

RESERVOIR SEDIMENTATION

McKay Reservoir

74-3

DATA SUMMARY U. S. Dept. of Interior

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Bureau of Reclamation/			2. RIVER McKay Creek		3. STATE Oregon		
	4. SEC. - TWP. - RANGE -			5. NEAREST TOWN Pendleton		6. COUNTY Umatilla		
	7. STREAM BED ELEV. 1,180			8. TOP OF DAM ELEV.		9. SPILLWAY CREST ELEV. 1,322		
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					Oct. 1926		
	b. POWER							
	c. WATER SUPPLY							
	d. IRRIGATION	1,322	1,260	73,737	73,737	16. DATE NORMAL OPER. BEGAN		
	e. CONSERVATION					Oct. 1926		
	f. INACTIVE							
WATERSHED	17. LENGTH OF RESERVOIR 3.5			MILES		AV. WIDTH OF RESERVOIR		
	18. TOTAL DRAINAGE AREA 186			SQ. MI.		22. MEAN ANNUAL PRECIPITATION		
	19. NET SEDIMENT CONTRIBUTING AREA 184			SQ. MI.		23. MEAN ANNUAL RUNOFF		
	20. LENGTH			MILES		24. MEAN ANNUAL RUNOFF		
	21. MAX. ELEV.			MIN. ELEV.		25. CLIMATIC CLASSIFICATION		
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.
	Oct. 1926	-	-	-	-	1260	73,737	396
	July 11, 1946	19.75	19.75	Recon.	55 meas.	1260	73,474	395
	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	
	July 11, 1946	263	13.3	0.07	263	13.3	0.07	
	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	
July 11, 1946	40*	61	61	0.02	0.36			

* Assumed

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

Region 7, Soil Conservation Service
U. S. Department of Agriculture

48. AGENCY SUPPLYING DATA Portland, Oregon 49. DATE June 7, 1950