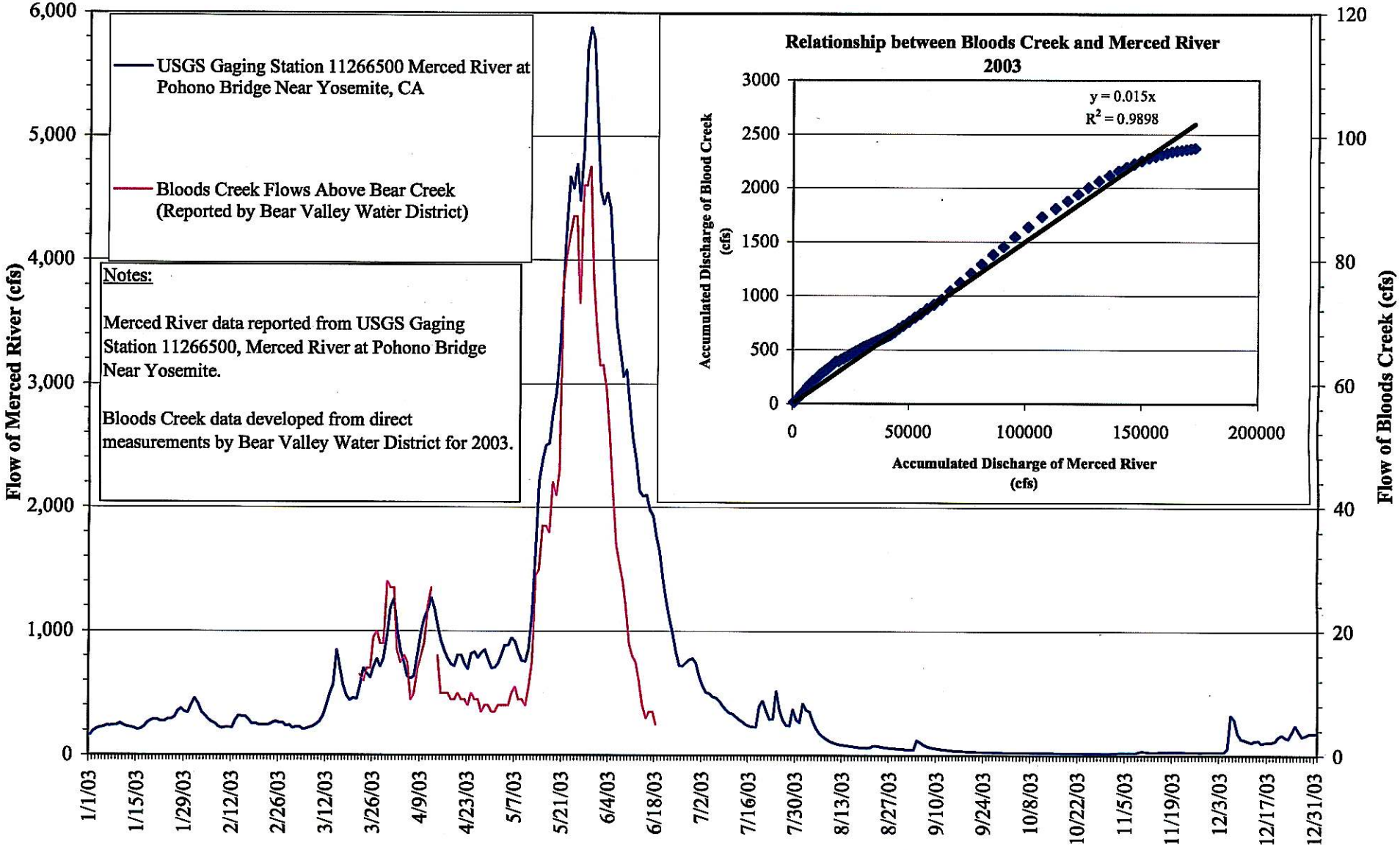
6/30/2008

**FIGURE 1**
**Alpine County - Lake Alpine Water Company**
**Relationship Between Merced River and Bloods Creek Discharge**
**Average Daily Flow for 2003**




LAKEE013.XLS, Actual Merced & Bloods 2003

**FIGURE 2**
**Alpine County - Lake Alpine Water Company**
**Comparison of Estimated and Measured Discharge of Bloods Creek Above Bear Creek**

