

RESERVOIR SEDIMENTATION
DATA SUMMARY

Gustafson Farm Pond

NAME OF RESERVOIR

30-5

DATA SHEET NO.

DAM	1. OWNER Gustafson Bros.			2. RIVER Park			3. STATE North Dakota				
	4. SEC. 23 TWP. 157 N RANGE 57 W			5. NEAREST TOWN Adams			6. COUNTY Walsh				
	7. STREAM BED ELEV. 81.6*			8. TOP OF DAM ELEV.			9. SPILLWAY CREST ELEV. 100.0*				
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					1941					
	b. POWER										
	c. WATER SUPPLY	100.0*	5.45	38.70	38.70	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE					1941					
17. LENGTH OF RESERVOIR		0.373		MILES		AV. WIDTH OF RESERVOIR		.023		MILES	
WATERSHED	18. TOTAL DRAINAGE AREA		3.755		SQ. MI.		22. MEAN ANNUAL PRECIPITATION		17.69 1/2		INCHES
	19. NET SEDIMENT CONTRIBUTING AREA		3.670		SQ. MI.		23. MEAN ANNUAL RUNOFF		0.68 2/3		INCHES
	20. LENGTH		2.75		MILES		AV. WIDTH		1.36		MILES
	24. MEAN ANNUAL RUNOFF		136.10		AC.-FT.		25. CLIMATIC CLASSIFICATION Semi-arid				
	21. MAX. ELEV.		MIN. ELEV.								
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.			
	1941	--	--	--	--	5.45	38.70	10.31			
	May 1955	14	14	Range (D)	4	5.45	33.36	8.88			
	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				
	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 1955	5.34	0.381	0.101	5.34	0.381	0.101				
	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 1955	35.0*	76.99	76.99	0.98	13.79						

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION														
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
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														
45. RANGE IN RESERVOIR OPERATION															
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.								
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
47. REMARKS AND REFERENCES															
1/Adams, N. Dak., rainfall record.															
2/Mean annual runoff - U.S.G.S. Circulars 37 and 52.															
*Assumed.															
48. AGENCY SUPPLYING DATA SCS, Fargo, North Dakota										49. DATE December 1955					