U.S. DEPARTMENT OF AGRICULTURE

RESERVOIR SEDIMENTATION

Madsen Farm Pond

SOIL CONSERVATION SERVICE 30 - 7

DATA SUMMARY

	DATA SUMI		IN		Made	NAME	F RESE				-50	- /	SHEET NO.	
_	1.				12				- 1					
Σ	1 N Madaca					2. RIVER Swan Creek					3. STATE North Dakota			
DA	4-SEC. 12 TWP. 140 N RANGE 53 W					5. NEAREST TOWN Wheatland					6. COUNTY Cass			
<u> </u>						OF DAM E	98.2*	9. SPILLW	SPILLWAY CREST ELEV: 94.3					
	II. STORAGE II. ELEVAT TOP OF			N		SURFACE EA ACRES		STORAGE ACRE – FEET		ACCUMULATED ACRE-FEET		DATE STORAGE BEGAN		
_	d. FLOOD CONTROL													
S S	b. POWER	POWER		-									1939	
SERVO	C. WATER SUPPLY	9/	94.3*		6.29			22.82	22 0) l6		
					U.Z		22.02		+-	22,82		DATE NORMAL OPER. BEGAN		
RE									+			 		
	f. INACTIVE	<u> </u>										-	1939	
	17. LENGTH OF RESERVOIR											1000		
<u></u>						WIDTH OF RESERVOIR .0093 MILE								
WATERSHED	18. TOTAL DRAINAGE AREA 27.76					SQ. MI: 22. MEAN ANNUA			ID.6C				INCHES	
					7,76					ALRUNOFF 0.602 inche				
ITE	20. LENGTH	ILES AV	. WIDTH	2.5	MILES	24. MEAN ANNUAL RUI				87.76	AC,-FT.			
≩		21. MAX. ELEV. MIN. ELEV.						IMATIC CLASS	ATION	Semi -a	arid			
	26. DATE OF	YEARS YE		CCL. 29 TYPE OF ARS SURVEY		30. NO. OF RA	ANGES 31. SURFACE			32. GAPACITY		33. C/W RATIO		
	SURVEY					OR GONTO	UR INT.	AREA ACR	E\$	AGRE-FEET		AC-FT. PER SQ.M		
							-					 		
İ	1939	.						6.29		22,82		0.822		
		17		17 Range										
	J une 1956					13		6.29		19.	19.10		0.688	
	[
	26.	34.		35. PERIOD W				<u> </u>		,				
	DATE OF SURVEY	PERIOD ANNUAL PRECIPITATION		FERIOD N		ATER INFLOW		*****				TO DATE AC-FT.		
	30// 721			. MEAN ANNUAL		D. MAX. AN	NUAL	L C.PERIOD TOTA		AL " MEAN ANNUAL		b. TOTAL TO DAT		
							٠							
DATA												}		
2	26.	37. DE 010	D CED	DIMENT DEPOSITS ACDE ES				ET 38. TOTAL SED. DEPOSITS						
Σ							-YEAR " TOTAL TO DATE						** .	
SURVEY		PERIODI	OTAL I	AV. AN	NUAL	PER SQ.MI	YEAR	TOTAL TO D	ATE	b. AV. AN	INUAL	PE	R SQ.ML-YEAR	
S				!										
	June 1956	3.72	0.219		0.0078		3.72		0.219		0.0078			
							i							
	26. DATE OF 39. AV. DR		RY WGT 40.SED.		EP. TONS PER SQ.M		L-YR	YR. 41 STORAGE I		OSS PCT, 42 SED.		INFLOW PPM		
	SURVEY	AV, DRY WGT. LBS, PER CU, FT,		a. PERIOD		b. TOTAL TO					a. PERIO			
				1 ENIQU				AT ANIONE		TOTAL PER		٠.	b. TOT. TO DATE	
		35.0*		5 . 95				1						
	J une 1956					5.95	;	0.96	16	16.30				
												ļ		

26.	43.	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
DATE OF Survey														
SORVET		PERC	ENT OF T	OTAL SE	DIMENT	LOCATE	WITHIN	DEPTH	DESIGNA	TION				
26.	44.	REACH DE	SIGNATIO	N PERCE	NT OF T	OTAL OR	IGINAL	ENGH	OF RESE	RVOIR				
DATE OF SURVEY	0-10 10	20-30	30-40 40-	50 50-60	60-70 70	80-9	90 – 100	-105	-110 -	-115 -120	-125			
301.721		PERCE	NT OF TO	TAL SEDI	MENT L	OCATED	WITHIN	REACH	DESIGNA	TION				
		**												
45.			RANG	E IN RESI	RVOIR	OPERATI	ON							
WATER YEA	R MAX. E	LEV. MIN	I. ELEV. IN	FLOW ACF	T. WATER	YEAR	MAX. ELE	.V. N	IIN. ELEV.	INFLOW A	C F T.			
		·								2				
46.		.	ELEVA	TION-AR	EA-CAP	ACITY DA	ATA	,		<u> </u>				
ELEVATION	AREA	CAPACITY	ELEVAT	ON A	REA	CAPACITY	' ELE\	ATION	AREA	CAPAG	CITY			
								The second secon						
47. REMARK	S AND REF	ERENCES		L				•						
47. REMARKS AND REFERENCES I/Amenia, N. Dak., rainfall record. 2/Mean annual runoff - U.S.G.S. Circulars 37 and 52.														
*Assun	ne d													
48 AGENCY SUPPLYING DATA SCS, Fargo, North Dakota 49 DATE June 29, 1956														