

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Sullivan

SCS-34 Rev. 6-66

NAME OF RESERVOIR

76-23

DATA SHEET NO.

DAM	1. OWNER L. Sullivan			2. STREAM Trib. to rock			3. STATE WA.					
	4. SEC. NE <sup>1</sup> / <sub>4</sub> 5 TWP. 22N RANGE 45E			5. NEAREST P. O. Fairfield			6. COUNTY Spokane					
	7. LAT. 47° 26' " LONG. 117° 8' "			8. TOP OF DAM ELEVATION 103.0			9. SPILLWAY CREST ELEV. 100					
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										10/66	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION		100.0		4.03		7.93		7.93		10/66	
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR .02 MILES				AV. WIDTH OF RESERVOIR 0.315 MILES							
	18. TOTAL DRAINAGE AREA 0.547 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 19.0 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 0.541 SQ. MI.				23. MEAN ANNUAL RUNOFF 5.0 INCHES							
	20. LENGTH 1.4 MILES		AV. WIDTH 0.4 MILES		24. MEAN ANNUAL RUNOFF 146.0 AC.-FT.							
	21. MAX. ELEV. 2658		MIN. ELEV. 2560		25. ANNUAL TEMP: MEAN 46 RANGE 70-22							
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/I. RATIO, AC.-FT. PER AC.-FT.			
	10/66		--	--	--	--	4.03	7.93	.05			
	7/71		5	5	Range (D)	5	4.03	5.93	.04			
	7/73		2	7	"	3	4.03	3.02	.02			
	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			
	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				
7/71		2.0	0.40	0.74	2.0	0.40	0.74					
7/73		0.91	0.45	0.83	2.91	0.42	0.77					
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
7/71		60	966.7	966.7	5.0	25.2						
7/73		60	1,084	1,006.2	5.3	36.7						

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>Geology - Loess Soils          Soils - Nez Perce silt loam (5-20% slope)                    Larkin silt loam (5-20% slope)          Land Use - Peas - wheat (85%)                    Grass (15%)                    Grass waterways installed prior to dam construction.</p>															
48. AGENCY MAKING SURVEY				Soil Conservation Service				50. DATE				8/73			
49. AGENCY SUPPLYING DATA				Soil Conservation Service											