RESERVOIR SEDIMENT DATA SUMMARY

SCS-34 Rev. 6-62

Liberty Reservoir NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

4-16 DATA SHEET NO.

										DATA SHEE	T NO.		
	1. OWNER City	y of Baltimo	re	2. STR	EAM Pat	apsc	0			Maryla			
DAM	4. 39° 22'¥	76°50'W		5. NE/	AREST TOWN			1 6	. COUNT	ry Carro	ll-Baltimor		
ò	7. STREAM BED ELEVATION 260.U			8. TOP OF DAM ELEVATION 420					9. SPILLWAY CREST ELEV. 420.0				
	10. STORAGE 11. ELEVATION ALLOCATION TOP OF PO		12. ORIGINAL			13. ORIGINAL			I4. GROSS STORAGE ACRE-FEET		15. DATE STORAGE BEGA		
ł	a. MULTIPLE USE										22 July		
	b. FLOOD CONTROL	L				:	. <u></u> .				1954		
ē	c. POWER												
ESERVOIR	d. WATER SUPPLY 420.0		31		23 138		3,762.4		138,762.4		16. DATE NOR MAL OPER. BEG		
SE	e. IRRIGATION										MAL OF ER. BEGA		
2	f. CONSERVATION					I					6 Feb.		
	. SEDIMENT		`								1956		
	h. INACTIVE	·		·							1750		
	17. LENGTH OF RES	FRVOIR	8.5		MILES	V. WID	TH OF RESE	RVOIR		0,57	MILE		
	18. TOTAL CRAINAG		.64						PITATION	42.6	INCHI		
Ξ		CONTRIBUTING ARE		3Q. MI. 22. MEAN ANNUAL PRE 1 SQ. MI. 23. MEAN ANNUAL RUN					1/ 0				
ERS			V. WIDTH	8.9	-		AN ANNUAL			22,446	AC. ·F		
WATERSHED				260			MATIC CLAS			Humid			
5			HN. ELEV.		30, NO. OF R				32. CAP		33. C/W RATIO		
	26. DATE OF SURVEY	27. PERIOD 28. A YEARS Y			OR CONTOL		AREA A			RE-FEET	ACFT. PER SQ. M		
	22 Jul 54	-	- -	•	-		3123		138,	762.4	846.1		
	16 Jun 62	7.9 7.	9 Rang	ge(D)	62		3123	- - -	138,	227.0	842.8		
DATA	26. DATE OF	34. PERIOD	35. PER		VATER INFL						O DATE ACFT		
	SURVEY	ANNUAL PRECIPITATION	8. MEAN ANNUAL		b. MAX. ANNUAL		C. PERIOD TOTAL		AL a. MEAN ANNUAL		b. TOTAL TO DA		
Ы	26. DATE OF 37. PERIOD S		DIMENT DE	FPOSI	IS ACRE-FI	ET	38. TOTA	L SED	DEPOS	SITS TO D.	ATE ACRE-FEET		
2	SURVEY	. PERIOD TOTAL	h AV ANN		C.PER SO. M	L-YEAR							
INS	16 Jun 62	535.4	67.77			.426		4	67.77		.426		
	26. DATE OF		40. SED.DEP. TON						OSS PCT. 42. SED.				
	SURVEY	VEY LBS, PER CU. FT.		a. PERIOD		DDATE	TE a. AV. AN. 6.T		TOT. TO DATE . PERIOD		b.TOT.TODA		
	16 Jun 62	60*	557		557	,	.05	• •	39				

5. DATE OF SURVEY	43.	DEPTH D	ESIGNATION	RANGE	IN FEET ABO	VE, AND	BELOW, CF	REST ELEVATIO	N
wwitt to f	·····	PERC	ENT OF TOTA	L SEDIM	ENT LOCATE	D WITH	IN DEPTH D	ESIGNATION	
· · · · · · · · · · · · · · · · · · ·									
						ł			
	ŀ								
						1			
6. DATE OF	44.	REACH I	DESIGNATION	PERCEN	IT OF TOTAL	ORIGIN	AL LENGTH	OF RESERVOI	R
SURVEY	0-10		30-40 40-50						5 -120 -125
		PERCE	NT OF TOTAL	SEDIM	ENT LOCATE	<u>WITH</u>	N REACH DE	ESIGNATION	
·									
						1			
15.		ka	RANGE	N RESE	RVOIR OPER	ATION		· · · · · · · · · · · · · · · · · · ·	1
WATER YEA	R MAX. EI	EV. MIN.	ELEV. INFLO	W ACFT.	WATER YEAF	2 M/	AX, ELEV.	MIN. ELEV. 4	INFLOW ACFT.
1957	420.5	8 410.4	48						
1958	420.8								
	1959 414.46		98						
1960	409.2	1							
1961	420.3								
1962	417.5	56 403.0	08						
									l
6.			ELEVAT	ION-ARE	A-CAPACITY	DATA	····		
ELEVATION	AREA	CAPACITY	ELEVATION	AF	REA CA	PACITY	ELEVATION	N AREA	CAPACITY
			1						
								1	
8									1
	-								
7. REMARKS	AND REFER	ENCES					- ***		
*Assur	ned								
18. AGENCY N	AKING SUR	/EY Md. W	latershed	Planni	ing Party	, scs,	USDA		5 1049
9. AGENCY S	SUPPLYING D	ATA SCS,	USDA				50. D/	ATE Aug. 15	5, 1902
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RESERVOIR SEDIMEN

