

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Lake Avalon

NAME OF RESERVOIR

58-3

DATA SHEET NO.

|                                   |   |                                    |                                    |   |                                   |                                 |   |  |   |                             |
|-----------------------------------|---|------------------------------------|------------------------------------|---|-----------------------------------|---------------------------------|---|--|---|-----------------------------|
| DAM                               | 1. OWNER Bureau of Reclamation          |                                    |                                    | 2. RIVER Pecos                              |                                   |                                 | 3. STATE New Mexico                       |  |   |                             |
|                                   | 4. SEC. TWP. 215 RANGE 26E              |                                    |                                    | 5. NEAREST TOWN Carlsbad                    |                                   |                                 | 6. COUNTY Eddy                            |  |   |                             |
|                                   | 7. STREAM BED ELEV. 3140                |                                    |                                    | 8. TOP OF DAM ELEV. 3194                    |                                   |                                 | 9. SPILLWAY CREST ELEV. 3178.0            |  |   |                             |
| 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                        |                                    | -                                  |   | -                                 |                                 | -   |  |   | 1906                        |
|                                   | b. POWER                                |                                    | -                                  |   | -                                 |                                 | -   |  |   |                             |
|                                   | c. <del>WATER SUPPLY</del>              |                                    | 3178.0                             |   |                                   |                                 | 605                                       |  | 7888  | 16. DATE NORMAL OPER. BEGAN |
|                                   | d. IRRIGATION                           |                                    | 3177.4                             |   |                                   |                                 | 6975                                      |  | 7283  |                             |
|                                   | e. CONSERVATION                         |                                    | -                                  |   | -                                 |                                 | -   |  |   |                             |
|                                   | f. INACTIVE                             |                                    | 3157.0                             |   | 55                                |                                 | 308                                       |  | 308   | March 1907                  |
| 17. LENGTH OF RESERVOIR 5.7 MILES |   |                                    |                                    |   | AV. WIDTH OF RESERVOIR 0.25 MILES |                                 |   |  |   |                             |
| WATERSHED                         | 18. TOTAL DRAINAGE AREA 18,070          |                                    |                                    |   | SQ. MI.                           |                                 | 22. MEAN ANNUAL PRECIPITATION 14.8 INCHES |  |   |                             |
|                                   | 19. NET SEDIMENT CONTRIBUTING AREA 1080 |                                    |                                    |   | SQ. MI.                           |                                 | 23. MEAN ANNUAL RUNOFF 0.29 INCHES        |  |   |                             |
|                                   | 20. LENGTH 312                          |                                    | MILES                              |   | AV. WIDTH 58                      |                                 | MILES                                     |  | 24. MEAN ANNUAL RUNOFF 283,800 (44) AC.-FT. |                             |
|                                   | 21. MAX. ELEV. 13,300                   |                                    |                                    | MIN. ELEV. 3140                             |                                   |                                 | 25. CLIMATIC CLASSIFICATION Semi-arid     |  |   |                             |
|                                   | 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 <sub>w</sub> RATIO AC.-FT. PER SQ. MI. |   |                             |
| 1905                              | 0                                       | 0                                  | Contour                            | 5-foot                                      | -                                 | 7888                            | -   |  |   |                             |
| 10/40 & 4/41                      | 36                                      | 36                                 | Range                              | 33 Ranges                                   | -                                 | 6633                            | -   |  |   |                             |
| 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                   | d. MEAN ANNUAL                  | e. TOTAL TO DATE                          |  |   |                             |
| 10/40 & 4/41                      | -                                       |                                    | 272,400                            | 754,400                                     | 9,806,300                         | 272,400                         | 9,806,300                                 |  |   |                             |
| 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                | d. TOTAL TO DATE                            | e. AV. ANNUAL                     | f. PER SQ. MI.-YEAR             |   |  |   |                             |
| 10/40 & 4/41                      | 1255                                    | 34.9                               | 0.0323                             | 1255  | 34.9                              | 0.0323                          |   |  |   |                             |
| 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                   | c. AV. ANNUAL                               | d. TOT. TO DATE                   | e. PERIOD                       | f. TOT. TO DATE                           |  |   |                             |
| 10/40 & 4/41                      | 85 (E)                                  | 59.8                               | 59.8                               | 15.9  | 15.9                              | 174.3                           | 174.3                                     |  |   |                             |

