

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

SCS-34 Rev. 6-66

Plum Creek No. 17

NAME OF RESERVOIR

17-17 a

DATA SHEET NO.

Unnamed tributary

DAM	1. OWNER			2. STREAM Little Plum Creek			3. STATE Kentucky				
	4. SEC.		TWP.		RANGE		5. NEAREST P. O. Taylorville		6. COUNTY Spencer		
	7. LAT. 38° 04' W " LONG. 85° 25' W "			8. TOP OF DAM ELEVATION 613			9. SPILLWAY CREST ELEV. 608				
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		608		8.7		96.0		126.3		Dec., 1956
	b. MULTIPLE USE		--								
	c. POWER		--								
	d. WATER SUPPLY		--								
	e. IRRIGATION		--								Dec., 1956
	f. CONSERVATION		--								
	g. INACTIVE		593		3.2		30.3		30.3		
17. LENGTH OF RESERVOIR					0.29 MILES		AV. WIDTH OF RESERVOIR		0.05 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA				0.56 SQ. MI.		22. MEAN ANNUAL PRECIPITATION (68 yrs) 47 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA				0.55 SQ. MI.		23. MEAN ANNUAL RUNOFF 16.3 INCHES				
	20. LENGTH 1.00 MILES		AV. WIDTH 0.56 MILES		24. MEAN ANNUAL RUNOFF 487 AC.-FT.						
	21. MAX. ELEV. 750		MIN. ELEV. 574		25. ANNUAL TEMP.: MEAN RANGE						
	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.		
12/28/56 4/02/59		2.33	2.33	Range Detailed	8^{1/}	3.16(8.71) 3.16(8.71)	30.3(126.3) 27.7(123.7)	.06 (0.26) .06 (0.25)			
10/14/60 3/06/75		1.5 14.42	3.83 18.25	Range (D)	4^{2/}	3.16(8.71) 3.16(8.71)	25.2(121.2) 21.4(117.4)	.05 (0.25) .04 (0.24)			
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			
SURVEY DATA	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			
	4/2/59		2.56	1.12	2.01	2.56	1.12	2.01			
	10/14/60		2.50	1.67	3.00	5.13	1.33	2.40			
3/6/75		3.80	0.26	0.47	8.9	0.49	0.88				
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		
4/2/59		56		2452		3.7	8.6				
10/14/60		47		2581		(.88)	(2.1)				
3/6/75		53		633		4.4	16.8				
						(1.05)	(4.0)				
						1.61	29.4				

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
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
4/02/59	13	45	19	13	10	0	0	0	0	0				
4/14/60	16	47	16	12	9	0	0	0	0	0				
3/6/75	R-1	R-2	R-3	R-4	R-5									
	18	47	25	9	1									
45. RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.							
6-9/1957			26.2											
1957-1958			635											
46. ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY						
47. REMARKS AND REFERENCES														
<p>Where double entries appear, the upper entry refers to sediment pool only and the lower entry, in parentheses, refers to totals at crest of emergency spillway elevation. Accumulated acre-feet at flood control elevation (space 14a) corrected 1/61, and spaces 32, 33, 41a, and 41b revised accordingly.</p> <p>Land use in watershed: 15% cropland; 45% grassland; 40% woodland</p> <p>Major soil types in Drainage Area: Lowell and Fairmount</p> <p>1/ Flood Pool</p> <p>2/ Sediment Pool only</p>														
48. AGENCY MAKING SURVEY						50. DATE								
49. AGENCY SUPPLYING DATA USDA-SCS Lexington, Kentucky						March 1975								