

TENNESSEE VALLEY AUTHORITY
**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Chickamauga

HYDRAULIC DATA BRANCH
 20-23

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Tennessee								
	4. SEC. TWP. RANGE			5. NEAREST TOWN Chattanooga			6. COUNTY Hamilton								
	7. STREAM BED ELEV. 624			8. TOP OF DAM ELEV. 706			9. SPILLWAY CREST ELEV. 1/685.144								
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										1/15/40				
	b. POWER														
	c. MULTIPLE USE		685.144		39,400		329,400		705,300		16. DATE NORMAL OPER. BEGAN				
	d. INACTIVE 1/		675		24,800		375,100		375,900						
	e. Lowest Outlet		632		600		800		800		3/4/40				
17. LENGTH OF RESERVOIR 58.9 MILES					AV. WIDTH OF RESERVOIR 1.05 MILES										
WATERSHED	18. TOTAL DRAINAGE AREA 20,790 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 51.3(15) INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 1805 SQ. MI.				23. MEAN ANNUAL RUNOFF 24.1(70) INCHES										
	20. LENGTH 452 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 26,425,000 AC.-FT.										
	21. MAX. ELEV. 6684				MIN. ELEV. 624				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.
Jan. 15, 1940						Range		-		39,400		705,300			
Nov. 6, 1940		0.8		0.8		Range		26		39,400		2/ 703,540			
Jul. 29, 1947		6.7		7.5		Range (D)		26		39,400		688,801			
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			
Jan. 15, 1940				17,052,709		-		13,642,167		17,052,709		13,642,167		0	
Nov. 6, 1940				21,849,452		28,560,952		146,391,331		21,337,800		160,033,498			
Jul. 29, 1947		49.6													
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			
Jan. 15, 1940		0		0		0		0		0		0		0	
Nov. 6, 1940		1,760		2200		3/ -		1,760		2200		-		-	
Jul. 29, 1947		14,739		2200		-		16,499		2200		-		-	
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	
Jan. 15, 1940		60*		-		-		0.312		0.250		124		124	
Nov. 6, 1940				-		-		0.312		2.339		97		99	
Jul. 29, 1947				-		-									

1/ Top of gates.

2/ Estimated capacity at time of original survey, Nov. 6, 1940.

* 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. 15, 1940	0	0	0	0	0	0	0	0	0	0					
Nov. 6, 1940	-	-	-	-	-	-	-	-	-	-					
Jul. 29, 1947	9	19	15	16	14	10	7	6	2	2					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1940	685.00	633.21	14,777,257	1946	682.54	674.88	28,560,952
1941	684.70	673.71	13,355,756	1947	683.56	674.39	23,781,528
1942	684.25	673.27	14,062,733	1948	685.35	674.32	21,465,183
1943	684.75	673.90	25,930,462	1949	684.64	674.25	30,053,209
1944	682.10	673.64	22,466,012	1950	685.37	674.33	33,667,251
1945	684.65	674.48	22,289,752	1951	683.50	674.60	26,286,903

46. ELEVATION-AREA-CAPACITY DATA (1940)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
628	0	0	675	24,800	375,900			
630	200	200	680	31,000	514,700			
640	2,100	11,200	685.44	39,400	705,300			
650	4,400	42,700						
660	10,700	113,700						
665	15,100	178,000						
670	19,700	264,800						

47. REMARKS AND REFERENCES

3/ Sediment contributing area reduced by closing Watts Bar Dam Jan. 1, 1942.

4/ Lowest elevation for flat pool navigation requirements.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE March 1, 1952

TENNESSEE VALLEY AUTHORITY
**RESERVOIR SEDIMENTATION
 DATA SUMMARY**

Chickamauga

HYDRAULIC DATA BRANCH

20-23a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Tennessee					
	4. SEC. TWP.		RANGE		5. NEAREST TOWN Chattanooga			6. COUNTY Hamilton				
	7. STREAM BED ELEV. 624			8. TOP OF DAM ELEV. 706			9. SPILLWAY CREST ELEV. 1/685.44					
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				4/		4/		4/		1/15/40	
	b. POWER											
	c. MULTIPLE USE		685.44		40,760		344,516		746,951		16. DATE NORMAL OPER. BEGAN	
	d. INACTIVE 2/		675		25,555		394,636		402,435			
e. Lowest Outlet		632		1,315		7,799		7,799		3/4/40		
17. LENGTH OF RESERVOIR 58.9 MILES				AV. WIDTH OF RESERVOIR 1.05 MILES								
WATERSHED	18. TOTAL DRAINAGE AREA 20,790 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 49.9(18) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3/ 1,805 SQ. MI.				23. MEAN ANNUAL RUNOFF 24.1(70) INCHES							
	20. LENGTH 452 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 26,425,000 AC.-FT.							
	21. MAX. ELEV. 6684		MIN. ELEV. 624		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.	
Nov. 6, 1940		0	0	Range	27	40,760		746,951				
Jul. 29, 1947		6.7	6.7	Range	27	40,760		734,970				
Aug. 16, 1954		7.0	13.7	Range (D)	27	40,760		745,178				
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		
Nov. 6, 1940		49.6		21,849,452		28,560,952		146,391,331		21,337,800		
Jul. 29, 1947		51.9		25,375,467		33,667,251		177,628,269		23,651,066		
Aug. 16, 1954										24,019,600		
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	
Nov. 6, 1940		11,981		1,788	3/		11,981		1,788		3/	
Jul. 29, 1947		-10,208		-1,458	5/ -0.808		1,773		129		3/	
Aug. 16, 1954												
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		c. PERIOD		d. TOT. TO DATE	
Nov. 6, 1940		60*			0.239		1.604		79		79	
Jul. 29, 1947		60*	-1,056		0.017		0.237		-55		5	
Aug. 16, 1954												

