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RESERVOIR DISCHARGE INVESTIGATION  
AT BARREN RIVER AND NOLIN RIVER RESERVOIRS

Department of Fish and Wildlife Resources

Frankfort, Kentucky

Arnold L. Mitchell, Commissioner

1973

RESERVOIR DISCHARGE INVESTIGATION

AT BARREN RIVER AND NOLIN RIVER RESERVOIRS

[PART III of 3 PARTS]

By

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Appendix

Title

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Nolin River Reservoir

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A P P E N D I X    A

WATER QUALITY DETERMINATIONS-1971

Barren River Reservoir and Tailwater

Nolin River Reservoir and Tailwater

Table 1. Water temperatures (°Fahrenheit) at Barren River Reservoir and its tailwater, 1971. Temperatures were recorded biweekly from May through October (monthly in January, February, March, April, and December). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 552-525 feet, respectively. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 21-22*<br>(533') |   |   |   |      |   |      | January 21-22<br>(533') |      |      |      |      |   |      |      |
|-----------------|--------------------------|---|---|---|------|---|------|-------------------------|------|------|------|------|---|------|------|
|                 | A                        | B | C | D | E    | F | T    | 1                       | 2    | 3    | 4    | 5    | 6 | 7    | T    |
| 0               | 39.2                     |   |   |   | 37.9 |   | 39.2 | 39.9                    | 41.1 | 39.3 | 37.5 | 36.9 |   | 39.5 | 39.7 |
| 5               | 39.2                     |   |   |   | 37.9 |   |      |                         |      |      |      |      |   |      |      |
| 10              | 39.2                     |   |   |   | 37.9 |   |      | 39.9                    | 41.0 | 39.0 | 37.5 |      |   | 39.3 |      |
| 15              | 39.2                     |   |   |   | 37.9 |   |      |                         |      |      |      |      |   |      |      |
| 20              | 39.2                     |   |   |   | 37.9 |   |      | 39.5                    | 40.1 | 39.5 | 37.5 |      |   | 39.1 |      |
| 25              | 39.2                     |   |   |   |      |   |      |                         | 39.9 |      |      |      |   |      |      |
| 30              | 39.2                     |   |   |   |      |   |      | 39.5                    |      |      |      |      |   | 39.1 |      |
| 35              | 39.2                     |   |   |   |      |   |      |                         |      |      |      |      |   |      |      |
| 40              | 39.2                     |   |   |   |      |   |      | 39.5                    |      |      |      |      |   |      |      |
| 45              | 39.2                     |   |   |   |      |   |      | 39.5                    |      |      |      |      |   |      |      |

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Table 1. (continued)

| Depth<br>(feet) | February 18-19<br>(528') |      |      |      |      |   |      |      | February 25-26*<br>(535') |   |   |   |      |   |      |
|-----------------|--------------------------|------|------|------|------|---|------|------|---------------------------|---|---|---|------|---|------|
|                 | 1                        | 2    | 3    | 4    | 5    | 6 | 7    | T    | A                         | B | C | D | E    | F | T    |
| 0               | 40.0                     | 41.5 | 46.0 | 48.0 | 48.1 |   | 48.9 | 39.9 | 45.5                      |   |   |   | 46.4 |   | 44.6 |
| 5               |                          |      |      |      |      |   |      |      | 45.5                      |   |   |   | 46.4 |   |      |
| 10              | 39.9                     | 41.5 | 46.0 | 45.9 |      |   | 45.7 |      | 45.5                      |   |   |   | 46.4 |   |      |
| 15              |                          |      |      |      |      |   |      |      | 45.5                      |   |   |   | 46.4 |   |      |
| 20              | 39.9                     | 41.5 | 45.7 |      |      |   | 42.6 |      | 45.5                      |   |   |   | 46.4 |   |      |
| 25              |                          |      |      |      |      |   |      |      | 45.5                      |   |   |   | 46.4 |   |      |
| 30              | 39.9                     |      |      |      |      |   |      |      | 45.5                      |   |   |   | 46.4 |   |      |
| 35              |                          |      |      |      |      |   |      |      | 45.5                      |   |   |   |      |   |      |
| 40              | 37.9                     |      |      |      |      |   |      |      | 45.1                      |   |   |   |      |   |      |
| 45              |                          |      |      |      |      |   |      |      | 44.6                      |   |   |   |      |   |      |
| 50              |                          |      |      |      |      |   |      |      | 43.7                      |   |   |   |      |   |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | March 25-26<br>(531') |      |      |      |      |   |      |   | April 21-23<br>(542') |      |      |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|---|------|---|-----------------------|------|------|------|------|------|------|------|
|                 | 1                     | 2    | 3    | 4    | 5    | 6 | 7    | T | 1                     | 2    | 3    | 4    | 5    | 6    | 7    | T    |
| 0               | 47.0                  | 46.2 | 45.9 | 46.0 | 46.0 |   | 46.0 |   | 63.8                  | 65.0 | 67.0 | 66.7 | 65.9 | 66.2 | 64.0 | 56.0 |
| 5               |                       |      |      |      |      |   |      |   | 63.0                  | 64.0 | 65.0 | 66.7 | 65.8 |      | 64.5 |      |
| 10              | 47.1                  | 46.2 | 46.0 | 46.0 |      |   | 46.1 |   | 62.0                  | 63.5 | 64.0 | 66.7 | 65.7 |      | 64.4 |      |
| 15              |                       |      |      |      |      |   |      |   | 61.0                  | 57.9 | 55.1 | 62.3 |      |      | 54.7 |      |
| 20              | 47.1                  | 46.2 | 46.0 | 46.0 |      |   | 46.1 |   | 55.7                  | 54.0 | 53.9 | 57.2 |      |      | 53.7 |      |
| 25              |                       |      |      |      |      |   |      |   | 54.7                  | 52.9 | 53.2 | 56.0 |      |      | 53.1 |      |
| 30              | 47.1                  | 46.2 |      |      |      |   | 46.1 |   | 53.9                  | 51.1 |      | 55.2 |      |      | 52.9 |      |
| 35              |                       |      |      |      |      |   |      |   | 52.3                  | 51.0 |      |      |      |      | 52.7 |      |
| 40              | 47.1                  |      |      |      |      |   |      |   | 50.2                  |      |      |      |      |      |      |      |
| 45              | 47.0                  |      |      |      |      |   |      |   | 49.9                  |      |      |      |      |      |      |      |
| 50              |                       |      |      |      |      |   |      |   | 49.5                  |      |      |      |      |      |      |      |



Table 1. (continued)

| (feet) | April 28*<br>(542') |      |      |      |      |      |      | May 11*<br>(545') |      |      |      |      |      |      |
|--------|---------------------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|
|        | A                   | B    | C    | D    | E    | F    | T    | A                 | B    | C    | D    | E    | F    | T    |
| 0      | 68.0                | 65.8 | 65.3 | 67.1 | 66.2 | 68.5 | 57.2 | 65.3              | 69.4 | 69.8 | 68.5 | 67.6 | 66.2 | 61.7 |
| 5      | 67.1                | 65.3 | 64.4 | 66.2 | 64.9 | 67.6 |      | 65.3              | 68.9 | 63.5 | 68.0 | 67.6 | 65.3 |      |
| 10     | 66.2                | 64.9 | 62.6 | 63.1 | 63.5 | 64.9 |      | 65.3              | 66.7 | 61.7 | 62.6 | 67.6 | 62.6 |      |
| 15     | 65.3                | 64.4 |      |      | 60.8 | 63.5 |      | 64.9              | 61.3 |      | 62.6 | 67.1 | 62.2 |      |
| 20     | 60.8                | 64.0 |      |      | 55.9 | 62.6 |      | 64.4              | 60.8 |      | 62.6 | 62.6 | 62.2 |      |
| 25     | 57.2                | 63.5 |      |      | 55.0 |      |      | 60.8              | 60.4 |      |      | 59.9 | 62.2 |      |
| 30     | 56.8                | 63.5 |      |      | 55.0 |      |      | 59.0              | 60.4 |      |      | 56.3 |      |      |
| 35     | 56.3                |      |      |      |      |      |      | 51.8              |      |      |      | 55.9 |      |      |
| 40     | 55.4                |      |      |      |      |      |      | 50.9              |      |      |      | 55.9 |      |      |
| 45     | 53.6                |      |      |      |      |      |      | 50.5              |      |      |      |      |      |      |
| 50     | 52.7                |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |
| 55     | 51.8                |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |
| 60     | 51.8                |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |
| 65     | 52.7                |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| (feet) | May 17-19<br>(547') |      |      |      |      |      |      |      | May 25*<br>(548') |      |      |      |      |      |      |
|--------|---------------------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|
|        | 1                   | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                 | B    | C    | D    | E    | F    | T    |
| 0      | 68.0                | 71.0 | 69.0 | 69.8 | 68.0 | 67.4 | 71.2 | 61.0 | 66.7              | 72.5 | 71.6 | 72.1 | 69.8 | 71.6 | 64.4 |
| 5      | 67.5                | 68.2 | 67.5 | 67.8 | 67.9 |      | 69.0 |      | 66.2              | 72.1 | 71.2 | 70.7 | 68.5 | 71.6 |      |
| 10     | 66.0                | 65.9 | 66.2 | 64.5 | 67.5 |      | 64.4 |      | 66.2              | 71.6 | 69.8 | 69.8 | 68.0 | 71.2 |      |
| 15     | 64.0                | 63.2 | 63.5 | 62.0 | 66.8 |      | 63.5 |      | 63.5              | 71.2 | 68.0 | 68.9 | 68.0 | 70.3 |      |
| 20     | 63.0                | 62.9 | 61.9 | 58.6 | 66.5 |      | 63.7 |      | 62.6              | 69.4 |      | 66.2 | 65.3 | 69.4 |      |
| 25     | 62.0                | 62.0 | 61.1 | 57.7 |      |      | 60.0 |      | 62.2              | 68.5 |      |      | 62.6 | 61.7 |      |
| 30     | 59.0                | 59.0 | 59.2 | 57.2 |      |      | 59.3 |      | 60.8              | 67.6 |      |      | 60.8 |      |      |
| 35     | 56.0                | 55.8 | 54.2 | 57.2 |      |      | 58.2 |      | 57.2              |      |      |      | 60.8 |      |      |
| 40     | 55.0                | 53.6 |      |      |      |      | 57.9 |      | 53.6              |      |      |      | 60.8 |      |      |
| 45     | 53.0                |      |      |      |      |      |      |      | 51.8              |      |      |      |      |      |      |
| 50     | 51.5                |      |      |      |      |      |      |      | 50.9              |      |      |      |      |      |      |
| 55     | 51.0                |      |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |
| 60     | 50.5                |      |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |
| 65     | 50.0                |      |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |
| 70     |                     |      |      |      |      |      |      |      | 50.0              |      |      |      |      |      |      |

