

RESERVOIR SEDIMENTATION
DATA SUMMARY

Ridgewood (Walker) Reservoir

NAME OF RESERVOIR

72-1

DATA SHEET NO.

DAM	1. OWNER Charles S. Howard Co.				2. RIVER Forsythe Creek		3. STATE California		
	4. SEC. 18		TWP. 17N		RANGE 13W		5. NEAREST TOWN Ukiah		
	7. STREAM BED ELEV. 1,272				8. TOP OF DAM ELEV. 1,313		9. SPILLWAY CREST ELEV. 1,306		
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. SURFACE AREA ACRES		13. STORAGE ACRE- FEET		
	a. FLOOD CONTROL								
	b. POWER								
	c. WATER SUPPLY								
	d. IRRIGATION		1,306		26.3		313		
	e. CONSERVATION						313		
	f. INACTIVE								
WATERSHED	17. LENGTH OF RESERVOIR 0.57				MILES		AV. WIDTH OF RESERVOIR 0.06		
	18. TOTAL DRAINAGE AREA 5.9				SQ. MI.		22. MEAN ANNUAL PRECIPITATION 50		
	19. NET SEDIMENT CONTRIBUTING AREA 5.9				SQ. MI.		23. MEAN ANNUAL RUNOFF		
	20. LENGTH		MILES		AV. WIDTH		MILES		
	21. MAX. ELEV.		MIN. ELEV. 1,313		25. CLIMATIC CLASSIFICATION Humid				
SURVEY DATA	26. DATE OF SURVEY		27. PERIOD YEARS		28. ACCL. YEARS		29. TYPE OF SURVEY		
	1930		-		-		-		
	April 1949		19		19		Range Recon.		
	30. NO. OF RANGES OR CONTOUR INT.		31. SURFACE AREA ACRES		32. CAPACITY ACRE- FEET		33. C/W RATIO AC-FT. PER SQ. MI.		
	-		26.3		313		53.1		
	12		26.3		282		47.8		
	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		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			
April 1949		31		1.63		0.28			
		a. PERIOD TOTAL		b. AV. ANNUAL		c. PER SQ. MI.-YEAR			
		31		1.63		0.28			
26. DATE OF SURVEY		39. AV. DRY WGT. LBS. PER CU. FT.		40. SED. DEP. TONS PER SQ. MI.-YR.		41. STORAGE LOSS PCT.			
		a. PERIOD		b. TOTAL TO DATE		a. AV. ANNUAL			
		b. TOTAL TO DATE		a. AV. ANNUAL		b. TOT. TO DATE			
		50*		305		0.52			
		305		305		9.9			
		a. PERIOD		b. TOT. TO DATE		a. PERIOD			
		b. TOT. TO DATE		a. PERIOD		b. TOT. TO DATE			
		305		305		305			

*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															
Data on dam obtained from "Dams Under Jurisdiction of the State of California", Department of Public Works, Division of Water Resources, State of California, February 1, 1950.															
Region 7, Soil Conservation Service U. S. Department of Agriculture															
48. AGENCY SUPPLYING DATA											49. DATE <u>August 31, 1950</u>				
Portland, Oregon															

RESERVOIR SEDIMENT
DATA SUMMARY

SCS-34 Rev. 6-66

Ridgewood (Walker)

NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

72-1a

DATA SHEET NO.

DAM	1. OWNER Ridgewood Ranch			2. STREAM Walker Creek			3. STATE California					
	4. SEC. 18 TWP. 17N RANGE 13W			5. NEAREST P.O. Willits 6S			6. COUNTY Mendocino					
	7. LAT. 39° 19' " LONG. 123° 20' "			8. TOP OF DAM ELEVATION 100.0			9. SPILLWAY CREST ELEV. 93.0					
RESERVOIR	10. STORAGE ALLOCATION		11. ELEVATION TOP OF POOL		12. ORIGINAL SURFACE AREA, ACRES		13. ORIGINAL CAPACITY, ACRE-FEET		14. GROSS STORAGE, ACRE-FEET		15. DATE STORAGE BEGAN	
	a. FLOOD CONTROL										1930	
	b. MULTIPLE USE										16. DATE NORMAL OPER. BEGAN	
	c. POWER										1930	
	d. WATER SUPPLY											
	e. IRRIGATION		93.0*		26.3		313		313			
	f. CONSERVATION											
g. INACTIVE												
WATERSHED	17. LENGTH OF RESERVOIR 0.26 MILES				AV. WIDTH OF RESERVOIR 0.15 MILES							
	18. TOTAL DRAINAGE AREA 5.7 SQ. MI.				22. MEAN ANNUAL PRECIPITATION 35.97 (42 yr) INCHES							
	19. NET SEDIMENT CONTRIBUTING AREA 5.6 SQ. MI.				23. MEAN ANNUAL RUNOFF 9.9 (42 yr) INCHES							
	20. LENGTH 3.5 MILES		AV. WIDTH 1.6 MILES		24. MEAN ANNUAL RUNOFF 3009 AC.-F.T.							
	21. MAX. ELEV. 2800		MIN. ELEV. 1300		25. ANNUAL TEMP: MEAN 59.2° RANGE 46°-74°F							
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/I. RATIO, AC.-FT. PER AC.-FT.			
	1930		--	--	--	--	26.3	313	0.10			
	6 - 66		36	36	Range (D)	11	20.5	216	0.07			
	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			
	6 - 66		35.96		3009	8459	108,324	3009	108,324			
	26. DATE OF SURVEY		37. PERIOD CAPACITY LOSS, 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				
	6 - 66		97	2.69	0.48	127 ^{1/2}	3.53	0.63				
	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. ANN.	b. TOT. TO DATE	a. PERIOD	b. TOT. TO DATE				
6 - 66		77.5	1063	1063	1.12	40.58	1456	1456				

* Assumed Datum

26. DATE OF SURVEY	43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, 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
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
93	20.47	215.89	72	1.49	3.18			
90	18.76	156.28	70	0.85	0.84			
86	12.46	93.80	68	0	0			
82	8.63	51.60						
78	5.48	23.36						
74	2.57	7.24						

47. REMARKS AND REFERENCES

1/ Sediment measured below spillway 97 Ac. Ft.
 Sediment above spillway 30 Ac. Ft. Total Sediment trapped by reservoirs 127 Ac. Ft.

Land Use: Woodland 27%, Woodland Logged 15%, Brush 13%, Range and Grassland 45%
 Geology: Unnamed cretaceous marine sandstone and shales
 Reservoir Sediment: 54% sand and fine gravel, 46% silt

48. AGENCY MAKING SURVEY Soil Conservation Service, Berkeley, California
 49. AGENCY SUPPLYING DATA Same 50. DATE 10/20/71