RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

East Fork Pond River #5A
NAME OF RESERVOIR

Honey Grove Quadrangle

18-14
DATA SHEET NO.

DAM

1. OWNER E.F. Pond River W/S C.D.	2. STREAM Buck Creek	3. STATE Kentucky
4. SEC. TWP. RANGE	5. NEAREST P.O. Hopkinsville	6. COUNTY Christian, Todd, & Muhlenberg
7. LAT. 36° 59' 12" LONG. 87° 18' 13"	8. TOP OF DAM ELEVATION	9. SPILLWAY CREST ELEV.

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	479.0	316.9	4951	5504.65	April 1970
b. MULTIPLE USE					
c. POWER					16. DATE NORMAL OPER. BEGAN
d. WATER SUPPLY					
e. IRRIGATION					July 1970
f. CONSERVATION					
g. INACTIVE	457.8	99	553.65	553.65	

WATERSHED

17. LENGTH OF RESERVOIR	1.74 MILES	AV. WIDTH OF RESERVOIR	0.28 MILES
18. TOTAL DRAINAGE AREA	21.08 SQ. MI.	22. MEAN ANNUAL PRECIPITATION	49 INCHES
19. NET SEDIMENT CONTRIBUTING AREA	20.58 SQ. MI.	23. MEAN ANNUAL RUNOFF	17.14 INCHES
20. LENGTH 8.56 MILES	AV. WIDTH 2.46 MILES	24. MEAN ANNUAL RUNOFF	19269 AC.-F T.
21. MAX. ELEV. 772.3	MIN. ELEV. 446.3	25. ANNUAL TEMP.: MEAN 38-79 RANGE	111°F-(-18°F)

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.
April 1970					316.9	5504.65	.29
					99 1/	553.65 1/	
4/17/75	5	5	Range (D)	11	99 1/	532.13 1/	
						5483.13	.29

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

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
4/17/75	21.52	4.30	0.21	21.52	4.30	0.21

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
4/17/75	60*	273	273	0.08	0.39		

*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														
4/17/55	6	27	17	23	10	10	2	1	1	3					

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

47. REMARKS AND REFERENCES 1/ Sediment Pool

Land use in watershed: 20 percent cropland; 10 percent grassland; 65 percent woodland; 2 percent misc. Roads in the drainage area use all black-topped. With the exception of four miles, all roadbanks are partially stabilized.

Major soil types in Drainage Area: Zanesville, Frondorf, and Sadler

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA USDA-SCS Lexington, Kentucky

50. DATE April 1975