

TENNESSEE VALLEY AUTHORITY  
 RESERVOIR SEDIMENTATION  
 DATA SUMMARY

Guntersville  
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH  
 18-4  
 DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Alabama									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Guntersville			6. COUNTY Marshall									
	7. STREAM BED ELEV. 534			8. TOP OF DAM ELEV. 610			9. SPILLWAY CREST ELEV. 1/595.44									
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										1/16/39					
	b. POWER															
	c. MULTIPLE USE		595.44		70.700		162,900		1,018,700		16. DATE NORMAL OPER. BEGAN					
	d. INACTIVE 2/		593		62,600		831,500		855,800		8/1/39					
e. Lowest Outlet		558		2,600		24,300		24,000								
WATERSHED	17. LENGTH OF RESERVOIR 82.1 MILES						AV. WIDTH OF RESERVOIR 1.35 MILES									
	18. TOTAL DRAINAGE AREA 24,450 SQ. MI.						22. MEAN ANNUAL PRECIPITATION 51.6(15) INCHES									
	19. NET SEDIMENT CONTRIBUTING AREA 2550 SQ. MI.						23. MEAN ANNUAL RUNOFF 23.3(70) INCHES									
	20. LENGTH 57.4 MILES			AV. WIDTH 4.3 MILES			24. MEAN ANNUAL RUNOFF 30,407,000 AC.-FT.									
	21. MAX. ELEV. 6684			MIN. ELEV. 534			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.	
	Jan. 16, 1939						Range		24		70,700		1,018,700		-	
	Nov. 25, 1940		1.8		1.8		Range		24		70,700		3/1,012,825		-	
	Jun. 30, 1947		6.6		8.4		Range (D)		24		70,700		991,281		-	
	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		d. MEAN ANNUAL		b. TOTAL TO DATE			
	Jan. 16, 1939				23,971,888		-		43,149,398		23,971,888		0			
	Nov. 25, 1940		50.2		25,632,097		34,871,987		169,171,838		25,276,338		43,149,398			
	Jun. 30, 1947												212,321,236			
	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		d. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR				
Jan. 16, 1939		0		0		0		0		0		0				
Nov. 25, 1940		5,875		3264		1.280		5,875		3264		1.280				
Jun. 30, 1947		21,544		3264		1.280		27,419		3264		1.280				
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		
Nov. 25, 1940		55*		1533.3		1533.3		0.320		0.577		120		120		
Jun. 30, 1947				1533.3		1533.3		0.320		2.692		112		114		

1/ Top of gates.

2/ Lowest elevation for flat pool navigation requirements.

\* Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
	Not Computed												

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														
Jan. 16, 1939	0	0	0	0	0	0	0	0	0	0					
Nov. 25, 1940	-	-	-	-	-	-	-	-	-	-					
Jun. 30, 1947	21	26	18	14	4	2	2	5	5	3					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1940	595.28	592.80	17,233,410	1946	595.65	592.57	34,871,987
1941	595.55	592.00	15,095,649	1947	595.41	592.65	28,531,908
1942	595.38	592.68	16,149,264	1948	595.49	592.68	25,936,329
1943	595.86	592.75	29,537,165	1949	595.60	592.39	36,750,808
1944	596.29	592.06	25,715,673	1950	595.56	592.39	38,996,142
1945	595.57	592.45	25,307,441	1951	595.49	592.47	30,174,948

46. ELEVATION-AREA-CAPACITY DATA (1939)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
550	1,250	7,000	580	28,800	263,800			
555	2,000	15,000	585	42,200	440,800			
560	3,200	31,500	590	54,100	681,300			
565	5,000	54,600	595.44	70,700	1,018,700			
570	8,500	89,800						
575	15,800	150,800						