\*KDFWR



Table 1. (continued)

| Depth<br>(feet) | June 10*<br>(549') |      |      |      |      |      |      | June 14-16<br>(549') |      |      |      |      |      |      |      |
|-----------------|--------------------|------|------|------|------|------|------|----------------------|------|------|------|------|------|------|------|
|                 | A                  | B    | C    | D    | E    | F    | T    | 1                    | 2    | 3    | 4    | 5    | 6    | 7    | T    |
| 0               | 78.8               | 81.5 | 82.4 | 82.4 | 81.5 | 82.4 | 78.4 | 79.7                 | 80.5 | 80.2 | 82.0 | 83.0 | 75.5 | 82.2 | 80.0 |
| 5               | 77.5               | 77.5 | 78.4 | 79.7 | 78.8 | 79.7 |      | 79.0                 | 80.1 | 80.2 | 80.9 | 80.1 |      | 82.1 |      |
| 10              | 77.0               | 72.5 | 74.3 | 72.5 | 75.2 | 76.6 |      | 78.8                 | 80.0 | 79.9 | 78.0 | 75.3 |      | 78.1 |      |
| 15              | 71.6               | 68.9 | 71.2 | 69.8 | 69.8 | 71.6 |      | 72.5                 | 72.0 | 70.8 | 71.9 | 73.5 |      | 72.3 |      |
| 20              | 67.6               | 67.6 |      | 68.9 | 68.0 | 68.9 |      | 67.5                 | 68.0 | 68.8 | 68.9 | 70.8 |      | 68.8 |      |
| 25              | 65.8               |      |      |      | 65.8 | 67.6 |      | 64.5                 | 66.5 | 67.3 | 67.5 |      |      | 66.9 |      |
| 30              | 62.6               |      |      |      | 62.6 |      |      | 61.9                 | 63.0 | 63.7 | 65.8 |      |      | 63.2 |      |
| 35              | 59.5               |      |      |      | 60.8 |      |      | 59.0                 | 60.0 | 60.0 | 62.7 |      |      | 60.8 |      |
| 40              | 55.9               |      |      |      | 60.4 |      |      | 55.7                 | 55.6 | 58.8 | 61.8 |      |      | 58.0 |      |
| 45              | 53.6               |      |      |      |      |      |      | 53.2                 |      |      |      |      |      |      |      |
| 50              | 52.3               |      |      |      |      |      |      | 52.5                 |      |      |      |      |      |      |      |
| 55              | 51.8               |      |      |      |      |      |      | 52.0                 |      |      |      |      |      |      |      |
| 60              | 51.8               |      |      |      |      |      |      | 51.7                 |      |      |      |      |      |      |      |
| 65              | 51.4               |      |      |      |      |      |      | 51.1                 |      |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | June 24*<br>(550') |      |      |      |      |      |      | July 7*<br>(551') |      |      |      |      |      |      |
|-----------------|--------------------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|
|                 | A                  | B    | C    | D    | E    | F    | T    | A                 | B    | C    | D    | E    | F    | T    |
| 0               | 82.0               | 86.0 | 87.4 | 87.8 | 86.0 | 89.2 | 82.0 | 82.9              | 83.8 | 86.0 | 87.8 | 86.0 | 84.2 | 82.9 |
| 5               | 81.5               | 82.4 | 82.4 | 84.2 | 84.2 | 82.9 |      | 82.4              | 82.0 | 84.2 | 84.7 | 84.2 | 82.9 |      |
| 10              | 81.1               | 81.1 | 78.8 | 82.4 | 80.6 | 81.1 |      | 82.0              | 82.4 | 78.4 | 82.4 | 82.4 | 74.8 |      |
| 15              | 78.4               | 75.7 | 73.9 | 74.8 | 74.3 | 75.2 |      | 78.4              | 81.1 | 75.2 | 79.7 | 78.8 | 71.6 |      |
| 20              | 69.4               | 72.5 | 73.0 | 70.7 | 69.8 | 73.4 |      | 73.9              | 77.0 | 75.2 | 77.5 | 73.4 | 71.6 |      |
| 25              | 66.2               |      |      |      | 66.2 | 68.0 |      | 66.2              | 73.9 |      |      | 66.2 | 68.0 |      |
| 30              | 62.6               |      |      |      | 63.5 | 67.1 |      | 64.0              |      |      |      | 64.4 | 68.0 |      |
| 35              | 59.9               |      |      |      | 60.4 |      |      | 59.9              |      |      |      | 61.7 |      |      |
| 40              | 56.3               |      |      |      | 59.5 |      |      | 55.9              |      |      |      | 60.8 |      |      |
| 45              | 54.1               |      |      |      |      |      |      | 51.8              |      |      |      |      |      |      |
| 50              | 52.7               |      |      |      |      |      |      | 53.6              |      |      |      |      |      |      |
| 55              | 51.8               |      |      |      |      |      |      | 52.3              |      |      |      |      |      |      |
| 60              | 51.4               |      |      |      |      |      |      | 51.8              |      |      |      |      |      |      |
| 65              | 51.4               |      |      |      |      |      |      | 51.8              |      |      |      |      |      |      |
| 70              | 51.4               |      |      |      |      |      |      | 53.6              |      |      |      |      |      |      |

\*KDFWR



Table 1. (continued)

| Depth<br>(feet) | July 12-14<br>(552') |      |      |      |      |      |      |      | July 20-21*<br>(553') |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|
|                 | 1                    | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                     | B    | C    | D    | E    | F    | T    |
| 0               | 83.0                 | 85.1 | 85.0 | 84.9 | 83.9 | 76.1 | 84.2 | 81.7 | 80.6                  | 81.1 | 82.0 | 83.8 | 82.4 | 84.2 | 80.6 |
| 5               | 82.2                 | 84.9 | 84.1 | 84.1 | 83.9 |      | 84.2 |      | 80.6                  | 80.2 | 77.5 | 83.8 | 82.4 | 82.0 |      |
| 10              | 82.0                 | 83.5 | 84.0 | 83.1 | 80.9 |      | 84.0 |      | 80.2                  | 78.8 | 71.6 | 82.4 | 81.5 | 81.1 |      |
| 15              | 81.5                 | 82.9 | 83.0 | 78.9 | 77.3 |      | 82.1 |      | 78.8                  | 74.3 | 69.8 | 81.5 | 78.8 | 78.8 |      |
| 20              | 75.8                 | 74.5 | 73.9 | 74.2 |      |      | 75.5 |      | 72.5                  | 71.2 | 69.8 | 78.8 | 75.7 | 76.1 |      |
| 25              | 69.4                 | 69.5 | 68.0 | 67.9 |      |      | 69.9 |      | 65.3                  | 70.3 |      |      | 73.4 | 75.2 |      |
| 30              | 66.2                 | 66.4 | 64.9 | 65.1 |      |      | 65.5 |      | 64.9                  |      |      |      | 68.0 | 75.2 |      |
| 35              | 62.9                 | 63.5 | 61.5 | 64.0 |      |      | 64.0 |      | 61.7                  |      |      |      | 64.4 |      |      |
| 40              | 59.2                 | 60.0 | 59.4 | 63.8 |      |      | 63.8 |      | 59.5                  |      |      |      | 63.1 |      |      |
| 45              | 55.2                 | 56.2 |      |      |      |      | 57.8 |      | 56.3                  |      |      |      |      |      |      |
| 50              | 53.9                 |      |      |      |      |      | 56.9 |      | 53.6                  |      |      |      |      |      |      |
| 55              | 53.0                 |      |      |      |      |      |      |      | 52.7                  |      |      |      |      |      |      |
| 60              | 52.4                 |      |      |      |      |      |      |      | 52.3                  |      |      |      |      |      |      |
| 65              | 52.0                 |      |      |      |      |      |      |      | 51.8                  |      |      |      |      |      |      |
| 70              |                      |      |      |      |      |      |      |      | 51.8                  |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | July 26-28<br>(553') |      |      |      |      |      |      |      | August 2-7*<br>(558') |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|
|                 | 1                    | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                     | B    | C    | D    | E    | F    | T    |
| 0               | 80.0                 | 81.0 | 81.1 | 82.1 | 73.1 | 70.0 | 80.2 | 80.0 | 80.2                  | 80.6 | 80.6 | 82.0 | 82.4 | 77.0 | 67.1 |
| 5               | 80.0                 | 80.1 | 81.0 | 81.9 | 72.4 |      | 80.0 |      | 80.2                  | 78.4 | 78.8 | 80.6 | 80.6 | 71.2 |      |
| 10              | 79.9                 | 80.0 | 80.1 | 80.3 | 71.8 |      | 80.0 |      | 79.7                  | 76.6 | 71.6 | 78.4 | 76.6 | 70.3 |      |
| 15              | 79.9                 | 80.0 | 80.0 | 79.9 | 71.6 |      | 80.0 |      | 79.3                  | 71.6 | 68.9 | 73.4 | 73.4 | 70.3 |      |
| 20              | 75.4                 | 75.9 | 76.2 | 79.3 | 71.6 |      | 76.8 |      | 78.8                  | 69.4 | 68.9 | 69.8 | 72.5 | 70.3 |      |
| 25              | 71.9                 | 71.0 | 70.1 | 73.2 |      |      | 72.0 |      | 75.2                  | 67.6 | 68.9 | 68.9 | 72.1 | 70.3 |      |
| 30              | 67.3                 | 66.0 | 66.9 | 66.7 |      |      | 64.0 |      | 70.7                  | 67.1 | 68.5 | 68.5 | 72.1 | 69.8 |      |
| 35              | 64.0                 | 63.2 | 63.7 | 64.1 |      |      | 62.8 |      | 67.1                  | 66.7 |      |      | 71.6 |      |      |
| 40              | 60.2                 | 59.5 | 60.8 | 62.3 |      |      | 60.0 |      | 63.5                  | 66.7 |      |      | 71.6 |      |      |
| 45              | 57.0                 | 56.1 |      |      |      |      | 57.3 |      | 60.8                  |      |      |      | 71.6 |      |      |
| 50              | 54.9                 |      |      |      |      |      | 56.0 |      | 56.3                  |      |      |      | 71.6 |      |      |
| 55              | 53.9                 |      |      |      |      |      |      |      | 54.5                  |      |      |      |      |      |      |
| 60              | 53.0                 |      |      |      |      |      |      |      | 52.7                  |      |      |      |      |      |      |
| 65              | 52.3                 |      |      |      |      |      |      |      | 51.8                  |      |      |      |      |      |      |

