

RESERVOIR SEDIMENT
DATA SUMMARY

CAGLES MILL (CATARACT LAKE)
NAME OF RESERVOIR

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

17-23

DATA SHEET NO.

DAM	1. OWNER Corps of Engrs, US Army				2. STREAM Mill Creek				3. STATE Indiana			
	4. SEC. 100-29 TWP; Long Range - 55 W				5. NEAREST TOWN Cloverdale				6. COUNTY Putnam			
	7. STREAM BED ELEVATION 583.38				8. TOP OF DAM ELEVATION 730.0				9. SPILLWAY CREST ELEV. 704.0			
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										20 Dec 52	
	b. FLOOD CONTROL		704.0		4,840		201,010		228,120			
	c. POWER											
	d. WATER SUPPLY											
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN	
	f. CONSERVATION		636.0		1,400		27,110		27,110		6 July 53	
	g. SEDIMENT											
h. INACTIVE												
17. LENGTH OF RESERVOIR 1/ 11.0 MILES AV. WIDTH OF RESERVOIR 0.352 MILES												
WATERSHED	18. TOTAL DRAINAGE AREA 295 SQ. MI.				22. MEAN ANNUAL PRECIPITATION (1953-62) 39.7 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 287 SQ. MI.				23. MEAN ANNUAL RUNOFF 13.15 INCHES							
	20. LENGTH 44.6 MILES AV. WIDTH 6.61 MILES				24. MEAN ANNUAL RUNOFF 206,880 AC.-FT.							
	21. MAX. ELEV. 895.0 MIN. ELEV. 583.38				25. CLIMATIC CLASSIFICATION Humid							
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/W RATIO AC.-FT. PER SQ. MI.	
	Oct 1961								232,370 ^{2/}			
	Feb 1962		9.17	9.17	Range	45	4,840		230,906		782.7	
	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			
	Feb 1962		39.69		206,880	300,000 (1957)	1,913,640		206,880		1,913,640 (1953-1962)	
	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			
	Feb 1962		1463.56	159.60	0.54	1463.56		159.60	0.54			
	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. AN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
Feb 1962		62.8 ^{3/}		739	739	0.07	0.63	769.25	769.25			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
Feb 1962												

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														
Feb 1962	5.34	11.21	5.80	11.40	21.32	13.52	9.53	7.38	13.56	0.94					
								Doe Creek							

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV. ♡	INFLOW AC.-FT.
1953 <u>4/</u>	640.88	597.00	147,800	1958	668.10	627.94	258,600
1954	638.24	635.71	33,040	1959	661.11	635.97	236,900
1955	644.17	627.90	118,500	1960	665.27	635.88	232,200
1956	659.02	635.96	262,200	1961	679.30	635.91	241,400
1957	664.48	635.95	300,000	1962 <u>5/</u>	648.92	635.88	83,000

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY

47. REMARKS AND REFERENCES
1/ Mill Creek 11 miles - Doe Creek 5.8 miles, N.F. Doe Creek 2.6 miles, unnamed Trib. 2.2 miles.
2/ Revised from 228,120 to 232,370.
3/ Sediment was Gray, Silty Clay, CL-ML.
4/ Partial water year, beginning 20 Dec 1952.
5/ Partial water year ending 1 March 1962.

48. AGENCY MAKING SURVEY
49. AGENCY SUPPLYING DATA Louisville Dist, Corps of Engrs, US Army. DATE August 1962