47. REMARKS AND REFERENCES  
3/ Estimated capacity at time of original survey Nov. 25, 1940.

48. AGENCY SUPPLYING DATA  
 TENNESSEE VALLEY AUTHORITY  
 HYDRAULIC DATA BRANCH

49. DATE March 1, 1952

TENNESSEE VALLEY AUTHORITY  
 RESERVOIR SEDIMENTATION  
 DATA SUMMARY

Guntersville  
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH  
 18-4a  
 DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Alabama					
	4. SEC. TWP. RANGE			5. NEAREST TOWN Guntersville			6. COUNTY Marshall					
	7. STREAM BED ELEV. 534			8. TOP OF DAM ELEV. 610			9. SPILLWAY CREST ELEV. 595.44					
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										1/16/39	
	b. POWER											
	c. MULTIPLE USE		595.44		71,210		262,380		1,097,380		16. DATE NORMAL OPER. BEGAN	
	d. INACTIVE 2/		593		59,100		805,000		835,000		8/1/39	
	e. Lowest Outlet		555		2,900		30,000		30,000			
WATERSHED	17. LENGTH OF RESERVOIR 82.1 MILES				AV. WIDTH OF RESERVOIR 1.35 MILES							
	18. TOTAL DRAINAGE AREA 24,450 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 50.6(18) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 2,550 SQ. MI.				23. MEAN ANNUAL RUNOFF 23.3(70) INCHES							
	20. LENGTH 574 MILES		AV. WIDTH 43 MILES		24. MEAN ANNUAL RUNOFF 30,407,000 AG.-FT.							
	21. MAX. ELEV. 6684		MIN. ELEV. 534		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.			
	Nov. 25, 1940		0	0	Range	24	71,210	1,097,380	-			
	Jun. 30, 1947		6.6	6.6	Range	24	71,210	1,080,897	-			
	May 16, 1952		4.9	11.5	Range (D)	24	71,210	1,096,740	-			
	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			
	Nov. 25, 1940											
	Jun. 30, 1947		50.2		25,632,097	34,871,987	169,171,838	25,632,097	169,171,838			
	May 16, 1952		55.2		32,591,976	38,996,142	159,700,684	28,597,611	328,872,522			
	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					
Nov. 25, 1940												
Jun. 30, 1947		16,483	2,497	0.979	16,483	2,497	0.979					
May 16, 1952		-15,842	-1,378	-0.540	641	131	0.051					
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				
Nov. 25, 1940												
Jun. 30, 1947		55*	1,173	1,173	0.228	1.50	86	86				
May 16, 1952		55*	-647	61	0.012	0.058	-87	2				

1/ Top of gates.  
 2/ Lowest elevation for flat pool navigation requirements.  
 \* Assumed.

25. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Total amount of sediment is too small for percentages to be significant.														

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														
Total amount of sediment is too small for percentages to be significant.															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1940	595.28	592.80	17,233,410	1946	595.65	592.57	34,871,987
1941	595.55	592.00	15,095,649	1947	595.41	592.65	28,531,908
1942	595.38	592.68	16,149,264	1948	595.49	592.68	25,936,329
1943	595.86	592.75	29,537,165	1949	595.60	592.39	36,750,808
1944	596.29	592.06	25,715,673	1950	595.56	592.39	38,996,142
1945	595.57	592.45	25,307,441	1951	595.49	592.47	30,174,948
				1952	595.29	592.55	29,536,313

46. ELEVATION-AREA-CAPACITY DATA (Nov. 25, 1940)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
	(Acres)	(Ac.-Ft.)		(Acres)	(Ac.-Ft.)			
526.6	0	0	580	29,109	330,325			
530	15	25	585	42,594	509,568			
540	880	4,475	590	54,534	752,387			
550	1,805	17,650	595	69,622	1,062,776			
560	4,479	46,822	595.44	71,210	1,097,380			
570	12,372	126,868						

47. REMARKS AND REFERENCES

48. AGENCY SUPPLYING DATA  
 TENNESSEE VALLEY AUTHORITY  
 HYDRAULIC DATA BRANCH

49. DATE April 1, 1955

TENNESSEE VALLEY AUTHORITY  
 RESERVOIR SEDIMENTATION  
 DATA SUMMARY

Guntersville  
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH  
 18-4b  
 DATA SHEET NO.

