

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

TOM JENKINS (BURR OAK)

NAME OF RESERVOIR

21-62

DATA SHEET NO.

DAM	1. OWNER Dept. of Army, C. of E.		2. STREAM East Br. Sunday Cr		3. STATE Ohio				
	4. SEC. TWP. RANGE		5. NEAREST P.O. Burr Oak		6. COUNTY Athens				
	7. LAT 39° 32' 30" LONG 82° 03' 27"		8. TOP OF DAM ELEVATION 765.0		9. SPILLWAY CREST ELEV. 740.0				
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN			
	a. FLOOD CONTROL	740.0	1192	17,650	26,910	2 Feb. 1952			
	b. MULTIPLE USE								
	c. POWER								
	d. WATER SUPPLY	721.0	664	5,720	9,260	16. DATE NOR-MAL OPER. BEGAN			
	e. IRRIGATION					2 Feb. 1952			
	f. CONSERVATION	710.0	394	3,505	3,540				
	g. INACTIVE	688.5		35	35				
17. LENGTH OF RESERVOIR 10.8 MILES			AV. WIDTH OF RESERVOIR 0.17 MILES						
18. TOTAL DRAINAGE AREA 33.1 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 40.0 ¹ / ₂ INCHES						
19. NET SEDIMENT CONTRIBUTING AREA 31.2 SQ. MI.			23. MEAN ANNUAL RUNOFF 13.5 ² / ₂ INCHES						
20. LENGTH 15.0 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF 23,800 AC.-FT.					
21. MAX. ELEV. 1140		MIN. ELEV. 681		25. ANNUAL TEMP MEAN 53 RANGE					
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/I. RATIO, AC.-FT. PER AC.-FT.	
	2 Feb. 1952	5/		Contour	5 feet	1,190	26,910	1.13	
	15 May 1965	13.3	13.3	Range (D)	57	1,190	26,700	1.12	
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION	35. PERIOD WATER INFLOW, ACRE-FEET ³ / ₂			36. WATER INFL. TO DATE, AC.-FT.			
			a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	a. MEAN ANNUAL	b. TOTAL TO DATE		
	15 May 1965	36.7	Calendar years		23,000	33,400	305,400	23,000	305,400
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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		
	15 May 1965	176	13.2	0.42	176	13.2	0.42		
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
15 May 1965	65*	600	600	0.05	0.65	600	600		

26. DATE OF SURVEY	43. <u>4.</u> DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION											
	55-58	50-55	45-50	40-45	35-40	30-35	25-30	19-25	15-19	10-15	5-10	0-5
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
15 May 1965	0.7	4.1	1.3	5.8	14.5	24.6	7.2	14.6	13.6	18.0	-3.6	-0.8

26. DATE OF SURVEY	44. <u>4.</u> 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														
15 May 1965	10.2	10.2	1.1	11.4	35.2	19.9	10.8	15.4	10.2	-2.8					

45. RANGE IN RESERVOIR OPERATION <u>3.</u>							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW, AC.-FT.
(Part) 52	723.8	720.3	16,200	(Part) 65	723.9	720.2	18,100
53	721.9	715.9	14,300				
54	722.2	709.9	7,100				
55	724.5	716.0	24,100				
56	722.2	720.4	28,500				
57	723.3	720.2	17,400				
58	724.0	710.0	31,600				
59	725.6	720.2	23,500				
60	722.0	718.9	19,900				
61	726.4	720.8	32,200				
62	728.4	720.7	23,100				
63	729.1	720.9	24,800				
64	729.9	720.4	24,600				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
ORIGINAL			1965 RESURVEY					
700	164	725	700	159	705			
705	281	1,850	705	274	1,800			
710	394	3,540	710	391	3,450			
715	501	5,780	715	486	5,680			
721	664	9,270	721	664	9,140			
725	790	12,160	725	779	12,010			
730	915	16,430	730	915	16,250			
735	1,045	21,330	735	1,051	21,150			
740	1,192	26,910	740	1,195	26,730			

47. REMARKS AND REFERENCES

- 1./ Using average of Lancaster and Athens, Ohio rainfall stations.
- 2./ From 20 years of record at Sunday Creek at Glouster, Ohio, gaging station.
- 3./ Inflow estimated from published flows at Sunday Creek at Glouster, Ohio, gaging station.
- 4./ Scour or increase in lake capacity considered as negative sediment.
- 5./ Original range profiles taken in 1950, storage began 2 Feb. 1952.

48. AGENCY MAKING SURVEY U. S. Army Engineer District
 49. AGENCY SUPPLYING DATA Huntington, West Virginia

50. DATE February 1973

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

TOM JENKINS (BURR OAK)

NAME OF RESERVOIR

21-63

DATA SHEET NO.

