

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Roby  
NAME OF RESERVOIR

75-22  
DATA SHEET NO.

DAM	1. OWNER V. C. Roby				2. STREAM Goose Creek				3. STATE Washington			
	4. SEC. SE <sup>1</sup> / <sub>4</sub> 6 TWP. 26 N RANGE 34 E				5. NEAREST P. O.				6. COUNTY Lincoln			
	7. LAT 47° 45' " LONG. 118° 44' "				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										1938	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION											
	f. CONSERVATION		100*		16.21		22.91		22.91		1938	
	g. INACTIVE											
WATERSHED	17. LENGTH OF RESERVOIR 0.32 MILES				AV. WIDTH OF RESERVOIR .10 MILES							
	18. TOTAL DRAINAGE AREA 4.10 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 12.00 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3.85 SQ. MI.				23. MEAN ANNUAL RUNOFF 1 INCHES							
	20. LENGTH 3.6 MILES		AV. WIDTH 1.2 MILES		24. MEAN ANNUAL RUNOFF 219 AC.-FT.							
	21. MAX. ELEV.		MIN. ELEV.		25. ANNUAL TEMP.: MEAN 46.6 RANGE 67.4-24.3							
	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.	
1938							16.21	22.91		0.10		
4-23-69		30	30	Range (D)	8		2.40	2.56		0.01		
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					
4-23-69		20.35	0.678	0.175	20.35	0.678	0.175					
4-23-69 **		35.57	1.185	0.308	35.57	1.185	0.308					
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				
4-23-69		70***	266	266	3	89						
4-23-69**		70***	479	479	5	-						

\* Sediment debris basin.

\*\* Includes delta deposit above reservoir area and 1.93 acre feet dredged from reservoir.

\*\*\* Estimated (semi-aerated state).

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

Geology - Loess overlies basalt rock.

Soils - Bagdad sil.

Land Use - small grain-fallow rotation 92%/ grassland 8%.

48. AGENCY MAKING SURVEY      Soil Conservation Service

49. AGENCY SUPPLYING DATA    Soil Conservation Service

50. DATE      May 1969