

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Kentucky
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH

18-8

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Kentucky								
	4. SEC. TWP. RANGE			5. NEAREST TOWN Gilbertsville			6. COUNTY Marshall-Livingston								
	7. STREAM BED ELEV. 285			8. TOP OF DAM ELEV. 388.0			9. SPILLWAY CREST ELEV. 1/375								
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		375		261,000		3,289,600		6,002,600		8/30/44				
	b. POWER														
	c. MULTIPLE USE		359		158,300		721,000		2,713,000		16. DATE NORMAL OPER. BEGAN				
	d. INACTIVE 2/		354		123,900		1,973,800		1,992,000						
	e. Lowest Outlet		300		3,300		18,200		18,200		4/6/45				
17. LENGTH OF RESERVOIR 1.34 MILES					AV. WIDTH OF RESERVOIR 1.35 MILES										
WATERSHED	18. TOTAL DRAINAGE AREA 40,200 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 51.7(62) INCHES										
	19. NET SEDIMENT CONTRIBUTING AREA 7132 SQ. MI.				23. MEAN ANNUAL RUNOFF 21.9(55) INCHES										
	20. LENGTH 901 MILES; AV. WIDTH 45 MILES				24. MEAN ANNUAL RUNOFF 47,052,000 AC.-FT.										
	21. MAX. ELEV. 6684 MIN. ELEV. 285				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.
Aug. 30, 1944						Range		38		158,300		2,713,000			
Aug. 28, 1946		2.0		2.0		Range		38		158,300		2,713,000			
May 7, 1951		4.7		6.7		Range (D)				158,300		Not Computed			
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			
Aug. 28, 1946		56.7		58,240,694		68,178,697		273,731,263		58,240,694		273,731,263			
May 7, 1951															
SURVEY DATA	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	
			Not Computed												
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	

- 1/ Top of gates. Normal pool elevation is 359 and all data after item 14 are based on elevation 359.
 2/ Lowest elevation for flat pool navigation requirements.

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														
Not Computed															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1946	360.17	350.05	57,349,354	1951	359.60	352.41	51,779,315
1947	359.99	349.20	47,810,094				
1948	359.57	350.57	46,689,793				
1949	360.43	350.63	67,410,963				
1950	368.81	351.50	68,178,697				

46. ELEVATION-AREA-CAPACITY DATA (1944)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
300	3,300	18,200	355	135,300	2,123,900			
310	7,400	71,200	360	163,500	2,873,500			
320	13,000	171,500	365	190,800	3,756,800			
330	25,100	352,600	370	224,000	4,792,100			
340	55,200	735,100	375	261,000	6,002,600			
350	104,900	1,525,900						

47. REMARKS AND REFERENCES

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE March 1, 1952

TENNESSEE VALLEY AUTHORITY
RESERVOIR SEDIMENTATION
DATA SUMMARY

Kentucky

NAME OF RESERVOIR

HYDRAULIC DATA BRANCH

18-8a

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Kentucky			
	4. SEC. TWP. RANGE			5. NEAREST TOWN Gilbertsville			6. COUNTY Marshall-Livingston			
	7. STREAM BED ELEV. 285			8. TOP OF DAM ELEV. 388.0			9. SPILLWAY CREST ELEV. 1/ 375			
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	375	261,000	3,338,540	6,218,089	8/30/44				
	b. POWER									
	c. MULTIPLE USE	4/ 359	4/ 147,544	4/ 679,548	4/ 2,879,549	16. DATE NORMAL OPER. BEGAN				
	d. INACTIVE 2/	4/ 354	4/ 124,275	4/ 2,185,501	4/ 2,200,001					
e. Lowest Outlet 3/	294.4	5,000	14,500	14,500	9/14/44					
WATERSHED	17. LENGTH OF RESERVOIR 184 MILES			AV. WIDTH OF RESERVOIR 2.35 MILES						
	18. TOTAL DRAINAGE AREA 40,200 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 51.4(65) INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 7,131 SQ. MI.			23. MEAN ANNUAL RUNOFF 21.9(55) INCHES						
	20. LENGTH 901 MILES AV. WIDTH 45 MILES			24. MEAN ANNUAL RUNOFF 47,059,000 AC.-FT.						
	21. MAX. ELEV. 6684 MIN. ELEV. 285			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.		
	Aug. 28, 1946 May 7, 1951	0 4.7	0 4.7	Range Range (D)	38 38	4/ 147,544	4/ 2,879,549 2,855,440			
	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				
	Aug. 28, 1946 May 7, 1951	56.7	58,240,694	68,178,697	273,731,263	58,240,694	273,731,263			
	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			
	Aug. 28, 1946 May 7, 1951	24,109	5130	0.719	24,109	5130	0.719			
	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			
Aug. 28, 1946 May 7, 1951	53*	830	830	0.178 10/	0.837 10/	75	75			

