

RESERVOIR SEDIMENT DATA SUMMARY

Horton's Pond

NAME OF RESERVOIR

76 - 24

DATA SHEET NO.

| | | | | | | | | | | | | | | | | |
|-------------|---|-----------|-------------------------------------|------------------|-------------------------------------|-------------|--|-----------------|--|-----------|-----------------------------|-----------------|-------------------------|--|-------------------------------------|--|
| DAM | 1. OWNER Horton | | | | 2. STREAM Unnamed | | | | 3. STATE WA | | | | | | | |
| | 4. SEC. NE 1/4 1 TWP. 14N RANGE 40E | | | | 5. NEAREST P.O. Dusty | | | | 6. COUNTY Whitman | | | | | | | |
| | 7. LAT 46° 40' " LONG. 117° 40' " | | | | 8. TOP OF DAM ELEVATION 100 1/ | | | | 9. SPILLWAY CREST ELEV. 97.0 | | | | | | | |
| 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 | | | | | | | | | | 1967 | | | | | |
| | b. MULTIPLE USE | | | | | | | | | | | | | | | |
| | c. POWER | | | | | | | | | | | | | | | |
| | d. WATER SUPPLY | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | | |
| | e. IRRIGATION | | | | | | | | | | | | | | | |
| | f. CONSERVATION | | 97.0 | | 1.06 | | 3.72 | | 3.72 | | 1967 | | | | | |
| g. INACTIVE | | | | | | | | | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 200 Ft. | | | | AV. WIDTH OF RESERVOIR 200 Ft. | | | | 17. LENGTH OF RESERVOIR 200 Ft. | | | | | | | |
| | 18. TOTAL DRAINAGE AREA 224 ac./0.35 | | | | SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION 16 | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 0.35 | | | | SQ. MI. | | | | 23. MEAN ANNUAL RUNOFF 0.5 | | | | | | | |
| | 20. LENGTH 0.4 MILES | | | | AV. WIDTH 0.9 MILES | | | | 24. MEAN ANNUAL RUNOFF 9.33 | | | | | | | |
| | 21. MAX. ELEV. 1760 | | | | MIN. ELEV. 1600 | | | | 25. ANNUAL TEMP.: MEAN 45.5° RANGE 58° - 35° | | | | | | | |
| 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. | |
| | June 67 | | -- | | -- | | -- | | -- | | 1.06 | | 3.72 | | .40 | |
| | 6/9/76 | | 9 | | 9 | | Range | | 4 | | 1.06 | | -- | | -- | |
| | 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 | | | |
| | 6/9/76 | | 3.72 | | | | | | 3.72 | | | | | | | |
| | 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 | | | | |
| 6/9/76 | | 80 1/ | | | | | | 100 | | | | | | | | |

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|--|---|------------|-----------------|---------------------------|------------|------------|-----------------|----------|-------|--------|------|------|------|------|------|
| 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 | | | | | | | | | | | | | | | |
| <p>Geology - Deep loess over basalt Soils - Walla Walla Sil. Land Use - Winter wheat-fallow</p> <p><u>1/</u> Assumed</p> | | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | Soil Conservation Service | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA | | | | Soil Conservation Service | | | | | | | | | | | |
| 50. DATE | | | | | | 6/28/76 | | | | | | | | | |