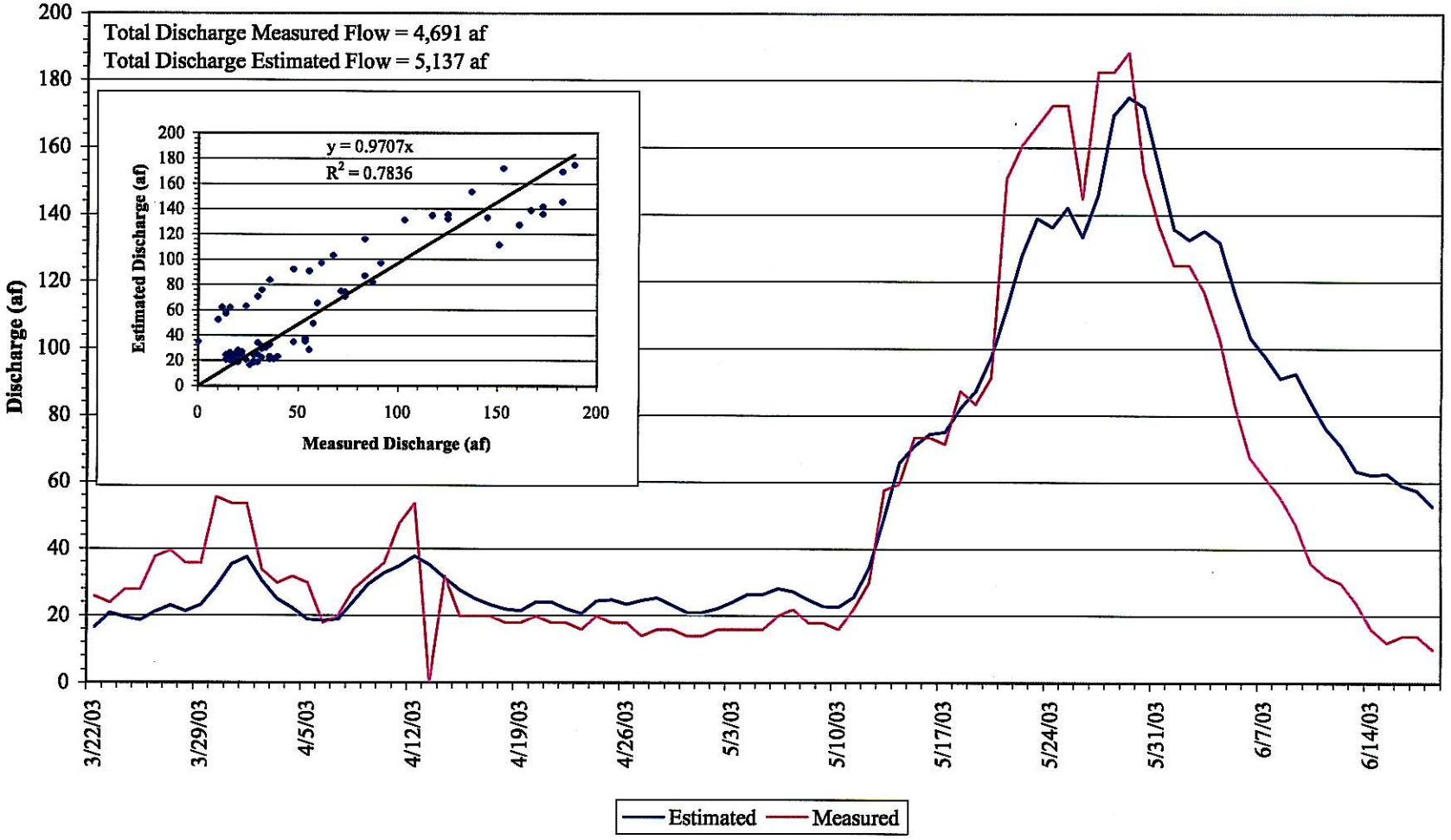
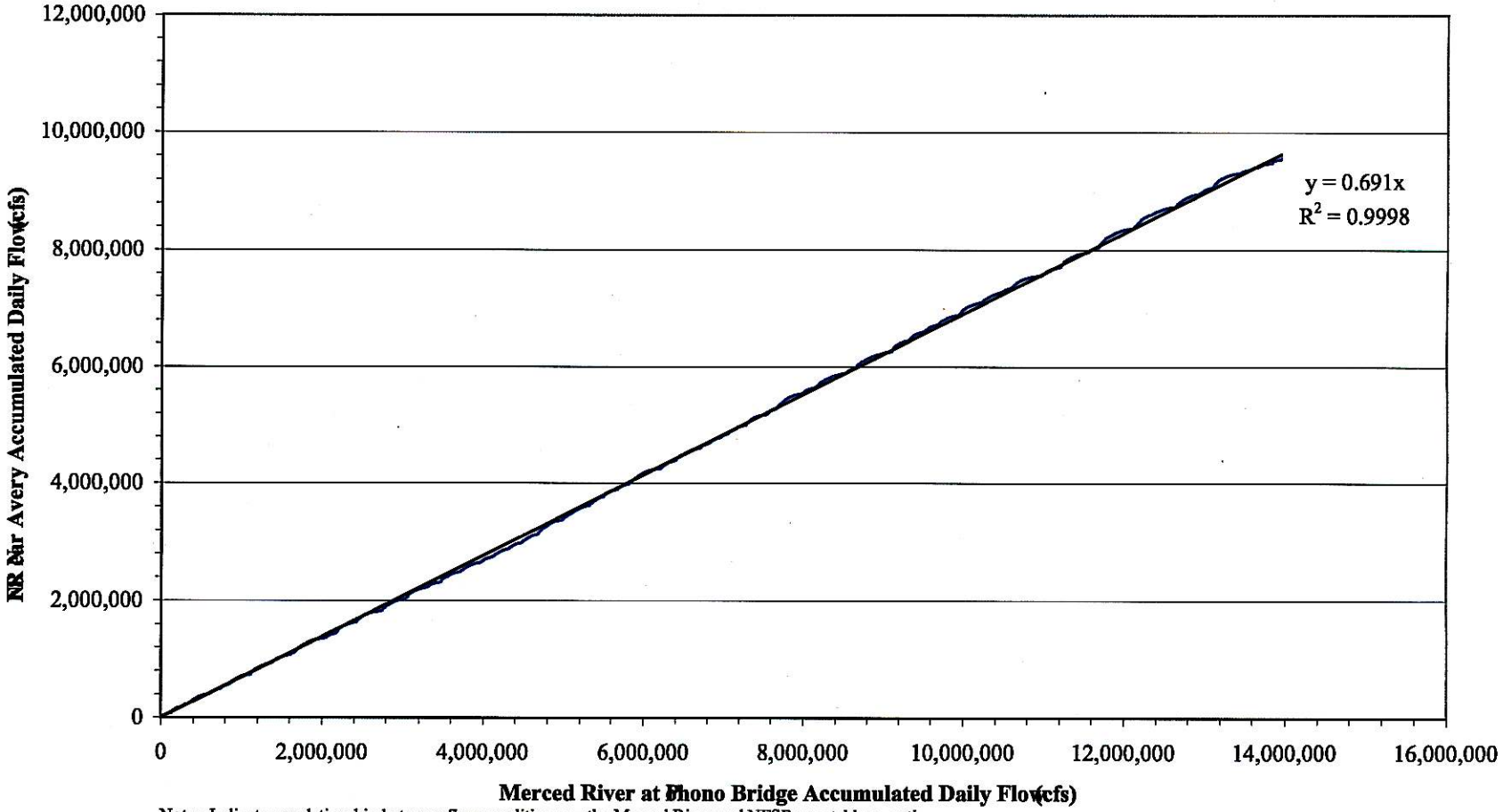


**FIGURE A**
**Alpine County - Lake Alpine Water Company**
**Double Mass Curve of North Fork Stanislaus River near Avery and Merced River at Cohono Bridge**
**Water Years 1929 Through 1**




Note: Indicates a relationship between flow conditions on the Merced River and NFSR are stable over time.

