

U.S. DEPARTMENT OF AGRICULTURE
**RESERVOIR SEDIMENTATION
DATA SUMMARY**

Teakettle #1 (1938-1955)

SOIL CONSERVATION SERVICE
71-31a

NAME OF RESERVOIR

Kings R.

DATA SHEET NO.

DAM	1. OWNER USDA, Forest Service		2. RIVER Teakettle Cr. Trib./		3. STATE California				
	4. SEC. 27 TWP. 11S RANGE 27E		5. NEAREST TOWN Fresno		6. COUNTY Fresno				
	7. STREAM BED ELEV. 6400 ft.		8. TOP OF DAM ELEV. 6,412.2 ft.		9. SPILLWAY CREST ELEV. 6407.7 ft.				
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. POWER					Fall, 1938			
	c. WATER SUPPLY					16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE 1)	6407.7 ft.	0.087	0.39 2)		Fall, 1938			
17. LENGTH OF RESERVOIR 0.021 MILES			AV. WIDTH OF RESERVOIR 0.0065 MILES						
WATERSHED	18. TOTAL DRAINAGE AREA 0.77 SQ. MI.		22. MEAN ANNUAL PRECIPITATION 40 INCHES						
	19. NET SEDIMENT CONTRIBUTING AREA 0.77 SQ. MI.		23. MEAN ANNUAL RUNOFF INCHES						
	20. LENGTH 2.23 MILES		AV. WIDTH 0.34 MILES		24. MEAN ANNUAL RUNOFF AC.-FT.				
	21. MAX. ELEV. 8000 ft.		MIN. ELEV. 6400 ft.		25. CLIMATIC CLASSIFICATION Humid				
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.	
	Fall, 1938	--	--	Detailed	--	0.087	0.39	0.51	
	" , 1948	10.0	10.0	"	--	"	0.18	0.23	
	" , 1951	3.0	13.0	"	--	"	0.002	0.003	
	" , 1955	4.0	17.0	"	--	"	0.0003)	0.000	
	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		
	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		
Fall, 1948	0.208	0.0208	0.0271	0.208	0.0208	0.027			
" , 1951	0.250	0.0833	0.1100	0.458	0.0352	0.046			
" , 1955	0.024	0.0060	0.0078	0.482	0.0284	0.037			
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		

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	-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

1/ Item 10g: Water-yield research facility; inflow = outflow over weir.

48. AGENCY MAKING SURVEY
 49. AGENCY SUPPLYING DATA U. S. Forest Service
 50. DATE 8/22/66