

RESERVOIR SEDIMENTATION
DATA SUMMARY

Kruse Reservoir
NAME OF RESERVOIR

35-33
DATA SHEET NO.

| | | | | | | | | | | |
|--------------------|--|---|------------------------------------|---|---|---------------------------------|---------------------------------------|-----------------------------------|--|--|
| DAM | 1. OWNER <u>William H. Kruse</u> | | | 2. RIVER <u>Papillion Creek</u> | | | 3. STATE <u>Nebraska</u> | | | |
| | 4. SEC. <u>13</u> TWP. <u>15N</u> RANGE <u>11E</u> | | | 5. NEAREST TOWN <u>Elkhorn</u> | | | 6. COUNTY <u>Douglas</u> | | | |
| | 7. STREAM BED ELEV. | | | 8. TOP OF DAM ELEV. <u>103.3</u> | | | 9. SPILLWAY CREST ELEV. <u>100.6*</u> | | | |
| 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 | | | | | 1936 | | | | |
| | b. POWER | | | | | | | | | |
| | c. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN | | | | |
| | d. IRRIGATION | | | | | | | | | |
| | e. CONSERVATION | <u>100.6</u> | <u>13.5</u> | <u>61.5</u> | <u>61.5</u> | 1936 | | | | |
| | f. INACTIVE | | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR <u>0.374</u> MILES | | | AV. WIDTH OF RESERVOIR <u>0.072</u> MILES | | | | | | |
| | 18. TOTAL DRAINAGE AREA (<u>512 Ac</u>) <u>.80</u> SQ. MI. | | | 22. MEAN ANNUAL PRECIPITATION <u>25.49</u> INCHES | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA <u>.779</u> SQ. MI. | | | 23. MEAN ANNUAL RUNOFF INCHES | | | | | | |
| | 20. LENGTH MILES | | AV. WIDTH MILES | | 24. MEAN ANNUAL RUNOFF AC.-FT. | | | | | |
| | 21. MAX. ELEV. | | MIN. ELEV. | | 25. CLIMATIC CLASSIFICATION | | | | | |
| 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/W RATIO AC.-FT. PER SQ. MI. | | |
| | <u>1936</u> | <u>0</u> | <u>0</u> | <u>-</u> | <u>-</u> | <u>13.5</u> | <u>61.5</u> | <u>76.9</u> | | |
| | <u>1957</u> | <u>21</u> | <u>21</u> | <u>Range Detailed</u> | <u>11</u> | <u>13.5</u> | <u>11.2</u> | <u>14.0</u> | | |
| | 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 | | | |
| | <u>1957</u> | <u>50.24</u> | <u>2.39</u> | <u>2.99</u> | <u>50.24</u> | <u>2.39</u> | <u>2.99</u> | | | |
| | | <u>12.71 1/</u> | <u>0.61</u> | <u>0.76</u> | <u>12.71</u> | <u>0.61</u> | <u>0.76</u> | | | |
| 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 | | | |
| <u>1957</u> | <u>65 2/</u> | <u>4233 1/</u> <u>1076</u> | <u>4233</u> <u>1076</u> | <u>3.89</u> | <u>8.17</u> | | | | | |

* Assumed elevation 2/ Assumed av. dry weight
1/ Sediment above crest

