

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

FARMDALE
NAME OF RESERVOIR

24-54
DATA SHEET NO.

DAM	1. OWNER CORPS OF ENGINEERS			2. STREAM FARM CREEK			3. STATE ILLINOIS									
	4. SEC. 31 TWP. 26N RANGE 3W			5. NEAREST P.O. East Peoria			6. COUNTY TAZEWELL									
	7. LAT " LONG. "			8. TOP OF DAM ELEVATION 931			9. SPILLWAY CREST ELEV. 616									
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		616		385		11300		11300		AUG 1951					
	b. MULTIPLE USE															
	c. POWER															
	d. WATER SUPPLY															
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN					
	f. CONSERVATION										AUG 1951					
	g. INACTIVE															
WATERSHED	17. LENGTH OF RESERVOIR 1.94 MILES				AV. WIDTH OF RESERVOIR 0.31 MILES											
	18. TOTAL DRAINAGE AREA 26.5 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 33.46 INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 23.0 SQ. MI.				23. MEAN ANNUAL RUNOFF 7.61 INCHES											
	20. LENGTH 7.5 MILES		AV. WIDTH 3.5 MILES		24. MEAN ANNUAL RUNOFF 10755.5 AC.-FT.											
	21. MAX. ELEV. 820		MIN. ELEV. 546		25. ANNUAL TEMP MEAN 51° RANGE											
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.	
	Aug 1951		-		-		Range		47		385		11300			
	Nov 1953		2.33		2.33		Range		47		385		-			
	Oct 1962		8.92		11.25		Range		17		385		-			
	June 1963		0.67		11.92		Range		17		385		11189		1.040	
	May 1970		6.92		18.84		Range		17		385		11095		1.032	
	Apr 1972		1.92		20.75		Range		17		385		11089		1.031	
	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			
	Aug 1951		-		-		-		-		-		-			
	Nov 1953		31.88		9935		15546		22354		9935		22354			
	Oct 1962		33.58		9186		15546		81939		9337		104293			
	June 1963		-		-		-		2388		9010		106681			
	May 1970		34.71		12677		21594		87725		10319		194406			
	Apr 1972		34.19		15093		10149		28978		10765		223384			
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		PER SQ. MI. YEAR				
June 1963		111		9.31		.36		111.0		9.3		.36				
May 1970		94		13.58		.52		205		10.88		.42				
Apr 1972		6		3.12		.12		211		10.17		.39				
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		
		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.
1952	565.4	546.0 ^{2/}	15550	1962	569.15	546.0 ^{2/}	15550
1953	567.1	546.0	6390	1963	551.5	546.0	2670
1954	567.5	546.0	9410	1964	566.05	546.0	4270
1955	562.2	546.0	11210	1965	568.6	546.0	21590
1956	557.3	546.0	1310	1966	570.42	546.0	15155
1957	567.4	546.0	5990	1967	562.4	546.0	10600
1958	564.0	546.0	9690	1968	569.1	546.0	13800
1959	564.2	546.0	6900	1969	562.3	546.0	11070
1960	564.8	546.0	11430	1970	570.5	546.0	16360
1961	573.65	546.0	10330	1971	562.0	546.0	10150
				1972	561.9		

46. ELEVATION-AREA-CAPACITY DATA (1951)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
552.0	0	0	585.0	170.0	3150	620.0	410.0	13200
555.0	12.0	100	590.0	198.0	4020	625.0	440.0	15300
560.0	34.0	300	595.0	225.0	5000	630.0	472.0	17200
565.0	58.0	660	600.0	265.0	6200			
570.0	86.0	1050	605.0	315.0	7600			
575.0	118.0	1600	610.0	340.0	9200			
580.0	145.0	2300	615.0	380.0	11100			

47. REMARKS AND REFERENCES

1/ No sediment samples taken

2/ Invert elevation of outlet structure, no inflow for many days each year

48. AGENCY MAKING SURVEY Corps of Engineers

49. AGENCY SUPPLYING DATA Corps of Engineers

50. DATE Nov 1972