\*KDFWR



Table 1. (continued)

| Depth<br>(feet) | August 9-11<br>(557') |      |      |      |      |   |      |      | August 20*<br>(553') |      |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|---|------|------|----------------------|------|------|------|------|------|------|
|                 | 1                     | 2    | 3    | 4    | 5    | 6 | 7    | T    | A                    | B    | C    | D    | E    | F    | T    |
| 0               | 84.1                  | 86.0 | 80.3 | 81.5 | 81.0 |   | 84.0 | 69.0 | 82.9                 | 83.3 | 83.3 | 83.3 | 84.2 | 84.2 | 71.6 |
| 5               | 83.9                  | 83.9 | 80.1 | 81.2 | 80.2 |   | 82.4 |      | 82.4                 | 82.4 | 81.5 | 81.5 | 82.4 | 82.9 |      |
| 10              | 80.6                  | 80.9 | 79.9 | 78.0 | 74.0 |   | 80.0 |      | 81.1                 | 80.6 | 79.7 | 80.6 | 81.1 | 82.0 |      |
| 15              | 77.9                  | 77.5 | 77.3 | 75.3 | 72.9 |   | 78.1 |      | 77.9                 | 76.6 | 76.6 | 78.8 | 78.8 | 78.8 |      |
| 20              | 75.0                  | 74.9 | 74.0 | 71.5 | 72.0 |   | 75.0 |      | 75.2                 | 73.4 | 73.9 | 75.2 | 74.3 | 73.4 |      |
| 25              | 73.0                  | 73.2 | 72.0 | 70.2 | 71.4 |   | 73.1 |      | 73.4                 | 71.6 |      | 73.9 | 73.4 | 73.4 |      |
| 30              | 71.9                  | 72.2 | 71.5 | 70.0 |      |   | 71.6 |      | 71.6                 | 71.6 |      |      | 72.1 | 70.7 |      |
| 35              | 71.3                  | 71.1 | 70.7 | 69.9 |      |   | 68.8 |      | 70.7                 |      |      |      | 70.7 |      |      |
| 40              | 70.9                  | 70.0 | 70.0 | 69.7 |      |   | 68.5 |      | 69.8                 |      |      |      | 69.8 |      |      |
| 45              | 69.4                  | 68.3 | 68.9 | 69.0 |      |   | 68.2 |      | 69.8                 |      |      |      | 69.8 |      |      |
| 50              | 66.0                  | 65.9 |      |      |      |   | 67.9 |      | 68.0                 |      |      |      |      |      |      |
| 55              | 62.5                  |      |      |      |      |   | 67.5 |      | 66.2                 |      |      |      |      |      |      |
| 60              | 59.8                  |      |      |      |      |   |      |      | 59.5                 |      |      |      |      |      |      |
| 65              | 53.5                  |      |      |      |      |   |      |      | 53.2                 |      |      |      |      |      |      |
| 70              | 52.7                  |      |      |      |      |   |      |      |                      |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | August 23-26<br>(552') |      |      |      |      |      |      |      | August 31-September 2*<br>(552') |      |      |      |      |      |      |
|-----------------|------------------------|------|------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|
|                 | 1                      | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                                | B    | C    | D    | E    | F    | T    |
| 0               | 82.8                   | 83.0 | 85.9 | 81.1 | 81.8 | 74.2 | 83.1 | 81.5 | 81.5                             | 81.5 | 81.1 | 80.6 | 81.1 | 79.7 | 81.5 |
| 5               | 81.9                   | 82.0 | 82.3 | 81.1 | 80.2 |      | 82.0 |      | 81.5                             | 81.1 | 80.6 | 80.6 | 81.1 | 79.3 |      |
| 10              | 81.5                   | 80.9 | 81.9 | 80.8 | 76.8 |      | 81.4 |      | 80.6                             | 79.7 | 78.8 | 80.6 | 80.6 | 78.8 |      |
| 15              | 81.5                   | 79.5 | 79.2 | 77.6 | 75.2 |      | 78.9 |      | 79.3                             | 78.4 | 77.0 | 78.4 | 78.8 | 76.1 |      |
| 20              | 75.9                   | 75.9 | 76.1 | 75.1 | 74.8 |      | 75.9 |      | 77.9                             | 74.3 | 73.4 | 75.2 | 75.2 | 73.0 |      |
| 25              | 73.1                   | 73.7 | 74.0 | 73.1 | 74.4 |      | 73.8 |      | 73.0                             | 72.5 |      | 74.3 | 73.4 | 71.2 |      |
| 30              | 71.9                   | 71.9 | 73.9 | 66.5 |      |      | 72.0 |      | 71.6                             | 72.5 |      |      | 71.6 |      |      |
| 35              | 71.0                   | 71.1 | 71.5 | 65.0 |      |      | 71.3 |      | 70.3                             |      |      |      | 70.7 |      |      |
| 40              | 70.1                   | 70.0 | 70.0 | 64.2 |      |      | 70.9 |      | 69.4                             |      |      |      | 69.8 |      |      |
| 45              | 69.5                   | 68.0 | 69.5 |      |      |      | 70.0 |      | 68.0                             |      |      |      | 69.4 |      |      |
| 50              | 67.3                   | 63.1 | 68.3 |      |      |      | 69.0 |      | 66.7                             |      |      |      |      |      |      |
| 55              | 65.8                   |      |      |      |      |      |      |      | 64.9                             |      |      |      |      |      |      |
| 60              | 58.0                   |      |      |      |      |      |      |      | 59.9                             |      |      |      |      |      |      |
| 65              | 53.0                   |      |      |      |      |      |      |      | 53.2                             |      |      |      |      |      |      |
| 70              |                        |      |      |      |      |      |      |      | 52.7                             |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | September 9-10<br>(552') |      |      |      |      |      |      |      | September 22*<br>(552') |      |      |      |      |   |   |
|-----------------|--------------------------|------|------|------|------|------|------|------|-------------------------|------|------|------|------|---|---|
|                 | 1                        | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                       | B    | C    | D    | E    | F | T |
| 0               | 85.2                     | 83.0 | 84.0 | 83.9 | 84.5 | 72.4 | 82.0 | 81.7 | 74.3                    | 76.1 | 77.0 | 77.5 | 76.1 |   |   |
| 5               | 82.8                     | 82.2 | 82.5 | 82.5 | 76.0 |      | 81.9 |      | 74.3                    | 73.4 | 72.5 | 74.3 | 74.3 |   |   |
| 10              | 81.7                     | 81.4 | 80.8 | 80.6 | 73.4 |      | 81.2 |      | 73.9                    | 73.4 | 72.1 | 73.9 | 74.3 |   |   |
| 15              | 80.0                     | 80.0 | 79.6 | 79.0 | 73.0 |      | 79.0 |      | 73.9                    | 73.4 | 71.6 | 73.4 | 74.3 |   |   |
| 20              | 77.1                     | 78.0 | 77.7 | 76.0 | 72.1 |      | 76.1 |      | 73.9                    | 72.1 | 71.2 | 71.6 | 74.3 |   |   |
| 25              | 73.8                     | 73.4 | 74.0 | 73.9 | 72.0 |      | 74.0 |      | 73.4                    | 72.1 |      |      | 73.9 |   |   |
| 30              | 72.0                     | 72.1 | 72.6 | 70.0 |      |      | 72.5 |      | 72.1                    | 72.1 |      |      | 72.5 |   |   |
| 35              | 71.1                     | 71.3 | 71.3 | 63.5 |      |      | 71.8 |      | 70.3                    |      |      |      | 70.7 |   |   |
| 40              | 70.0                     | 69.9 | 70.0 | 62.4 |      |      | 71.0 |      | 68.5                    |      |      |      | 70.7 |   |   |
| 45              | 68.2                     | 68.6 | 69.1 |      |      |      | 69.5 |      | 66.2                    |      |      |      |      |   |   |
| 50              | 66.2                     | 66.7 |      |      |      |      | 66.9 |      | 64.4                    |      |      |      |      |   |   |
| 55              | 64.0                     |      |      |      |      |      |      |      | 63.5                    |      |      |      |      |   |   |
| 60              | 61.0                     |      |      |      |      |      |      |      | 59.0                    |      |      |      |      |   |   |
| 65              | 54.5                     |      |      |      |      |      |      |      |                         |      |      |      |      |   |   |

