              | 10% Annual Chance    | 4% Annual Chance | 2% Annual Chance | 1% Annual Chance | 0.2% Annual Chance |
| Carter Gulch                | At mouth                               | 3.19                         | 470                  | *                | 820              | 960              | 1,200              |
| Coffee Creek                | Upstream of Highway 3                  | 118                          | *                    | *                | *                | 24,600           | *                  |
| East Weaver Creek           | At Highway 299 Bridge                  | 13.5                         | *                    | *                | *                | 4,780            | 5,850              |
| Ewing Gulch                 | At mouth                               | 2.07                         | 330                  | *                | 560              | 650              | 810                |
| Garden Gulch                | At mouth                               | 2.45                         | *                    | *                | *                | 845              | *                  |
| Hayfork Creek               | Downstream of Salt Creek               | 243.3                        | 17,600               | *                | 27,800           | 32,500           | 42,100             |
|                             | Upstream of Salt Creek                 | 182.4                        | 13,200               | *                | 20,900           | 24,300           | 31,600             |
|                             | Upstream of Ewing Gulch                | 167.4                        | 12,100               | *                | 16,100           | 22,300           | 29,000             |
| Kellogg Gulch               | At mouth                               | 1.05                         | 170                  | *                | 285              | 335              | 420                |
| Middle Weaver Creek         | At mouth just above Mill Street Bridge | 6.43                         | *                    | *                | *                | 2,110            | 2,610              |
| Ten Cent Gulch              | At Highway 299                         | 0.67                         | *                    | *                | *                | 250              | 310                |
| Trinity River               | At North Fork Tributary                | 1,301                        | 40,040               | **               | 75,500           | 94,830           | 159,600            |
|                             | At Canyon Creek Near Junction City     | 1,065                        | 31,150               | **               | 57,600           | 71,910           | 121,710            |
|                             | At Browns Creek                        | 1,014                        | 25,070               | **               | 45,550           | 56,550           | 96,540             |
|                             | At Reading Creek Near Douglas City     | 931                          | 20,180               | **               | 36,020           | 44,450           | 76,840             |
|                             | At Weaver Creek Near Douglas City      | 900                          | 18,260               | **               | 32,300           | 39,750           | 69,230             |
|                             | At Indian Creek                        | 850                          | 15,360               | **               | 25,670           | 31,460           | 56,010             |
|                             | At Grass Valley Creek                  | 800                          | 12,940               | **               | 18,160           | 22,200           | 41,450             |
|                             | At Rush Creek                          | 755                          | 11,090               | **               | 11,250           | 11,370           | 21,700             |
|                             | Lewiston Dam Outflow                   | 719                          | 11,000               | **               | 11,000           | 11,000           | 17,840             |
|                             | At confluence of Coffee Creek          | 277                          | *                    | **               | *                | 51,500           | *                  |
| Trinity River Bucktail Left | At USGS Gage No. 11523200              | 149                          | *                    | **               | *                | 29,900           | *                  |
|                             | At divergence from Trinity River       | **                           | **                   | **               | **               | 1,766            | 5,325              |