- 1/ Top of gates. Normal pool elevation is 359 and all data after item 14 are based on elevation 359.
- 2/ Lowest elevation for flat pool navigation requirements.
- 3/ Bottom of turbine distributor entrance.
- 4/ Excluding diked areas.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	89-69	69-59	59-49	49-39	39-29	29-19	19-9	9-Normal	Pool	1/			
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION													
Aug. 28, 1946 May 7, 1951	2	8	12	10	20	19	30	-1	8/				

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															
Aug. 28, 1946 May 7, 1951	10	15	37	13	19	2	5	4	0	-5	6/	7/	8/		

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1946	360.17	350.05	57,349,354	1951	359.60	352.41	51,779,315
1947	359.99	349.20	47,810,094				
1948	359.57	350.57	46,689,793				
1949	360.43	350.63	67,410,963				
1950	368.81	351.50	68,178,697				

46. ELEVATION-AREA-CAPACITY DATA (1946) 5/								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
	(Acres)	(Ac.-Ft.)		(Acres)	(Ac.-Ft.)		(Acres)	(Ac.-Ft.)
270.7	0	0	340	56,062	952,314	375	261,000	6,218,089
280	32	162	343	69,149	1,140,131			
290	2,217	3,539	350	103,511	1,744,429			
300	8,230	45,342	354	124,275	2,200,001			
310	12,056	143,768	359	147,544	2,879,549			
320	18,456	292,007	365	190,800	3,972,089			
330	29,074	527,466	370	224,000	5,007,089			

47. REMARKS AND REFERENCES
 5/ Areas and volumes at elevation 359 and below exclude diked areas. Above elevation 359 the diked areas are included.
 6/ Includes Big Sandy River embayment.
 7/ Includes Duck River embayment.
 8/ Scour in this reach considered negative sediment.
 9/ Based on first accurate area-volume curve. Aug. 1946 conditions.

48. AGENCY SUPPLYING DATA 10/ Based on volume at elevation 359. For volume at elevation 375 the figures for 41a and b respectively are .083 and .388. 49. DATE April 1, 1955

TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Kentucky
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH
 18-8b
 DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Kentucky													
	4. SEC. TWP. RANGE			5. NEAREST TOWN Gilbertsville			6. COUNTY Marshall-Livingston													
	7. STREAM BED ELEV. 285			8. TOP OF DAM ELEV. 388.0			9. SPILLWAY CREST ELEV. 1/ 375													
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		375		9/ 261,000		9/ 3,338,540		9/ 6,218,089		8/30/44									
	b. POWER																			
	c. MULTIPLE USE		4/ 359		4/ 147,544		4/ 679,548		4/ 2,879,549		16. DATE NORMAL OPER. BEGAN									
	d. INACTIVE 2/		4/ 354		4/ 124,275		4/ 2,185,501		4/ 2,200,001											
e. lowest outlet		3/ 294.4		5,000		14,500		14,500		9/14/44										
17. LENGTH OF RESERVOIR		184		MILES		AV. WIDTH OF RESERVOIR		1.35		MILES										
WATERSHED	18. TOTAL DRAINAGE AREA				40,200		SQ. MI.		22. MEAN ANNUAL PRECIPITATION				51.4 (71)		INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA				7,131		SQ. MI.		23. MEAN ANNUAL RUNOFF				21.9 (55)		INCHES					
	20. LENGTH		901		MILES		AV. WIDTH		45		MILES		24. MEAN ANNUAL RUNOFF				47,059,000		AC.-FT.	
	21. MAX. ELEV.		6684		MIN. ELEV.		285		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.					
Aug. 28, 1946		0		0		Range		38		4/ 147,544		4/ 2,879,549		-						
May 7, 1951		4.7		4.7		Range		38		4/ 147,544		4/ 2,855,440		-						
July 31, 1956		5.2		9.9		Range		38		4/ 147,544		4/ 2,814,388		-						
Oct. 1961						Not computed (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							
Aug. 28, 1946																				
May 7, 1951		56.7		58,240,694		68,178,697		273,731,263			58,240,694		273,731,263							
Jul. 31, 1956		49.5		40,949,815		49,791,205		212,989,039			49,158,616		486,670,302							
Oct. 1961				Not computed		Not computed														
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							
Aug. 28, 1946																				
May 7, 1951		24,109			5,130		0.719		24,109		5,130		0.719							
Jul. 31, 1956		41,052			7,895		1.107		65,161		6,582		0.923							
Oct. 1961					Not computed		Not computed													
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						
Aug. 28, 1946																				
May 7, 1951		53*		830		830		10/0.178		10/0.837		75		75						
Jul. 31, 1956		53*		1,278		1,065		10/0.229		10/2.263		164		114						
Oct. 1961				Not computed		Not computed														