**FIGURE 3B**
**Alpine County - Lake Alpine Water Company**
**North Fork Stanislaus River Near Avery and Merced River at Pohono Bridge**
**Water Years 1917 Through 2007**

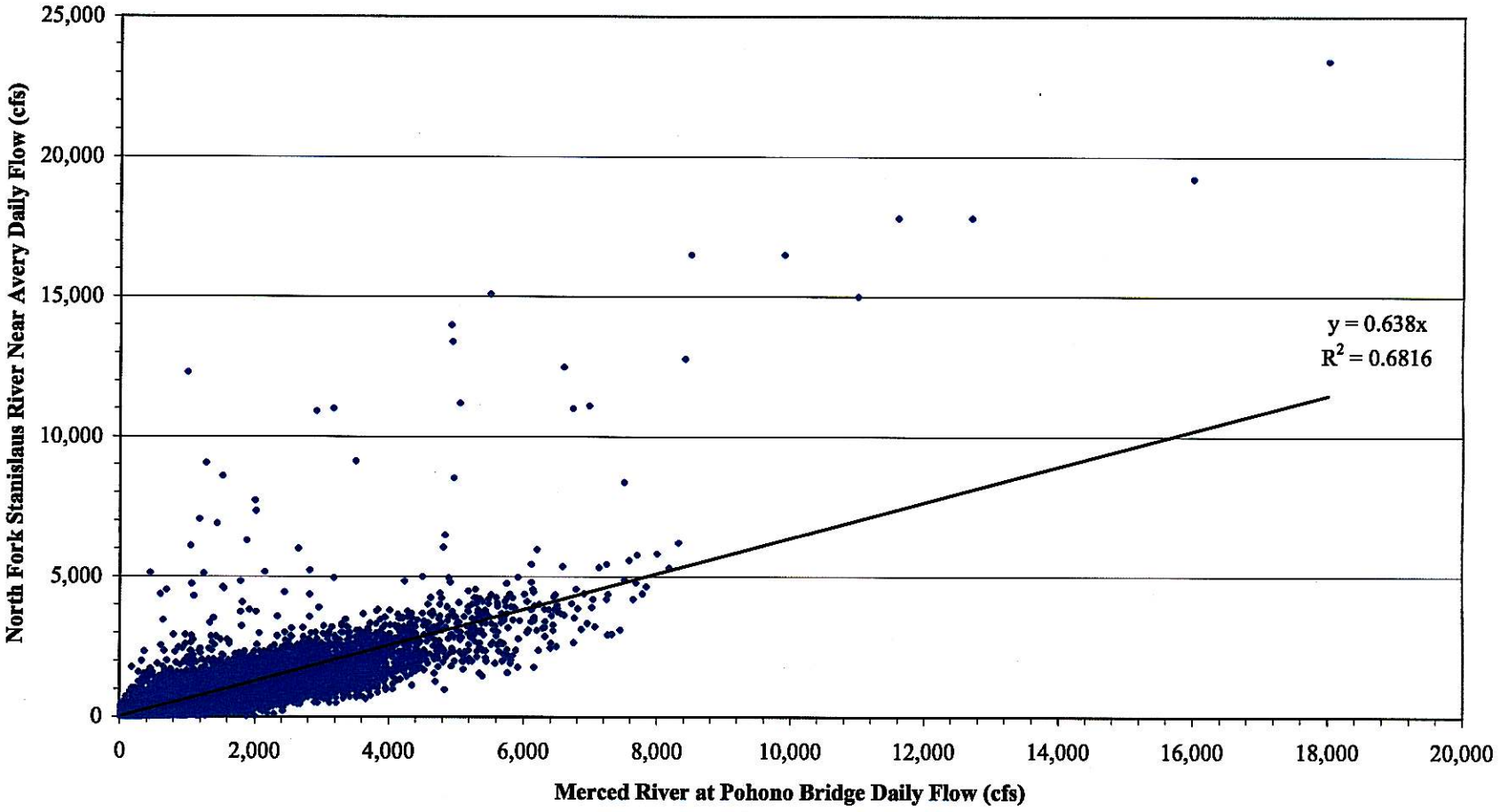
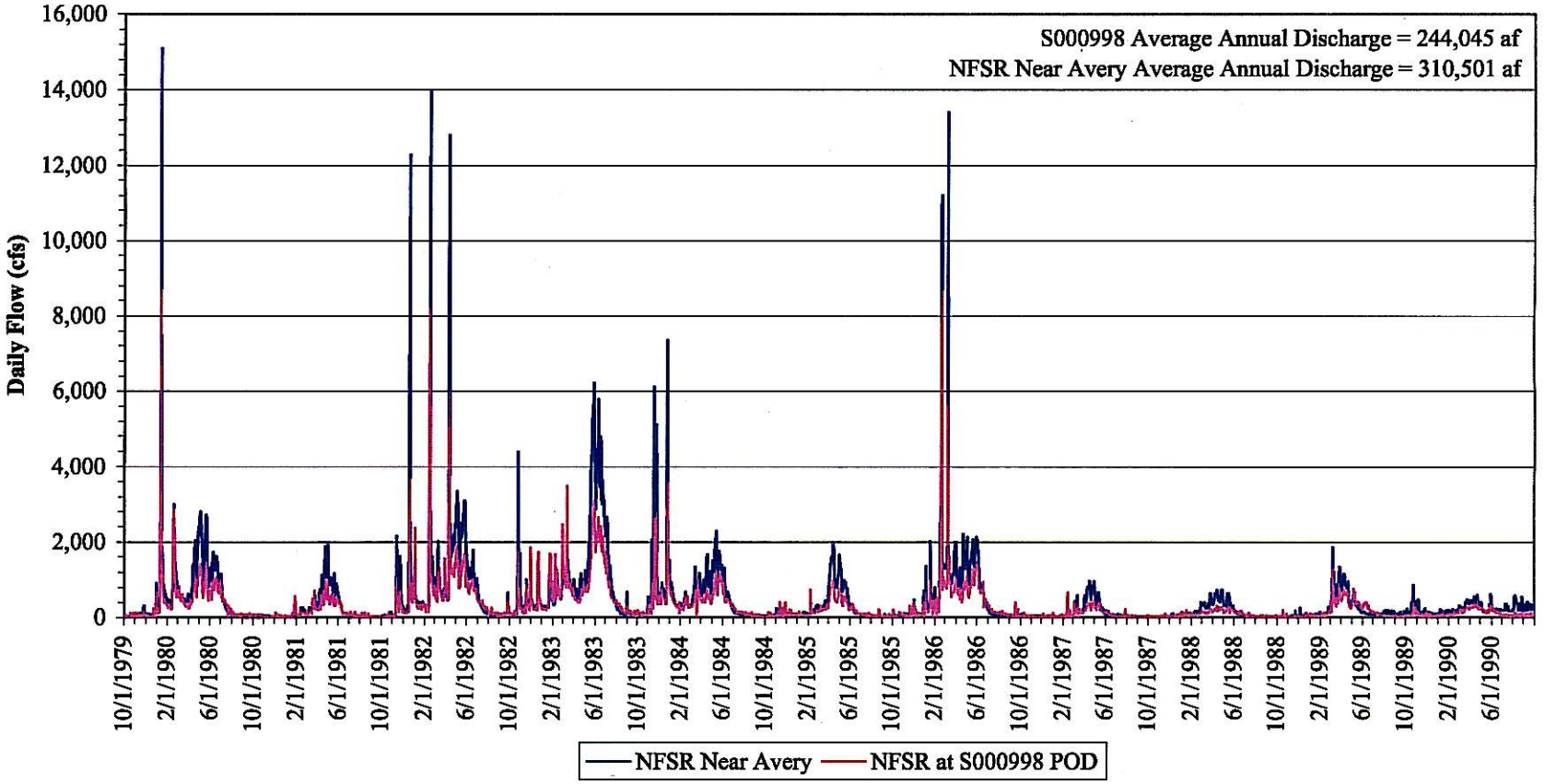
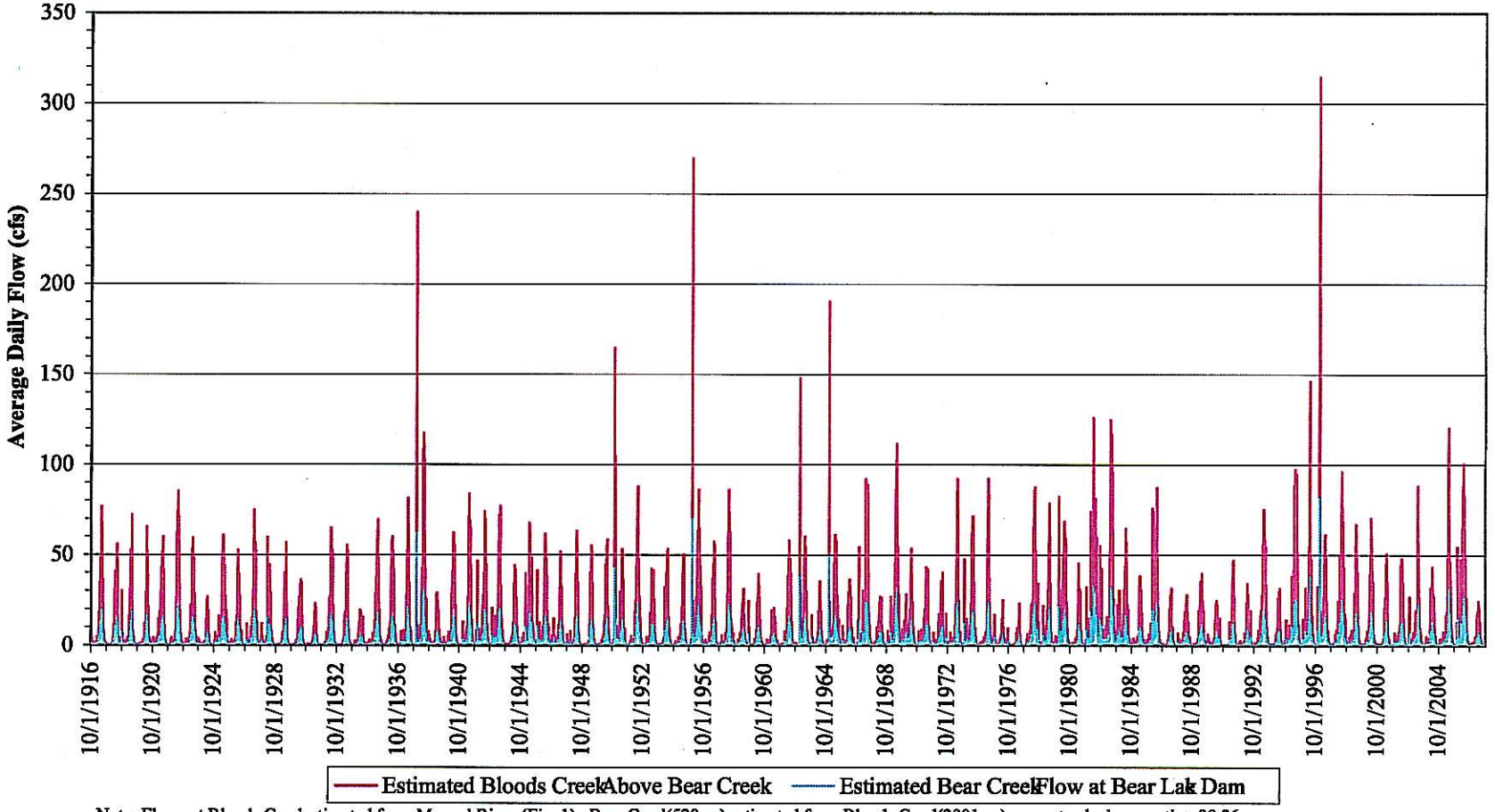


