

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Cypress Creek MPS #3

NAME OF RESERVOIR

Bordley Quadrangle

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

16-38

DATA SHEET NO.

DAM	1. OWNER Cypress Creek W/S C.D.			2. STREAM Dyson Creek			3. STATE Kentucky												
	4. SEC. TWP. RANGE			5. NEAREST P.O. Sturgis			6. COUNTY Union												
	7. LAT. 37° 34' 43" LONG. 87° 51' 20"			8. TOP OF DAM ELEVATION 425.2			9. SPILLWAY CREST ELEV. 422.1												
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		423.1		54.5		108.5		602.69		16. DATE NORMAL OPER. BEGAN Oct., 1965								
	b. MULTIPLE USE		420.0		48.6		389.3		494.19										
	c. POWER																		
	d. WATER SUPPLY																		
	e. IRRIGATION																		
	f. CONSERVATION																		
g. INACTIVE ^{1/}						104.89		104.89											
WATERSHED	17. LENGTH OF RESERVOIR Y-shaped			0.7 MILES			AV. WIDTH OF RESERVOIR			0.12 MILES									
	18. TOTAL DRAINAGE AREA			0.68 SQ. MI.			22. MEAN ANNUAL PRECIPITATION			41.98 (11 yr.) INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA			0.60 SQ. MI.			23. MEAN ANNUAL RUNOFF			13.84 (last 6 yr.) INCHES									
	20. LENGTH 1.2 MILES			AV. WIDTH 0.5F MILES			24. MEAN ANNUAL RUNOFF			501.90 (last 6 yr.) AC.-FT.									
	21. MAX. ELEV. 525.0			MIN. ELEV. 396.2			25. ANNUAL TEMP: MEAN 60°			RANGE Jan. 35° July 78°									
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.				
	Oct. 1965		-		-				-		54.5		602.69		1.2				
	June 1971		5.66		5.66		Range		14R		47.08^{2/}		494.19		0.99				
											47.08^{2/}		494.19		0.99				
											47.08^{2/}		475.10		0.95				
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET				36. WATER INFL. TO DATE, AC.-FT.										
			44.03		a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		a. MEAN ANNUAL		b. TOTAL TO DATE						
	June 1971																		
	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	
June 1971		19.09^{2/}			3.37			5.58			19.09^{2/}			3.37			5.58		
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							
June 1971		69*		8391		8445		0.68^{2/}		3.86^{2/}									
				8391		8391		0.68^{2/}		3.86^{2/}									

*Assumed

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														
June 1971	Seg. 1	Seg. 2	Seg. 3	Seg. 4	Seg. 5	Seg. 6	Seg. 7	Seg. 8	Seg. 9	Seg. 10	Seg. 11	Seg. 12	Seg. 13	Seg. 14	Seg. 15
	1.84	10.74	1.37	12.05	1.63	12.10	8.44	11.78	1.11	8.54	14.36	2.41	9.96	3.20	0.47

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
Original Capacity		Oct. 1965	June - 1971	Capacity				
423.1	54.5	602.69	422.1	47.08	475.1			
422.1	48.6	494.19						

47. REMARKS AND REFERENCES

1/ Sediment Pool Only
 2/ Multiple Use Pool

Land Use in Watershed: 15% cropland; 60% grassland; 20% woodland; 5% misc.

Geology: The watershed lies in the extreme western portion of the Western Kentucky Coal Field Physiographic Region. The Pottsville-Allegheny and Conemaugh Series of Pennsylvanian Age are represented. These are predominantly shale and sandstone formations.

48. AGENCY MAKING SURVEY River Basin-Watershed Planning Staff, Lexington, Ky.
 49. AGENCY SUPPLYING DATA Soil Conservation Service
 50. DATE September 7, 1971