

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

FONDULAC
NAME OF RESERVOIR

24-55
DATA SHEET NO.

DAM	1. OWNER Corps of Engineers		2. STREAM Fondulac Creek		3. STATE Illinois			
	4. SEC. 26 TWP. 26N RANGE 4W		5. NEAREST P O East Tazewell		6. COUNTY Tazewell			
	7. LAT " " LONG. " " "		8. TOP OF DAM ELEVATION 597		9. SPILLWAY CREST ELEV. 579			
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	579	97	2280	2280	1949		
	b. MULTIPLE USE					Sept		
	c. POWER							
	d. WATER SUPPLY							
	e. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION					Sept		
	g. INACTIVE					1949		
WATERSHED	17. LENGTH OF RESERVOIR 0.924		MILES		AV. WIDTH OF RESERVOIR 0.164			
	18. TOTAL DRAINAGE AREA 5.4		SQ. MI.		22. MEAN ANNUAL PRECIPITATION 33.86			
	19. NET SEDIMENT CONTRIBUTING AREA 5.25		SQ. MI.		23. MEAN ANNUAL RUNOFF 10.07			
	20. LENGTH 4		MILES		AV. WIDTH 1.35			
	21. MAX. ELEV. 820		MIN. ELEV. 535.8		24. MEAN ANNUAL RUNOFF 2900			
SURVEY DATA	26. DATE OF SURVEY	27. PERIOD YEARS	28. ACCL. YEARS	29. TYPE OF SURVEY	30. NO. OF RANGES	31. SURFACE AREA, ACRES	32. CAPACITY, ACRE-FEET	33. C.I. RATIO, AC. FT. PER AC. FT.
	Sept 1949	-	0	Range	11	97	2280	
	May 1950	0.75	0.75	Range	11	97		
	Nov 1954	4.5	5.25	Range	11	97		
	Oct 1961	6.92	12.17	Range	11	97		
	Nov 1962	1.08	13.25	Range	11	97		
	Jun 1963	0.58	13.83	Range	11	97	2163	.746
	May 1970	6.92	20.75	Range	11	97	2150	.741
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.		
	Sept 1949	-	a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE	
	May 1950	-	-	-	-	-	-	
	Nov 1954	35.65	2295	3228	10144	2598	13225	
	Oct 1961	33.09	2569	3663	17777	2581	31002	
	Nov 1962	26.82	2989	3211	3228	2615	34230	
	Jun 1963	-	-	-	285	2525	34515	
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		
Jun 63	117	8.46	1.61	117.0	8.46	1.61		
May 70	13	1.88	.36	130.0	6.27	1.19		
Apr 72	5	2.60	.50	135.0	5.96	1.13		
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	
	1/	-	-	-	-	-	-	

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.
1950	555.2	535.8 ^{2/}	3880	1962	550.05 ^{4/5/}	535.8 ^{2/}	3330
1951	547.5	535.8	3030	1963		535.8	370
1952	548.9	535.8	3230	1964	548.4	535.8	1230
1953	550.9	535.8	1270	1965	555.4	535.8	7980
1954	549.3	535.8	1770	1966	550.5	535.8	3600
1955	547.7	535.8	2780	1967	552.5	535.8	4230
1956	544.7	535.8	330	1968	552.2	535.8	3950
1957	557.0	535.8	2650	1969	546.85	535.8	2810
1958	550.35	535.8	3020	1970	552.5	535.8	3810
1959	555.1	535.8	1840	1971	548.3	535.8	1740
1960	550.5 ^{3/}	535.8	3420	1972	549.8	535.8	-
1961	554.9 ^{3/}	535.8	3660				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
530.0	0	0	560.0	60.2	795	590.0	121.4	3490
535.0	2.3	10	565.0	70.0	1120	595.0	133.7	4160
540.0	10.5	55	570.0	79.4	1490	600.0	147.5	4820
545.0	25.2	140	575.0	89.0	1910			
550.0	38.5	300	580.0	98.8	2390			
555.0	49.8	520	585.0	109.7	2910			

47. REMARKS AND REFERENCES

1/ No sediment samples taken.
 2/ Invert elevation of outlet structure: No inflow for many days each year.
 3/ Record gage out of operation June thru Jul 23.
 4/ No record July, Aug., & Sept., Recorder being repaired.
 5/ No storage.

48. AGENCY MAKING SURVEY Corps of Engineers
 49. AGENCY SUPPLYING DATA Corps of Engineers
 50. DATE Nov 1972