

Surface Water Reservoir - Retention Time

			Water			Retention		
	Reservoir	Agency	Reservoir Storage AF	Reservoir Storage MG	Treatment Plant Inflow MGD	Time Months	RT ≥ 6 months	Comments
1	Los Vaqueros	CCWD	160,000	52,136	261	7	Yes	Instead of WTP capacity, used max LV release of ~400 AF/day
2	Lake Herman	City of Benicia	1,392	454	4	4	No	Full pool
3	San Vicente	City of San Diego PUD	242,000	78,856	78	33	Yes	Values entered in column, "Water Treatment Plant Inflow" are actually reservoir outflow.
4	Lower Otay	City of San Diego PUD	49,849	16,243	22	24	Yes	Values entered in column, "Water Treatment Plant Inflow" are actually reservoir outflow.
5	Miramar	City of San Diego PUD	6,682	2,177	30	2	No	Values entered in column, "Water Treatment Plant Inflow" are actually reservoir outflow.
6	Camanche	EBMUD	417,120	135,919	210	21	Yes	
7	Pardee	EBMUD	197,950	64,502	246	9	Yes	
8	Briones	EBMUD	60,510	19,717	20	32	Yes	
9	San Pablo	EBMUD	38,600	12,578	50	8	Yes	
10	Upper San Leandro	EBMUD	37,960	12,369	45	9	Yes	
11	Kent	MMWD	32,895	10,719	9	39	Yes	Too remote for SWA
12	Nicasio	MMWD	22,430	7,309	11	22	Yes	Reservoir spills 9/11 years - unlikely candidate for SWA.
13	Soualjule	MMWD	10,572	3,445	4	25	Yes	When spilling the reservoir volume exchanges every 2 months (Dec - March) so using demand flows is not a valid method to estimate actual residence time.
14	Alpine	MMWD	8,891	2,897	3	35	Yes	Too remote for SWA
15	BTTP	MMWD	4,017	1,309	2	24	Yes	Flow varies from 2 MGD to 15 MGD
16	Lagunitas	MMWD	N/A				No	Too small for SWA
17	Phoenix	MMWD	N/A				No	Too small for SWA
18	Stafford Lake	NMWD	4,400	1,434	6	8	Yes	
19	Calero to Chesbro	Rancho Murieta CSD	4,060	1,323	3	14	Yes	Disagree with the proposed 10 log removal being discussed for treatment as it is prohibitively onerous to water agencies with limited money to implement it. Makes no sense as tertiary discharged water already is exceptional and never has a positive coliform in our District either. That is at current maximum average flow for our District. The average daily flow over the past 5 years is 1.47 mgd.

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20	Anderson	SCVWD	90,373	29,448	20-240	48-4	Yes	Anderson should not be considered as a potential reservoir for surface augmentation due to its geographical location and significant distance from any potential advanced treatment facility.	
21	Calero	SCVWD	9,934	3,237	20-240	5-0.5	No	Calero Reservoir would not be able to meet the 6 month retention time during any time of the year	
22	Pillsbury	SCWA	N/A				No	(More suitable for IPR GW recharge projects) There are two major reservoir that provide water supply for the Russian River watershed: Lake Mendocino on the East Fork of the Russian River and Lake Sonoma on Dry Creek. Lake Mendocino and Lake Sonoma are dual-purpose reservoirs in that they provide flood protection (managed by the U.S. Army Corps of Engineers) and water supply storage (releases managed by the Sonoma County Water Agency). The Water Agency has six collector wells adjacent to the Russian River, where groundwater is extracted by each collector well from the alluvial aquifer adjacent to and beneath the Russian River. The naturally filtered water entering the collector wells is extremely clean and requires no additional treatment; however, chlorine is added as a precaution against possible contamination in the distribution system. Because the reservoirs are own/operated by two separate entities, with different rules governing releases, it would be difficult to use them as SWA reservoirs.	
23	Mendocino	SCWA					No		
24	Sonoma	SCWA					No		
25	Crystal Springs	SFPUC	59,746	19,468	31.5	20	Yes	Dead storage = 2,818 AF (Operable dead storage for Crystal Springs includes pool below lowest outlet in LCS and pool below culvert invert in UCS.). Storage at high operation level (287.8' NGVD29) = 50486 AF. Average flow from CSPS to San Andreas Reservoir = 31.5 MGD for the period 2005-2015	
26	San Antonio	SFPUC	48,386	15,767	10.5	49	Yes	Dead storage = 2,100 AF (at 2nd lowest outlet). Storage at high operation level (466' NGVD29) = 50486 AF. Average flow to Sunol WTP for the period 2005-2015 = 10.5 MGD.	
27	San Andreas	SFPUC	15,363	5,006	32.5	5	No	Dead storage = 3137 AF (lowest outlet). Storage at high operation level (449' NGVD29) = 18500 AF. Average flow to Harry Tracy WTP = 32.5 MGD for the period 2005-2015	
28	Reservoirs	Zone 7	N/A				No	Information not provided - reservoirs owned by DWR	