DAM	1. OWNER Dept. of Army, C. of E.		2. STREAM East Br. Sunday Cr		3. STATE Ohio							
	4. SEC.	TWP.	RANGE		5. NEAREST P O Burr Oak		6. COUNTY Athens					
	7. LAT 39° 32' 30" LONG. 82° 03' 27"		8. TOP OF DAM ELEVATION 765.0			9. SPILLWAY CREST ELEV. 740.0						
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL		740.0		1192		17,650		26,910		2 Feb 1952	
	b. MULTIPLE USE											
	c. POWER											
	d. WATER SUPPLY		721.0		664		5,720		9,260		16. DATE NORMAL OPER. BEGA	
	e. IRRIGATION										2 Feb 1952	
	f. CONSERVATION		710.0		394		3,505		3,540			
	g. INACTIVE		688.5				35		35			
17. LENGTH OF RESERVOIR 10.8 MILES					AV. WIDTH OF RESERVOIR 0.17 MILES							
18. TOTAL DRAINAGE AREA 33.1 SQ. MI.					22. MEAN ANNUAL PRECIPITATION 40.0 I/ INCHES							
19. NET SEDIMENT CONTRIBUTING AREA 31.2 SQ. MI.					23. MEAN ANNUAL RUNOFF 13.8 I/ INCHES							
20. LENGTH 15.0 MILES		AV. WIDTH 2.2 MILES		24. MEAN ANNUAL RUNOFF 24,300 AC.-FT								
21. MAX. ELEV. 1140			MIN. ELEV. 681		25. ANNUAL TEMP. MEAN 53 RANGE							
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/I RATIO, AC.-FT. PER AC.-FT		
2 Feb 1952		5.1		Contour		5 feet	1,190	26,910		1.13		
15 May 1965		13.3	13.3	Range (D)		57	1,190	26,700		1.12		
20 Aug 1975		10.3	23.6	Range		7	1,190	26,660		1.10		
26. DATE OF SURVEY		34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW, ACRE-FEET 3/			36. WATER INFL. TO DATE, AC.-FT					
		a. MEAN ANNUAL		b. MAX. ANNUAL	c. PERIOD TOTAL		a. MEAN ANNUAL	b. TOTAL TO DATE				
15 May 1965		36.7		23,000	32,200		305,400	23,000		305,400		
20 Aug 1975		39.6		26,700	35,100		274,100	24,600		579,500		
26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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					
15 May 1965		176	13.2	0.42	176	13.2	0.42					
20 Aug 1975		71	7.0	0.22	247	10.5	0.34					
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. ANN	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE					
15 May 1965		65*	600	600	0.05	0.65	600	600				
20 Aug 1975		65*	314	476	0.04	0.92	270	444				

RESERVOIR SEDIMENT
DATA SUMMARY

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

DEWEY LAKE
NAME OF RESERVOIR

19-
DATA SHEET NO.

DAM	1. OWNER Dept. of Army, C. of E.			2. STREAM Johns Creek			3. STATE Kentucky		
	4. SEC. TWP. RANGE		5. NEAREST P O Van Lear			6. COUNTY Floyd			
	7. LAT 37° 44' 16" LONG. 82° 43' 50"			8. TOP OF DAM ELEVATION 718.0			9. SPILLWAY CREST ELEV. 686.0		
RESERVOIR	10. STORAGE ALLOCATION	11. ELEVATION TOP OF POOL	12. ORIGINAL SURFACE AREA, ACRES	13. ORIGINAL CAPACITY, ACRE-FEET	14. GROSS STORAGE, ACRE-FEET	15. DATE STORAGE BEGAN			
	a. FLOOD CONTROL	686.0 ^{1/}	3,340	76,100	93,300	15 May '50			
	b. MULTIPLE USE	650.0 ^{1/}	1,100	4,900	17,200				
	c. POWER					16. DATE NORMAL OPER. BEGAN			
	d. WATER SUPPLY								
	e. IRRIGATION					14 Jun '50			
	f. CONSERVATION	645.0 ^{2/}	880	12,231	12,300				
g. INACTIVE	608.25	18	69	69					
WATERSHED	17. LENGTH OF RESERVOIR 30.5 MILES			AV. WIDTH OF RESERVOIR 0.17 MILES					
	18. TOTAL DRAINAGE AREA 206 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 44.68 INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 200.8 SQ. MI.			23. MEAN ANNUAL RUNOFF 15.39 INCHES					
	20. LENGTH 58.6 MILES		AV. WIDTH 3.5 MILES		24. MEAN ANNUAL RUNOFF 169,100 AC.-FT.				
	21. MAX. ELEV. 2485		MIN. ELEV. 600		25. ANNUAL TEMP. MEAN 57 RANGE				
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/I. RATIO, AC.-FT. PER AC.-FT.	
	15 May 1950		-	Contour	5 feet	3,340	93,300	0.554	
	30 Jan 1953			Range (D)	40	3,340	93,300	0.554	
	11 Nov 1973	20.78	20.78	Range (D)	40	3,348	92,100	0.547	
	2 Nov 1975	1.98	22.76	Range (D)	40	3,343	91,900	0.545	
	21 Jul 1978	2.71	25.47	Range (R)	18	3,346	91,400	0.541	
	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			
	11 Nov 1973	43.65	168,300	241,700	3,500,200	168,300	3,500,200		
	2 Nov 1975	55.76	286,800	290,700	573,700	179,000	4,073,900		
	21 Jul 1978	43.82	180,800	206,400	490,000	179,200	4,563,900		
	26. DATE OF SURVEY	37. PERIOD CAPACITY LOSS, 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		
	11 Nov 1973	1,170	56.3	0.28	1,170	56.3	0.28		
	2 Nov 1975	290	146.5	0.73	1,460	64.2	0.32		
21 Jul 1978	447	164.9	0.82	1,907	74.9	0.37			
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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE		
11 Nov 1973	55	335	335	0.06	1.25	295	295		
2 Nov 1975	55 ^{3/}	874	383	0.07	1.56	446	316		
21 Jul 1978	55	984	447	0.08	2.04	804	368		