- 1/ Top of Gates. Normal pool elevation is 359 and all data after item 14 are based on elevation 359.
 - 2/ Lowest elevation for flat pool navigation requirements.
 - 3/ Bottom of turbine distributor entrance.
 - 4/ Excluding diked areas.
 - 5/ Areas and volumes at elevation 359 and below exclude diked areas. Above elevation 359 the diked areas are included.
- Key con't. over

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION										
	89-69	69-59	59-49	49-39	39-29	29-19	19-9	9-Normal	Pdol 1/		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										
Aug. 28, 1956											
May 7, 1951	2	8	12	10	20	19	30	8/	-1		
Jul. 31, 1956	2	13	7	2	14	24	35		3		
Oct. 1961			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														
Aug. 28, 1956															
May 7, 1951	10	15	6/37	13	7/19	2	5	4	0	8/-5					
Jul. 31, 1956	25	20	6/38	5	7/16	0	0	0	0	8/-4					
Oct. 1961			Not computed												

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
(For data for period from 1946 through 1951, see Data Sheet No. 18-8a, April 1, 1955)							
1952	359.38	352.40	49,791,205				
1953	360.37	353.35	41,986,728				
1954	359.94	353.32	33,619,928				
1955	361.85	353.28	40,793,653				
1956	360.05	353.05	39,919,524				

46. ELEVATION-AREA-CAPACITY DATA 5/ (1946)								
ELEVATION	AREA (acres)	CAPACITY (ac-ft)	ELEVATION	AREA (acres)	CAPACITY (ac-ft)	ELEVATION	AREA (acres)	CAPACITY (ac-ft)
270.7	0	0	343	69,149	1,140,131			
280	32	162	350	103,511	1,744,429			
290	2,217	3,539	354	124,275	2,200,001			
300	8,230	45,342	359	147,544	2,879,549			
310	12,056	143,768	365	190,800	3,972,089			
320	18,456	292,007	370	224,000	5,007,089			
330	29,074	527,466	375	261,000	6,218,089			
340	56,062	952,314						

47. REMARKS AND REFERENCES
6/ Includes Big Sandy River embankment.
7/ Includes Duck River embankment.
8/ Scour-treated as negative sediment.
9/ Based on first accurate Area-Volume Curve - August 1946 conditions.
10/ Based on volume at elevation 359, for volume at elevation 375 the figures for 41a and 41b respectively are 0.083 & 0.388 in 1951, and 0.104 & 1.048 for 1956 Survey.

