

RESERVOIR SEDIMENTATION
DATA SUMMARY

Pickrell Reservoir #1
NAME OF RESERVOIR

35-38

DATA SHEET NO.

| | | | | | | | | | | | | |
|--------------------|---|---|-------------------------------------|--------------------------|---|-----------------------------------|--------------------------------|----------------------------------|---|--|-----------------------------|--|
| DAM | 1. OWNER Sam Pickrell | | | 2. RIVER Russell Creek | | | 3. STATE Nebraska | | | | | |
| | 4. SEC. 23 TWP. 8N RANGE 10E | | | 5. NEAREST TOWN Unadilla | | | 6. COUNTY Otoe | | | | | |
| | 7. STREAM BED ELEV. 88.7 | | | 8. TOP OF DAM ELEV. | | | 9. SPILLWAY CREST ELEV. 100.0% | | | | | |
| 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 | | | | | | | | | | 1949 | |
| | b. POWER | | | | | | | | | | | |
| | c. WATER SUPPLY | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | |
| | d. IRRIGATION | | | | | | | | | | | |
| | e. CONSERVATION | | 100.0 | | 6.59 | | 35.76 | | 35.76 | | 1949 | |
| | f. INACTIVE | | | | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 0.189 MILES | | | | AV. WIDTH OF RESERVOIR 0.085 MILES | | | | | | | |
| | 18. TOTAL DRAINAGE AREA (215 Ac) .336 SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION 29.46 INCHES | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA .326 SQ. MI. | | | | 23. MEAN ANNUAL RUNOFF INCHES | | | | | | | |
| | 20. LENGTH | | MILES | | AV. WIDTH | | MILES | | 24. MEAN ANNUAL RUNOFF | | AC.- FT. | |
| | 21. MAX. ELEV. | | MIN. ELEV. 88.7 | | 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. | | | |
| 1949 | | 0 | 0 | - | - | 6.59 | 35.76 | 106.4 | | | | |
| 1957 | | 8 | 8 | Range Detailed | 6 | 6.59 | 32.35 | 96.3 | | | | |
| 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 | | | | | |
| 1957 | | 3.41 | .426 | 1.27 | 3.41 | .426 | 1.27 | | | | | |
| 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 | | | | |
| 1957 | | 65 1/ | 1798 | 1798 | 1.2 | 9.5 | | | | | | |

* Assumed elevation
1/ Assumed av. dry weight

| | | | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|--|--|--|
| 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 |
| 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

48. AGENCY SUPPLYING DATA Soil Conservation Service 49. DATE 1957