**FIGURE 4**
**Alpine County - Lake Alpine Water Company**
**Comparison of Estimated Unimpaired Flow of North Fork Stanislaus River at the S000998 POD**
**and Reported Flow at USGS 11294500 North Fork Stanislaus River Near Avery, CA**
**Water Years 1980 Through 1990**




Note: Flow at S000998 (McKay's Point) estimated from Merced River watershed area ratio(0.54).

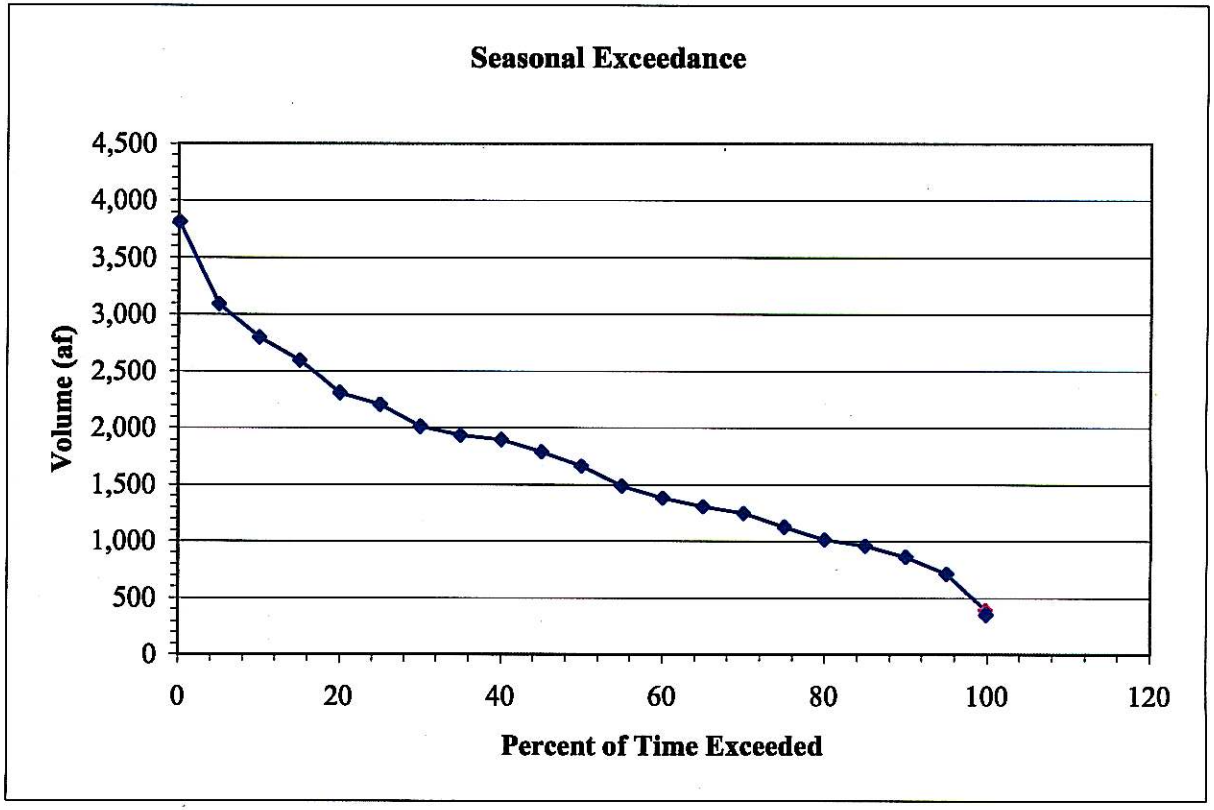
**FIGURE 5**
**Alpine County - Lake Alpine Water Company**
**Estimated Bloods Creek Above Bear Creek and Estimated Bear Creek at Bear Lake Dam**
**October 1916 Through September 1990**




Note: Flows at Bloods Creek estimated from Merced River (Fig. 1). Bear Creek (520 ac) estimated from Bloods Creek (2001 ac) watershed area ratio of 0.26.

# FIGURE 6
## Alpine County - Lake Alpine Water Company
### Estimated Bear Lake Seasonal Inflow Volume
### October Through July Exceedance Water Years 1917 Through 2007

