

U.S. DEPARTMENT OF AGRICULTURE
RESERVOIR SEDIMENTATION
DATA SUMMARY

Onion Creek #1

SOIL CONSERVATION SERVICE
72-16a
DATA SHEET NO.

NAME OF RESERVOIR

River

DAM	1. OWNER USDA, Forest Service		2. RIVER Onion Cr., trib. to Amer. River STATE Calif.				
	4. SEC. 2 TWP. 16N RANGE 14E		5. NEAREST TOWN Soda Springs		6. COUNTY Placer		
	7. STREAM BED ELEV. 6,160		8. TOP OF DAM ELEV. 6,164		9. SPILLWAY CREST ELEV. 6,164		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE- FEET	14. ACCUMULATED ACRE- FEET	15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL					1957	
	b. POWER						
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN	
	d. IRRIGATION						
	e. CONSERVATION					1957	
	f. INACTIVE *	6,164	0.0682				
17. LENGTH OF RESERVOIR 85 ft.		AV. WIDTH OF RESERVOIR 35 ft.					
WATERSHED	18. TOTAL DRAINAGE AREA 0.19 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 56 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 0.19 SQ. MI.		23. MEAN ANNUAL RUNOFF 35.0 INCHES				
	20. LENGTH 0.7 MILES		AV. WIDTH 2.72 MILES		24. MEAN ANNUAL RUNOFF 2.92 AC.-FT.		
	21. MAX. ELEV. 7,300		MIN. ELEV. 6,160		25. CLIMATIC CLASSIFICATION Humid		
	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES OR CONTOUR INT.	31. SURFACE AREA ACRES	32. CAPACITY ACRE- FEET
1957	0.0	0.0	Detailed	-	0.0682	0.114	0.600
1958	1.0	1.0	"	-	"	0.096	0.505
1959	1.0	2.0	"	-	"	0.097	0.510
1960	1.0	3.0	"	-	"	0.093	0.489
SURVEY DATA	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AC.-FT.	
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE
	1958	60.40	2,790	2,790	2,790	2,790	2,790
	1959	49.07	728	728	728	1,759	3,518
	1960	52.29	1,112	1,112	1,112	1,543	4,630
26. DATE OF SURVEY	37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.			
	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
1958	0.0141	0.0141	0.074	0.0141	0.0141	0.742	
1959	0.0134	0.0134	0.071	0.0275	0.0138	0.727	
1960	0.0046	0.0046	0.024	0.0321	0.0107	0.563	
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM	
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													

26. DATE OF SURVEY	44. REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	-105	-110	-115	-120	-125
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES
 * Item 10f: Water yield research facility; continuous flow over weir

48. AGENCY SUPPLYING DATA USFS, PSW For. & Range Expt. Sta. 49. DATE 9/15/61