\*KDFWR



Table 1. (continued)

| Depth<br>(feet) | September 20-22<br>(552') |      |      |      |      |      |      |      | October 15*<br>(550') |      |      |      |      |      |      |
|-----------------|---------------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|
|                 | 1                         | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                     | B    | C    | D    | E    | F    | T    |
| 0               | 75.2                      | 74.8 | 74.3 | 76.0 | 74.0 | 70.2 | 75.0 | 75.3 | 70.3                  | 68.5 | 67.6 | 68.9 | 68.9 | 66.2 | 67.6 |
| 5               | 75.0                      | 74.8 | 74.5 | 75.4 | 72.2 |      | 74.8 |      | 69.8                  | 68.5 | 67.6 | 68.0 | 68.9 | 66.2 |      |
| 10              | 74.9                      | 74.8 | 74.5 | 75.0 | 72.0 |      | 75.2 |      | 69.8                  | 68.0 | 66.2 | 67.6 | 68.5 | 65.8 |      |
| 15              | 74.8                      | 74.7 | 74.5 | 75.0 | 71.8 |      | 75.1 |      | 69.8                  | 66.7 | 62.2 | 66.7 | 68.5 | 64.4 |      |
| 20              | 74.8                      | 74.7 | 74.5 | 75.0 | 71.8 |      | 75.1 |      | 69.4                  | 62.6 | 62.2 | 64.0 | 68.0 | 64.0 |      |
| 25              | 74.7                      | 74.7 | 74.0 | 74.8 | 71.8 |      | 75.1 |      | 69.4                  | 53.2 |      |      | 68.0 |      |      |
| 30              | 73.0                      | 72.5 | 71.9 | 70.0 |      |      | 72.0 |      | 69.4                  |      |      |      | 68.0 |      |      |
| 35              | 71.0                      | 71.1 | 70.6 | 62.8 |      |      | 71.3 |      | 69.4                  |      |      |      | 67.6 |      |      |
| 40              | 69.8                      | 70.0 |      | 61.9 |      |      | 69.9 |      | 69.4                  |      |      |      | 67.6 |      |      |
| 45              | 67.5                      | 68.0 |      |      |      |      | 67.7 |      | 68.9                  |      |      |      |      |      |      |
| 50              | 65.5                      |      |      |      |      |      |      |      | 67.1                  |      |      |      |      |      |      |
| 55              | 64.3                      |      |      |      |      |      |      |      | 63.5                  |      |      |      |      |      |      |
| 60              | 60.2                      |      |      |      |      |      |      |      | 57.2                  |      |      |      |      |      |      |
| 65              |                           |      |      |      |      |      |      |      | 54.5                  |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | October 14-15<br>(550') |      |      |      |      |      |      |      | October 28*<br>(544') |      |      |      |      |      |      |
|-----------------|-------------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|
|                 | 1                       | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                     | B    | C    | D    | E    | F    | T    |
| 0               | 70.7                    | 69.9 | 69.7 | 68.1 | 67.3 | 61.1 | 70.0 | 68.3 | 72.1                  | 69.8 | 73.4 | 72.5 | 70.7 | 68.0 | 68.0 |
| 5               | 70.7                    | 69.9 | 69.7 | 68.1 | 64.0 |      | 70.0 |      | 68.9                  | 66.7 | 63.5 | 66.2 | 69.8 | 64.4 |      |
| 10              | 70.0                    | 69.9 | 69.7 | 68.1 | 63.5 |      | 70.0 |      | 68.5                  | 65.8 | 63.5 | 65.3 | 67.6 | 64.4 |      |
| 15              | 70.0                    | 69.9 | 69.7 | 68.1 | 63.5 |      | 69.9 |      | 68.5                  | 65.3 | 63.5 | 64.4 | 67.1 | 62.6 |      |
| 20              | 69.9                    | 69.7 | 69.3 | 67.9 | 63.5 |      | 69.9 |      | 68.5                  | 65.3 |      |      | 67.1 | 62.2 |      |
| 25              | 69.9                    | 69.7 | 69.3 | 67.0 |      |      | 69.9 |      | 68.5                  | 65.3 |      |      | 66.2 |      |      |
| 30              | 69.9                    | 69.6 | 69.2 | 64.3 |      |      | 69.9 |      | 68.5                  |      |      |      | 65.3 |      |      |
| 35              | 69.9                    | 69.6 | 68.9 | 61.4 |      |      | 68.0 |      | 68.0                  |      |      |      | 65.3 |      |      |
| 40              | 69.7                    | 69.4 |      |      |      |      | 68.0 |      | 66.7                  |      |      |      |      |      |      |
| 45              | 69.5                    | 69.0 |      |      |      |      | 68.0 |      | 66.2                  |      |      |      |      |      |      |
| 50              | 67.7                    |      |      |      |      |      |      |      | 65.8                  |      |      |      |      |      |      |
| 55              | 65.2                    |      |      |      |      |      |      |      | 57.7                  |      |      |      |      |      |      |
| 60              | 59.0                    |      |      |      |      |      |      |      |                       |      |      |      |      |      |      |

\*KDFWR

Table 1. (continued)

| Depth<br>(feet) | November 8-9<br>(540') |      |      |      |      |      |      |      | December 1-2*<br>(525') |   |   |   |      |   |      |
|-----------------|------------------------|------|------|------|------|------|------|------|-------------------------|---|---|---|------|---|------|
|                 | 1                      | 2    | 3    | 4    | 5    | 6    | 7    | T    | A                       | B | C | D | E    | F | T    |
| 0               | 62.0                   | 61.6 | 59.9 | 54.6 | 50.2 | 41.0 | 59.9 | 62.3 | 48.2                    |   |   |   | 44.6 |   | 48.2 |
| 5               |                        |      |      |      |      |      |      |      | 48.2                    |   |   |   | 44.6 |   |      |
| 10              | 62.5                   | 61.8 | 60.0 | 54.5 |      |      | 60.0 |      | 48.2                    |   |   |   | 44.6 |   |      |
| 15              |                        |      |      |      |      |      |      |      | 48.2                    |   |   |   | 44.6 |   |      |
| 20              | 62.5                   | 61.8 | 60.0 | 54.2 |      |      | 60.0 |      | 48.2                    |   |   |   |      |   |      |
| 25              |                        |      |      | 54.2 |      |      |      |      | 48.2                    |   |   |   |      |   |      |
| 30              | 62.5                   | 61.8 | 60.0 |      |      |      | 60.0 |      | 48.2                    |   |   |   |      |   |      |
| 35              |                        |      |      |      |      |      | 60.0 |      | 48.2                    |   |   |   |      |   |      |
| 40              | 62.5                   |      |      |      |      |      |      |      | 48.2                    |   |   |   |      |   |      |
| 45              |                        |      |      |      |      |      |      |      |                         |   |   |   |      |   |      |
| 50              | 62.5                   |      |      |      |      |      |      |      |                         |   |   |   |      |   |      |
| 55              | 56.0                   |      |      |      |      |      |      |      |                         |   |   |   |      |   |      |

\*KDFWR

Table 1. (continued)

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| Depth<br>(feet) | December 16-17<br>(525') |      |      |      |      |   |      |      |
|-----------------|--------------------------|------|------|------|------|---|------|------|
|                 | 1                        | 2    | 3    | 4    | 5    | 6 | 7    | T    |
| 0               | 50.0                     | 52.1 | 53.2 | 55.0 | 55.9 |   | 52.7 | 50.0 |
| 5               |                          |      |      |      |      |   |      |      |
| 10              | 50.0                     | 52.1 | 53.2 | 54.5 |      |   | 52.7 |      |
| 15              |                          |      | 53.2 |      |      |   |      |      |
| 20              | 50.0                     | 51.5 |      |      |      |   | 52.7 |      |
| 25              |                          |      |      |      |      |   |      |      |
| 30              | 49.9                     |      |      |      |      |   |      |      |
| 35              |                          |      |      |      |      |   |      |      |
| 40              | 50.0                     |      |      |      |      |   |      |      |

