

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Cane Creek #11

NAME OF RESERVOIR

45-54a

DATA SHEET NO.

SCS-34 Rev. 6-66

| DAM | 1. OWNER R.C. Hinds & John Crook | | 2. STREAM Cane Creek | | 3. STATE Oklahoma | | | |
|--------------------|---|-------------------------------------|--|------------------------------------|---|-----------------------------|----------------------------------|-------------------------------------|
| | 4. SEC. 11 TWP. 14N RANGE 14E | | 5. NEAREST P.O. Okmulgee | | 6. COUNTY Okmulgee | | | |
| | 7. LAT. 35° 42' 17" LONG. 95° 47' 8" | | 8. TOP OF DAM ELEVATION 663.4 | | 9. SPILLWAY CREST ELEV. 659.4 | | | |
| 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 | 659.4 | 280.5 | 2593.1 | 2983.6 | 11-2-65 | | |
| | b. MULTIPLE USE | | | | | | | |
| | c. POWER | | | | | | | |
| | d. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN | | |
| | e. IRRIGATION | | | | | | | |
| | f. CONSERVATION | | | | | | | |
| g. INACTIVE 1/ | 639.3 | 42.2 | 390.5 | 390.5 | 11-2-65 | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 2.88 MILES | | AV. WIDTH OF RESERVOIR .06 MILES | | | | | |
| | 18. TOTAL DRAINAGE AREA 8.96 SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 39.53 INCHES | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 8.52 SQ. MI. | | 23. MEAN ANNUAL RUNOFF 6.5 INCHES | | | | | |
| | 20. LENGTH 7.21 MILES | | AV. WIDTH 1.2 MILES | | 24. MEAN ANNUAL RUNOFF 3105.9 AC.-F.T. | | | |
| | 21. MAX. ELEV. 760' | | MIN. ELEV. 620' | | 25. ANNUAL TEMP.: MEAN 61 RANGE 11° to 118° | | | |
| 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. |
| | 9-8-65 | - | - | Range Contour (D) | 35R 2'C.I. | 42.2(280.5) | 390.5(2983.6) | 0.13(0.96) |
| | 9-8-69 | 3.85 | 3.85 | Range Contour (D) | 35R 2'C.I. | 42.2(280.5) | 361.6(2954.7) | 0.12(0.95) |
| | 7-18-79 | 9.86 | 13.71 | Range Contour (D) | 35R 2'C.I. | 41.7(279.7) | 315.0(2898.6) | 0.10(0.93) |
| | 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 | |
| | 9-8-65 | - | | | | | | |
| 9-8-69 | 28.9(28.9) | 7.51(7.51) | 0.85(0.88) | 28.90(28.90) | 7.51(7.51) | 0.85(0.88) | | |
| 7-18-79 | 46.6(56.1) | 4.73(5.69) | 0.53(0.67) | 75.5(85.0) | 5.51(6.20) | 0.62(0.67) | | |
| 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 | |
| 9-8-65 | - | - | - | - | - | - | - | |
| 9-8-69 | 55 Sed.P(3) | 1011 | 1011 | 1.92 | 7.40 | - | - | |
| | 82 Det.P(3) | (1018) | (1018) | (0.25) | (0.97) | - | - | |
| 7-18-79 | 56 Sed.P(5) | 656 | 756 | 1.41 | 19.33 | - | - | |
| | 83 Det.P(3) | (852) | (901) | (0.21) | (2.85) | - | - | |