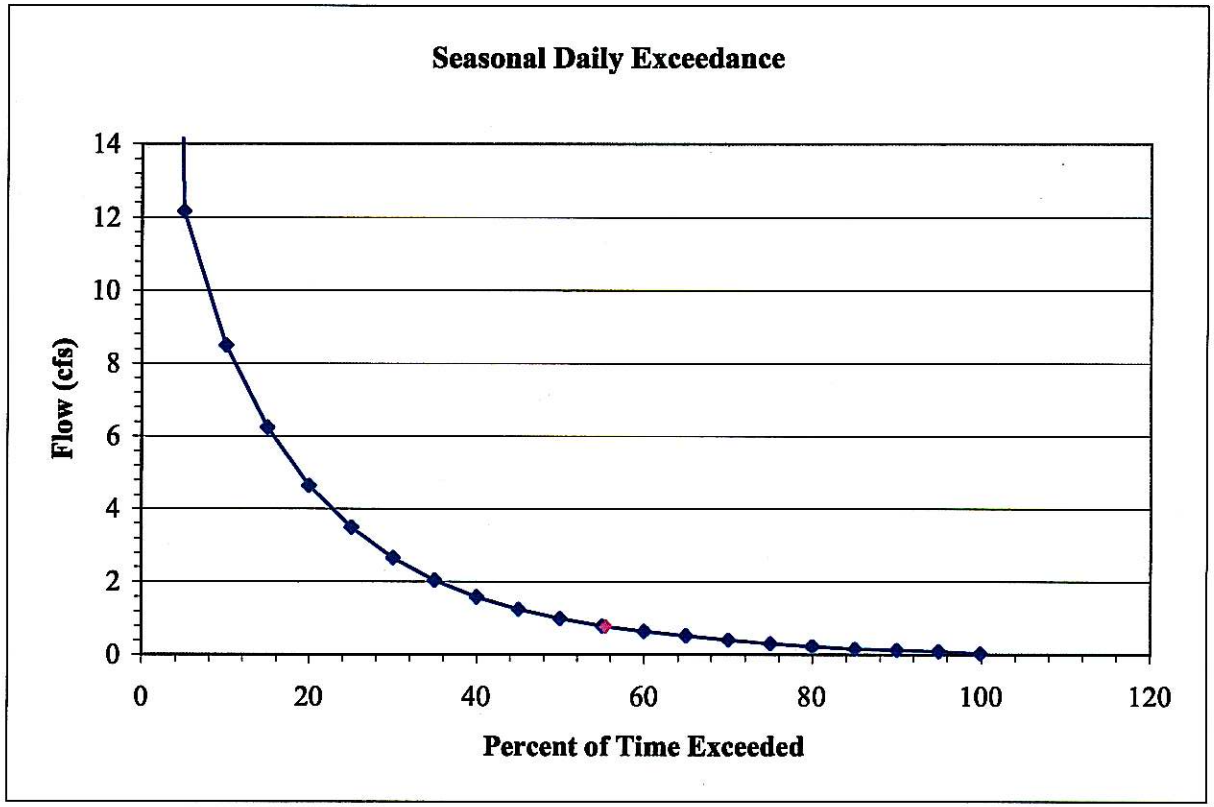
| Percent of Time Exceeded | Volume (af) |
|---|---|
| 0.1 | 3,813 |
| 5 | 3,088 |
| 10 | 2,797 |
| 15 | 2,595 |
| 20 | 2,309 |
| 25 | 2,206 |
| 30 | 2,014 |
| 35 | 1,935 |
| 40 | 1,897 |
| 45 | 1,790 |
| 50 | 1,659 |
| 55 | 1,486 |
| 60 | 1,381 |
| 65 | 1,305 |
| 70 | 1,246 |
| 75 | 1,126 |
| 80 | 1,013 |
| 85 | 957 |
| 90 | 861 |
| 95 | 708 |
| 99.8 | 395 |
| 99.9 | 352 |




Notes:
Indicates total discharge equals or exceeds 395 af 99.8%f the time.
Bear Creek (20 ac)estimated from Bloods Creek (001 ac)watershed area ratio of 0.26.

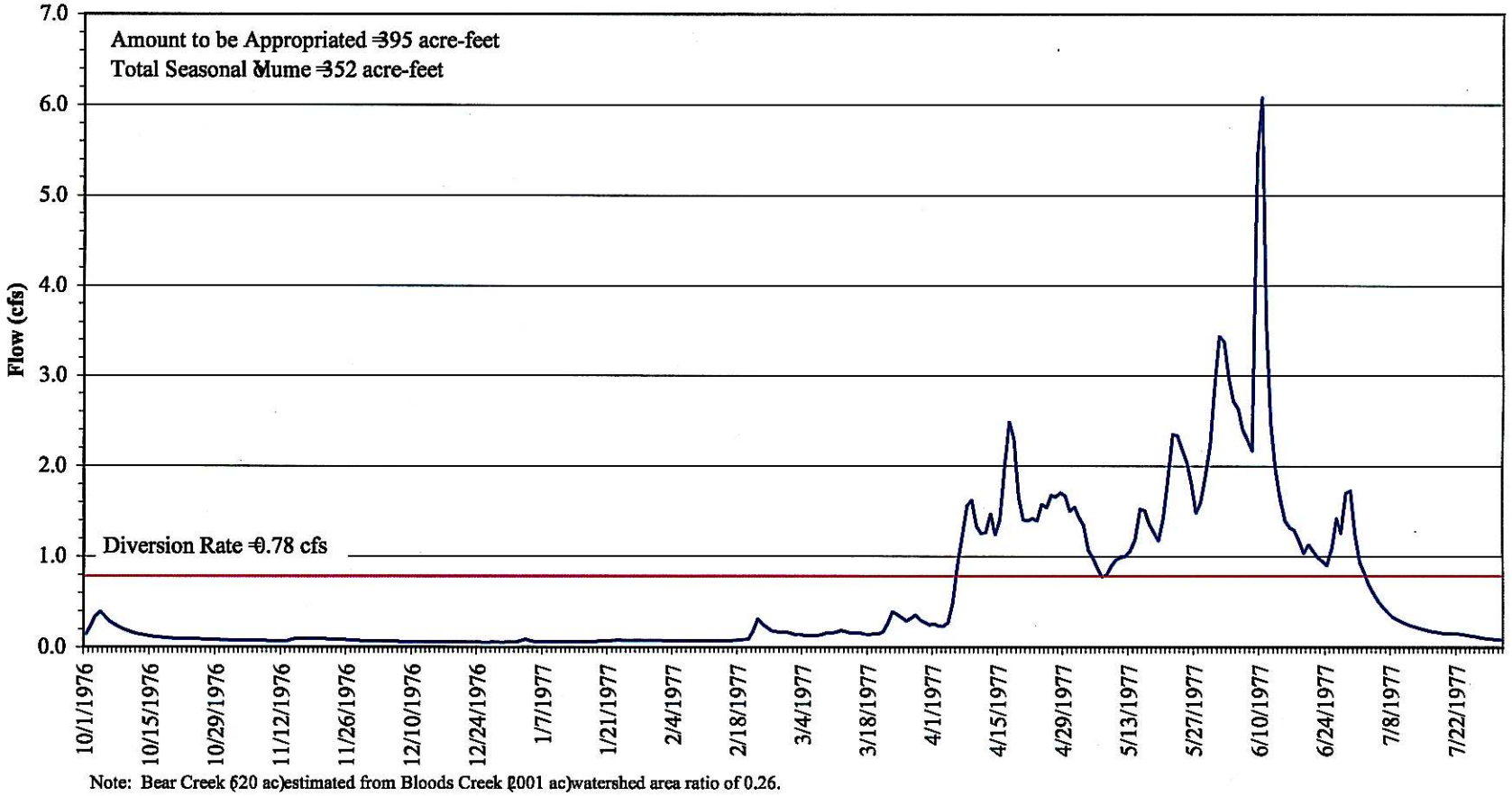
# FIGURE 7
## Alpine County - Lake Alpine Water Company
### Estimated Bear Lake Daily Inflow
### October Through July Daily Seasonal Exceedance Water Years 1917 Through 2007

