

RESERVOIR SEDIMENTATION  
DATA SUMMARY

**Cucharas Reservoir**

NAME OF RESERVOIR

48-6  
DATA SHEET NO.

DAM	1. OWNER <b>Huerfano Valley Ditch Co.</b>			2. RIVER <b>Cucharas</b>			3. STATE <b>Colorado</b>			
	4. SEC. <b>30</b> TWP. <b>26 S</b> RANGE <b>64 W</b>			5. NEAREST TOWN <b>Walsenburg</b>			6. COUNTY <b>Huerfano</b>			
	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			<b>None</b>		<b>About 1912</b>				
	b. POWER			<b>None</b>						
	c. WATER SUPPLY			<b>None</b>		16. DATE NORMAL OPER. BEGAN				
	d. IRRIGATION		<b>1,349</b>	<b>23,040 (1939)</b>	<b>23,040</b>					
	e. CONSERVATION			<b>None</b>		<b>About 1912</b>				
	f. INACTIVE			<b>None</b>						
17. LENGTH OF RESERVOIR <b>4</b> MILES			AV. WIDTH OF RESERVOIR <b>0.65</b> MILES							
WATERSHED	18. TOTAL DRAINAGE AREA <b>608</b> SQ. MI.			22. MEAN ANNUAL PRECIPITATION <b>About 15</b> INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA <b>608</b> SQ. MI.			23. MEAN ANNUAL RUNOFF <b>No record</b> INCHES						
	20. LENGTH <b>50</b> MILES		AV. WIDTH <b>20</b> MILES		24. MEAN ANNUAL RUNOFF <b>No record</b> AG.-FT.					
	21. MAX. ELEV. <b>13,600</b>		MIN. ELEV. <b>about 5750</b>		25. CLIMATIC CLASSIFICATION <b>Semi-arid</b>					
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.		
	<b>1912</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5 feet</b>	<b>1393</b>	<b>38,274</b>	<b>63</b>		
	<b>1937</b>	<b>25</b>	<b>25</b>	<b>-</b>	<b>"</b>	<b>1391</b>	<b>25,020</b>	<b>41</b>		
	<b>1939</b>	<b>2</b>	<b>27</b>	<b>-</b>	<b>"</b>	<b>1349</b>	<b>23,040</b>	<b>38</b>		
	26. DATE OF SURVEY	34. PERIOD ANNUAL PRECIPITATION		35. PERIOD WATER INFLOW ACRE- FEET			36. WATER INFL. TO DATE AG.-FT.			
				a. MEAN ANNUAL	b. MAX. ANNUAL	c. PERIOD TOTAL	d. MEAN ANNUAL		e. TOTAL TO DATE	
			<b>No record</b>							
	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	
	<b>1912</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>	
<b>1937</b>		<b>13,254</b>		<b>530</b>		<b>0.87</b>		<b>13,254</b>		
<b>1939</b>		<b>1,980</b>		<b>990</b>		<b>1.63</b>		<b>15,234</b>		
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
<b>1912</b>		<b>-</b>		<b>-</b>		<b>-</b>		<b>-</b>		
<b>1939</b>		<b>-</b>		<b>-</b>		<b>1.47</b>		<b>39.8</b>		

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION												
	0-10	10-20	20-34	34-40	40-50	50-60	60-70	70-80	80-90	90-95	95-100	100-105	
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION												
1939	5.42	10.10	34.93	15.84	16.34	8.55	4.57	2.58	1.19	0.30	0.14	0.04	

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														
1939	0.50	1.50	1.25	2.90	9.35	10.90	5.60	26.75	15.83	5.42					

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
71	0	0	95	973	11,496			
75	61	86	100	1,148	16,799			
80	327	1,056	105	1,349	23,040			
85	655	3,510						
90	783	7,105						

47. REMARKS AND REFERENCES

Item 46 based on survey of 1939.