| | | | | | | | | | | | | | | | |
|--|---|------------|-----------------|-----------------------------------|------------|------------|-----------------|------------------|-------|--------|------|------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION | | | | | | | | | | | | | | |
| | 59.4- | 58-54 | 54-50 | 50-46 | 46-42 | 42-39.8 | 36-32 | 32-28 | 28-24 | 24-20 | | | | | |
| | 58 PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | | | | |
| 9-8-69 | 0 | 0 | 0 | 0 | 0 | 0 | 6.6 | 28.4 | 28.0 | 24.9 | 12.1 | | | | |
| 7-18-79 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 6 | 34 | 30 | 13 | | | | |
| 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 | | | | | | | |
| See attached sheet. | | | | | | | | | | | | | | | |
| 47. REMARKS AND REFERENCES | | | | | | | | | | | | | | | |
| <u>1/</u> Sediment Pool Geology: Senora Formation, Pennsylvanian Age Land Resource Area: Cherokee Prairie Land Use 1969: 9% cropland, 80% pasture-range, 8% forest, 3% miscellaneous Land Use 1979: 15% cropland, 15% pasture, 59% range, 7% forest, 4% miscellaneous () Figures in parenthesis include both sediment and detention pools. | | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | Oklahoma Watershed Planning Staff | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA | | | | SCS USDA | | | | 50. DATE 1-29-80 | | | | | | | |

ELEVATION-AREA-CAPACITY DATA

45 - 54a

| Elevation | Area | Capacity | Elevation | Area | Capacity |
|-----------------------------|-------|----------|--------------------|-------|----------|
| <u>1965 Original Survey</u> | | | <u>1969 Survey</u> | | |
| 659.4 | 280.5 | 2983.6 | 659.4 | 280.5 | 2954.7 |
| 658.0 | 249.4 | 2612.8 | 658.0 | 249.4 | 2584.0 |
| 656.0 | 209.4 | 2154.6 | 656.0 | 209.4 | 2125.8 |
| 654.0 | 173.9 | 1771.9 | 654.0 | 173.9 | 1743.1 |
| 652.0 | 141.1 | 1457.5 | 652.0 | 141.1 | 1428.6 |
| 650.0 | 116.2 | 1200.6 | 650.0 | 116.2 | 1171.7 |
| 648.0 | 96.3 | 988.5 | 648.0 | 96.3 | 960.0 |
| 646.0 | 81.0 | 811.4 | 646.0 | 81.0 | 782.6 |
| 644.0 | 73.5 | 657.0 | 644.0 | 73.5 | 628.1 |
| 642.0 | 56.9 | 527.0 | 642.0 | 56.9 | 498.1 |
| 640.0 | 48.1 | 422.1 | 640.0 | 48.1 | 393.2 |
| 639.3 | 42.2 | 390.5 | 639.3 | 42.2 | 361.6 |
| 638.0 | 38.8 | 337.9 | 638.0 | 38.4 | 309.3 |
| 636.0 | 34.7 | 264.5 | 636.0 | 33.5 | 237.5 |
| 634.0 | 30.5 | 199.4 | 634.0 | 28.4 | 175.7 |
| 632.0 | 25.7 | 143.4 | 632.0 | 22.9 | 124.6 |
| 630.0 | 21.6 | 96.2 | 630.0 | 19.9 | 81.9 |
| 628.0 | 16.7 | 58.0 | 628.0 | 14.8 | 47.3 |
| 626.0 | 12.1 | 29.4 | 626.0 | 10.2 | 22.4 |
| 624.0 | 7.2 | 10.3 | 624.0 | 5.7 | 6.8 |
| 622.0 | 2.2 | 1.4 | 622.0 | 1.0 | 0.7 |
| 620.0 | 0.0 | 0.0 | | | |

1979 Survey

| Elevation | Area | Capacity |
|--------------------|-------------|--------------|
| 659.4 | 279.3 | 2898.6 |
| 658.0 | 248.7 | 2528.6 |
| 656.0 | 208.8 | 2071.5 |
| 654.0 | 173.4 | 1689.7 |
| 652.0 | 140.7 | 1376.0 |
| 650.0 | 115.2 | 1120.4 |
| 648.0 | 96.0 | 909.4 |
| 646.0 | 80.8 | 732.8 |
| 644.0 | 72.4 | 579.7 |
| 642.0 | 56.7 | 450.8 |
| 640.0 | 48.0 | 346.3 |
| <u>639.3 Riser</u> | <u>41.7</u> | <u>315.0</u> |
| 638.0 | 36.4 | 264.4 |
| 636.0 | 29.9 | 198.1 |
| 634.0 | 24.4 | 143.9 |
| 632.0 | 19.4 | 100.1 |
| 630.0 | 17.2 | 63.5 |
| 628.0 | 12.6 | 33.8 |
| 626.0 | 8.2 | 13.1 |
| 624.0 | 2.6 | 2.8 |
| 622.0 | .3 | 0.2 |
| 620.0 | 0.0 | 0.0 |

