

TENNESSEE VALLEY AUTHORITY
RESERVOIR SEDIMENTATION
DATA SUMMARY

Pickwick Landing

HYDRAULIC DATA BRANCH

18-7

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee		3. STATE Tennessee		
	4. SEC. TWP. RANGE		5. NEAREST TOWN Pickwick			6. COUNTY Hardin		
	7. STREAM BED ELEV. 335		8. TOP OF DAM ELEV. 440		9. SPILLWAY CREST ELEV. 1/ 418			
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					2/8/38		
	b. POWER							
	c. MULTIPLE USE	418	46,800	418,400	1,091,400	16. DATE NORMAL OPER. BEGAN		
	d. INACTIVE 2/	408	37,000	665,000	673,000			
e. Lowest Outlet	358.6	1,700	8,000	8,000	6/29/38			
17. LENGTH OF RESERVOIR	52.7 MILES			AV. WIDTH OF RESERVOIR		1.39 MILES		
WATERSHED	18. TOTAL DRAINAGE AREA 32,820 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 51.5 (15) INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 1997 SQ. MI.			23. MEAN ANNUAL RUNOFF 22.3 (50) INCHES				
	20. LENGTH 717 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 39,095,000 AC.-FT.			
	21. MAX. ELEV. 6684		MIN. ELEV. 335		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.
	Feb. 8, 1938	0	0	Range	80	46,800	1,091,400	-
	Sep. 21, 1946	8.6	8.6	Range	26	46,800	1,078,008	
	Jun. 4, 1951	4.7	13.3	Range (D)	42	46,800	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	e. TOTAL TO DATE	
	Feb. 8, 1938		33,252,195	48,766,831	285,968,875	33,252,195	285,968,875	
	Sep. 21, 1946	49.6	45,561,033	53,043,467	214,136,853	37,601,934	500,105,728	
	Jun. 4, 1951	55.9						
	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		
Feb. 8, 1938	0	0	0	0	0	0		
Sep. 21, 1946	13,392	1,557	0.780	13,392	1,557	0.780		
Jun. 4, 1951	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	c. AV. ANNUAL	d. TOT. TO DATE	e. PERIOD	f. TOT. TO DATE	
Sep. 21, 1946	53*	900.4	900.4	0.143	1.227	39.8	39.8	
Jun. 4, 1951	Not Computed							

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														
Feb. 8, 1938	0	0	0	0	0	0	0	0	0	0					
Sep. 21, 1946	11	12	10	3/28	9	10	8	4	6	3					
Jun. 4, 1951															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1941	417.73	409.56	20,336,899	1946	415.97	407.87	48,766,831
1942	417.46	407.44	20,975,633	1947	416.92	407.62	38,589,544
1943	417.39	408.15	35,131,962	1948	417.77	407.65	36,210,560
1944	419.49	407.58	35,528,460	1949	417.84	407.85	51,892,024
1945	418.05	407.12	36,623,762	1950	416.34	407.90	53,043,467
				1951	417.33	407.40	41,223,965

46. ELEVATION-AREA-CAPACITY DATA (1938)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
352	0	0	400	28,700	409,300			
360	2,100	9,600	410	38,900	748,900			
370	3,300	35,800	415	43,800	955,500			
380	6,100	81,200	418	46,800	1,091,400			
390	16,600	182,500						

47. REMARKS AND REFERENCES
3/ Includes deposits on Bear Creek tributary.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE March 1, 1952

TENNESSEE VALLEY AUTHORITY
RESERVOIR SEDIMENTATION
DATA SUMMARY

Pickwick Landing

HYDRAULIC DATA BRANCH

18-7a

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee			3. STATE Tennessee		
	4. SEC. TWP. RANGE		5. NEAREST TOWN Pickwick			6. COUNTY Hardin			
	7. STREAM BED ELEV. 335			8. TOP OF DAM ELEV. 440			9. SPILLWAY CREST ELEV. 1/ 418		
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					2/8/38			
	b. POWER								
	c. MULTIPLE USE	418	47,530	409,377	1,130,313	16. DATE NORMAL OPER. BEGAN			
	d. INACTIVE	408	36,397	697,756	720,936				
	e. Lowest Outlet	358.6	2,217	23,180	23,180	6/29/38			
WATERSHED	17. LENGTH OF RESERVOIR 52.7 MILES			AV. WIDTH OF RESERVOIR 1.39 MILES					
	18. TOTAL DRAINAGE AREA 32,820 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 51.2(18) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1,997 SQ. MI.			23. MEAN ANNUAL RUNOFF 22.3(50) INCHES					
	20. LENGTH 717 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 39,095,000 AC.-FT.				
	21. MAX. ELEV. 6684		MIN. ELEV. 335		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.	
	Feb. 8, 1938	0	0	Range	80	47,530	1,130,313		
	Sep. 21, 1946	8.6	8.6	Range	26	47,530	1,116,389		
	Jun. 4, 1951	4.7	13.3	Range (D)	40	47,530	1,118,082		
	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			
	Feb. 8, 1938								
	Sep. 21, 1946	49.6	33,252,195	48,766,831	285,968,875	33,252,195	285,968,875		
	Jun. 4, 1951	55.9	45,561,033	53,043,467	214,136,853	37,601,934	500,105,728		
	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			
Feb. 8, 1938									
Sep. 21, 1946	13,924	1619	0.811	13,924	1619	0.811			
Jun. 4, 1951	-1,693	-360	-0.180	12,231	920	0.461			
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		
Feb. 8, 1938									
Sep. 21, 1946	53*	936	936	0.143	1.23	41	41		
Jun. 4, 1951	53*	-208	532	0.081	1.08	-7	21		