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Table 2. Dissolved oxygen content at Barren River Reservoir and its tailwater, 1971. Determinations were recorded biweekly from May through October (monthly in January, February, March, April, and December). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 552-525 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 21-22<br>(533') |      |      |      |      |   |      |      | January 21-22*<br>(533') |   |   |   |      |   |      |
|-----------------|-------------------------|------|------|------|------|---|------|------|--------------------------|---|---|---|------|---|------|
|                 | 1                       | 2    | 3    | 4    | 5    | 6 | 7    | T    | A                        | B | C | D | E    | F | T    |
| 0               | 12.8                    | 11.9 | 12.4 | 12.7 | 12.8 |   | 11.9 | 13.7 | 15.9                     |   |   |   | 16.1 |   | 16.8 |
| 5               |                         |      |      |      |      |   |      |      | 15.9                     |   |   |   | 16.1 |   |      |
| 10              | 12.8                    | 11.8 | 12.4 | 12.7 |      |   | 11.9 |      | 15.9                     |   |   |   | 16.0 |   |      |
| 15              |                         |      |      |      |      |   |      |      | 15.9                     |   |   |   | 16.1 |   |      |
| 20              | 12.1                    | 11.8 | 12.3 | 12.7 |      |   | 11.9 |      | 15.9                     |   |   |   | 16.1 |   |      |
| 25              |                         | 11.8 |      |      |      |   |      |      | 15.9                     |   |   |   |      |   |      |
| 30              | 12.1                    |      |      |      |      |   | 11.8 |      | 15.9                     |   |   |   |      |   |      |
| 35              |                         |      |      |      |      |   |      |      | 15.9                     |   |   |   |      |   |      |
| 40              | 12.1                    |      |      |      |      |   |      |      | 16.0                     |   |   |   |      |   |      |
| 45              | 12.0                    |      |      |      |      |   |      |      | 16.0                     |   |   |   |      |   |      |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | February 18-19<br>(528') |      |      |      |      |   |      |      | February 25-26*<br>(535') |   |   |   |      |   |      |
|-----------------|--------------------------|------|------|------|------|---|------|------|---------------------------|---|---|---|------|---|------|
|                 | 1                        | 2    | 3    | 4    | 5    | 6 | 7    | T    | A                         | B | C | D | E    | F | T    |
| 0               | 12.5                     | 12.3 | 12.1 | 11.5 | 11.1 |   | 11.5 | 13.9 | 10.8                      |   |   |   | 10.7 |   | 12.0 |
| 5               |                          |      |      |      |      |   |      |      | 10.9                      |   |   |   | 10.7 |   |      |
| 10              | 12.5                     | 12.3 | 12.1 | 11.5 |      |   | 11.5 |      | 10.9                      |   |   |   | 10.7 |   |      |
| 15              |                          |      | 12.1 |      |      |   |      |      | 10.9                      |   |   |   | 10.7 |   |      |
| 20              | 12.5                     | 12.3 |      |      |      |   | 11.5 |      | 10.9                      |   |   |   | 10.7 |   |      |
| 25              |                          |      |      |      |      |   |      |      | 10.9                      |   |   |   | 10.7 |   |      |
| 30              | 12.5                     |      |      |      |      |   |      |      | 10.9                      |   |   |   | 10.6 |   |      |
| 35              |                          |      |      |      |      |   |      |      | 10.9                      |   |   |   |      |   |      |
| 40              | 12.5                     |      |      |      |      |   |      |      | 10.9                      |   |   |   |      |   |      |
| 45              |                          |      |      |      |      |   |      |      | 11.1                      |   |   |   |      |   |      |
| 50              |                          |      |      |      |      |   |      |      | 11.0                      |   |   |   |      |   |      |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | March 25-26<br>(531') |      |      |      |      |   |      | April 21-23<br>(542') |      |      |      |      |     |      |      |      |
|-----------------|-----------------------|------|------|------|------|---|------|-----------------------|------|------|------|------|-----|------|------|------|
|                 | 1                     | 2    | 3    | 4    | 5    | 6 | 7    | T                     | 1    | 2    | 3    | 4    | 5   | 6    | 7    | T    |
| 0               | 11.8                  | 11.9 | 13.0 | 12.0 | 11.4 |   | 11.8 |                       | 11.9 | 11.6 | 10.8 | 9.8  | 9.2 | 10.2 | 12.5 | 11.3 |
| 5               |                       |      |      |      |      |   |      |                       | 11.4 | 12.3 | 11.2 | 10.4 | 8.7 |      |      |      |
| 10              | 10.2                  | 10.8 | 11.6 |      |      |   | 10.1 |                       | 11.2 | 11.2 | 11.0 | 10.6 | 8.4 |      | 12.3 |      |
| 15              |                       |      |      |      |      |   |      |                       | 11.2 | 9.9  | 10.2 | 10.6 |     |      |      |      |
| 20              | 9.4                   | 10.0 | 10.5 |      |      |   | 9.9  |                       | 10.2 | 8.1  | 7.4  | 8.9  |     |      |      |      |
| 25              |                       |      |      |      |      |   |      |                       | 8.6  | 6.8  | 6.0  | 7.7  |     |      |      |      |
| 30              | 9.4                   | 10.0 |      |      |      |   | 9.9  |                       | 5.5  | 5.3  |      | 7.2  |     |      | 7.6  |      |
| 35              |                       |      |      |      |      |   |      |                       | 4.7  | 4.8  |      |      |     |      |      |      |
| 40              | 9.4                   |      |      |      |      |   |      |                       | 4.0  |      |      |      |     |      |      |      |
| 45              | 9.3                   |      |      |      |      |   |      |                       | 3.5  |      |      |      |     |      |      |      |
| 50              |                       |      |      |      |      |   |      |                       | 3.1  |      |      |      |     |      |      |      |

Table 2. (continued)

| Depth<br>(feet) | April 28*<br>(542') |      |     |     |     |     |     | May 11*<br>(545') |      |     |      |      |     |     |
|-----------------|---------------------|------|-----|-----|-----|-----|-----|-------------------|------|-----|------|------|-----|-----|
|                 | A                   | B    | C   | D   | E   | F   | T   | A                 | B    | C   | D    | E    | F   | T   |
| 0               | 9.3                 | 14.2 | 9.0 | 8.7 | 9.2 | 9.4 | 9.9 | 9.4               | 12.8 | 8.8 | 10.0 | 10.0 | 8.8 | 9.6 |
| 5               | 9.4                 | 14.3 | 9.0 | 8.8 | 9.3 | 9.4 |     | 9.5               | 12.6 | 8.0 | 9.8  | 10.0 | 8.8 |     |
| 10              | 9.5                 | 13.7 | 8.5 | 7.8 | 9.3 | 9.0 |     | 9.5               | 11.1 | 7.1 | 7.6  | 10.1 | 7.5 |     |
| 15              | 9.6                 | 11.6 |     |     | 9.0 | 9.0 |     | 9.5               | 7.1  |     | 7.5  | 10.1 | 6.9 |     |
| 20              | 10.6                | 11.1 |     |     | 7.8 | 8.7 |     | 9.5               | 6.9  |     | 7.5  | 9.1  | 6.8 |     |
| 25              | 10.8                | 10.7 |     |     | 7.5 |     |     | 9.2               | 6.7  |     |      | 7.2  | 6.7 |     |
| 30              | 11.0                | 10.7 |     |     | 7.2 |     |     | 9.0               | 6.7  |     |      | 4.7  |     |     |
| 35              | 10.6                |      |     |     |     |     |     | 9.0               |      |     |      | 4.4  |     |     |
| 40              | 10.4                |      |     |     |     |     |     | 8.6               |      |     |      | 4.2  |     |     |
| 45              | 9.4                 |      |     |     |     |     |     | 8.0               |      |     |      |      |     |     |
| 50              | 7.7                 |      |     |     |     |     |     | 7.4               |      |     |      |      |     |     |
| 55              | 6.6                 |      |     |     |     |     |     | 6.2               |      |     |      |      |     |     |
| 60              | 0.2                 |      |     |     |     |     |     | 4.1               |      |     |      |      |     |     |
| 65              | 0.2                 |      |     |     |     |     |     | 2.0               |      |     |      |      |     |     |

\*KDFWR

\*KDFWR



Table 2. (continued)

