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SCS-34,
Jan. 1958

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Onion Creek #5
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
72-19a
DATA SHEET NO.

DAM	1. OWNER <u>USDA, Forest Service</u>				2. RIVER <u>Onion Cr., trib. Amer. Riv.</u>		3. STATE <u>Calif.</u>	
	4. SEC. 1 <u>TWP. 16N</u>		RANGE <u>14E</u>		5. NEAREST TOWN <u>Soda Springs</u>		6. COUNTY <u>Placer</u>	
	7. STREAM BED ELEV. <u>6,560</u>				8. TOP OF DAM ELEV. <u>6,564</u>		9. SPILLWAY CREST ELEV. <u>6,564</u>	
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 *	<u>6,564</u>	<u>0.0517</u>					
17. LENGTH OF RESERVOIR <u>75 ft.</u>				AV. WIDTH OF RESERVOIR <u>30 ft.</u>				
WATERSHED	18. TOTAL DRAINAGE AREA <u>0.39</u>			SQ. MI.		22. MEAN ANNUAL PRECIPITATION <u>56</u>		INCHES
	19. NET SEDIMENT CONTRIBUTING AREA <u>0.39</u>			SQ. MI.		23. MEAN ANNUAL RUNOFF <u>36.7</u>		INCHES
	20. LENGTH <u>0.9</u>		MILES		AV. WIDTH <u>0.434</u>		MILES	
	21. MAX. ELEV. <u>8,383</u>		MIN. ELEV. <u>6,560</u>		25. CLIMATIC CLASSIFICATION <u>Humid</u>			
	20. LENGTH <u>0.9</u>		MILES		24. MEAN ANNUAL RUNOFF <u>3.06</u>		AC.-FT.	
SURVEY DATA	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	33. C/W RATIO AC.-FT. PER SQ. MI.
	1957	0.0	0.0	Detailed	-	0.0517	0.177	0.454
	1958	1.0	1.0	"	-	"	0.112	0.287
	1959	1.0	2.0	"	-	"	0.101	0.258
	1960	1.0	3.0	"	-	"	0.046	0.118
	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	
			1959	49.07	910	910	910	910
	1960	52.29	1,466	1,466	1,466	1,188	2,376	
	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	0.0487	0.0487	0.1248	0.0487	0.0487	0.1246
		1959	0.0100	0.0100	0.0256	0.0587	0.0293	0.0751
	1960	0.0683	0.0683	0.1750	0.1270	0.0633	0.1524	
	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