

RESERVOIR SEDIMENT  
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

Colonial Mine Lake

NAME OF RESERVOIR

19- 54

DATA SHEET NO.

SCS-34 Rev. 6-66

Pittsburg &

DAM	1. Midway Coal Co.		2. STREAM <u>Lambs Creek</u>		3. STATE <u>Kentucky</u>		
	4. U.S.C. & G.S. Grid Coord.		5. NEAREST P.O. <u>Beulah</u>		6. COUNTY <u>Hopkins</u>		
	7. <u>1,450,000</u> <u>345,500</u>		8. TOP OF DAM ELEVATION <u>411.8</u>		9. SPILLWAY CREST ELEV. <u>407</u>		
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					Fall 1947	
	b. MULTIPLE USE						
	c. POWER						
	d. WATER SUPPLY	<u>407.</u>	<u>34*</u>	<u>206.77</u>	<u>206.77</u>	16. DATE NORMAL OPER. BEGAN	
	e. IRRIGATION					Fall 1947	
	f. CONSERVATION						
	g. INACTIVE						
17. LENGTH OF RESERVOIR ( <u>2000 ft.</u> )			<u>.379</u> MILES	18. AV. WIDTH OF RESERVOIR ( <u>850 ft.</u> )		<u>.164</u> MILES	
18. TOTAL DRAINAGE AREA			<u>1.05</u> SQ. MI.	22. MEAN ANNUAL PRECIPITATION <u>40-50</u> INCHES			
19. NET SEDIMENT CONTRIBUTING AREA			<u>1.00</u> SQ. MI.	23. MEAN ANNUAL RUNOFF <u>17</u> INCHES			
20. LENGTH <u>1.0</u> MILES		AV. WIDTH <u>1.0</u> MILES		24. MEAN ANNUAL RUNOFF <u>907</u> AC.-FT.			
21. MAX. ELEV. <u>558</u>		MIN. ELEV. <u>407</u>		25. ANNUAL TEMP: MEAN <u>July 80°</u> <u>Jan. 38°</u> RANGE <u>110° to -20°</u>			
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.
<u>Fall 1947</u>	<u>-</u>	<u>-</u>				<u>206.77</u>	<u>0.227</u>
<u>5/25/67</u>	<u>20</u>	<u>20</u>	<u>Range (D)</u>	<u>8 ranges</u>	<u>33.77</u>	<u>193.93</u>	<u>0.214</u>
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	
<u>5/25/67</u>	<u>47</u>	<u>907</u>	<u>1050</u>	<u>18,120</u>	<u>907</u>	<u>18,120</u>	
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	
<u>5/25/67</u>	<u>12.84</u>	<u>.642</u>	<u>.642</u>	<u>12.84</u>	<u>.642</u>	<u>.642</u>	
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
<u>5/25/67</u>	<u>70*</u>	<u>978.79</u>	<u>978.79</u>	<u>0.31</u>	<u>6.20</u>	<u>795</u>	<u>795</u>

SURVEY DATA

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														
5/25/67	3	18	11	9	9	8	10	10	15	7					

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

This sediment survey was made for the purpose of determining sediment field data for use in structure design - Clear Creek Watershed - There has not been any strip mine activity within the lake's drainage area. Cover conditions are described as "Fairly Good". The lake is located about 8 miles west of Madisonville, Kentucky, just south of Kentucky Hwy. 70. Land use of drainage area--woods 49%, idle 15%, pasture 13%, meadow 13%, crops 5%, roads and railroads 5%.

\*Estimate

48. AGENCY MAKING SURVEY Kentucky Watershed Planning Party, Soil Conservation Service  
 49. AGENCY SUPPLYING DATA Soil Conservation Service, U.S.D.A. 50. DATE November 30, 1967