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Cane Creek #11

NAME OF RESERVOIR

45-54a

DATA SHEET NO.

SCS-34 Rev. 6-66

| DAM | 1. OWNER R.C. Hinds & John Crook | | 2. STREAM Cane Creek | | 3. STATE Oklahoma | | | | | | | | | | | |
|--------------------|---|------------------------------------|-------------------------------------|-------------------------------------|---|------------------------|----------------------------------|----------------------|--|-----------------|-----------------------------|-------------|-------------------------|-----------------|-------------------------------------|--|
| | 4. SEC. 11 TWP. 14N RANGE 14E | | 5. NEAREST P.O. Okmulgee | | 6. COUNTY Okmulgee | | | | | | | | | | | |
| | 7. LAT. 35° 42' 17" LONG. 95° 47' 8" | | 8. TOP OF DAM ELEVATION 663.4 | | 9. SPILLWAY CREST ELEV. 659.4 | | | | | | | | | | | |
| 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 | | 659.4 | | 280.5 | | 2593.1 | | 2983.6 | | 11-2-65 | | | | | |
| | b. MULTIPLE USE | | | | | | | | | | 16. DATE NORMAL OPER. BEGAN | | | | | |
| | c. POWER | | | | | | | | | | 11-2-65 | | | | | |
| | d. WATER SUPPLY | | | | | | | | | | | | | | | |
| | e. IRRIGATION | | | | | | | | | | | | | | | |
| | f. CONSERVATION | | | | | | | | | | | | | | | |
| g. INACTIVE 1/ | | 639.3 | | 42.2 | | 390.5 | | 390.5 | | | | | | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 2.88 MILES | | | | AV. WIDTH OF RESERVOIR .06 MILES | | | | | | | | | | | |
| | 18. TOTAL DRAINAGE AREA 8.96 SQ. MI. | | | | 22. MEAN ANNUAL PRECIPITATION 39.53 INCHES | | | | | | | | | | | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 8.52 SQ. MI. | | | | 23. MEAN ANNUAL RUNOFF 6.5 INCHES | | | | | | | | | | | |
| | 20. LENGTH 7.21 MILES | | AV. WIDTH 1.2 MILES | | 24. MEAN ANNUAL RUNOFF 3105.9 AC.-F.T. | | | | | | | | | | | |
| | 21. MAX. ELEV. 760' | | MIN. ELEV. 620' | | 25. ANNUAL TEMP.: MEAN 61 RANGE 11° to 118° | | | | | | | | | | | |
| 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. | |
| | 9-8-65 | | - | | - | | Range Contour (D) | | 35R | | 42.2 (280.5) | | 390.5 (2983.6) | | 0.13 (0.96) | |
| | 9-8-69 | | 3.85 | | 3.85 | | Range Contour (D) | | 35R | | 42.2 (280.5) | | 361.6 (2954.7) | | 0.12 (0.95) | |
| | 7-18-79 | | 9.86 | | 13.71 | | Range Contour (D) | | 35R | | 41.7 (279.7) | | 315.0 (2898.6) | | 0.10 (0.93) | |
| | 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 | | | |
| | 9-8-65 | | - | | - | | - | | - | | - | | - | | | |
| 9-8-69 | | 28.9 (28.9) | | 7.51 (7.51) | | 0.85 (0.88) | | 28.90 (28.90) | | 7.51 (7.51) | | 0.85 (0.88) | | | | |
| 7-18-79 | | 46.6 (56.1) | | 4.73 (5.69) | | 0.53 (0.67) | | 75.5 (85.0) | | 5.51 (6.20) | | 0.62 (0.67) | | | | |
| 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 | | |
| 9-8-65 | | - | | - | | - | | - | | - | | - | | - | | |
| 9-8-69 | | 55 Sed. P(3) | | 1011 | | 1011 | | 1.92 | | 7.40 | | - | | - | | |
| | | 82 Det. P(3) | | (1018) | | (1018) | | (0.25) | | (0.97) | | - | | - | | |
| 7-18-79 | | 56 Sed. P(5) | | 656 | | 756 | | 1.41 | | 19.33 | | - | | - | | |
| | | 83 Det. P(3) | | (852) | | (901) | | (0.21) | | (2.85) | | - | | - | | |