DAM	1. OWNER <b>TVA</b>			2. RIVER <b>Tennessee</b>			3. STATE <b>Alabama</b>									
	4. SEC. TWP. RANGE			5. NEAREST TOWN <b>Guntersville</b>			6. COUNTY <b>Marshall</b>									
	7. STREAM BED ELEV. <b>534</b>			8. TOP OF DAM ELEV. <b>610</b>			9. SPILLWAY CREST ELEV. <b>1/595.44</b>									
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															
	b. POWER										1/16/39					
	c. MULTIPLE USE		<b>599.44</b>		<b>71,210</b>		<b>262,380</b>		<b>1,097,380</b>		16. DATE NORMAL OPER. BEGAN					
	d. INACTIVE <b>2/</b>		<b>593</b>		<b>59,100</b>		<b>805,000</b>		<b>835,000</b>							
	e. lowest outlet		<b>555</b>		<b>2,900</b>		<b>30,000</b>		<b>30,000</b>		8/1/39					
WATERSHED	17. LENGTH OF RESERVOIR <b>82.1</b> MILES				AV. WIDTH OF RESERVOIR <b>1.35</b> MILES											
	18. TOTAL DRAINAGE AREA <b>24,450</b> SQ. MI.				22. MEAN ANNUAL PRECIPITATION <b>51.4(26)</b> INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA <b>2,550</b> SQ. MI.				23. MEAN ANNUAL RUNOFF <b>23.3(70)</b> INCHES											
	20. LENGTH <b>574</b> MILES		AV. WIDTH <b>43</b> MILES		24. MEAN ANNUAL RUNOFF <b>30,407,000</b> AC.-FT.											
	21. MAX. ELEV. <b>6684</b>		MIN. ELEV. <b>534</b>		25. CLIMATIC CLASSIFICATION <b>Humid</b>											
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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.	
	Nov. 25, 1940		0		0		Range		24		71,210		1,097,380		-	
	Jun. 30, 1947		6.6		6.6		Range		24		71,210		1,080,897		-	
	May 15, 1956		8.9		15.5		Range		24		71,210		1,073,164		-	
							(D)									
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AG-FT.							
					a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		d. MEAN ANNUAL		b. TOTAL TO DATE			
	Jun. 30, 1947		50.2		25,632,097		34,871,987		169,171,838		25,632,097		169,171,838			
	May 15, 1956		51.9		28,429,614		38,996,142		253,023,566		27,238,413		422,195,404			
	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		d. TOTAL TO DATE		b. AV. ANNUAL		c. PER SQ. MI.-YEAR				
Jun. 30, 1947		16,483		2,497		0.979		16,483		2,497		0.979				
May 15, 1956		7,734		869		0.341		24,217		1,562		0.613				
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		
Jun. 30, 1947		55*		1,173		1,173		0.228		1.500		86		86		
May 15, 1956		55*		408		734		0.142		2.207		27		51		

- 1/ Top of Gates.
- 2/ Lowest elevation for flat pool navigation requirements.
- \* Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION										
	66-55	55-45	45-35	35-25	25-15	15-10	10-5	5-Top	of Gates		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										
Jun. 30, 1947	2	5	11	22	48	18	1	3/	-7		
May 15, 1956	5	8	12	18	39	11	7		0		

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														
Jun. 30, 1947	22	34	17	10	1	0	1	4	7	4					
May 15, 1956	18	30	16	14	3	6	2	3	5	3					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1940	595.28	592.80	17,233,410	1949	595.60	592.39	36,750,808
1941	595.55	592.00	15,095,649	1950	595.56	592.39	38,996,142
1942	595.38	592.68	16,149,264	1951	595.49	592.47	30,174,948
1943	595.86	592.75	29,537,165	1952	595.29	592.55	29,536,313
1944	596.29	592.06	25,715,673	1953	595.49	591.65	24,510,269
1945	595.57	592.45	25,307,441	1954	595.41	591.70	21,940,882
1946	595.65	592.57	34,871,987	1955	595.38	592.55	23,492,376
1947	595.41	592.65	28,531,908	1956	595.39	592.39	23,931,324
1948	595.49	592.68	25,936,329				

