

UNITED STATES
DEPARTMENT OF THE INTERIOR
RESERVOIR SEDIMENTATION
DATA SUMMARY

BUREAU OF RECLAMATION

Seminole
NAME OF RESERVOIR

34-6
DATA SHEET NO.

DAM	1. OWNER Bureau of Reclamation			2. RIVER North Platte			3. STATE Wyoming				
	4. SEC. 8 TWP. 25 N RANGE 24 W			5. NEAREST TOWN Leo, Wyo.			6. COUNTY Carbon				
	7. STREAM BED ELEV. 6157			8. TOP OF DAM ELEV. 6361			9. SPILLWAY CREST ELEV. 6357 1/4				
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					Apr. 3, 1939					
	b. POWER										
	c. WATER SUPPLY	6357	20,050	1,020,000	1,020,000	16. DATE NORMAL OPER. BEGAN					
	d. IRRIGATION										
	e. CONSERVATION										
	f. INACTIVE	6185.09	Unknown	Unknown		1939					
WATERSHED	17. LENGTH OF RESERVOIR 69 2/3 MILES			AV. WIDTH OF RESERVOIR 0.5 MILES							
	18. TOTAL DRAINAGE AREA 7348 SQ. MI.			22. MEAN ANNUAL PRECIPITATION 8.2 - 14.8 INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 7317 SQ. MI.			23. MEAN ANNUAL RUNOFF 2.25 INCHES							
	20. LENGTH 120 MILES			AV. WIDTH 61 MILES			24. MEAN ANNUAL RUNOFF 880,860 (11.5) AC.-FT.				
	21. MAX. ELEV. 12,005			MIN. ELEV. 6157			25. CLIMATIC CLASSIFICATION arid to 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/W RATIO AC.-FT. PER SQ. MI.			
	1939			Contour (D) (D)	10 ft. int.	20,050 15,280 3/	1,020,000 722,000 3/	139 (138.3) 98.3			
	Sept. 16, 1950	11.5	11.5	Range Contour	47 ranges 3/	20,050 15,200 4/	1,012,000 712,920 4/	138 (137.7) 97.0 5/			
	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				
	Sept. 16, 1950	8.2 - 14.8	880,860	1,329,020	10,425,520	880,860	10,425,520				
	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				
	Sept. 16, 1950	9,080 5/	793	.108	9,080	793	.108				
	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	c. PERIOD	d. TOT. TO DATE				
Sept. 16, 1950	65*	153	153	.08 6/	.89 6/	907	907				

* Assumed

(Reservoir is 200 feet deep)

25. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION											
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION											
	200-160	160	140	120	100	86	80	70	65	60	40	20
Sept. 16, 1930	0	2	20	9*	6*	20	23	10	4	4	2	0

26. DATE OF SURVEY	44.8/ 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														
Not Computed															

45. RANGE IN RESERVOIR OPERATION							
WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.	WATER YEAR	MAX. ELEV.	MIN. ELEV.	INFLOW AC.-FT.
1939	6297.37	6221.20	2,459,490	1947	6354.81	6303.84	1,100,790
1940	6282.94	6231.03	513,970	1948	6352.94	6329.80	867,910
1941	6306.69	6235.85	756,990	1949	6359.29	6324.47	1,329,020
1942	6327.54	6254.20	941,830	1950	6350.51	6328.76	975,340
1943	6333.18	6287.23	877,550				
1944	6320.28	6271.62	669,980				
1945	6343.72	6265.56	1,170,020				
1946	6345.77	6226.38	762,630				

46. ELEVATION-AREA-CAPACITY DATA								
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY
6157	0	0	6230	995	19,510	6310	9,060	354,960
6160	0.5	0.5	6240	1,440	31,615	6320	10,820	454,240
6170	3	17	6250	2,080	49,120	6330	12,890	572,620
6180	25	145	6260	2,820	73,540	6340	15,200	712,920
6190	95	710	6270	3,790	106,490	6350	17,960	879,000
6200	250	2,360	6280	4,880	149,750	6357	20,050	1,012,000
6210	455	5,830	6290	6,085	204,470			
6220	650	11,340	6300	7,500	272,260			

47. REMARKS AND REFERENCES
 1/ At top of 50-ft. gates. 2/ Medicine Bow arm is 24 mi. North Platte is 40 mi.
 3/ Original area or capacity at el. 6340. 4/ Area or capacity at el. 6340.
 5/ Below el. 6340. 6/ Based on original storage cap. at top of spillway gates (el. 6357)
 7/ 5-ft. contours to el. 6340, 10-ft. contours (orig. survey) 6340 to 6357.
 8/ No data computed. 9/ Partial record, April-Sept. 1939

Reference: Sedimentation Surveys of Pathfinder and Seminoe Reservoirs, North Platte River, Wyoming, by Bureau of Reclamation and Glendoe Unit Definite Plan Report

48. AGENCY SUPPLYING DATA Bureau of Reclamation 49. DATE 12-9-54