| Depth<br>(feet) | May 17-19<br>(547') |      |      |      |     |     |      |      | May 25*<br>(548') |      |     |     |     |     |     |
|-----------------|---------------------|------|------|------|-----|-----|------|------|-------------------|------|-----|-----|-----|-----|-----|
|                 | 1                   | 2    | 3    | 4    | 5   | 6   | 7    | T    | A                 | B    | C   | D   | E   | F   | T   |
| 0               | 10.8                | 10.4 | 10.3 | 10.8 | 8.9 | 8.3 | 10.3 | 10.2 | 8.5               | 10.3 | 8.2 | 8.3 | 8.6 | 9.1 | 8.0 |
| 5               |                     |      |      |      |     |     |      |      | 8.6               | 10.1 | 8.2 | 8.5 | 8.7 | 9.1 |     |
| 10              |                     |      |      |      |     |     |      |      | 8.6               | 10.0 | 8.1 | 8.3 | 8.5 | 9.1 |     |
| 15              |                     |      |      |      | 8.8 |     |      |      | 8.2               | 10.2 | 7.8 | 7.0 | 8.4 | 8.8 |     |
| 20              | 10.6                | 10.6 | 10.6 | 8.3  |     |     | 6.5  |      | 7.9               | 9.6  |     | 4.8 | 7.7 | 8.7 |     |
| 25              |                     |      |      |      |     |     |      |      | 7.7               | 8.3  |     |     | 6.0 | 5.6 |     |
| 30              |                     |      |      |      |     |     |      |      | 6.9               | 7.8  |     |     | 5.2 |     |     |
| 35              | 10.2                |      | 5.5  | 8.0  |     |     |      |      | 6.7               |      |     |     | 5.0 |     |     |
| 40              |                     | 5.2  |      |      |     |     | 5.0  |      | 7.8               |      |     |     | 5.0 |     |     |
| 45              |                     |      |      |      |     |     |      |      | 7.1               |      |     |     |     |     |     |
| 50              | 9.6                 |      |      |      |     |     |      |      | 6.2               |      |     |     |     |     |     |
| 55              |                     |      |      |      |     |     |      |      | 4.7               |      |     |     |     |     |     |
| 60              |                     |      |      |      |     |     |      |      | 3.6               |      |     |     |     |     |     |
| 65              | 6.6                 |      |      |      |     |     |      |      | 2.2               |      |     |     |     |     |     |
| 70              |                     |      |      |      |     |     |      |      | 2.0               |      |     |     |     |     |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | June 10*<br>(549') |      |     |     |      |      |     | June 14-16<br>(549') |      |     |     |      |     |      |     |
|-----------------|--------------------|------|-----|-----|------|------|-----|----------------------|------|-----|-----|------|-----|------|-----|
|                 | A                  | B    | C   | D   | E    | F    | T   | 1                    | 2    | 3   | 4   | 5    | 6   | 7    | T   |
| 0               | 8.0                | 14.3 | 8.5 | 8.6 | 8.5  | 9.6  | 7.4 | 9.1                  | 8.9  | 8.9 | 9.6 | 10.6 | 6.4 | 8.9  | 8.4 |
| 5               | 8.1                | 8.8  | 8.1 | 9.5 | 9.1  | 14.8 |     | 9.1                  | 8.9  | 8.9 | 9.7 | 10.5 |     | 9.1  |     |
| 10              | 8.1                | 2.7  | 2.6 | 9.1 | 15.1 | 15.1 |     | 9.1                  | 8.9  | 9.0 | 9.9 | 7.8  |     | 11.0 |     |
| 15              | 9.6                | 0.3  | 0.5 | 3.8 | 9.1  | 6.9  |     | 11.0                 | 10.8 | 9.4 | 7.6 | 4.1  |     | 7.5  |     |
| 20              | 8.1                | 0.5  |     | 2.1 | 6.9  | 4.0  |     | 8.9                  | 9.1  | 7.9 | 3.0 | 3.2  |     | 5.3  |     |
| 25              | 6.6                |      |     |     | 2.9  | 3.1  |     | 6.4                  | 5.5  | 5.0 | 1.4 |      |     | 1.9  |     |
| 30              | 4.9                |      |     |     | 0.3  |      |     | 4.5                  | 3.3  | 1.0 | 0.8 |      |     | 0.7  |     |
| 35              | 4.5                |      |     |     | 0.3  |      |     | 4.4                  | 3.1  | 0.9 | 0.8 |      |     | 0.5  |     |
| 40              | 4.5                |      |     |     | 0.3  |      |     | 4.4                  | 0.8  | 0.9 | 0.8 |      |     | 0.5  |     |
| 45              | 5.1                |      |     |     |      |      |     | 4.4                  |      |     |     |      |     |      |     |
| 50              | 4.8                |      |     |     |      |      |     | 4.4                  |      |     |     |      |     |      |     |
| 55              | 4.0                |      |     |     |      |      |     | 3.6                  |      |     |     |      |     |      |     |
| 60              | 3.0                |      |     |     |      |      |     | 3.4                  |      |     |     |      |     |      |     |
| 65              | 1.4                |      |     |     |      |      |     | 2.3                  |      |     |     |      |     |      |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | June 24*<br>(550') |      |      |     |     |      |     | July 7*<br>(551') |     |     |     |     |      |     |
|-----------------|--------------------|------|------|-----|-----|------|-----|-------------------|-----|-----|-----|-----|------|-----|
|                 | A                  | B    | C    | D   | E   | F    | T   | A                 | B   | C   | D   | E   | F    | T   |
| 0               | 8.0                | 10.2 | 9.6  | 9.0 | 8.9 | 9.7  | 8.0 | 8.0               | 9.4 | 8.0 | 9.0 | 8.7 | 9.5  | 7.9 |
| 5               | 8.2                | 11.0 | 10.1 | 9.7 | 9.3 | 11.5 |     | 7.9               | 9.5 | 8.2 | 9.5 | 9.0 | 10.2 |     |
| 10              | 8.4                | 2.8  | 7.3  | 9.5 | 9.8 | 10.4 |     | 8.0               | 9.1 | 5.8 | 8.4 | 9.1 | 7.1  |     |
| 15              | 9.2                | 0.3  | 5.3  | 1.7 | 8.4 | 4.3  |     | 8.6               | 6.6 | 3.7 | 4.2 | 7.6 | 1.6  |     |
| 20              | 9.2                | 0.3  | 4.5  | 0.4 | 4.6 | 3.3  |     | 11.8              | 0.3 | 3.7 | 2.6 | 1.9 | 0.6  |     |
| 25              | 6.9                |      |      |     | 0.8 | 0.4  |     | 7.8               | 0.4 |     |     | 0.3 | 0.5  |     |
| 30              | 4.2                |      |      |     | 0.3 | 0.5  |     | 4.9               |     |     |     | 0.3 | 0.5  |     |
| 35              | 3.6                |      |      |     | 0.3 |      |     | 3.2               |     |     |     | 0.4 |      |     |
| 40              | 3.5                |      |      |     | 0.3 |      |     | 2.4               |     |     |     | 0.4 |      |     |
| 45              | 3.5                |      |      |     |     |      |     | 2.6               |     |     |     |     |      |     |
| 50              | 3.0                |      |      |     |     |      |     | 2.5               |     |     |     |     |      |     |
| 55              | 2.4                |      |      |     |     |      |     | 1.1               |     |     |     |     |      |     |
| 60              | 1.8                |      |      |     |     |      |     | 0.5               |     |     |     |     |      |     |
| 65              | 0.6                |      |      |     |     |      |     | 0.4               |     |     |     |     |      |     |
| 70              | 0.5                |      |      |     |     |      |     | 0.5               |     |     |     |     |      |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | July 12-14<br>(552') |     |     |      |      |     |      |     | July 20-21*<br>(553') |     |     |     |     |     |     |
|-----------------|----------------------|-----|-----|------|------|-----|------|-----|-----------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                    | 2   | 3   | 4    | 5    | 6   | 7    | T   | A                     | B   | C   | D   | E   | F   | T   |
| 0               | 8.9                  | 8.5 | 8.9 | 10.0 | 10.3 | 6.9 | 10.2 | 8.3 | 7.7                   | 8.4 | 8.4 | 8.3 | 7.9 | 8.2 | 7.4 |
| 5               | 8.9                  | 8.6 | 8.9 | 9.8  | 10.2 |     | 10.2 |     | 7.7                   | 7.8 | 6.9 | 8.4 | 8.0 | 8.5 |     |
| 10              | 8.8                  | 8.7 | 8.9 | 9.2  | 7.5  |     | 10.1 |     | 7.7                   | 6.9 | 6.6 | 8.0 | 8.0 | 8.1 |     |
| 15              | 9.0                  | 8.6 | 8.6 | 2.2  | 3.5  |     | 4.5  |     | 7.6                   | 4.8 | 7.0 | 7.3 | 7.3 | 5.3 |     |
| 20              | 11.8                 | 6.9 | 2.1 | 0.4  |      |     | 0.6  |     | 7.2                   | 4.5 | 7.4 | 5.6 | 1.8 | 3.5 |     |
| 25              | 8.7                  | 5.1 | 0.5 | 0.4  |      |     | 0.5  |     | 4.0                   | 6.4 |     |     | 0.3 | 2.5 |     |
| 30              | 4.8                  | 4.8 | 0.5 | 0.4  |      |     | 0.4  |     | 4.0                   |     |     |     | 0.3 | 2.6 |     |
| 35              | 3.4                  | 2.1 | 0.4 | 0.4  |      |     | 0.4  |     | 1.9                   |     |     |     | 0.4 |     |     |
| 40              | 2.7                  | 0.9 | 0.4 | 0.3  |      |     | 0.4  |     | 1.6                   |     |     |     | 0.4 |     |     |
| 45              | 2.4                  | 0.6 |     |      |      |     | 0.4  |     | 1.3                   |     |     |     |     |     |     |
| 50              | 1.4                  |     |     |      |      |     | 0.4  |     | 0.8                   |     |     |     |     |     |     |
| 55              | 0.6                  |     |     |      |      |     |      |     | 0.3                   |     |     |     |     |     |     |
| 60              | 0.4                  |     |     |      |      |     |      |     | 0.4                   |     |     |     |     |     |     |
| 65              | 0.4                  |     |     |      |      |     |      |     | 0.4                   |     |     |     |     |     |     |
| 70              |                      |     |     |      |      |     |      |     | 0.4                   |     |     |     |     |     |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | July 26-28<br>(553') |     |     |     |     |     |     |     | August 2-7*<br>(558') |      |     |     |     |     |   |
|-----------------|----------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|------|-----|-----|-----|-----|---|
|                 | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                     | B    | C   | D   | E   | F   | T |
| 0               | 8.6                  | 8.9 | 8.9 | 8.5 | 6.6 | 8.5 | 9.0 | 8.3 | 8.1                   | 10.6 | 9.5 | 9.3 | 9.6 | 7.1 |   |
| 5               | 8.6                  | 8.8 | 8.9 | 8.6 | 6.5 |     | 9.0 |     | 8.1                   | 9.5  | 9.4 | 9.6 | 9.5 | 6.3 |   |
| 10              | 8.6                  | 8.8 | 8.9 | 8.6 | 6.4 |     | 8.7 |     | 8.2                   | 8.4  | 7.9 | 8.0 | 7.7 | 6.4 |   |
| 15              | 8.5                  | 8.6 | 8.9 | 8.2 | 6.4 |     | 8.2 |     | 8.2                   | 7.6  | 7.7 | 6.6 | 6.2 | 6.4 |   |
| 20              | 5.8                  | 5.9 | 6.5 | 5.9 | 6.4 |     | 2.1 |     | 8.2                   | 7.2  | 7.6 | 7.3 | 6.2 | 6.4 |   |
| 25              | 6.1                  | 0.4 | 0.8 | 0.4 |     |     | 0.7 |     | 3.9                   | 7.0  | 7.6 | 7.4 | 6.2 | 6.4 |   |
| 30              | 3.9                  | 1.1 | 0.6 | 0.4 |     |     | 0.4 |     | 1.5                   | 7.0  | 7.5 | 7.4 | 6.2 | 6.4 |   |
| 35              | 1.7                  | 0.7 | 0.5 | 0.4 |     |     | 0.3 |     | 1.0                   | 7.1  |     |     | 6.2 |     |   |
| 40              | 1.2                  | 0.4 | 0.4 | 0.4 |     |     | 0.3 |     | 0.5                   | 7.2  |     |     | 6.2 |     |   |
| 45              | 0.8                  | 0.2 | 0.4 |     |     |     | 0.3 |     | 0.3                   |      |     |     | 6.0 |     |   |
| 50              | 0.6                  |     |     |     |     |     | 0.3 |     | 0.4                   |      |     |     | 5.3 |     |   |
| 55              | 0.5                  |     |     |     |     |     |     |     | 0.4                   |      |     |     |     |     |   |
| 60              | 0.5                  |     |     |     |     |     |     |     | 0.4                   |      |     |     |     |     |   |
| 65              | 0.4                  |     |     |     |     |     |     |     | 0.4                   |      |     |     |     |     |   |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | August 9-11<br>(557') |      |      |      |      |   |      |     | August 20*<br>(553') |      |     |     |      |      |     |
|-----------------|-----------------------|------|------|------|------|---|------|-----|----------------------|------|-----|-----|------|------|-----|
|                 | 1                     | 2    | 3    | 4    | 5    | 6 | 7    | T   | A                    | B    | C   | D   | E    | F    | T   |
| 0               | 8.9                   | 9.6  | 10.0 | 11.2 | 9.3  |   | 11.6 | 8.5 | 9.9                  | 9.9  | 9.3 | 9.5 | 10.8 | 10.4 | 8.0 |
| 5               | 9.1                   | 10.0 | 10.0 | 11.4 | 10.4 |   | 11.8 |     | 10.4                 | 10.0 | 9.2 | 9.8 | 11.5 | 10.3 |     |
| 10              | 10.6                  | 12.4 | 10.0 | 7.1  | 6.6  |   | 10.0 |     | 10.5                 | 7.8  | 4.7 | 8.5 | 10.0 | 10.2 |     |
| 15              | 5.2                   | 4.0  | 5.5  | 5.4  | 6.0  |   | 4.3  |     | 4.8                  | 3.0  | 5.3 | 2.5 | 6.5  | 5.0  |     |
| 20              | 1.3                   | 1.9  | 2.4  | 3.6  | 5.4  |   | 2.0  |     | 0.9                  | 2.0  | 4.7 | 3.6 | 1.5  | 3.7  |     |
| 25              | 0.3                   | 2.1  | 3.5  | 4.0  | 5.0  |   | 4.1  |     | 0.6                  | 2.3  |     | 3.3 | 0.5  | 3.1  |     |
| 30              | 0.2                   | 2.8  | 3.0  | 3.9  |      |   | 4.6  |     | 0.9                  | 2.5  |     |     | 0.3  | 2.6  |     |
| 35              | 0.3                   | 2.7  | 2.7  | 3.7  |      |   | 4.5  |     | 1.0                  |      |     |     | 0.3  |      |     |
| 40              | 0.2                   | 0.2  | 2.9  | 3.3  |      |   | 4.4  |     | 1.2                  |      |     |     | 0.4  |      |     |
| 45              | 0.2                   | 0.2  | 1.0  | 2.3  |      |   | 4.3  |     | 0.3                  |      |     |     | 0.4  |      |     |
| 50              | 0.2                   | 0.2  |      |      |      |   | 3.9  |     | 0.3                  |      |     |     |      |      |     |
| 55              | 0.2                   |      |      |      |      |   | 3.1  |     | 0.4                  |      |     |     |      |      |     |
| 60              | 0.2                   |      |      |      |      |   |      |     | 0.4                  |      |     |     |      |      |     |
| 65              | 0.2                   |      |      |      |      |   |      |     | 0.5                  |      |     |     |      |      |     |
| 70              | 0.2                   |      |      |      |      |   |      |     |                      |      |     |     |      |      |     |