1/ Crest elevations: Spillway #2 = 3177.4, Spillway 1 & 3 = 3178.0 U.S.B.R. datum  
2/ Pecos River near Artesia (Dayton). Calendar Years 1905 through 1940

|  |   |       |       |      |       |     |  |  |  |  |  |  |
|--|---|-------|-------|------|-------|-----|--|--|--|--|--|--|
| 26.<br>DATE OF SURVEY                                      | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION |       |       |      |       |     |  |  |  |  |  |  |
|  | 35-21   | 21-18 | 18-13 | 13-8 | 8-3   | 3-0 |  |  |  |  |  |  |
| PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION |   |       |       |      |       |     |  |  |  |  |  |  |
| 10/40 & 4/41   | 24.5  | 15.8  | 38.2  | 40.4 | -19.7 | 0.8 |  |  |  |  |  |  |

|  |   |       |       |       |       |       |       |       |       |        |      |      |      |      |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|
| 28.<br>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. |
| 1940                             | 3177.22    | 3157.0     |                | 1945       | 3177.45    | 3157.0     |                |
| 1941                             | 3182.0     | 3157.0     |                | 1946       | 3177.40    | 3157.0     |                |
| 1942                             | 3179.2     | 3169.8     |                | 1947       | 3177.40    | 3157.0     |                |
| 1943                             | 3177.9     | 3168.6     |                |            |            |            |                |
| 1944                             | 3177.35    | 3157.0     |                |            |            |            |                |

| 46. 1940-41 ELEVATION-AREA-CAPACITY DATA |      |          |           |      |          |           |      |          |
|--|------|----------|-----------|------|----------|-----------|------|----------|
| ELEVATION                                | AREA | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA | CAPACITY |
| 3157                                     |      | 0        | 3164      |      | 42       | 3171      |      | 1167     |
| 3158                                     |      | 1        | 3165      |      | 73       | 3172      |      | 1710     |
| 3159                                     |      | 1        | 3166      |      | 122      | 3173      |      | 2352     |
| 3160                                     |      | 2        | 3167      |      | 201      | 3174      |      | 3066     |
| 3161                                     |      | 4        | 3168      |      | 324      | 3175      |      | 3848     |
| 3162                                     |      | 10       | 3169      |      | 485      | 3176      |      | 4706     |
|  |      |          |           |      |          | 3177      |      | 5633     |
| 3163                                     |      | 23       | 3170      |      | 756      | 3178      |      | 6633     |

47. REMARKS AND REFERENCES

48. AGENCY SUPPLYING DATA \_\_\_\_\_ 49. DATE \_\_\_\_\_

RESERVOIR SEDIMENTATION  
DATA SUMMARY

Avalon (Lake Avalon)  
NAME OF RESERVOIR

58-3a  
DATA SHEET NO.

