

**RESERVOIR SEDIMENT
DATA SUMMARY**

SCS-34 Rev. 6-62

Lake Reel-Em-In (Walker Lake)

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

NAME OF RESERVOIR

16-30

U.S.Coast and Geodetic Survey Coordinates

DATA SHEET NO.

1,430,000 - 441,500, Dixon

DAM	1. OWNER D. W. Stearly			2. STREAM Unnamed		3. STATE Kentucky											
	4. SEC. TWP. RANGE		5. NEAREST TOWN Dixon			6. COUNTY Webster											
	7. STREAM BED ELEVATION -			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. MULTIPLE USE		420		59		659		659		1948						
	b. FLOOD CONTROL																
	c. POWER																
	d. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN						
	e. IRRIGATION																
	f. CONSERVATION																
	g. SEDIMENT										1948						
	h. INACTIVE																
17. LENGTH OF RESERVOIR 0.7 MILES				AV. WIDTH OF RESERVOIR 0.13 MILES													
WATERSHED		18. TOTAL DRAINAGE AREA 2.05 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 46.5 INCHES												
		19. NET SEDIMENT CONTRIBUTING AREA 1.96 SQ. MI.			23. MEAN ANNUAL RUNOFF 16 INCHES												
		20. LENGTH 2 MILES		AV. WIDTH 1.02 MILES		24. MEAN ANNUAL RUNOFF 1744 AC.-F.T.											
		21. MAX. ELEV. 637.		MIN. ELEV. 400.		25. CLIMATIC CLASSIFICATION Humid											
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/W RATIO AC.-FT. PER SQ. MI.	
		1948		-		-		-		-		59		659.0		321.5	
		5-21-64		16		16		Range (D)		8		59		515.4		251.4	
SURVEY DATA		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 SEDIMENT DEPOSITS 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						
		5-21-64		143.6		9.0	4.6	143.6		9.0	4.6						
SURVEY DATA		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. AN.	b. TOT. TO DATE	a. PERIOD		b. TOT. TO DATE						
		5-21-64		65 1/		6512.2	6512.2	1.37	21.8								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, 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														
5-21-64	7.3	7.2	7.2	10.1	10.7	14.0	16.1	15.2	9.3	3.0	0				

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/ Assumed

48. AGENCY MAKING SURVEY SCS, USDA
 49. AGENCY SUPPLYING DATA SCS, USDA

50. DATE Feb. 1966