U.S. DEPARTMENT OF AGRICULTURE

RESERVOIR SEDIMENTATION DATA SUMMARY

Byars Club Lake
NAME OF RESERVOIR

SOIL CONSERVATION SERVICE
50-2
DATA SHEET NO.

DAM

1. OWNER G.C. & S.F. Railroad	2. RIVER Unnamed Stream	3. STATE Oklahoma
4. SEC. 35,26 TWP. 5 N RANGE 2 E	5. NEAREST TOWN Byars	6. COUNTY McClain
7. STREAM BED ELEV. 957	8. TOP OF DAM ELEV. 980	9. SPILLWAY CREST ELEV. 976

RESERVOIR

10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. SURFACE AREA ACRES	13. STORAGE ACRE-FEET	14. ACCUMULATED ACRE-FEET	15. DATE STORAGE BEGAN
a. FLOOD CONTROL					1904
b. POWER					
c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN
d. IRRIGATION					
e. CONSERVATION	976	68.6	507	507	1904
f. INACTIVE					

17. LENGTH OF RESERVOIR 0.71 MILES | AV. WIDTH OF RESERVOIR 0.16 MILES

WATERSHED

18. TOTAL DRAINAGE AREA 2.66 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 35*	INCHES
19. NET SEDIMENT CONTRIBUTING AREA 2.55 SQ. MI.		23. MEAN ANNUAL RUNOFF	INCHES
20. LENGTH 2.2 MILES	AV. WIDTH 1.5 MILES	24. MEAN ANNUAL RUNOFF	AC.-FT.
21. MAX. ELEV.	MIN. ELEV.	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.
1904	-	-	-	-	68.6	507	191
1950	46	46	Range Rec.	5	68.6	371	139

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 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
1950	136	2.96	1.16	136	2.96	1.16

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. ANNUAL	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE
1950	-	-	-	0.58	26.82	-	-

* Estimated

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 LENGH 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														

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

Reference: A Reconnaissance Investigation of Sedimentation in Byars Club Lake by Jones and Ogle, March 28, 1950.

Sediment is principally dark gray clay with minor proportions of fine sand near shore and at the creek entrance.

48. AGENCY SUPPLYING DATA Region 4, Soil Conservation Service
U. S. Dept. of Agriculture
Fort Worth, Texas

49. DATE Aug. 3, 1950

AGR-SCS-BELTSVILLE, MD. 2392 MAY 1952