46. ELEVATION-AREA-CAPACITY DATA (1940)								
ELEVATION	AREA (acres)	CAPACITY (ac-ft)	ELEVATION	AREA (acres)	CAPACITY (ac-ft)	ELEVATION	AREA	CAPACITY
526.6	0	0	585	42,594	509,568			
530	15	25	590	54,534	752,387			
540	880	4,475	595	69,622	1,062,776			
550	1,805	17,650	595.44	71,210	1,097,380			
560	4,479	46,822						
570	12,372	126,868						
580	29,109	330,325						

47. REMARKS AND REFERENCES  
3/ Scour - considered negative sediment.

48. AGENCY SUPPLYING DATA  
 TENNESSEE VALLEY AUTHORITY  
 HYDRAULIC DATA BRANCH

49. DATE **September 1, 1966**

TENNESSEE VALLEY AUTHORITY  
 RESERVOIR SEDIMENTATION  
 DATA SUMMARY

Guntersville  
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH  
 18-4c  
 DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Alabama									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Guntersville			6. COUNTY Marshall									
	7. STREAM BED ELEV. 534			8. TOP OF DAM ELEV. 610			9. SPILLWAY CREST ELEV. 1/595.44									
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										1/16/39					
	b. POWER															
	c. MULTIPLE USE		595.44		71,210		262,380		1,097,380		16. DATE NORMAL OPER. BEGAN					
	d. INACTIVE		593		59,100		805,000		835,000							
	e. lowest outlet		555		2,900		30,000		30,000		8/1/39					
WATERSHED	17. LENGTH OF RESERVOIR 82.1 MILES				AV. WIDTH OF RESERVOIR 1.35 MILES											
	18. TOTAL DRAINAGE AREA 24,450 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 51.4(26) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 2,550 SQ. MI.				23. MEAN ANNUAL RUNOFF 23.3(70) INCHES											
	20. LENGTH 574 MILES AV. WIDTH 43 MILES				24. MEAN ANNUAL RUNOFF 30,407,000 AG.-FT.											
	21. MAX. ELEV. 6684		MIN. ELEV. 534		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.	
	July 6, 1961		5.1		20.6		Range		24		71,210		1,064,228			
							(D)									
	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		d. MEAN ANNUAL		e. TOTAL TO DATE			
	July 6, 1961		52.3		28,213,460		35,545,510		143,888,644		27,479,808		566,084,048			
	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		d. TOTAL TO DATE		e. AV. ANNUAL		f. PER SQ. MI.-YEAR			
	July 6, 1961		8,936		1,752		0.687		23,153		1,609		0.631			
	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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE		
July 6, 1961		55*		823		756		0.147		3.021		55		52		

1/ Top of Gates.

2/ Lowest elevation for flat pool navigation requirements.

\* Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION													
	66-55	55-45	45-35	35-25	25-15	15-10	10-5	5-Top of Gates						
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
July 6, 1961	2	7	15	19	46	9	3	3/ -1						

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														
July 6, 1961	15	34	21	14	3	4	2	2	3	2					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1957	595.44	592.73	30,846,400				
1958	595.49	592.75	35,545,510				
1959	595.40	592.70	20,289,023				
1960	595.45	592.70	28,005,632				
1961	595.44	592.70	28,474,531				

46. ELEVATION-AREA-CAPACITY DATA (1940)								
ELEVATION	AREA (acres)	CAPACITY (ac-ft)	ELEVATION	AREA (acres)	CAPACITY (ac-ft)	ELEVATION	AREA	CAPACITY
526.6	0	0	585	42,594	509,568			
530	15	25	590	54,534	752,387			
540	880	4,475	595	69,622	1,062,776			
550	1,805	17,650	595.44	71,210	1,097,380			
560	4,479	46,822						
570	12,372	126,868						
580	29,109	330,325						

47. REMARKS AND REFERENCES

3/ Scour - Considered as negative sediment.

48. AGENCY SUPPLYING DATA  
 TENNESSEE VALLEY AUTHORITY  
 HYDRAULIC DATA BRANCH

49. DATE September 1, 1966