

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Yellow Water  
NAME OF RESERVOIR

40 - 1  
DATA SHEET NO.

DAM	1. OWNER Mont. Water Conserv. Board			2. RIVER Yellow Water Creek		3. STATE Montana		
	4. SEC. 12 TWP. 14N RANGE 26E			5. NEAREST TOWN Winnett		6. COUNTY Petroleum		
	7. STREAM BED ELEV.			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV.		
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					June 1, 1938		
	b. POWER							
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN		
	d. IRRIGATION		446	4796	4796	Aug. 1, 1938		
	e. CONSERVATION							
	f. INACTIVE							
17. LENGTH OF RESERVOIR 1.5 MILES			AV. WIDTH OF RESERVOIR .5 MILES					
WATERSHED	18. TOTAL DRAINAGE AREA 55 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 12.6 INCHES				
	19. NET SEDIMENT CONTRIBUTING AREA 54 SQ. MI.			23. MEAN ANNUAL RUNOFF No data INCHES				
	20. LENGTH 12 MILES		AV. WIDTH 5.5 MILES		24. MEAN ANNUAL RUNOFF No data AC.-FT.			
	21. MAX. ELEV. 3500		MIN. ELEV. 3000		25. CLIMATIC CLASSIFICATION Semi-arid			
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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI.
	June 1, 1938	0	0	-	-	446	4,796	87.2
	Sept. 1, 1948	10.3	10.3	range	12	446	4,616	81.0
	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	
	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	
	June 1, 1938	0	0	-	-	-	-	
	Sept. 1, 1948	179	17.46	.32	179	17.46	.32	
28. 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	
Sept. 1, 1948	32*	224	224	.36	3.73			

\* Based on 3 samples collected from reservoir sediment. Not considered adequate

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
3000	446	4796						

47. REMARKS AND REFERENCES  
 From file data on Missouri River Basin Survey, Lincoln E&WP Unit  
 Surveyed by SCS reservoir survey crew, Leland H. Barnes, Chief  
 Total height of dam reported 36 feet.

48. AGENCY SUPPLYING DATA Soil Conservation Service

49. DATE Sept. 6, 1957