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									
	90-80	80-70	70-60	60-50	50-40	40-30	30-20	20-10	10- ^{TOP} Gates	
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION									
Feb. 8, 1938										
Sep. 21, 1946	4	7	7	1	18	28	24	11	0	
Jun. 4, 1951	5	8	10	11	21	24	12	11	-2 <u>3/</u>	

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														
Feb. 8, 1938															
Sep. 21, 1946	21	6	6	21	16	7	8	11	3	1					
Jun. 4, 1951	23	16 <u>4/</u>	9	34 <u>5/</u>	1	4	10	4	0	-1 <u>3/</u>					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1941	417.73	409.56	20,336,899	1948	417.77	407.65	36,210,560
1942	417.46	407.44	20,975,633	1949	417.84	407.85	51,892,024
1943	417.39	408.15	35,131,962	1950	416.34	407.90	53,043,467
1944	419.49	407.58	35,528,460	1951	417.33	407.40	41,223,965
1945	418.05	407.12	36,623,762				
1946	415.97	407.87	48,766,831				
1947	416.92	407.62	38,589,544				

46. ELEVATION-AREA-CAPACITY DATA (1938)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
	(Acres)	(Ac.-Ft.)		(Acres)	(Ac.-Ft.)			
327.9	0	0	380	7,273	102,893			
330	41	70	390	17,262	224,016			
340	332	1,185	400	28,879	453,266			
350	1,311	7,955	410	38,277	787,853			
360	2,365	25,659	414	42,711	949,830			
370	3,497	53,157	418	47,530	1,130,313			

47. REMARKS AND REFERENCES

3/ Minus percentage indicates scour treated as negative sediment.

4/ Includes deposits on Yellow Creek Tributary.

5/ Includes deposits on Bear Creek Tributary.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE April 1, 1955

TENNESSEE VALLEY AUTHORITY
RESERVOIR SEDIMENTATION
DATA SUMMARY

Pickwick Landing
NAME OF RESERVOIR

HYDRAULIC DATA BRANCH
18-7b
DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Tennessee		3. STATE Tennessee		
	4. SEC. TWP. RANGE		5. NEAREST TOWN Pickwick		6. COUNTY Hardin			
	7. STREAM BED ELEV. 335		8. TOP OF DAM ELEV. 440		9. SPILLWAY CREST ELEV. 1/ 418			
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					2/8/38		
	b. POWER							
	c. MULTIPLE USE	418	47,530	409,377	1,130,313	16. DATE NORMAL OPER. BEGAN		
	d. INACTIVE 2/	408	36,397	697,756	720,936	6/29/38		
e. Lowest Outlet	358.6	2,217	23,180	23,180				
WATERSHED	17. LENGTH OF RESERVOIR 52.7 MILES			AV. WIDTH OF RESERVOIR 1.39 MILES				
	18. TOTAL DRAINAGE AREA 32,820 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 51.2(18) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1,997 SQ. MI.		23. MEAN ANNUAL RUNOFF 22.3(50) INCHES					
	20. LENGTH 717 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 39,095,000 AC.-FT.			
	21. MAX. ELEV. 6684		MIN. ELEV. 335		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.
	Feb. 8, 1938	0	0	Range	80	47,530	1,130,313	
	Sep. 21, 1946	8.6	8.6	Range	26	47,530	1,116,389	
	Jun. 4, 1951	4.7	13.3	Range	40	47,530	1,118,082	
	Jun. 25, 1956	5.1	18.4	Range	40	47,530	1,116,811	
				(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	
	Sep. 21, 1946	49.6	33,252,195	48,766,831	285,968,875	33,252,195	285,968,875	
	Jun. 4, 1951	55.9	45,561,033	53,043,467	214,136,853	37,601,934	500,105,728	
	Jun. 25, 1956		33,462,384	40,160,718	170,658,158	36,454,555	670,763,886	
	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	
	Sep. 21, 1946	13,924	1619	0.811	13,924	1619	0.811	
	Jun. 4, 1951	-1,693	-360	-0.180	12,231	920	0.461	
Jun. 25, 1956	1,271	249	0.125	13,502	734	0.368		
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	
Sep. 21, 1946	53*	936	936	0.143	1.23	41	41	
Jun. 4, 1951	53*	-208	532	0.081	1.08	-7	21	
Jun. 25, 1956	53*	144	425	0.064	1.19	6	17	

