

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Nottely
 NAME OF RESERVOIR

HYDRAULIC DATA BRANCH

20-17
 DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Nottely			3. STATE Georgia									
	4. SEC. TWP. RANGE			5. NEAREST TOWN Blairsville			6. COUNTY Union									
	7. STREAM BED ELEV. 1610			8. TOP OF DAM ELEV. 1794			9. SPILLWAY CREST ELEV. 1/1780									
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										1/24/42					
	b. POWER															
	c. MULTIPLE USE		1780		4,290		184,377		184,400		16. DATE NORMAL OPER. BEGAN					
	d. INACTIVE		1626.2		5		3		3		10/1/42					
WATERSHED	17. LENGTH OF RESERVOIR 20 MILES				AV. WIDTH OF RESERVOIR 0.34 MILES											
	18. TOTAL DRAINAGE AREA 214 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 55.8(15) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 207 SQ. MI.				23. MEAN ANNUAL RUNOFF 26.0(25) INCHES											
	20. LENGTH 36 MILES		AV. WIDTH 6 MILES		24. MEAN ANNUAL RUNOFF 296,800 AG-FT.											
	21. MAX. ELEV. 1784		MIN. ELEV. 1610		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. 24, 1942		0		0		Range		26		4,290		184,400		862	
	Aug. 16, 1949		7.6		7.6		Range (D)		24		4,290		183,418		857	
	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. 24, 1942		58.2		289,193		407,242		2,197,869		289,193		2,197,869			
	Aug. 16, 1949															
	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. 24, 1942		0		0		0		0		0		0			
Aug. 16, 1949		982		129		0.623		982		129		0.623				
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		
Aug. 16, 1949		55*		746.3		746.3		0.070		0.533		394		394		

1/ Top of flashboards.

* 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 Available													

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
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION														
Jan. 24, 1942	0	0	0	0	0	0	0	0	0	0				
Aug. 16, 1949	22	2	0	17	24	16	11	6	2	0				
	<u>2/</u>													

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1943	1780.50	1734.23	339,438	1949	1774.73	1685.42	374,167
1944	1779.59	1722.03	252,605	1950	1764.42	1738.58	330,193
1945	1766.80	1698.20	202,369	1951	1744.15	1675.50	265,610
1946	1777.13	1709.25	407,242				
1947	1758.32	1642.3	240,789				
1948	1762.91	1638.61	242,824				

46. ELEVATION-AREA-CAPACITY DATA (1942)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1625	0	0	1710	960	28,000	1760	2,830	114,300
1640	62	450	1720	1,210	38,800	1770	3,470	145,800
1660	185	2,770	1730	1,490	52,300	1780	4,290	184,400
1680	400	8,440	1740	1,820	68,750			
1700	740	19,600	1750	2,250	89,000			

47. REMARKS AND REFERENCES
2/ Includes Conley Creek and Camp Creek tributaries.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE March 1, 1952

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Nottely

HYDRAULIC DATA BRANCH
 20-17a
 DATA SHEET NO.

NAME OF RESERVOIR

DAM	1. OWNER TVA			2. RIVER Nottely			3. STATE Georgia					
	4. SEC. TWP. RANGE			5. NEAREST TOWN Blairsville			6. COUNTY Union					
	7. STREAM BED ELEV. 1610			8. TOP OF DAM ELEV. 1794			9. SPILLWAY CREST ELEV. 1/ 1780					
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/		2/		2/			
	b. POWER										1/24/42	
	c. MULTIPLE USE		1780		4, 248		176, 475		176, 521		16. DATE NORMAL OPER. BEGAN	
	d. INACTIVE		3/ 1623.7		9		46		46			
											10/1/42	
WATERSHED	17. LENGTH OF RESERVOIR 20 MILES				AV. WIDTH OF RESERVOIR 0.34 MILES							
	18. TOTAL DRAINAGE AREA 214 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 55.6(24) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 207 SQ. MI.				23. MEAN ANNUAL RUNOFF 26.0(25) INCHES							
	20. LENGTH 36 MILES		AV. WIDTH 6 MILES		24. MEAN ANNUAL RUNOFF 296, 800 AC.-FT.							
	21. MAX. ELEV. 4784		MIN. ELEV. 1610		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. 24, 1942		0	0	Range	26	4, 248	176, 521	825			
	Aug. 16, 1949		7.6	7.6	Range	24	4, 248	175, 865	822			
	Apr. 26, 1955		5.7	13.3	Range	24	4, 248	174, 969	813			
					(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			
	Aug. 16, 1949		58.2		289, 193	407, 242		2, 197, 869	2, 197, 869			
	Apr. 26, 1955		55.3		287, 244	330, 193		1, 637, 290	288, 358			
	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. 16, 1949		656	86	0.415	656	86	0.415					
Apr. 26, 1955		896	157	0.758	1, 552	117	0.565					
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. 16, 1949		55*	497.1	497.1	0.049	0.372	263	263				
Apr. 26, 1955		55*	908.0	676.8	0.066	0.879	482	357				

- 1/ Top of flashboards.
- 2/ Revised,
- 3/ Centerline penstock.
- * Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	135-150	125-135	115-120	105-105	95-90	85-75	75-60	60-45	45-30	30-15	15-Flashboards	Top of
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
Aug. 16, 1949	14	3	4/-3	0	13	21	15	15	12	10	0	
Apr. 26, 1955	8	28	20	15	19	11	4	2	2	4/-6	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															
Aug. 16, 1949	31	4	4	12	23	12	7	7	0	0					
Apr. 26, 1955	52	23	10	6	4	4	2	4/-1	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.
1943	1780.50	1734.23	339,438	1951	1744.15	1675.50	265,610
1944	1779.59	1722.03	252,605	1952	1765.44	1645.75	319,879
1945	1766.80	1698.20	202,369	1953	1760.11	5/1642.4	255,792
1946	1777.13	1709.25	407,242	1954	1740.20	5/1641.6	293,151
1947	1758.32	1642.3	240,789	1955	1777.22	1698.58	244,193
1948	1762.91	1638.61	242,824				
1949	1774.73	1685.42	374,167				
1950	1764.42	1738.58	330,193				

