RESERVOIR SEDIMENT
DATA SUMMARY
SCS-34 Rev. 6-66

Norvell Lake
NAME OF RESERVOIR

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

22-16
DATA SHEET NO.

DAM

1. OWNER Town of Norvell	2. STREAM River Raisin	3. STATE Michigan
4. SEC. 3 & 4 TWP. 4S RANGE 2E	5. NEAREST P.O. Norvell	6. COUNTY Jackson
7. LAT. ° ' " LONG. ° ' "	8. TOP OF DAM ELEVATION	9. SPILLWAY CREST ELEV.

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		89.7	717.6	717.6	?
b. MULTIPLE USE					
c. POWER					16. DATE NORMAL OPER. BEGAN
d. WATER SUPPLY					
e. IRRIGATION					
f. CONSERVATION					
g. INACTIVE					

WATERSHED

17. LENGTH OF RESERVOIR	1.50 MILES	AV. WIDTH OF RESERVOIR	0.13 MILES
18. TOTAL DRAINAGE AREA	58.5 SQ. MI.	22. MEAN ANNUAL PRECIPITATION	INCHES
19. NET SEDIMENT CONTRIBUTING AREA	25.3 SQ. MI.	23. MEAN ANNUAL RUNOFF	9.0 INCHES
20. LENGTH 17.0 MILES	AV. WIDTH 3.5 MILES	24. MEAN ANNUAL RUNOFF	28078 AC.-F T.
21. MAX. ELEV. 1200±	MIN. ELEV. 930±	25. ANNUAL TEMP: MEAN	RANGE

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.
May 7, 1969	100±		Mod Range	10	89.7	Original 717.6 Present 502.3	.026 .018

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 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
May 7, 1969	215.3	2.15	0.085	215.3	2.15	0.085

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
May 7, 1969	23.3	43	43	0.30	30		

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

Geology: Moraine, ground Moraine and outwash.

Soils: Well drained sands and loamy sands with 3 to 12% slopes and organic and associated soils.

Sediment: The inflowing sediments are silt and clay. However, the deposited sediments include a very high proportion of organic material derived from plant growth within the reservoir. The rates of organic sediment accumulation are related more to other factors than to the inflow of mineral sediment to the reservoir.

48. AGENCY MAKING SURVEY Michigan RB & WPP, SCS

49 AGENCY SUPPLYING DATA Michigan RB & WPP, SCS

50. DATE May 9, 1969