48. AGENCY SUPPLYING DATA
TENNESSEE VALLEY AUTHORITY
HYDRAULIC DATA BRANCH

49. DATE Oct. 1, 1961

TENNESSEE VALLEY AUTHORITY
RESERVOIR SEDIMENTATION
DATA SUMMARY

Kentucky
NAME OF RESERVOIR

HYDRAULIC DATA BRANCH
18-8c
DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Kentucky		
	4. SEC. TWP RANGE			5. NEAREST TOWN Gilbertsville			6. COUNTY Marshall-Livingston		
	7. STREAM BED ELEV. 285			8. TOP OF DAM ELEV. 388.0			9. SPILLWAY CREST ELEV. 1/ 375		
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	375	9/ 261,000		9/ 3,338,540		9/ 6,218,089		8/30/44
	b. POWER	4/	4/		4/		4/		
	c. MULTIPLE USE	359	147,544		4/ 679,548		2,879,549		
	d. INACTIVE 2/	354	124,275		4/ 2,185,501		2,200,001		16. DATE NORMAL OPER. BEGAN
	e. lowest outlet	3/ 294.4	5,000		14,500		14,500		9/14/44
17. LENGTH OF RESERVOIR 184 MILES			AV. WIDTH OF RESERVOIR 1.35 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 40,200 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 51.6(73) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 7,131 SQ. MI.			23. MEAN ANNUAL RUNOFF 21.9(55) INCHES					
	20. LENGTH 901 MILES		AV. WIDTH 45 MILES		24. MEAN ANNUAL RUNOFF 47,059,000 AC.-FT.				
	21. MAX. ELEV. 6684		MIN. ELEV. 258		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.	
Aug. 28, 1946	0	0	Range	38	147,544	2,879,549	-		
May 7, 1951	4.7	4.7	Range	38	147,544	2,855,440	-		
July 31, 1956	5.2	9.9	Range	38	147,544	2,814,388	-		
Oct. 4, 1961	5.2	15.1	Range	35	147,544	2,790,855	-		
(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			
May 7, 1951	56.7	58,240,694	68,178,697	273,731,263	58,240,694	273,731,263			
July 31, 1956	49.5	40,949,815	49,791,205	212,989,039	49,158,616	486,670,302			
Oct. 4, 1961	51.6	45,087,249	57,499,682	234,489,767	47,758,845	721,160,069			
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 7, 1951	24,109	5,130	0.719	24,109	5,130	0.719			
July 31, 1956	41,052	7,895	1,107	65,161	6,582	0.923			
Oct. 4, 1961	23,533	4,526	0.635	88,694	5,874	0.824			
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		
May 7, 1951	53*	830	830	0.178	0.837	75	75		
July 31, 1956	53*	1,278	1,065	0.229	0.263	164	114		
Oct. 4, 1961	53*	733	951	0.204	3.080	85	104		

- 1/ Top of Gates. Normal pool elevation is 359 and all data after item 14 are based on elevation 359.
- 2/ Lowest elevation for flat pool navigation requirements.
- 3/ Bottom of turbine distributor entrance.
- 4/ Excluding diked areas.
- 5/ Areas and volumes at elevation 539 and below exclude diked areas. Above elevation 359 the diked areas are included.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION									
	89-69	69-59	59-49	49-39	39-29	29-19	19-9	9-Normal Pool p/		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION									
May 7, 1951	2	8	12	10	20	19	30	8/-1		
July 31, 1956	2	13	7	2	14	24	35	3		
Oct. 4, 1961	1	13	10	6	12	22	32	4		

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														
May 7, 1951	10	15	6/ 37	13	7/ 19	2	5	4	0	8/-5					
July 31, 1956	25	20	38	5	16	0	0	0	0	8/-4					
Oct. 4, 1961	20	19	40	6	16	0	1	1	8/-1	8/-2					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1946	360.17	350.05	57,349,354	1954	359.94	353.32	33,619,928
1947	359.99	349.20	47,810,094	1955	361.85	353.28	40,793,653
1948	359.57	350.57	46,689,793	1956	360.05	353.05	39,919,524
1949	360.43	350.63	67,410,963	1957	359.99	351.41	49,092,815
1950	368.81	351.50	68,178,697	1958	364.68	353.30	57,499,682
1951	359.60	352.41	51,779,315	1959	360.13	353.25	32,214,420
1952	359.38	352.40	49,791,205	1960	359.71	353.24	45,250,181
1953	360.37	353.35	41,986,728	1961	360.44	348.02	46,433,140

46. ELEVATION-AREA-CAPACITY DATA 5/ (1946)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
270.7	0	0	343	69,149	1,140,131			
280	32	162	350	103,511	1,744,429			
290	2,217	3,539	354	124,275	2,200,001			
300	8,230	45,342	359	147,544	2,879,549			
310	12,056	143,768	365	190,800	3,972,089			
320	18,456	292,007	370	224,000	5,007,089			
330	29,074	527,466	375	261,000	6,218,089			
340	56,062	952,314						

47. REMARKS AND REFERENCES
 6/ Includes Big Sandy River embankment.
 7/ Includes Duck River embankment.
 8/ Scour-treated as negative sediment.
 9/ Based on first accurate Area-Volume Curve - August 1946 conditions.
 10/ Based on volume at elevation 359.