DATA SUMMARY

SCS-34 Rev. 6-66

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LIBERTY RESERVOIR

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NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE deman

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-										DATA SHE	ET NO.
Σ	1. OWNER Cit	y of Balti	more	2. ST	FREAM	Patap	sco	3	. STA	ΓE 1	laryland
DAM			ANGE	5. N	EAREST P.O.	Wards	Chap	el 6	. cou	NTY Carro	11-Baltimore
Ш	7. LAT. 39" 22	LONG.	6•50 ·	" 8. то	OP OF DAM ELE	VATION	420.	0'9	. SPH	LWAY CREST	"ELEV. 420.0"
	10. STORAGE ALLOCATION						13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE		
ERVOIR	a. FLOOD CONTRO b. MULTIPLE USE	L									July 22, 1954
l ≧	c. POWER						· · · · · ·				
ESE	d. WATER SUPPLY	420	•0	}			138,762.4		138,762.4		16. DATE NOR-
<u>ه</u>	e. IRRIGATION										MAL OPER. BEGAN
	f. CONSERVATION										Feb. 6,
	g INACTIVE										1956
	17. LENGTH OF RES		15		MILES AV	. WIDTH	OF RESI	ERVOIR			MILES
	18. TOTAL DRAINAG			SO MI 22 MEAN ANNUAL DECORPTION							
Im	19. NET SEDIMENT	CONTRIBUTING	AREA 1	59.1	SQ. MI. 23					<u>42.6</u> 14.5	INCHES
	20. LENGTH 9.		S AV. WIDTH	3.0	MILES 24	MEAN	ANNUAL	RUNOF	F 194	5,818.74	ACF.T.
≸	21. MAX. ELEV. 90	0' MSL	MIN. ELEV.	260	MSL 25	ANNU	AL TEMP	. MFAN	51 5	RANGE	03 0
Π	26. DATE OF	27. 28.	29. TYPE		30. NO. OF RAP	IGES 31.	SURFA				33. C/I. RATIO,
	SURVEY	PERIOD ACC YEARS YEAR		/EY	OR CONTOUR	INT.		ACRES		REFEET	AC. FT. PER AC. FT.
	Feb. 6, 1956		-				3123	3	138,	762.4	1.094
	June 11 - 22 1962	, 7.9 7.) Detail Range			1	3123		138,227.0		1.090
	August, 1973	11.2 19.	L	46			3123		131,577.5		1.038
	26. DATE OF	34. PERIOD ANNUAL	35. Pt	RIOD	WATER INFLC	W. ACE	E-FEFT		6 MA		O DATE, ACFT.
L	SURVEY	PRECIPITATIO	N a. MEAN	ANNUAL	b. MAX. ANN	JAL C.	PERIOD		MEA	N'ANNUAL	b. TOTAL TO DATE
; ;	·						-	-		-	. TOTAL TO DATE
DATA	August 1973	.973 64.25									
ě٢			;								
SUR		37. PE	NOD CAPACI		S, ACRE-FEE		TOTAL	L SED. (DEPOS	SITS TO DA	TE, ACRE-FEET
۳Ļ	SUIVET	a. PERIOD TOT	AL b. AV. AN	NUAL	c. PER SQ. MIY	EAR a.T	OTAL TO	DATE	. AV.		C. PER SQ. MIYEAR
	Feb. 6, 1956		-		_					-	-
	June 11,1962	535.40	67	7.60 .425			535.40		67.60-		.425
	August, 1973	6649.5		593.71			7184.87		376.7		2.364
12	26. DATE OF SURVEY	9. AV. DRY WGT., 40.SED. DEP.,		P.,TON	ISPERSQ. MI	R. 41.STORAGE LOS		E LOSS,	SS, PCT. 42. SED.		INFLOW, PPM
/ -				ر س	B, TOTAL TO D		ATE a. AV. ANN. b. TOT		T.TODATE a. PERIOD		L. TOT. TO DATE
	June 11, 196	2 60 ≭	్ 555.	·.4 555.4		•	.049% .		.386% -		
	Aug. 1973	75	6193.7	78	3861.59	•	.271 5.1		L78 · _		
			11					·			

.*Not based on representative sample - Normal sediment wt. factor used to convert sediment volume to weight. .

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