| Percent of Time Exceeded | Flow (cfs) |
|---|---|
| 0.1 | 81.859 |
| 5 | 12.162 |
| 10 | 8.498 |
| 15 | 6.237 |
| 20 | 4.639 |
| 25 | 3.504 |
| 30 | 2.664 |
| 35 | 2.031 |
| 40 | 1.583 |
| 45 | 1.247 |
| 50 | 0.990 |
| 55 | 0.795 |
| 55.4 | 0.780 |
| 60 | 0.639 |
| 65 | 0.522 |
| 70 | 0.405 |
| 75 | 0.305 |
| 80 | 0.218 |
| 85 | 0.152 |
| 90 | 0.113 |
| 95 | 0.078 |
| 99.9 | 0.021 |



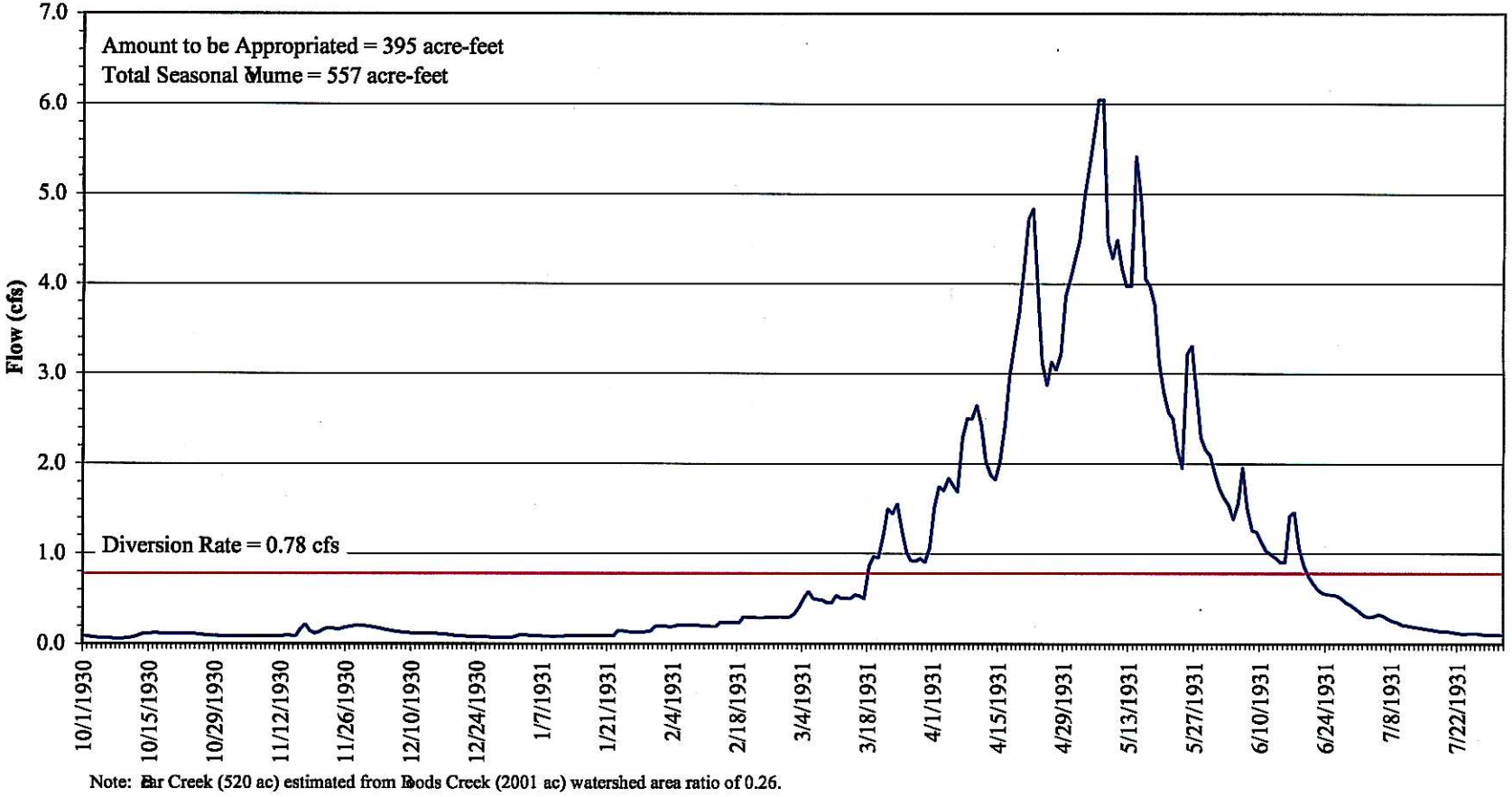

Notes:
Indicates daily discharge exceeds 0.78 cfs 55.4% of the time.
Bear Creek (20 ac) estimated from Bloods Creek (2001 ac) watershed area ratio of 0.26.

