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Flow Volume Summary

Water Volume Summary for Trinity River Releases and Diversions Since 2001.

Water Year (Oct. 1 through Sept. 30)	Forecast Volume [F]	Forecast Type [F]	Actual Type [H]	Restoration Volume (ac-ft)	Volume Notes	Actual Restoration Release (ac-ft) [A]	Streamgage Accuracy [A]	Actual Restoration Release within Volume given Streamgage Accuracy [A]	Safety of Dams Releases [A, B]	Ceremonial Releases (ac-ft) [A, B]	Other Releases (e.g. Klamath Supplements) (ac-ft) [A, B]	Total Release to Trinity River (ac-ft) [A]	Peak Rate of Release (cfs) [A]	Diversion to Central Valley (ac-ft) [C]	Full Natural Flow at Lewiston (ac-ft) [C, E, H, I]
2001		Dry	Dry	369,000	D	379,600	10 %	Yes	0	4,200	0	383,800	1,760	669,400	818,200
2002		Normal	Normal	470,000	D	482,700	10 %	Yes	0	0	0	482,700	6,040	629,000	1,293,500
2003		Wet	Wet	453,000	D	448,100	10 %	Yes	68,300	5,700	34,000	556,100	2,610	857,600	1,868,900
2004	1,580,000	Wet	Wet	647,000	D	651,000	10 %	Yes	81,100	0	36,200	788,300	6,200	987,500	1,512,000
2005	1,244,000	Normal	Wet	647,000	G	647,600	10 %	Yes	0	3,600	0	651,200	6,970	466,700	1,476,000
2006	2,105,000	Ext Wet	Ext Wet	815,000	G	809,900	10 %	Yes	406,300	0	0	1,216,200	10,100	1,350,600	2,496,300
2007	835,000	Dry	Dry	453,000	G	453,700	10 %	Yes	0	4,100	0	457,800	4,750	614,400	752,400
2008	1,066,000	Normal	Dry	647,000	G	648,700	10 %	Yes	0	0	0	648,700	6,470	555,000	874,900
2009	852,000	Dry	Dry	453,000	G	445,500	10 %	Yes	0	11,100	0	456,600	4,410	539,200	834,500
2010	1,310,000	Normal	Wet	647,000	G	656,700	15 %	Yes	0	0	0	656,700	6,840	274,700	1,602,200
2011	1,801,000	Wet	Wet	701,000	G	721,800	15 %	Yes	0	10,800	0	732,600	11,600	473,100	1,883,000
2012	1,025,000	Normal	Normal	647,000	G	647,100	10 %	Yes	0	0	39,000	686,100	6,080	709,900	1,075,400
2013	828,000	Dry	Dry	453,000	G	451,900	10 %	Yes	0	10,000	18,600	480,500	4,420	852,200	853,100
2014	395,000	Crit Dry	Crit Dry	369,000	G	370,500	10 %	Yes	0	0	64,800	435,300	3,410	618,600	396,200
2015	934,000	Dry	Dry	453,000	G	450,700	10 %	Yes	0	9,300	47,900	508,000	8,310	450,500	899,800
2016	1,600,000	Wet	Wet	701,000	G	708,800	10 %	Yes	0	0	39,200	748,000	9,600	278,900	1,457,500
2017	2,265,000	Ext Wet	tbd	tbd		tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd	tbd
Total				8,925,000	-	8,974,300	-	-	555,700	58,800	279,700	9,868,600	-	10,327,300	20,093,900

Notes: The water year spans Oct. 1 to Sept. 30. All water volume values are rounded to the nearest 100 ac-ft.

A. Total annual water volume is computed from the final daily average flow record published by the US Geological Survey for the Trinity River at Lewiston Stream gage 11525500. The measurement error applies to the accuracy of the published stream flow record for a given day within the water year. The total error of a sum of values tends to be less than the error associated with an individual value because positive and negative errors may cancel each other when summed. The US Geological Survey has not conducted the statistical analysis to understand how stream flow measurement errors behave when summed. Consequently, the listed accuracy for published daily average stream flow record is used for the cumulative annual water volume. The true error for the annual water volume totals are expected to be less than those listed.

B. Volume estimate for flows above the summer or winter baseflow release for restoration.

C. Computed from daily average record provided by the Bureau of Reclamation. Reported negative daily inflow values included "as is" in calculations.

D. Restoration water volume limited by Court order 2001-2004. Court ordered volumes varied by year. Court-ordered release restrictions between 2001 and 2004 resulted in a cumulative reduction of 540,600 ac-ft during that time period, as compared to full Record of Decision flow releases.

E. Long-term average annual inflow to Trinity Reservoir (ac-ft/year) from 1911-2007 as provided by the Bureau of Reclamation = 1,254,000 ac-ft.

F. Water year type based on the April 1 st B120Forecast of Unimpaired Runoff (50% exceedance) from the [Department of Water Resources California Cooperative Snow Surveys](#).

G. Restoration water volume as prescribed by the Trinity River Mainstem Fishery Restoration 2000 Record of Decision.

H. The Full Natural Flow is computed by multiplying estimated inflow to Trinity Reservoir by 1.04 to account for the local watershed area between Trinity Dam and the Lewiston Streamgage. The estimated inflow to Trinity Reservoir is computed by the Bureau of Reclamation based on changes in reservoir storage, evaporation, and dam releases. Uncertainty in the reservoir storage and evaporation estimates can lead to negative inflow values being reported. Negative inflow values are erroneous and have been excluded from the calculation of the full natural flow.

I. Beginning in WY2011 the Full Natural Flow at Lewiston is sourced from [Unimpaired Runoff calculations in California Dept. Water Resources basin summary reports](#). Those reports are subject to correction without notice; TRRP strives to capture corrections.