1/ Top of gates.
 2/ Lowest elevation for flat pool navigation requirements.
 3/ Sediment contributing area reduced by closing Watts Bar Dam January 1, 1942, and Apalachia Dam February 14, 1943.
 * Assumed.

26. 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	685.00	633.21	14,777,257	1948	685.35	674.32	21,465,183
1941	684.70	673.71	13,355,756	1949	684.68	674.25	30,053,209
1942	684.25	673.27	14,062,733	1950	685.37	674.33	33,667,251
1943	684.75	673.90	25,930,462	1951	683.50	674.60	26,286,903
1944	682.10	673.64	22,466,012	1952	683.64	674.65	25,206,715
1945	684.65	674.48	22,289,752	1953	685.18	674.50	21,093,332
1946	682.54	674.88	28,560,952	1954	683.04	674.40	19,005,699
1947	683.56	674.39	23,781,528				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
	(Acres)	(Ac.-Ft.)		(Acres)	(Ac.-Ft.)			
617.4	0	0	662	12,432	160,333			
620	104	135	669	18,764	269,488			
630	1,139	4,739	675	25,555	402,435			
640	2,022	20,040	680	32,235	546,911			
650	5,723	57,703	685	39,891	727,224			
660	10,450	137,451	685.44	40,760	746,951			

47. REMARKS AND REFERENCES

4/ From first accurate area-volume curves, 1940 survey. Does not include original areas and volumes above Watts Bar Dam.

5/ (-) indicates scour. Considered as negative sediment.

6/ Includes Hiwassee River tributary.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE April 1, 1955

TENNESSEE VALLEY AUTHORITY
RESERVOIR SEDIMENTATION
DATA SUMMARY

Chickamauga
NAME OF RESERVOIR

HYDRAULIC DATA BRANCH
20-23 b
DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Tennessee					
	4. SEC. TWP. RANGE			5. NEAREST TOWN Chattanooga			6. COUNTY Hamilton					
	7. STREAM BED ELEV. 624			8. TOP OF DAM ELEV. 706			9. SPILLWAY CREST ELEV. 1/685.4					
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				4/		4/		4/		1/15/40	
	b. POWER											
	c. MULTIPLE USE		685.44		40,760		344,516		746,951		16. DATE NORMAL OPER. BEGAN	
	d. INACTIVE 2/		675		25,555		394,636		402,435			
	e. lowest outlet		632		1,315		7,799		7,799		3/4/40	
WATERSHED	17. LENGTH OF RESERVOIR 58.9 MILES				AV. WIDTH OF RESERVOIR 1.05 MILES							
	18. TOTAL DRAINAGE AREA 20,790 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 50.5(24) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 3/1,805 SQ. MI.				23. MEAN ANNUAL RUNOFF 24.1(70) INCHES							
	20. LENGTH 452 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 26,425,000 AC.-FT.							
	21. MAX. ELEV. 6684		MIN. ELEV. 624		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. 6, 1940		0	0	Range	27	40,760	746,951				
	Jul. 29, 1947		6.7	6.7	Range	27	40,760	734,970				
	Aug. 16, 1954		7.0	13.7	Range	27	40,760	745,178				
	May 4, 1956		1.8	15.5	Range	27	40,760	740,367				
					(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	a. MEAN ANNUAL	b. TOTAL TO DATE			
	Jul. 29, 1947		49.6		21,849,452	28,560,952	146,391,331	21,337,800	146,391,331			
	Aug. 16, 1954		51.9		25,375,467	33,667,251	177,628,269	23,651,066	324,019,600			
	May 4, 1956		29.7		20,420,794	20,860,073	36,757,425	23,275,937	360,777,029			
	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				
Jul. 29, 1947		11,981	1,778	3/	11,981	1,788	3					
Aug. 16, 1954		-10,208	-1,458	-0.808	1,773	129						
May 4, 1956		4,811	2,673	1.481	6,584	425						
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				
Jul. 29, 1947		60*		3/	0.239	1.604	79	79				
Aug. 16, 1954		60*	-1,056		0.017	0.237	-55	5				
May 4, 1956		60*	1,935		0.057	0.881	126	18				

- 1/ Top of gates.
 - 2/ Lowest elevation for flat pool navigation requirements.
 - 3/ Sediment contributing area reduced by closing Watts Bar Dam on January 1, 1942, and Apalachia Dam February 14, 1943.
- * Assumed.

