

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Main Fork Horse Creek

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

76-15

DATA SHEET NO.

DAM	1. OWNER USDA FS			2. STREAM Horse Creek			3. STATE Idaho									
	4. SEC. 28 TWP. 31N RANGE 9W			5. NEAREST P. O. Elk City 12NE			6. COUNTY Idaho									
	7. LAT 45° 59' " LONG. 115° 20'			8. TOP OF DAM ELEVATION --			9. SPILLWAY CREST ELEV. --									
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										10/1/65					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN					
	f. CONSERVATION 1/				0.08 2/		0.087 2/		0.087		10/1/65					
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR --- MILES				AV. WIDTH OF RESERVOIR --- MILES											
	18. TOTAL DRAINAGE AREA 6.51 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 40-45 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 6.51 SQ. MI.				23. MEAN ANNUAL RUNOFF 16.03 INCHES											
	20. LENGTH --- MILES		AV. WIDTH 1.30 MILES		24. MEAN ANNUAL RUNOFF 5.566 AC.-F.T.											
	21. MAX. ELEV. 5916		MIN. ELEV. 4100		25. ANNUAL TEMP.: MEAN 40°F * RANGE											
SURVEY DATA	26. DATE OF SURVEY 3/		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.	
	10/1/65		--		0											
	10/1/66		1.00		1.00		4/									
	10/1/67		1.00		2.00											
	10/1/68		1.00		3.00						0.08		0.087			
	10/1/69		1.00		4.00											
	10/1/70		1.00		5.00											
	10/1/71		1.00		6.00											
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET 5/				36. WATER INFL. TO DATE, AC.-FT.							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE			
	10/1/66		22-83		11.42		46.74		4,170		4,170		4,170			
	10/1/67		39-46		13.85		79.36		4,910*		4,910		9,080			
	10/1/68		47-52		17.42		58.33		6,250*		6,250		15,330			
	10/1/69		40-47		17.44		82.93		6,360*		6,360		21,690			
	10/1/70		39-47		16.82		105.19		6,140*		6,140		27,830			
10/1/71		42-49*		--		--		---		--		--				
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				
10/1/66		0.016		0.016		0.0024										
10/1/67		0.042		0.042		0.0064										
10/1/68		0.016		0.016		0.0024										
10/1/69		0.028		0.028		0.0043		6/								
10/1/70		0.031		0.031		0.0048										
10/1/71		0.087		0.087		0.0134										
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		
10/1/66				4.8				18								
10/1/67				12.9				48								
10/1/68		90 est.		4.7				18								
10/1/69				8.5				32								
10/1/70				9.4				36								
10/1/71				26.2				100								

*Assumed

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
 1/ Administrative study for bedload sediment and debris.
 2/ Combined figure for two sediment dams (100 ft. apart) on same stream.
 3/ Surveys made in late summer after all significant sediment capture for water year.
 4/ X-sectioning or volumetric measurements; ranges or contours not used.
 5/ Mean, maximum, and total for water year.
 6/ Sediment removed annually.

48. AGENCY MAKING SURVEY Nezperce N.F.
 49. AGENCY SUPPLYING DATA N.F. & Int. F&R Exp Sta
 50. DATE 11/1/71