|                                   |  |                                   |   |                                    |   |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|-----------------------------------|--|-----------------------------------|---|------------------------------------|---|-----------------------|--------------------------------|---------------------|---|-----------------|---|---------------|-------------------------|-----------------|-----------------------------------|--|
| DAM                               | 1. OWNER Bureau of Reclamation                   |                                   |   | 2. RIVER Pecos River               |   |                       | 3. STATE New Mexico            |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | 4. SEC. 12 TWP. 21S RANGE 26E                    |                                   |   | 5. NEAREST TOWN Carlsbad, N.M.     |   |                       | 6. COUNTY Eddy                 |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | 7. STREAM BED ELEV. 3140                         |                                   |   | 8. TOP OF DAM ELEV. 3194.0         |   |                       | 9. SPILLWAY CREST ELEV. 3178.0 |                     |   |                 |   |               |                         |                 |                                   |  |
| 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                                 |                                   | None                                    |                                    |   |                       |                                |                     |   |                 | 16. DATE NORMAL OPEER. BEGAN<br>April 1, 1907 |               |                         |                 |                                   |  |
|                                   | b. POWER   |                                   | None                                    |                                    |   |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | c. WATER SUPPLY                                  |                                   | None                                    |                                    |   |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | d. IRRIGATION                                    |                                   | 3178.0                                  |                                    | 1,000   |                       | 7,600                          |                     | 7,600                                       |                 | 16. DATE NORMAL OPEER. BEGAN<br>April 1, 1907 |               |                         |                 |                                   |  |
|                                   | e. CONSERVATION                                  |                                   | None                                    |                                    |   |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | f. INACTIVE                                      |                                   | 3157.0 <sup>1/2</sup>                   |                                    | 50  |                       | 0                              |                     | 0   |                 |   |               |                         |                 |                                   |  |
| 17. LENGTH OF RESERVOIR 5.7 MILES |  |                                   |   | AV. WIDTH OF RESERVOIR 0.25 MILES  |   |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
| WATERSHED                         | 18. TOTAL DRAINAGE AREA 16,030 SQ. MI.           |                                   |   |                                    | 22. MEAN ANNUAL PRECIPITATION (47 yrs.) 14.7 INCHES |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | 19. NET SEDIMENT CONTRIBUTING AREA 1,080 SQ. MI. |                                   |   |                                    | 23. MEAN ANNUAL RUNOFF (34 yrs.) 0.32 INCHES        |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | 20. LENGTH MILES                                 |                                   | AV. WIDTH 34.8 MILES                    |                                    | 24. MEAN ANNUAL RUNOFF 273,150 AC.-FT.              |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | 21. MAX. ELEV. MIN. ELEV. 3,140                  |                                   |   |                                    | 25. CLIMATIC CLASSIFICATION Semi-arid               |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
| 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. |  |
|                                   | April 1, 1907                                    |                                   | 0                                       |                                    | 0   |                       | Contour                        |                     | 5 foot                                      |                 | 1,000   |               | 7,600                   |                 | 2/2/                              |  |
|                                   | April 1, 1941                                    |                                   | 34.00                                   |                                    | 34.00   |                       | Range                          |                     | 33 ranges                                   |                 | -   |               | 6,633                   |                 |                                   |  |
|                                   | July 1, 1956                                     |                                   | 15.25                                   |                                    | 49.25   |                       | Range                          |                     | 33 ranges                                   |                 | 1,008   |               | 5,647                   |                 |                                   |  |
|                                   | 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                             |                 | d. MEAN ANNUAL                                |               | e. TOTAL TO DATE        |                 |                                   |  |
|                                   | April 1, 1907                                    |                                   | 4/                                      |                                    |   |                       |                                |                     |   |                 |   |               |                         |                 |                                   |  |
|                                   | April 1, 1941                                    |                                   | 14.87 in                                |                                    | 3/  |                       | 3/                             |                     | 3/  |                 | 3/  |               | 3/                      |                 | 3/                                |  |
|                                   | July 1, 1956                                     |                                   | 14.32 in                                |                                    | 256,440   |                       | 1,440,980                      |                     | 3,910,670                                   |                 | 256,440                                       |               | 3,910,670               |                 |                                   |  |
|                                   | 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            |                     | d. TOTAL TO DATE                            |                 | e. AV. ANNUAL                                 |               | f. PER SQ. MI.-YEAR     |                 |                                   |  |
|                                   | April 1, 1907                                    |                                   | 0                                       |                                    | 0   |                       | 5/                             |                     | 0   |                 | 0   |               | 5/                      |                 |                                   |  |
| April 1, 1941                     |  | 967                               |   | 28.4                               |   | .0263 (.0018)         |                                | 967                 |   | 28.4            |   | .0263 (.0018) |                         |                 |                                   |  |
| July 1, 1956                      |  | 986                               |   | 64.7                               |   | .0599 (.0040)         |                                | 1,953               |   | 39.7            |   | .0368 (.0025) |                         |                 |                                   |  |
| 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      |                                | c. AV. ANNUAL       |   | d. TOT. TO DATE |   | e. PERIOD     |                         | f. TOT. TO DATE |                                   |  |
| April 1, 1907                     |  | 0                                 |   | 0                                  |   | 0                     |                                | 0.                  |   | 0               |   | 0             |                         | 0               |                                   |  |
| April 1, 1941                     |  | 6/                                |   | -                                  |   | -                     |                                | 0.37                |   | 12.72           |   | 3/            |                         | 3/              |                                   |  |
| July 1, 1956                      |  | 76.7 (7)                          |   | -                                  |   | -                     |                                | 0.85                |   | 25.70           |   |               |                         |                 |                                   |  |

