RESERVOIR SEDIMENTATION
DATA SUMMARY

Walnut Cove

6-10a

DATA SHEET NO. NAME OF RESERVOIR 3. STATE North Carolina 1. OWNER Duke Power Company RIVER Dan 5. NEAREST TOWN Walnut Cove RANGE 6. COUNTY Stokes TWP. 9. SPILLWAY CREST ELEV. 638.6 616 8. TOP OF DAM ELEY. Not known 7. STREAM BED ELEV. 15 DATE STORAGE 11. 12. ACCUMULATED **ELEVATION** SURFACE STORAGE STORAGE ACRE-FEET BEGAN TOP OF POOL AREA ACRES ACRE-FEET **ALLOCATION** a. FLOOD CONTROL Not applicable Not known b. POWER 68 97L 638.6 Not known C. WATER SUPPLY 0 0 16 DATE NORMAL Not applicabl OPER. BEGAN d. IRRIGATION ۵ 0 Not applicabl e. CONSERVATION Not applicable 0 0 192և Not known f. INACTIVE Not known Not known Not known MILES AV. WIDTH OF RESERVOIR MILES 17. LENGTH OF RESERVOIR .0298 3.5L SO.MI. 22, MEAN ANNUAL PRECIPITATION 19.6 (26 yrs) INCHES 18. TOTAL DRAINAGE AREA 397 INCHES 397 SQ.MI. 23. MEAN ANNUAL RUNOFF 19. NET SEDIMENT CONTRIBUTING AREA 19.4 (26 yrs) AC.-FT. MILES 24. MEAN ANNUAL RUNOFF MILESIAV. WIDTH 20. LENGTH 9.5 412.000 (26 yrs) 25. CLIMATIC CLASSIFICATION humid 21. MAX. ELEV. 3300 MIN. ELEV. 616 33. C/W RATIO 28. ACCL. 29 TYPE OF 27 PERIOD 30 NO OF RANGES 31. SURFACE CAPACITY DATE OF SURVEY OR CONTOUR INT. ACRE-FEET AC-FT. PER SQ.M.L AREA ACRES SURVEY **YEARS** YEARS 974 2/ 2.45 209 2/ 68 Apr 15, 10 9 1/ 9 1/ Range 0.53 Detail 1932 1/ PERIOD 34. 35. PERIOD WATER INFLOW ACRE-FEET 36. WATER INFL. TO DATE AC--FT. 26. DATE OF PRECIPITATION a. MEAN ANNUAL | b. MAX. ANNUAL | c. PERIOD TOTAL a. MEAN ANNUAL | b. TOTAL TO DATE SURVEY 46.8 357,000 567,000 3,210,000 357,000 3,210,000 Apr 15, 1932 DATA SURVEY PERIOD SEDIMENT DEPOSITS ACRE-FEET 38. TOTAL SED. DEPOSITS TO DATE ACRE-FEET 26. DATE OF C. PER SO.MI.-YR a. TOTAL TO DATE b. AV. ANNUAL C.PER SO.MI.-YR. SURVEY a. PERIOD TOTAL b. AV. ANNUAL 85.0 .214 85.0 .214 765 765 Apr 15. (918) 3/(102)(.257) (.257) (918)3/(102)1932 40. SED. DEP. TONS PER SQ. MI -YR. 41. STORAGE LOSS PCT. SED. INFLOW PPM 26. 39 AV. DRY WGT DATE OF LBS. PER CU.FT. a. a. PERIOD b. TO DATE SURVEY PERIOD b. TOTAL TO DATE a. AV. ANNUAL D. TO DATE 43 * 1/ 78.5 164 3/ 16L 200 200 8.73 Apr 15, (197)(197)(241) 3/(2加) 1932

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^{47.} REMARKS AND REFERENCES depletion

^{1/} Assume storage elepletion occured in 9 years, see H.D. 65, 75th Congree, lst Session ("308" report).

^{2/} All Reservoir Volumes Computed by average end areas.

^{3/} Above crest deposits included.

^{48.} AGENCY SUPPLYING DATA
Department of the Army, Corps of Engineers, Norfolk District Revised 15 Feb 1962