

RESERVOIR SEDIMENT  
DATA SUMMARY  
SCS-34 Rev. 6-62

BEAVER LAKE  
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

17-21

Board

DATA SHEET NO.

DAM	1. OWNER Jasper Utility Service/				2. STREAM Beaver Creek		3. STATE Indiana								
	4. SEC. 27 TWP. 1 S RANGE 4 W			5. NEAREST TOWN Dubois		6. COUNTY Dubois									
	7. STREAM BED ELEVATION 465*			8. TOP OF DAM ELEVATION 508*		9. SPILLWAY CREST ELEV. 498*									
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. MULTIPLE USE										Oct. 1955				
	b. FLOOD CONTROL														
	c. POWER														
	d. WATER SUPPLY		498*		204		2486		2486		16. DATE NORMAL OPER. BEGAN				
	e. IRRIGATION										April 1956				
	f. CONSERVATION														
	g. SEDIMENT														
	h. INACTIVE														
17. LENGTH OF RESERVOIR 0.99 <sup>1</sup> / <sub>4</sub> MILES					AV. WIDTH OF RESERVOIR 0.11 MILES										
WATERSHED	18. TOTAL DRAINAGE AREA 3.95 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 42.12 INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 3.57 SQ. MI.				23. MEAN ANNUAL RUNOFF 15.00* INCHES										
	20. LENGTH 1.70 MILES		AV. WIDTH 2.32 MILES		24. MEAN ANNUAL RUNOFF 3160 AC.-F.T.										
	21. MAX. ELEV. 712*		MIN. ELEV. 465*		25. CLIMATIC CLASSIFICATION Humid										
	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/W RATIO AC.-FT. PERSQ. MI.
10-15-55		-		-		-		-		204.0		2486.0		696 <sup>2</sup> / <sub>4</sub>	
10-9-64		9.0		9.0		Range (D)		26 R		198.8		2409.8		675 <sup>2</sup> / <sub>4</sub>	
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 SEDIMENT DEPOSITS 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			
10-9-64		76.2 <sup>3</sup> / <sub>4</sub> 80.3 <sup>4</sup> / <sub>4</sub>		8.5 <sup>3</sup> / <sub>4</sub> 8.9 <sup>4</sup> / <sub>4</sub>		2.38 <sup>3</sup> / <sub>4</sub> 2.49 <sup>4</sup> / <sub>4</sub>		76.2 <sup>3</sup> / <sub>4</sub> 80.3 <sup>4</sup> / <sub>4</sub>		8.5 <sup>3</sup> / <sub>4</sub> 8.9 <sup>4</sup> / <sub>4</sub>		2.38 <sup>3</sup> / <sub>4</sub> 2.49 <sup>4</sup> / <sub>4</sub>			
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. AN.		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE			
10-9-64		55.0 (9) 70.0 (2)		2851.0 <sup>3</sup> / <sub>4</sub> 3796.3 <sup>4</sup> / <sub>4</sub>		2851.0 <sup>3</sup> / <sub>4</sub> 3796.3 <sup>4</sup> / <sub>4</sub>		0.34 <sup>3</sup> / <sub>4</sub> 3.07 <sup>3</sup> / <sub>4</sub>							

\* Assumed or estimated

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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														
10- 9-64	3.7	3.5	5.5	5.8	13.9	8.8	21.7	19.0	9.8	8.2					

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/ Other arm lengths are 0.95 miles (2 of this length) and 0.31 (one)

2/ Based on runoff contributing area of 3.57 miles

3/ Up to and including spillway crest elevation (side spillway)--498

4/ Includes above crest -- mostly upstream -- deposits.

48. AGENCY MAKING SURVEY      Soil Conservation Service

49. AGENCY SUPPLYING DATA

50. DATE January 7, 1965