

RESERVOIR SEDIMENTATION
DATA SUMMARY

Carnegie Lake
NAME OF RESERVOIR

3-3
DATA SHEET NO.

DAM	1. OWNER Princeton University			2. RIVER Millstone R.			3. STATE New Jersey		
	4. SEC. TWP. RANGE		5. NEAREST TOWN Princeton			6. COUNTY Hunterdon-Mercer			
	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					Dec. 1907			
	b. POWER								
	c. WATER SUPPLY ^{1/}		236	1256	1256	16. DATE NORMAL OPER. BEGAN			
	d. IRRIGATION								
	e. CONSERVATION								
	f. INACTIVE					Dec. 1907			
17. LENGTH OF RESERVOIR 3.5			MILES	AV. WIDTH OF RESERVOIR 0.1		MILES			
WATERSHED	18. TOTAL DRAINAGE AREA 155			SQ. MI.	22. MEAN ANNUAL PRECIPITATION 45			INCHES	
	19. NET SEDIMENT CONTRIBUTING AREA 47.8			SQ. MI.	23. MEAN ANNUAL RUNOFF 15			INCHES	
	20. LENGTH		MILES	AV. WIDTH		MILES	24. MEAN ANNUAL RUNOFF		AG.-FT.
	21. MAX. ELEV.		MIN. ELEV.			25. CLIMATIC CLASSIFICATION			
	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.
Dec. 1907		--	--	--	--	236	1256	26.28	
9-21-50		42.8	42.8	Range	16	236	954	19.96	
1959 ^{3/}		9.0	51	Range Det.	14 ^{3/}	221.2 ^{3/}	822 ^{3/}	---	
SURVEY DATA	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	
	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	a. TOTAL TO DATE	b. AV. ANNUAL	c. PER SQ. MI.-YEAR	
	9-21-50		405 ^{2/}	9.47	0.20	405	9.47	.20	
	1959 ^{3/}		459 ^{2/3/}	9.47	0.20	459	9.47	.20	
	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	a. PERIOD	b. TOT. TO DATE
9-21-50		50*	217.8	217.8	.75	24.05			
1959 ^{3/}		---	---	---	.76	30.22			

^{1/} Includes recreation

^{2/} Includes 103 acre-feet dredged in 1937-1939

^{3/} Partial survey covering segments 1-14 in Stoney Brook Arm only

* 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