**FIGURE 8**
**Alpine County - Lake Alpine Water Company**
**Dry Year Water Availability Estimated Daily Bear Lake Inflow**
**October 1, 1976 Through July 31, 1977**
**(Driest Year on Record)**



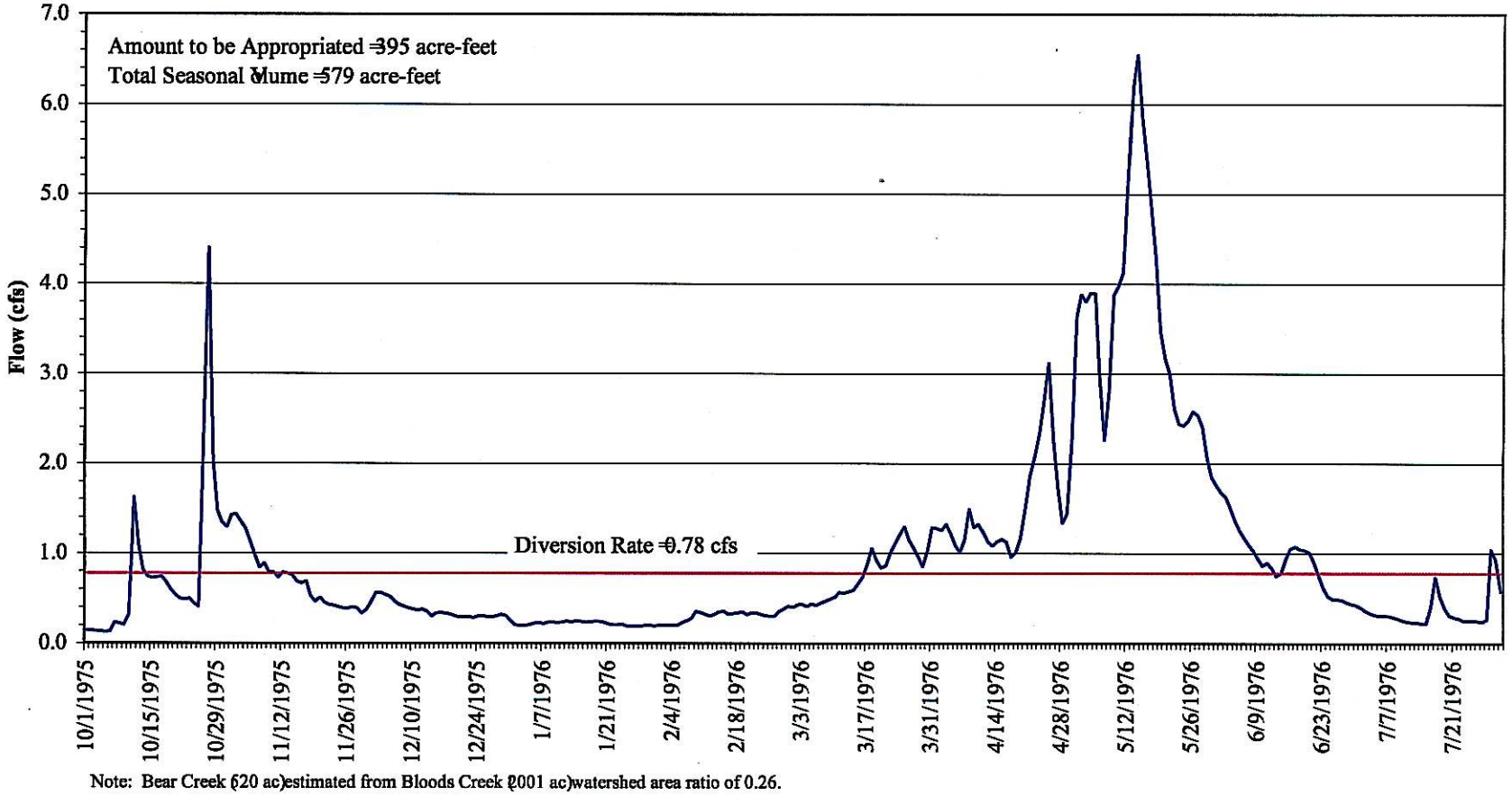

Note: Bear Creek (20 ac)estimated from Bloods Creek (2001 ac)watershed area ratio of 0.26.

**FIGURE 9**
**Alpine County - Lake Alpine Water Company**
**Dry Year Water Availability Estimated Daily Bear Lake Inflow**
**October 1, 1930 Through July 31, 1931**
**(Second Driest Year on Record)**




Note: Bear Creek (520 ac) estimated from Woods Creek (2001 ac) watershed area ratio of 0.26.

**FIGURE 10**
**Alpine County - Lake Alpine Water Company**
**Dry Year Water Availability Estimated Daily Bear Lake Inflow**
**October 1, 1975 Through July 31, 1976**
**(Third Driest Year on Record)**




Note: Bear Creek (620 ac)estimated from Bloods Creek (2001 ac)watershed area ratio of 0.26.

# FIGURE 11
## Alpine County - Lake Alpine Water Company
### Annual Evaporation from Old Melones & New Melones Compared to Requested Bear Creek Diversions
### Water Years 1980 Through 2007