

RESERVOIR SEDIMENT
DATA SUMMARY

Nevada Creek

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

NAME OF RESERVOIR

76-21

DATA SHEET NO.

DAM	1. OWNER Montana Dept. Nat. Res.		2. STREAM Nevada Creek		3. STATE Montana			
	4. SEC. 13 TWP. 12N RANGE 10W		5. NEAREST P. O. Helmville		6. COUNTY Powell			
	7. LAT 46° 48' 06" LONG. 112° 48' 42"		8. TOP OF DAM ELEVATION 4628		9. SPILLWAY CREST ELEV. 4616			
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					April 1940		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION	4616	448	12640	12640	April 1941		
	f. CONSERVATION							
g. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 2.13 MILES		AV. WIDTH OF RESERVOIR 0.33 MILES					
	18. TOTAL DRAINAGE AREA 145 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 17.4 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 140 SQ. MI.		23. MEAN ANNUAL RUNOFF 1.368 INCHES					
	20. LENGTH 70 MILES	AV. WIDTH 2 MILES	24. MEAN ANNUAL RUNOFF 10,580 AC.-F.T.					
	21. MAX. ELEV. 7210		MIN. ELEV. 4600		25. ANNUAL TEMP.: MEAN 43.2 RANGE 100 to -40			
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.
	Oct. 1937	0	0	--	--	448	12,640	1.195
	Sept. 1973	36	36	Contour Range	200 ft. grid	448	12,515	1.18
	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
		17.4	26,660					
	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	
	Sept. 1973	125	3.47	0.02	125	3.47	0.02	
	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	
Sept. 1973	49.75	21.67	21.67	.03	.99			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CPEST 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														
Sept. 1973 (estimated)					8	12	16	22	28	4					
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.) Average flows, climatic variables, and related material taken from USGS report "Water Resources Data for Montana 1971." 2.) Sedimentation determined by use of test boring and sampling on a 200-foot grid in dry pool. 3.) Determined from field samples. E - estimated 4.) 448 acres in pool area; 2780 acres controlled by other structures = 3228 acres non-contributing = 5 sq. miles.															
48. AGENCY MAKING SURVEY										50. DATE				1973	
49. AGENCY SUPPLYING DATA Soil Conservation Service															