

**RESERVOIR SEDIMENT
DATA SUMMARY**

Enid Reservoir
NAME OF RESERVOIR

15-31

DATA SHEET NO.

DAM	1. OWNER U. S. Army Corps of Engrs.			2. STREAM Yocona River			3. STATE Mississippi						
	4. SEC. 2 & 11 TWP. 11S RANGE 7W			5. NEAREST TOWN Enid, Miss.			6. COUNTY Yalobusha						
	7. STREAM BED ELEVATION 188.0			8. TOP OF DAM ELEVATION 293.0			9. SPILLWAY CREST ELEV. 268.0						
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										16 July 1951		
	b. FLOOD CONTROL		268.0		27,950		602,460		660,030				
	c. POWER												
	d. WATER SUPPLY												
	e. IRRIGATION										16. DATE NORMAL OPER. BEGAN		
	f. CONSERVATION		230.0		6,120		57,570		57,570		Feb. 1953		
	g. SEDIMENT												
h. INACTIVE													
17. LENGTH OF RESERVOIR 2.1 MILES AV. WIDTH OF RESERVOIR 2.10 MILES													
WATERSHED	18. TOTAL DRAINAGE AREA 560 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 51.6 (9.83) INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 516 SQ. MI.				23. MEAN ANNUAL RUNOFF 20.6 (9.83) INCHES								
	20. LENGTH 5.8 MILES AV. WIDTH 9.7 MILES				24. MEAN ANNUAL RUNOFF 615,300 (9.83) AC.-FT.								
	21. MAX. ELEV. 500 MIN. ELEV. 188				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. MI.	
7-16-51 1/				Contour D		5 ft		27,950		660,030		1179	
7-16-51 2/				Range D		58							
May 1961		9.83		9.83		Range D		27,950		657,201		1174	
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		51.6		615,300		1,051,300		6,050,700		615,300		6,050,700	
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	
May 1961		2,829		288		.558		2,829		288		.558	
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	
May 1961		60*		729		729		.044		.43		450	
		*Assumed											

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24. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION										
	73-58	58-48	48-38	38-28	28-18	18-8	8-Cr.				
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										
May 1961	5.8	10.9	21.1	24.4	27.3	9.3	1.2				

24. 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														
May 1961	6.5	11.7	6.5	19.9	20.6	19.1	12.1	3.4	0.2	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.
Jul 51-Oct 51	211.3	205.0	60,330	1960-May 61	258.8	229.7	562,690
1951-1952	231.0	207.1	644,520				
1952-1953	255.1	207.1	622,720				
1953-1954	238.6	230.1	302,250				
1954-1955	258.9	230.1	664,830				
1955-1956	249.8	229.9	486,830				
1956-1957	252.5	228.0	718,290				
1957-1958	252.0	229.6	999,640				
1958-1959	251.7	227.8	430,380				
1959-1960	249.1	227.7	558,210				

46. Original (1940) ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
195	4	0	214	1,000	3,510	250	16,130	270,040
196	7	6	216	1,650	6,120	255	18,970	358,200
198	14	27	218	2,230	10,040	260	21,980	460,172
200	23	64	220	2,760	15,040	265	25,730	579,480
202	34	121	222	3,280	21,080	270	29,520	717,460
204	50	203	225	4,140	32,190			
206	100	344	230	6,120	57,570			
208	180	624	235	8,170	93,360			
210	312	1,100	240	10,220	139,390			
212	570	1,970	245	12,970	197,340			

47. REMARKS AND REFERENCES

1/ Present thalweg distance along major stream to valley El. 268.0 after cutoffs thalweg distance along major stream to valley El. 288 before cutoffs was 37 mi.

1/ Survey of 1940 to determin reservoir area & volume.

2/ Original sediment range surveys of 1949-1951.