

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Caballo

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER Interior - U.S.B.R.		2. RIVER Rio Grande		3. STATE New Mexico			
	4. SEC. 19 TWP. 16-S. RANGE 4-W		5. NEAREST TOWN Truth or Consequence		6. COUNTY Sierra			
	7. STREAM BED ELEV. 4143.8		8. TOP OF DAM ELEV. 4233.3		9. SPILLWAY CREST ELEV. 4204.3 1/			
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	4225.3	11,532	100,000	345,872	Jan. 6, 1938		
	b. POWER					16. DATE NORMAL OPER. BEGAN		
	c. WATER SUPPLY							
	d. IRRIGATION	4215.68	9,357	245,872	245,872			
	e. CONSERVATION							
	f. INACTIVE	4147.3	0	0	0	Feb. 8, 1938		
17. LENGTH OF RESERVOIR 16.5 MILES		AV. WIDTH OF RESERVOIR 1.09 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 30,700 2/ SQ. MI.		22. MEAN ANNUAL PRECIPITATION 11.6 (57) INCHES					
	19. NET SEDIMENT CONTRIBUTING AREA 1,237 3/ SQ. MI.		23. MEAN ANNUAL RUNOFF		INCHES			
	20. LENGTH 27.5 MILES		AV. WIDTH 45.0 MILES		24. MEAN ANNUAL RUNOFF 774,600 AC.-FT.			
	21. MAX. ELEV. 10,000		MIN. ELEV. 4143.8		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/W RATIO AC.-FT. PER SQ. MI.
	Jan. 6, 1938			Contour	5 ft	11,532	345,872	
	Nov. 1957	19.9	19.9	Contour	5 ft	11,613	343,990	
	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	
	Nov. 1957	9.6" 4/	697,300	1,819,000	13,946,200	697,300	13,946,200	
	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	
	Nov. 1957	1,882	94.1	0.0761	1882	94.1	0.0761	
	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	
Nov. 1957				0.0272	0.5441			

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION														
	Crest-2	2-12	12-22	22-32	32-42	42-47	47-52	52-57	57-62	62-67	67-72	72-77			
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
Nov. 1957	-8.71	39.69	51.12	52.98	60.68	-7.28	31.14	64.08	84.17	82.57	48.56	9.94			
28. 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.								
See attached sheet															
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
See attached sheet															
47. REMARKS AND REFERENCES															
Note: All elevations are to sea level datum (U.S.G.S.) Subtract 43.3 for U.S.R.S. datum															
1/ Automatic radial gate permits storage up to elevation 4225.3															
2/ Includes 2,940 square miles in closed basin in San Luis Valley, Colorado															
3/ Drainage area between gaging station below Elephant Butte Dam and gaging station below Caballo Dam less original water surface area of Caballo Reservoir at elevation 4225.3															
4/ Does not include annual totals for 1947 & 1949															
48. AGENCY SUPPLYING DATA Interior - U.S.B.R.-Rio Grande Project DATE November 1961															

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## RANGE IN RESERVOIR OPERATION

Water Year	Max. Elev.	Min. Elev.	Inflow Ac.-Ft.	Water Year	Max. Elev.	Min. Elev.	Inflow Ac.-Ft.
1938	4172.7	4153.5	738,600	1948	4208.95	4168.48	742,800
1939	4198.49	4151.4	915,600	1949	4208.09	4175.07	754,600
1940	4197.5	4167.2	714,300	1950	4218.48	4175.80	720,800
1941	4202.1	4163.04	692,800	1951	4205.54	4165.24	451,100
1942	4225.36	4176.98	1,930,000	1952	4196.71	4163.27	543,000
1943	4224.4	4162.5	807,000	1953	4207.75	4165.32	553,700
1944	4219.7	4166.44	875,800	1954	4181.87	4167.38	245,400
1945	4221.38	4163.94	843,200	1955	4179.09	4164.84	211,800
1946	4219.2	4164.42	858,800	1956	4174.52	4164.56	253,600
1947	4222.07	4162.49	707,900	1957	4177.14	4163.51	384,400

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## ELEVATION - AREA - CAPACITY DATA

Elevation	Area	Capacity	Elevation	Area	Capacity
4148.3	0	0	4193.3	4,915	80,761
4153.3	0.2	0.6	4198.3	6,139	108,230
4158.3	1.8	5.6	4203.3	7,154	141,660
4163.3	698	1,796	4208.3	7,823	179,140
4168.3	1,256	6,675	4213.3	8,878	220,850
4173.3	1,964	14,699	4218.3	10,029	268,100
4178.3	2,540	26,008	4223.3	11,190	321,190
4183.3	3,200	40,312	4225.3	11,613	343,990
4188.3	4,044	58,369			