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										
	90-80	80-70	70-60	60-50	50-40	40-30	30-20	20-10	10-Top Gates		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										
Sep. 21, 1946	4	7	7	1	18	28	24	11	0		
Jun. 4, 1951	5	8	10	11	21	24	12	11	-2 3/		
Jun. 25, 1956	5	11	13	8	23	31	11	2	-4 3/		

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														
Sep. 21, 1946	21	4/6	6	5/21	16	7	8	11	3	1					
Jun. 4, 1951	23	16	9	34	1	4	10	4	0	-1 3/					
Jun. 25, 1956	19	24	9	57	-7 3/	-6 3/	-2 3/	5	1	0					

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1941	417.73	409.56	20,336,899	1949	417.84	407.85	51,892,024
1942	417.46	407.44	20,975,633	1950	416.34	407.90	53,043,467
1943	417.39	408.15	35,131,962	1951	417.33	407.40	41,223,965
1944	419.49	407.58	35,528,460	1952	415.50	407.60	40,160,718
1945	418.05	407.12	36,623,762	1953	418.00	407.44	34,225,491
1946	415.97	407.87	48,766,831	1954	416.10	407.82	28,430,299
1947	416.92	407.62	38,589,544	1955	417.82	407.74	33,093,507
1948	417.77	407.65	36,210,560	1956	416.53	407.80	32,748,973

46. ELEVATION-AREA-CAPACITY DATA (1938)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
327.9	0	0	380	7,273	102,893			
330	41	70	390	17,262	224,016			
340	332	1,185	400	28,879	453,266			
350	1,311	7,955	410	38,277	787,853			
360	2,365	25,659	414	42,711	949,830			
370	3,497	53,157	418	47,530	1,130,313			

47. REMARKS AND REFERENCES

3/ Minus percentage indicates scour treated as negative sediment.

4/ Includes deposits on Yellow Creek Tributary.

5/ Includes deposits on Bear Creek Tributary.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE September 1, 1966

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Pickwick Landing

HYDRAULIC DATA BRANCH

18-7c

NAME OF RESERVOIR

DATA SHEET NO

DAM	1 OWNER TVA			2 RIVER Tennessee			3 STATE Tennessee						
	4 SEC.		TWP.	RANGE		5 NEAREST TOWN Pickwick			6 COUNTY Hardin				
	7 STREAM BED ELEV. 335				8 TOP OF DAM ELEV. 440			9 SPILLWAY CREST ELEV. 1/418					
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										15. DATE STORAGE BEGAN		
	b. POWER										2-8-38		
	c. MULTIPLE USE		418		47,530		409,377		1,130,313		16. DATE NORMAL OPER. BEGAN		
	d. INACTIVE 2/		408		36,397		697,756		720,936		6-29-38		
	e. lowest outlet		358.6		2,217		23,180		23,180				
WATERSHED	17. LENGTH OF RESERVOIR 52.7 MILES				AV. WIDTH OF RESERVOIR 1.39 MILES								
	18. TOTAL DRAINAGE AREA 32,820 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 51.9(26) INCHES								
	19. NET SEDIMENT CONTRIBUTING AREA 1,997 SQ. MI.				23. MEAN ANNUAL RUNOFF 22.3(50) INCHES								
	20. LENGTH 717 MILES		AV. WIDTH 46 MILES		24. MEAN ANNUAL RUNOFF 39,095,000 AC.-FT.								
	21. MAX. ELEV. 6684		MIN. ELEV. 335		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. 22, 1961		5.2	23.6	Range	40		47,530		1,105,256		-	
					(D)								
	26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET		36. WATER INFL. TO DATE AC.-FT.						
Aug. 22, 1961		52.9		37,280,784		48,362,292		193,889,902		36,637,872		864,653,788	
26. DATE OF SURVEY		37. PERIOD SEDIMENT DEPOSITS ACRE- FEET			38. TOTAL SED. DEPOSITS TO DATE ACRE- FEET.								
Aug. 22, 1961		11,555			2,222			25,057			1,062		0.532
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					
Aug. 22, 1961		53*		1,285		614		0.094		2.22		51	25

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										
	90-80	80-70	70-60	60-50	50-40	40-30	30-20	20-10	10-Top of Gates		
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION										
Aug. 22, 1961	3	7	9	6	18	31	20	8	3/-2		

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. 22, 1961	17	4/19	10	5/45	1	0	0	4	3	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	416.38	407.90	40,565,749				
1958	417.93	407.70	48,362,292				
1959	417.11	407.81	26,010,826				
1960	417.71	407.86	37,551,820				
1961	416.33	407.86	38,765,127				

46. ELEVATION-AREA-CAPACITY DATA (1938)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
327.9	0	0	380	7,273	102,893			
330	41	70	390	17,862	224,016			
340	332	1,185	400	28,879	453,266			
350	1,311	7,955	410	38,277	787,853			
360	2,365	25,659	414	42,711	949,830			
370	3,497	53,157	418	47,530	1,130,313			

47. REMARKS AND REFERENCES

3/ Minus percentage indicates scour treated as negative sediment.

4/ Includes deposits on Yellow Creek Tributary.

5/ Includes deposits on Bear Creek Tributary.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE **September 1, 1966**