\*KDFWR



Table 2. (continued)

| Depth<br>(feet) | August 23-26<br>(552') |      |      |      |     |     |      |     | August 31-September 2*<br>(552') |      |     |     |     |     |     |
|-----------------|------------------------|------|------|------|-----|-----|------|-----|----------------------------------|------|-----|-----|-----|-----|-----|
|                 | 1                      | 2    | 3    | 4    | 5   | 6   | 7    | T   | A                                | B    | C   | D   | E   | F   | T   |
| 0               | 9.8                    | 10.0 | 10.8 | 10.0 | 9.0 | 7.4 | 10.2 | 7.8 | 9.0                              | 10.2 | 9.7 | 8.1 | 8.8 | 7.8 | 7.2 |
| 5               | 9.8                    | 10.0 | 11.0 | 10.0 | 8.5 |     | 10.2 |     | 9.1                              | 10.0 | 9.6 | 8.2 | 8.8 | 7.7 |     |
| 10              | 9.8                    | 10.4 | 10.3 | 9.3  | 6.0 |     | 9.4  |     | 9.0                              | 7.6  | 3.3 | 5.9 | 8.8 | 3.9 |     |
| 15              | 9.8                    | 9.3  | 3.3  | 1.6  | 5.1 |     | 2.3  |     | 7.9                              | 3.2  | 6.5 | 1.3 | 4.5 | 4.2 |     |
| 20              | 0.6                    | 0.4  | 0.3  | 0.5  | 4.5 |     | 0.3  |     | 4.8                              | 1.3  | 4.6 | 3.4 | 0.2 | 3.2 |     |
| 25              | 0.5                    | 0.3  | 0.2  | 0.4  | 4.3 |     | 0.2  |     | 0.2                              | 1.4  |     | 1.7 | 0.2 | 3.2 |     |
| 30              | 0.5                    | 0.3  | 0.2  | 0.4  |     |     | 0.2  |     | 0.2                              | 1.4  |     |     | 0.2 |     |     |
| 35              | 0.6                    | 0.4  | 0.2  | 0.4  |     |     | 0.2  |     | 0.2                              |      |     |     | 0.2 |     |     |
| 40              | 0.4                    | 0.2  | 0.1  | 0.4  |     |     | 0.1  |     | 0.3                              |      |     |     | 0.3 |     |     |
| 45              | 0.3                    | 0.2  | 0.1  |      |     |     | 0.1  |     | 0.3                              |      |     |     | 0.3 |     |     |
| 50              | 0.3                    | 0.2  | 0.1  |      |     |     | 0.1  |     | 0.3                              |      |     |     |     |     |     |
| 55              | 0.3                    |      |      |      |     |     |      |     | 0.3                              |      |     |     |     |     |     |
| 60              | 0.3                    |      |      |      |     |     |      |     | 0.3                              |      |     |     |     |     |     |
| 65              | 0.3                    |      |      |      |     |     |      |     | 0.4                              |      |     |     |     |     |     |
| 70              |                        |      |      |      |     |     |      |     | 0.4                              |      |     |     |     |     |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | September 9-10<br>(552') |     |      |     |      |     |      |     | September 22*<br>(552') |     |     |     |     |   |   |
|-----------------|--------------------------|-----|------|-----|------|-----|------|-----|-------------------------|-----|-----|-----|-----|---|---|
|                 | 1                        | 2   | 3    | 4   | 5    | 6   | 7    | T   | A                       | B   | C   | D   | E   | F | T |
| 0               | 8.8                      | 9.1 | 10.0 | 9.5 | 11.2 | 7.8 | 10.2 | 8.0 | 6.5                     | 7.3 | 8.2 | 7.5 |     |   |   |
| 5               | 9.3                      | 9.4 | 10.4 | 9.8 | 8.2  |     | 10.4 |     | 6.5                     | 6.8 | 7.9 | 7.7 | 5.4 |   |   |
| 10              | 9.3                      | 9.4 | 8.2  | 7.4 | 6.1  |     | 9.8  |     | 6.2                     | 6.6 | 7.6 | 7.2 | 5.4 |   |   |
| 15              | 8.3                      | 8.6 | 4.2  | 4.6 | 5.7  |     | 1.0  |     | 6.2                     | 6.5 | 4.2 | 6.7 | 5.2 |   |   |
| 20              | 1.2                      | 0.9 | 0.3  | 2.6 | 5.0  |     | 0.4  |     | 6.2                     | 2.5 | 2.8 | 5.3 | 5.1 |   |   |
| 25              | 0.2                      | 0.2 | 0.3  | 2.4 | 4.9  |     | 0.3  |     | 5.9                     | 0.5 |     |     | 5.0 |   |   |
| 30              | 0.2                      | 0.2 | 0.2  | 0.4 |      |     | 0.3  |     | 0.3                     | 0.4 |     |     | 0.3 |   |   |
| 35              | 0.2                      | 0.2 | 0.2  | 0.6 |      |     | 0.2  |     | 0.3                     |     |     |     | 0.4 |   |   |
| 40              | 0.2                      | 0.2 | 0.2  | 0.5 |      |     | 0.2  |     | 0.3                     |     |     |     | 0.5 |   |   |
| 45              | 0.2                      | 0.2 | 0.2  |     |      |     | 0.2  |     | 0.3                     |     |     |     |     |   |   |
| 50              | 0.2                      | 0.2 |      |     |      |     | 0.2  |     | 0.4                     |     |     |     |     |   |   |
| 55              | 0.2                      |     |      |     |      |     |      |     | 0.4                     |     |     |     |     |   |   |
| 60              | 0.2                      |     |      |     |      |     |      |     | 0.5                     |     |     |     |     |   |   |
| 65              | 0.4                      |     |      |     |      |     |      |     |                         |     |     |     |     |   |   |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | September 20-22<br>(552') |     |     |     |     |     |     |     | October 15*<br>(550') |      |     |     |     |     |     |
|-----------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|------|-----|-----|-----|-----|-----|
|                 | 1                         | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                     | B    | C   | D   | E   | F   | T   |
| 0               | 7.1                       | 6.9 | 6.1 | 7.0 | 8.4 | 7.3 | 6.1 | 8.3 | 5.9                   | 10.0 | 9.4 | 9.0 | 8.1 | 9.8 | 7.0 |
| 5               | 7.0                       | 6.9 | 6.1 | 6.8 | 8.1 |     | 6.1 |     | 6.2                   | 9.5  | 9.4 | 9.3 | 8.1 | 9.3 |     |
| 10              | 6.7                       | 6.9 | 6.1 | 6.7 | 7.6 |     | 6.1 |     | 5.4                   | 8.7  | 8.8 | 8.7 | 7.2 | 7.8 |     |
| 15              | 6.2                       | 6.8 | 6.1 | 6.4 | 7.0 |     | 6.0 |     | 4.9                   | 8.0  | 7.5 | 7.7 | 6.4 | 6.4 |     |
| 20              | 6.5                       | 6.7 | 6.1 | 6.3 | 6.8 |     | 6.0 |     | 4.4                   | 4.3  | 6.3 | 6.3 | 5.7 | 5.5 |     |
| 25              | 6.0                       | 6.6 | 5.3 | 5.3 | 6.4 |     | 5.8 |     | 4.2                   | 6.3  |     |     | 4.9 |     |     |
| 30              | 0.3                       | 0.4 | 0.3 | 0.9 |     |     | 0.6 |     | 4.2                   |      |     |     | 4.4 |     |     |
| 35              | 0.1                       | 0.3 | 0.2 | 0.5 |     |     | 0.5 |     | 4.2                   |      |     |     | 3.9 |     |     |
| 40              | 0.1                       | 0.2 |     | 0.4 |     |     | 0.4 |     | 3.4                   |      |     |     | 4.8 |     |     |
| 45              | 0.1                       | 0.2 |     |     |     |     | 0.3 |     | 2.7                   |      |     |     |     |     |     |
| 50              | 0.1                       |     |     |     |     |     |     |     | 0.0                   |      |     |     |     |     |     |
| 55              | 0.1                       |     |     |     |     |     |     |     | 0.0                   |      |     |     |     |     |     |
| 60              | 0.1                       |     |     |     |     |     |     |     | 0.0                   |      |     |     |     |     |     |
| 65              |                           |     |     |     |     |     |     |     | 0.0                   |      |     |     |     |     |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | October 14-15<br>(550') |     |     |     |     |     |     |     | October 28*<br>(544') |     |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                     | B   | C   | D   | E   | F   | T   |
| 0               | 6.2                     | 5.6 | 6.8 | 8.7 | 9.6 | 9.8 | 5.1 | 7.2 | 5.7                   | 7.8 | 9.4 | 8.0 | 8.3 | 9.0 | 8.0 |
| 5               | 6.2                     | 5.5 | 6.7 | 8.6 | 8.5 |     | 5.0 |     | 5.7                   | 6.9 | 7.3 | 6.9 | 8.0 | 7.2 |     |
| 10              | 5.6                     | 5.5 | 6.7 | 8.5 | 8.2 |     | 4.8 |     | 5.5                   | 6.6 | 5.8 | 6.8 | 7.2 | 6.5 |     |
| 15              | 5.1                     | 5.1 | 6.6 | 8.0 | 8.0 |     | 4.6 |     | 5.5                   | 6.6 | 5.2 | 5.2 | 7.0 | 7.0 |     |
| 20              | 4.4                     | 4.8 | 5.3 | 7.9 | 7.5 |     | 4.6 |     | 5.3                   | 6.3 |     |     | 6.8 | 6.2 |     |
| 25              | 4.4                     | 4.6 | 5.1 | 6.3 |     |     | 4.4 |     | 5.3                   | 6.1 |     |     | 2.6 |     |     |
| 30              | 4.3                     | 4.5 | 5.3 | 1.8 |     |     | 4.2 |     | 5.3                   |     |     |     | 0.9 |     |     |
| 35              | 4.3                     | 4.6 | 4.4 | 0.3 |     |     | 3.7 |     | 5.1                   |     |     |     | 0.9 |     |     |
| 40              | 3.6                     | 4.2 |     |     |     |     | 3.2 |     | 0.0                   |     |     |     |     |     |     |
| 45              | 2.8                     | 3.6 |     |     |     |     | 2.8 |     | 0.0                   |     |     |     |     |     |     |
| 50              | 0.3                     |     |     |     |     |     |     |     | 0.0                   |     |     |     |     |     |     |
| 55              | 0.2                     |     |     |     |     |     |     |     | 0.0                   |     |     |     |     |     |     |
| 60              | 0.2                     |     |     |     |     |     |     |     |                       |     |     |     |     |     |     |