|  |   |      |    |       |      |       |      |      |     |            |  |
|--|---|------|----|-------|------|-------|------|------|-----|------------|--|
| 26.<br>DATE OF SURVEY                                      | 43. DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION |      |    |       |      |       |      |      |     |            |  |
|  | Bottom  | to   | 12 | 12-10 | 10-8 | 8-6   | 6-4  | 4-2  | 2-0 | 0 = 3178.0 |  |
| PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION |   |      |    |       |      |       |      |      |     |            |  |
| April 1, 1907  |   | 00   |    | 00    | 00   | 00    | 00   | 00   | 00  |            |  |
| April 1, 1941  |   | 84.2 |    | 31.6  | 10.5 | -21.0 | 00   | -5.3 | 00  |            |  |
| July 1, 1956   |   | 41.0 |    | 15.4  | 25.6 | -5.1  | 10.3 | 5.1  | 7.7 |            |  |

|  |   |       |       |       |       |       |       |       |       |        |      |      |      |      |
|--|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|------|------|------|------|
| 26.<br>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 |   |       |       |       |       |       |       |       |       |        |      |      |      |      |
| Data for computations not available                        |   |       |       |       |       |       |       |       |       |        |      |      |      |      |

|                                  |            |            |                |            |            |            |                |
|----------------------------------|------------|------------|----------------|------------|------------|------------|----------------|
| 45. RANGE IN RESERVOIR OPERATION |            |            |                |            |            |            |                |
| WATER YEAR                       | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. | WATER YEAR | MAX. ELEV. | MIN. ELEV. | INFLOW AC.-FT. |
| See Sheet 2 attached             |            |            |                |            |            |            |                |

| 46. ELEVATION-AREA-CAPACITY DATA |       |          |           |      |          |           |           |          |
|----------------------------------|-------|----------|-----------|------|----------|-----------|-----------|----------|
| ELEVATION                        | AREA  | CAPACITY | ELEVATION | AREA | CAPACITY | ELEVATION | AREA      | CAPACITY |
| 3178.0                           | 1,008 | 5,647    | 3172.0    | 508  | 1,197    | 3162.1    | 0         | 0        |
| 3177.4                           | 946.7 | 5,011    | 3171.0    | 420  | 733      |           |           |          |
| 3177.0                           | 906.5 | 4,640    | 3170.0    | 254  | 396      |           |           |          |
| 3176.0                           | 805   | 3,834    | 3169.0    | 157  | 190      |           |           |          |
| 3175.0                           | 733.5 | 3,065    | 3168.0    | 60   | 82       | 3178.0    | Spillways | No. 1&3  |
| 3174.0                           | 662   | 2,367    | 3166.0    | 10   | 12       | 3177.4    | Spillway  | No. 2    |
| 3173.0                           | 585   | 1,744    | 3164.0    | 1    | 1        | 3157.0    | Zero of   | gage     |

47. REMARKS AND REFERENCES Data from report on sedimentation survey of Lake McMillan and Lake Avalon by Bureau of Reclamation, Hydrology Branch, Albuquerque Project Office, July 1957.

Items 18, 19, 20, and 21 Avalon (1907) to McMillan (1894), 18 mi., D.A. 1,080 sq. mi.; Avalon to Alamogordo Dam (1937) 245 mi., D.A. 12,280 sq. mi.; Avalon to headwaters, 460 mi., D.A. 16,030 sq. mi.

