

RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-66

Fox Creek ^{1/}
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

75-7
DATA SHEET NO.

DAM	1. OWNER U.S. Forest Service		2. STREAM Fox		3. STATE Washington			
	4. SEC. 18 TWP. 28 N RANGE 19 E		5. NEAREST P.O. Ardenvoir		6. COUNTY Chelan			
	7. LAT. 47° 57' " LONG 120° 28' "		8. TOP OF DAM ELEVATION 2048		9. SPILLWAY CREST ELEV. 2045			
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN		
	a. FLOOD CONTROL					1960		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION							
	f. CONSERVATION					16. DATE NORMAL OPER. BEGAN		
	g. INACTIVE	2045	.0057	.1560	.1560	.1560	1960	
17. LENGTH OF RESERVOIR		.0065	MILES	AV. WIDTH OF RESERVOIR		.0035 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		1.82	SQ. MI.	22. MEAN ANNUAL PRECIPITATION		20.7 INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA		1.82	SQ. MI.	23. MEAN ANNUAL RUNOFF		6.7 INCHES	
	20. LENGTH	3 MILES	AV. WIDTH	1 MILES	24. MEAN ANNUAL RUNOFF		652.1 AC.-FT.	
	21. MAX. ELEV.		7100	MIN. ELEV.	2045	25. ANNUAL TEMP.: MEAN		44.3 RANGE -18 to 100
	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/I. RATIO, AC.-FT. PER AC.-FT.
Begin summer 1965	1	1						
Summer 1966	1	1						
1967	1	2						
1968	1	3						
1969	1	4						
1970	1	5						
1971	1	6						
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	
	1966	13-27"	652.1		652.1		652.1	
	1967						1304.2	
	1968						1956.3	
	1969						2608.4	
	1970						3260.5	
	1971						3912.6	
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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	
	Summer 66	.014	.014	.0076	.014	.014	.0076	
	67	.014	.014	.0076	.028	.014	.0076	
	68	.004	.004	.0022	.032	.011	.0038	
	69	.014	.014	.0076	.046	.0115	.0063	
	70	.000	.000	.0000	.046	.0092	.0051	
71	.105	.105	.0577	.151	.025	.0138		
26. DATE OF SURVEY	39. AV. DRY WGT., LBS. PER CU. FT.	40. SED. DEP., TONS PERSQ. MI.-YR.		41. STORAGE LOSS, PCT.		42. SED. INFLOW, PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE	
Summer 66	110	18.4	18.4					
67		18.4	18.4					
68		5.3	13.9					
69		18.4	15.1					
70		0.0	12.2					
71		-136.5	-33.1					

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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															
<p><u>1/</u> Weir pond used for research at which sediment is measured on an annual basis and is cleaned after each measurement.</p> <p><u>2/</u> Watershed vegetation destroyed by wildfire August 1970.</p>															
48. AGENCY MAKING SURVEY				49. AGENCY SUPPLYING DATA Forest Service											
						50. DATE _____									