

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Bayou Bodcau

49- 6

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER U.S. Army, C. of E.		2. RIVER Bayou Bodcau		3. STATE Louisiana			
	4. SEC. 17, 18 TWP. 20N RANGE 11W		5. NEAREST TOWN Cotton Valley		6. COUNTY Bossier			
	7. STREAM BED ELEV. 154		8. TOP OF DAM ELEV. 230		9. SPILLWAY CREST ELEV. 219			
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	199.5	21,000	357,300	357,300	July 1949		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION					16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION							
f. INACTIVE					July 1949			
17. LENGTH OF RESERVOIR			48 MILES	AV. WIDTH OF RESERVOIR		1.5 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA		683 SQ. MI.	22. MEAN ANNUAL PRECIPITATION		4.9 INCHES		
	19. NET SEDIMENT CONTRIBUTING AREA		613 SQ. MI.	23. MEAN ANNUAL RUNOFF		17.53 INCHES		
	20. LENGTH	85 MILES	AV. WIDTH	8 MILES	24. MEAN ANNUAL RUNOFF		638,500 AC.-FT.	
	21. MAX. ELEV. 350		MIN. ELEV.	154	25. CLIMATIC CLASSIFICATION			Humid
	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. ML
Nov 1949 May 1961	Original 11.5	Survey 11.5	D-Check Ranges	43 5	44,950 44,950	967,900 1/ 967,900	1417 1417	
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		
May 1961	48.54	433,037	759,234	4,979,926	433,037	4,979,926		
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. ML.-YR.	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. ML.-YR.		
May 1961	No appreciable sedimentation.							
26. DATE OF SURVEY	39. AV. DRY WGT. LBS. PER CU. FT.	40. SED. DEP. TONS PER SQ. ML.-YR.		41. STORAGE LOSS PCT.		42. SED. INFLOW PPM		
		a. PERIOD	b. TOTAL TO DATE	a. AV. ANNUAL	b. TO DATE	a. PERIOD	b. TO DATE	

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														
45.		RANGE IN RESERVOIR OPERATION														
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.									
1950	184.89	157.50	764,422	1958	196.66	157.42	878,874									
1951	173.09	dry*	347,522	1959	168.59	157.33	210,586									
1952	173.76	dry*	414,112	1960	175.35	157.16	314,680									
1953	187.01	dry*	609,752	1961	172.48	157.39	467,138									
1954	166.50	dry*	147,772													
1955	169.31	dry*	273,940													
1956	169.05	dry*	143,214													
1957	184.44	dry*	547,634													
46.		ELEVATION-AREA-CAPACITY DATA														
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY								
150	0	0	190	13,320	194,020											
155	3	6	195	17,460	270,680											
160	470	923	200	21,390	367,820											
165	2,420	7,460	205	26,000	485,860											
170	4,550	25,220	210	31,720	630,160											
175	6,320	52,340	215	37,880	803,240											
180	8,310	88,950	220	46,950	1,013,850											
185	10,300	135,430	225	59,740	1,277,900											
47. REMARKS AND REFERENCES		<p>*Channel to outlet dry at elevation 157.0</p> <p>1/ Storage at spillway crest.</p>														
48. AGENCY SUPPLYING DATA		U.S. Army Engineer District, New Orleans. DATE 18 October 1961														