| | | | | | | | | | | | | | | | |
|--|---|------------|-----------------|-----------------------------------|------------|------------|-----------------|------------------|-------|--------|------|------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION | | | | | | | | | | | | | | |
| | 59.4- | 58-54 | 54-50 | 50-46 | 46-42 | 42-39.8 | 36-32 | 32-28 | 28-24 | 24-20 | | | | | |
| | 58 PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | | | | |
| 9-8-69 | 0 | 0 | 0 | 0 | 0 | 0 | 6.6 | 28.4 | 28.0 | 24.9 | 12.1 | | | | |
| 7-18-79 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 6 | 34 | 30 | 13 | | | | |
| 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 | | | | | | | |
| See attached sheet. | | | | | | | | | | | | | | | |
| 47. REMARKS AND REFERENCES | | | | | | | | | | | | | | | |
| <u>1/</u> Sediment Pool Geology: Senora Formation, Pennsylvanian Age Land Resource Area: Cherokee Prairie Land Use 1969: 9% cropland, 80% pasture-range, 8% forest, 3% miscellaneous Land Use 1979: 15% cropland, 15% pasture, 59% range, 7% forest, 4% miscellaneous () Figures in parenthesis include both sediment and detention pools. | | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | Oklahoma Watershed Planning Staff | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA | | | | SCS USDA | | | | 50. DATE 1-29-80 | | | | | | | |

RESERVOIR SEDIMENT
DATA SUMMARY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Cane Creek #11

NAME OF RESERVOIR

45-54a

DATA SHEET NO.