1/Elevation of outlet gate sill and zero of gage  
 2/Three different drainage areas

48. AGENCY SUPPLYING DATA Bureau of Reclamation M.R.G. 49. DATE September 1961

## Item 45. Range in Avalon Reservoir Operation

Data Sheet No. 58-3a

| Calendar year | Gage height in feet | Inflow acre-feet | Calendar year | Gage height in feet | Inflow acre-feet |
|---------------|---------------------|------------------|---------------|---------------------|------------------|
| year          | maximum:minimum     | acre-feet        | year          | maximum:minimum     | acre-feet        |
| 1907          | 3/                  | 3/               | 1933          | 20.50 : 9.20        | 156,300          |
| 1908          | 3/                  | 3/               | 1934          | 20.20 : 1.50        | 92,200           |
| 1909          | 22.50 : 5.00        | 3/               | 1935          | 20.60 : 9.40        | 154,700          |
| 1910          | 19.90 : 3.00        | 3/               | 1936          | 19.90 : 2.00        | 160,400          |
| 1911          | 23.00 : 2.30        | 3/               | 1937          | 20.60 : 10.20       | 730,800          |
| 1912          | 20.90 : 2.30        | 161,470          | 1938          | 20.50 : 9.40        | 154,990          |
| 1913          | 22.50 : 8.80        | 219,160          | 1939          | 20.50 : 12.90       | 156,640          |
| 1914          | 25.25 : 2.50        | 333,630          | 1940          | 20.40 : 1.80        | 150,990          |
| 1915          | 22.50 : 12.20       | 513,010          | 1941          | 25.00 : 10.15       | 1,440,980        |
| 1916          | 27.00 : 13.10       | 383,950          | 1942          | 21.20 : 11.40       | 603,690          |
| 1917          | 19.80 : 3.00        | 3/               | 1943          | 21.00 : 11.90       | 199,860          |
| 1918          | 20.40 : 2.70        | 3/               | 1944          | 20.40 : 2.40        | 144,820          |
| 1919          | 20.40 : 17.30       | 749,610          | 1945          | 20.40 : 2.00        | 106,820          |
| 1920          | 3/                  | 3/               | 1946          | 20.40 : 0.00        | 116,360          |
| 1921          | 21.50 : 10.70       | 439,860          | 1947          | 20.40 : 0.00        | 85,640           |
| 1922          | 21.50 : 2.00        | 153,750          | 1948          | 20.45 : 7.60        | 129,190          |
| 1923          | 20.30 : 2.20        | 250,410          | 1949          | 20.40 : 12.90       | 192,200          |
| 1924          | 3/                  | 3/               | 1950          | 20.50 : 6.00        | 184,670          |
| 1925          | 20.50 : 2.00        | 3/               | 1951          | 20.50 : 5.00        | 118,680          |
| 1926          | 21.00 : 2.00        | 3/               | 1952          | 19.35 : 8.00        | 91,280           |
| 1927          | 20.50 : 2.00        | 3/               | 1953          | 19.80 : 6.50        | 72,930           |
| 1928          | 21.00 : 9.60        | 3/               | 1954          | 22.25 : 0.00        | 228,100          |
| 1929          | 21.00 : 12.70       | 3/               | 1955          | 21.50 : 11.70       | 164,100          |
| 1930          | 20.80 : 6.40        | 3/               | 1956          | 20.50 : 9.00        | 104,990          |
| 1931          | 21.00 : 11.20       | 3/               |               |                     |                  |
| 1932          | 21.50 : 13.00       | 341,000          | 34 Year Mean  |                     | 273,150          |

1/Zero of gage is 3157.0. Gage and inflow data from Carlsbad Project History.

2/Inflow equals runoff of Pecos River at Damsite No. 3 for period 1950-56.

3/No record.

## Remarks and References--continued

2/Three different drainage areas.

3/Inflow record incomplete. See Item 45.

4/Precipitation at Corona, New Mexico, 1910-56 is considered representative for Pecos Basin.

5/Compacted sediment. First figure is for 1,080 square miles and figure in parentheses for 16,030 square miles.

6/Only surface samples representing depths of 1.6 to 3.0 feet. Previously estimated as 85 pounds per cubic foot for 1941.