46. ELEVATION-AREA-CAPACITY DATA (1942)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1611.8	0	0	1680	403	9,522	1750	2,062	86,576
1620	5	20	1690	563	14,337	1760	2,561	109,689
1630	17	127	1700	713	20,704	1770	3,289	138,929
1640	82	613	1710	910	28,800	1775	3,751	156,525
1650	145	1,750	1720	1,164	39,162	1780	4,248	176,521
1660	212	3,518	1730	1,417	52,062			
1670	293	6,041	1740	1,714	67,707			

47. REMARKS AND REFERENCES
 4/ (-) minus designates scour. Treated as negative sediment.
 5/ Estimated.
 Note: This reservoir was drawn to a near minimum in June & July 1954 (elev. 1641.6 on July 30), and all discharge was shut off from Aug. 2 throughout the remainder of the year due to the installation of a generating unit.

48. AGENCY SUPPLYING DATA
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE September 1, 1955

TENNESSEE VALLEY AUTHORITY
 RESERVOIR SEDIMENTATION
 DATA SUMMARY

Nottely

HYDRAULIC DATA BRANCH

NAME OF RESERVOIR

20-17b

DATA SHEET NO.

DAM	1. OWNER TVA			2. RIVER Nottely			3. STATE Georgia			
	4. SEC. TWP. RANGE			5. NEAREST TOWN Blairsville			6. COUNTY Union			
	7. STREAM BED ELEV. 1610			8. TOP OF DAM ELEV. 1794			9. SPILLWAY CREST ELEV. 1/ 1780			
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/	2/	2/	1-24-42				
	b. POWER									
	c. MULTIPLE USE	1780	4, 248	176, 475	176, 521	16. DATE NORMAL OPER. BEGAN				
	d. INACTIVE	3/ 1623.7	9	46	46	10-1-42				
17. LENGTH OF RESERVOIR 20 MILES			AV. WIDTH OF RESERVOIR 0.34 MILES							
WATERSHED	18. TOTAL DRAINAGE AREA 214 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 56.3(29) INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 207 SQ. MI.			23. MEAN ANNUAL RUNOFF 26.4(29) INCHES						
	20. LENGTH 36 MILES		AV. WIDTH 6 MILES		24. MEAN ANNUAL RUNOFF 301, 300 AC.-FT.					
	21. MAX. ELEV. 4784		MIN. ELEV. 1610		25. CLIMATIC CLASSIFICATION					
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.		
	May 3, 1961	6.0	19.3	Range	24	4, 248	174, 429	815		
	Apr. 30, 1965	4.0	23.3	Range	23	4, 248	174, 357	815		
	(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 3, 1961	56.0		294, 848	308, 752	1, 589, 087	294, 848	5, 690, 547		
	Apr. 30, 1965	63.0		324, 135	358, 075	1, 296, 541	299, 875	6, 987, 088		
	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			
May 3, 1961	541	90	0.435	2093	108	0.522				
Apr. 30, 1965	71	18	0.087	2164	93	0.449				
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 3, 1961	55*	521	625	0.061	1.186	300	324			
Apr. 30, 1965	55*	104	537	0.053	1.226	49	273			

- 1/ Top of Flashboards.
- 2/ Revised.
- 3/ Centerline penstock.
- * Assumed.

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	168-21 150	150-135	135-120	120-105	105-90	90-75	75-60	60-45	45-30	30-15	15-Flashboards	Top of
PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
May 3, 1961	1	23	19	15	17	13	9	7	1	4/-5	0	
Apr. 30, 1965	1	23	22	13	15	12	10	12	4	4/-9	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															
May 3, 1961	44	22	12	10	7	4	1	0	0	0					
Apr. 30, 1965	45	17	11	9	10	6	2	0	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.
1956	1775.76	1720.55	257,575	1964	1779.04	1731.72	330,493
1957	1767.69	1706.18	282,113	1965	1766.61	1727.36	339,672
1958	1765.75	1709.75	308,752				
1959	1747.88	1701.96	197,467				
1960	1766.51	1703.85	267,162				
1961	1763.50	1717.73	262,030				
1962	1771.80	1720.01	358,075				
1963	1768.97	1718.42	256,320				

46. ELEVATION-AREA-CAPACITY DATA (1942)								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
1611.8	0	0	1680	403	9,522	1750	2,062	86,576
1620	5	20	1690	563	14,337	1760	2,561	109,689
1630	17	127	1700	713	20,704	1770	3,289	138,929
1640	82	613	1710	910	28,800	1775	3,751	156,525
1650	145	1,750	1720	1,164	39,162	1780	4,248	176,521
1660	212	3,518	1730	1,417	52,062			
1670	293	6,041	1740	1,714	67,707			

47. REMARKS AND REFERENCES

4/ (-) designates scour. Treated as negative sediment.

48. AGENCY SUPPLYING DATA. For preceding data, see sheet No. 20-17a.
 TENNESSEE VALLEY AUTHORITY
 HYDRAULIC DATA BRANCH

49. DATE **September 1, 1968**