

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Badger Detention Reservoir (14)

63-1

NAME OF RESERVOIR

DATA SHEET NO.

DAM	1. OWNER USDI - BLM			2. <del>RIVER</del> Badger Wash			3. STATE Colorado											
	4. SEC. 36 TWP. 8S RANGE 104W			5. NEAREST TOWN Mack			6. COUNTY Mesa											
	7. STREAM BED ELEV. 4838.2			8. TOP OF DAM ELEV. 4870.0			9. SPILLWAY CREST ELEV. 4865.0											
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										July 1957							
	b. POWER																	
	c. WATER SUPPLY										16. DATE NORMAL OPER. BEGAN							
	d. IRRIGATION																	
	e. CONSERVATION		4865.0		22.58		201.52		201.52		July 1957							
	f. INACTIVE																	
WATERSHED	17. LENGTH OF RESERVOIR 0.33 MILES						AV. WIDTH OF RESERVOIR 0.11 MILES											
	18. TOTAL DRAINAGE AREA 1.53 SQ. MI.						22. MEAN ANNUAL PRECIPITATION 8.3 (Fruita) INCHES											
	19. NET SEDIMENT CONTRIBUTING AREA 1.49 SQ. MI.						23. MEAN ANNUAL RUNOFF 0.76 INCHES											
	20. LENGTH 2.80 MILES			AV. WIDTH 0.53 MILES			24. MEAN ANNUAL RUNOFF 60.4 AG.-FT.											
	21. MAX. ELEV. -			MIN. ELEV. 4838.2			25. CLIMATIC CLASSIFICATION 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 AG.-FT. PER SQ. MI.			
	May 1, 1957		-				Contour		2 ft.		22.58		201.52		131.5			
	Nov. 22, 1958		1.6		1.6		& ranges detailed				22.58		199.35		130.2			
	Nov. 10, 1959		1.0		2.6								22.58		196.27		128.2	
	Nov. 4, 1961		2.0		4.6								22.58		190.38		124.4	
	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					
	May 1, 1957		-										-					
	Nov. 22, 1958		14.09		54.3		85.2		87.0		54.4		87.0					
	Nov. 10, 1959		5.89		40.0		40.0		40.0		48.9		127.0					
	Nov. 4, 1961		17.11		75.4		136.0		150.8		60.4		277.8					
	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					
	May 1, 1957		-						-									
	Nov. 22, 1958		2.17		1.35		0.91		2.17		1.35		0.91					
Nov. 10, 1959		3.08		3.08		2.07		5.25		2.02		1.35						
Nov. 4, 1961		5.89		2.94		1.97		11.14		2.42		1.62						
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		c. AV. ANNUAL		d. TOT. TO DATE		e. PERIOD		f. TOT. TO DATE				
May 1, 1957																		
Nov. 22, 1958								.7		1.1								
Nov. 10, 1959								1.0		2.6								
Nov. 4, 1961								1.2		5.5								

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION														
	PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION														
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.								
46. ELEVATION-AREA-CAPACITY DATA															
ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY	ELEVATION	AREA	CAPACITY							
47. REMARKS AND REFERENCES															
Data through 1958 contained in U. S. Geological Survey Water Supply Paper in process of publication.															
48. AGENCY SUPPLYING DATA				U. S. Geological Survey Water Resources Division				49. DATE				April 27, 1962			