

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

Bayou Bodcau

NAME OF RESERVOIR

49-6a

DATA SHEET NO.

DAM	1. OWNER U.S. Army, C of E		2. STREAM Bayou Bodcau		3. STATE Louisiana			
	4. SEC 17, 18, TWP. 20N RANGE 11W		5. NEAREST P o Cotton Valley		6. COUNTY Bossier			
	7. LAT. 30° 21' 28" LONG. 93° 00' 00"		8. TOP OF DAM ELEVATION 230		9. SPILLWAY CREST ELEV. 219			
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	199.5	21,000	357,300	357,300	Jul 49		
	b. MULTIPLE USE							
	c. POWER							
	d. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	e. IRRIGATION							
	f. CONSERVATION					Jul 49		
WATERSHED	17. LENGTH OF RESERVOIR 4.8 MILES		AV. WIDTH OF RESERVOIR 1.5 MILES					
	18. TOTAL DRAINAGE AREA 683 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 43.77 (Dec 49, Apr 72) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 613 SQ. MI.		23. MEAN ANNUAL RUNOFF (23.4) 9.98 INCHES					
	20. LENGTH 85 MILES		AV. WIDTH 8 MILES		24. MEAN ANNUAL RUNOFF (23.4) 368,877 AC.-FT.			
	21. MAX. ELEV. 350		MIN. ELEV. 154		25. ANNUAL TEMP. MEAN 65°F RANGE -14°F to 114°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.
	Nov 49	Original Survey			43	44,950	967,900	2.62
	May 61	11.5	11.5	D-Check Ranges	5	44,950	967,900	2.62
	Apr 72	11.9	23.4	"	2	44,950	967,900	2.62
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-FEET			36. WATER INFL. TO DATE, AC.-FT.		
	Apr 72	39.00	a. MEAN ANNUAL 304,717	b. MAX. ANNUAL 715,663	c. PERIOD TOTAL 3,626,128	a. MEAN ANNUAL 368,877	b. TOTAL TO DATE 8,606,054	
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, ACRE-FEET			38. TOTAL SED. DEPOSITS TO DATE, ACRE-FEET			
	Apr 72	a. PERIOD TOTAL	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	No appreciable sedimentation							
	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		

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														

45. Apr 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	1962	182.01	157.68	715,663
1951	173.09	dry*	347,522	1963	166.41	157.46	184,339
1952	173.76	"	414,112	1964	176.81	157.14	266,584
1953	187.01	"	609,752	1965	174.37	157.48	308,214
1954	166.50	"	147,772	1966	185.65	157.53	324,921
1955	169.31	"	273,940	1967	163.75	157.47	121,531
1956	169.05	"	143,214	1968	175.03	157.46	442,471
1957	184.44	"	547,634	1969	178.26	157.38	468,574
1958	196.66	157.42	878,874	1970	173.44	157.44	353,874
1959	168.59	157.33	210,586	1971	164.80	157.45	161,784
1960	175.35	157.16	314,680				
1961	172.48	157.39	467,138				

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

*Channel to outlet dry at elevation 157.0

48. AGENCY MAKING SURVEY U.S. Army Engineer District, New Orleans, La. 31 Jan 73

49. AGENCY SUPPLYING DATA 50. DATE