SCS-34 Rev. 6-66

| DAM | 1. OWNER R.C. Hinds & John Crook | | 2. STREAM Cane Creek | | 3. STATE Oklahoma | | | |
|---------------------|---|-------------------------------------|------------------------------------|----------------------------------|--|----------------------------------|-------------------------|-------------------------------------|
| | 4. SEC. 11 TWP. 14N RANGE 14E | | 5. NEAREST P.O. Okmulgee | | 6. COUNTY Okmulgee | | | |
| | 7. LAT. 35° 42' 17" LONG. 95° 47' 8" | | 8. TOP OF DAM ELEVATION 663.4 | | 9. SPILLWAY CREST ELEV. 659.4 | | | |
| 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 | 659.4 | 280.5 | 2593.1 | 2983.6 | 11-2-65 | | |
| | b. MULTIPLE USE | | | | | | | |
| | c. POWER | | | | | | | |
| | d. WATER SUPPLY | | | | | 16. DATE NORMAL OPER. BEGAN | | |
| | e. IRRIGATION | | | | | | | |
| | f. CONSERVATION | | | | | | | |
| g. INACTIVE 1/ | 639.3 | 42.2 | 390.5 | 390.5 | 11-2-65 | | | |
| WATERSHED | 17. LENGTH OF RESERVOIR 2.88 | | MILES | | AV. WIDTH OF RESERVOIR .06 | | MILES | |
| | 18. TOTAL DRAINAGE AREA 8.96 | | SQ. MI. | | 22. MEAN ANNUAL PRECIPITATION 39.53 | | INCHES | |
| | 19. NET SEDIMENT CONTRIBUTING AREA 8.52 | | SQ. MI. | | 23. MEAN ANNUAL RUNOFF 6.5 | | INCHES | |
| | 20. LENGTH 7.21 | | MILES | | AV. WIDTH 1.2 | | MILES | |
| | 24. MEAN ANNUAL RUNOFF 3105.9 | | | | | | AC.-F.T. | |
| 21. MAX. ELEV. 760' | MIN. ELEV. 620' | 25. ANNUAL TEMP.: MEAN 61 | RANGE 11° to 118° | | | | | |
| 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. |
| | 9-8-65 | - | - | Range Contour (D) | 35R 2'C.I. | 42.2(280.5) | 390.5(2983.6) | 0.13(0.96) |
| | 9-8-69 | 3.85 | 3.85 | Range Contour (D) | 35R 2'C.I. | 42.2(280.5) | 361.6(2954.7) | 0.12(0.95) |
| | 7-18-79 | 9.86 | 13.71 | Range Contour (D) | 35R 2'C.I. | 41.7(279.7) | 315.0(2898.6) | 0.10(0.93) |
| | 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 | |
| | 9-8-65 | - | | | | | | |
| 9-8-69 | 28.9(28.9) | 7.51(7.51) | 0.85(0.88) | 28.90(28.90) | 7.51(7.51) | 0.85(0.88) | | |
| 7-18-79 | 46.6(56.1) | 4.73(5.69) | 0.53(0.67) | 75.5(85.0) | 5.51(6.20) | 0.62(0.67) | | |
| 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 | |
| 9-8-65 | - | - | - | - | - | - | - | |
| 9-8-69 | 55 Sed.P(3) | 1011 | 1011 | 1.92 | 7.40 | - | - | |
| | 82 Det.P(3) | (1018) | (1018) | (0.25) | (0.97) | - | - | |
| 7-18-79 | 56 Sed.P(5) | 656 | 756 | 1.41 | 19.33 | - | - | |
| | 83 Det.P(3) | (852) | (901) | (0.21) | (2.85) | - | - | |

| | | | | | | | | | | | | | | | |
|--|---|------------|-----------------|-----------------------------------|------------|------------|-----------------|------------------|-------|--------|------|------|------|------|------|
| 26. DATE OF SURVEY | 43. DEPTH DESIGNATION RANGE IN FEET BELOW, AND ABOVE, CREST ELEVATION | | | | | | | | | | | | | | |
| | 59.4- | 58-54 | 54-50 | 50-46 | 46-42 | 42-39.8 | 36-32 | 32-28 | 28-24 | 24-20 | | | | | |
| | 58 PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION | | | | | | | | | | | | | | |
| 9-8-69 | 0 | 0 | 0 | 0 | 0 | 0 | 6.6 | 28.4 | 28.0 | 24.9 | 12.1 | | | | |
| 7-18-79 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 6 | 34 | 30 | 13 | | | | |
| 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 | | | | | | | |
| See attached sheet. | | | | | | | | | | | | | | | |
| 47. REMARKS AND REFERENCES | | | | | | | | | | | | | | | |
| <u>1/</u> Sediment Pool Geology: Senora Formation, Pennsylvanian Age Land Resource Area: Cherokee Prairie Land Use 1969: 9% cropland, 80% pasture-range, 8% forest, 3% miscellaneous Land Use 1979: 15% cropland, 15% pasture, 59% range, 7% forest, 4% miscellaneous () Figures in parenthesis include both sediment and detention pools. | | | | | | | | | | | | | | | |
| 48. AGENCY MAKING SURVEY | | | | Oklahoma Watershed Planning Staff | | | | | | | | | | | |
| 49. AGENCY SUPPLYING DATA | | | | SCS USDA | | | | 50. DATE 1-29-80 | | | | | | | |