26. 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	685.00	633.21	14,777,257	1948	685.35	674.32	21,465,183
1941	684.70	673.71	13,355,756	1949	684.68	674.25	30,053,209
1942	684.25	673.27	14,062,733	1950	685.37	674.33	33,667,251
1943	684.75	673.90	25,930,462	1951	683.50	674.60	26,286,903
1944	682.10	673.64	22,466,012	1952	683.64	674.65	25,206,715
1945	684.65	674.48	22,289,752	1953	685.18	674.50	21,093,332
1946	682.54	674.88	28,560,952	1954	683.64	674.40	19,005,699
1947	683.56	674.39	23,781,528	1955	683.75	674.74	20,860,073
				1956	684.85	674.68	21,510,462

46. ELEVATION-AREA-CAPACITY DATA (1940)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
617.4	0	0	662	12,432	160,333			
620	104	135	669	18,764	269,488			
630	1,139	4,739	675	25,555	402,435			
640	2,022	20,040	680	32,235	546,911			
650	5,723	57,703	685	39,891	727,224			
660	10,450	137,451	685.44	40,760	746,951			

47. REMARKS AND REFERENCES

4/ From first accurate area-volume curves, 1940 survey. Does not include original areas and volumes above Watts Bar Dam.

5/ (-) Indicates scour. Considered as negative sediment.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE **September 1, 1966**

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Chickamauga
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH
 20-23c
 DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Tennessee									
	4. SEC. TWP. RANGE		5. NEAREST TOWN Chattanooga			6. COUNTY Hamilton										
	7. STREAM BED ELEV. 624			8. TOP OF DAM ELEV. 706			9. SPILLWAY CREST ELEV. 1/685.44									
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				4/		4/		4/							
	b. POWER										1/15/40					
	c. MULTIPLE USE		685.44		40,760		344,516		746,951		16. DATE NORMAL OPER. BEGAN					
	d. INACTIVE		2/675		25,555		394,636		402,435							
	e. lowest outlet		632		1,315		7,799		7,799		3/4/40					
WATERSHED	17. LENGTH OF RESERVOIR 58.9 MILES				AV. WIDTH OF RESERVOIR 1.05 MILES											
	18. TOTAL DRAINAGE AREA 20,790 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 50.9(26) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 3/ 1,805 SQ. MI.				23. MEAN ANNUAL RUNOFF 24.1(70) INCHES											
	20. LENGTH 452 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 26,425,000 AC.-FT.											
	21. MAX. ELEV. 6,684		MIN. ELEV. 624		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.	
	Jun. 14, 1961		5.1		20.6		Range		26		40,760		738,820		-	
							(D)									
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET				36. WATER INFL. TO DATE AC.-FT.							
			52.0		a. MEAN ANNUAL		b. MAX. ANNUAL		c. PERIOD TOTAL		d. MEAN ANNUAL		e. TOTAL TO DATE			
	Jun. 14, 1961				24,660,643		30,302,723		125,789,008		23,619,711		486,566,037			
	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			
	Jun. 14, 1961		1,547		303		0.168		8,131		395		13			
	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					
		60*		a. PERIOD		b. TOTAL TO DATE		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE		
Jun. 14, 1961				220				0.053		1.089		12		16		

- 1/ Top of Gates.
- 2/ Lowest elevation for flat pool navigation requirements.
- 3/ Sediment contributing area reduced by closing Watts Bar Dam on Jan. 1, 1942, and Apalachia Dam on Feb. 14, 1943.
- 4/ From first accurate area-volume curves, 1940 survey. Does not include original areas & volumes above Watts Bar Dam.
- * Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	68-60	60-50	50-40	40-30	30-20	20-10	10-Top of Gates						
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Jun. 14, 1961	8	12	28	32	22	28	5/-30						

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. 14, 1961	14	15	17	24	19	12	2	0	5/-2	5/-1					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1957	683.01	674.70	27,863,613				
1958	685.32	674.77	30,302,723				
1959	684.85	674.71	18,056,594				
1960	683.90	674.67	24,916,529				
1961	683.90	674.56	24,550,705				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
617.4	0	0	669	18,764	269,488			
620	104	135	675	25,555	402,435			
630	1,139	4,739	680	32,235	546,911			
640	2,022	20,040	685	39,891	727,224			
650	5,723	57,703	685.44	40,760	746,951			
660	10,450	137,451						
662	12,432	160,333						

47. REMARKS AND REFERENCES

5/ (-) Indicates scour-considered negative sediment.

6/ Includes Hiwassee tributary.

For preceding data, see sheet No. 20-23a

48. AGENCY SUPPLYING DATA

TENNESSEE VALLEY AUTHORITY
HYDRAULIC DATA BRANCH

49. DATE September 1, 1966