\*KDFWR

Table 2. (continued)

| Depth<br>(feet) | November 8-9<br>(540') |     |     |     |      |      |     |      | December 1-2*<br>(525') |   |   |   |      |   |      |
|-----------------|------------------------|-----|-----|-----|------|------|-----|------|-------------------------|---|---|---|------|---|------|
|                 | 1                      | 2   | 3   | 4   | 5    | 6    | 7   | T    | A                       | B | C | D | E    | F | T    |
| 0               | 6.9                    | 7.7 | 8.8 | 9.7 | 10.7 | 10.8 | 8.2 | 10.4 | 9.8                     |   |   |   | 10.0 |   | 13.0 |
| 5               |                        |     |     |     |      |      |     |      | 9.8                     |   |   |   | 10.0 |   |      |
| 10              | 6.8                    | 7.6 | 8.5 | 9.7 |      |      | 8.0 |      | 9.8                     |   |   |   | 10.0 |   |      |
| 15              |                        |     |     |     |      |      |     |      | 9.8                     |   |   |   | 10.0 |   |      |
| 20              | 6.7                    | 7.5 | 8.4 | 9.5 |      |      | 7.8 |      | 9.8                     |   |   |   |      |   |      |
| 25              |                        |     |     | 9.5 |      |      |     |      | 9.8                     |   |   |   |      |   |      |
| 30              | 6.6                    | 7.4 | 8.3 |     |      |      | 7.7 |      | 9.8                     |   |   |   |      |   |      |
| 35              |                        |     |     |     |      |      | 6.4 |      | 9.8                     |   |   |   |      |   |      |
| 40              | 6.4                    |     |     |     |      |      |     |      | 9.8                     |   |   |   |      |   |      |
| 45              |                        |     |     |     |      |      |     |      |                         |   |   |   |      |   |      |
| 50              | 6.3                    |     |     |     |      |      |     |      |                         |   |   |   |      |   |      |
| 55              | 0.5                    |     |     |     |      |      |     |      |                         |   |   |   |      |   |      |

\*KDFWR

Table 2. (continued)

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| Depth<br>(feet) | December 16-17<br>(525') |     |     |     |     |   |     |      |
|-----------------|--------------------------|-----|-----|-----|-----|---|-----|------|
|                 | 1                        | 2   | 3   | 4   | 5   | 6 | 7   | T    |
| 0               | 10.3                     | 9.5 | 9.7 | 9.6 | 9.7 |   | 9.4 | 11.1 |
| 5               |                          |     |     |     |     |   |     |      |
| 10              | 10.3                     | 9.5 | 9.7 | 9.6 |     |   | 9.3 |      |
| 15              |                          |     | 9.5 |     |     |   |     |      |
| 20              | 10.3                     | 9.5 |     |     |     |   | 9.3 |      |
| 25              |                          |     |     |     |     |   |     |      |
| 30              | 10.3                     |     |     |     |     |   |     |      |
| 35              |                          |     |     |     |     |   |     |      |
| 40              | 10.3                     |     |     |     |     |   |     |      |

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Table 3. Total alkalinity content at Barren River Reservoir and its tailwater, 1971. Determinations were conducted biweekly from May through October (monthly in January, February, April, and December). Normal summer-winter pool elevations were 552-525 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 21-22*<br>(533') |   |   |   |    |   |    | February 25-26*<br>(535') |   |   |   |   |    |   | April 28*<br>(542') |    |     |     |     |    |    |    |
|-----------------|--------------------------|---|---|---|----|---|----|---------------------------|---|---|---|---|----|---|---------------------|----|-----|-----|-----|----|----|----|
|                 | A                        | B | C | D | E  | F | T  | A                         | B | C | D | E | F  | T | A                   | B  | C   | D   | E   | F  | T  |    |
| 0               | 75                       |   |   |   | 71 |   | 75 | 74                        |   |   |   |   | 59 |   | 78                  | 81 | 110 | 126 | 101 | 76 | 82 | 77 |
| 5               |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     |    |     |     |     |    |    |    |
| 10              | 76                       |   |   |   | 69 |   |    | 73                        |   |   |   |   | 59 |   |                     | 79 | 109 | 128 | 104 | 74 | 82 |    |
| 15              |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     |    |     |     |     |    |    |    |
| 20              | 74                       |   |   |   | 71 |   |    | 74                        |   |   |   |   | 59 |   |                     | 81 | 127 |     |     | 75 | 82 |    |
| 25              |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     |    |     |     |     |    |    |    |
| 30              | 74                       |   |   |   |    |   |    | 74                        |   |   |   |   | 59 |   |                     | 82 | 132 |     |     | 78 |    |    |
| 35              |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     |    |     |     |     |    |    |    |
| 40              | 75                       |   |   |   |    |   |    | 73                        |   |   |   |   |    |   |                     | 81 |     |     |     |    |    |    |
| 45              |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     |    |     |     |     |    |    |    |
| 50              | 74                       |   |   |   |    |   |    | 74                        |   |   |   |   |    |   |                     | 81 |     |     |     |    |    |    |
| 55              |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     |    |     |     |     |    |    |    |
| 60              |                          |   |   |   |    |   |    |                           |   |   |   |   |    |   |                     | 82 |     |     |     |    |    |    |

\*KDFWR

Table 3. (continued)

| Depth<br>(feet) | May 11*<br>(545') |     |     |     |    |    |    | May 25*<br>(548') |     |     |     |    |    |    | June 10*<br>(549') |     |     |    |    |    |    |
|-----------------|-------------------|-----|-----|-----|----|----|----|-------------------|-----|-----|-----|----|----|----|--------------------|-----|-----|----|----|----|----|
|                 | A                 | B   | C   | D   | E  | F  | T  | A                 | B   | C   | D   | E  | F  | T  | A                  | B   | C   | D  | E  | F  | T  |
| 0               | 83                | 107 | 128 | 103 | 82 | 70 | 86 | 83                | 102 | 123 | 100 | 78 | 81 | 84 | 83                 | 84  | 112 | 93 | 81 | 84 | 87 |
| 5               |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 10              | 81                | 108 | 129 | 99  | 81 | 69 |    | 83                | 103 | 127 | 98  | 80 | 81 |    | 83                 | 94  | 131 | 99 | 81 | 85 |    |
| 15              |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 20              | 82                | 120 |     | 115 | 81 | 65 |    | 85                | 100 |     | 101 | 79 | 81 |    | 83                 | 132 |     | 98 | 77 | 92 |    |
| 25              |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 30              | 82                | 121 |     |     | 80 |    |    | 85                | 108 |     |     | 80 |    | 83 |                    |     |     |    | 82 | 92 |    |
| 35              |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 40              | 84                |     |     |     | 84 |    |    | 84                |     |     |     | 80 |    | 85 |                    |     |     |    | 85 |    |    |
| 45              |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 50              | 82                |     |     |     |    |    |    | 82                |     |     |     |    |    | 84 |                    |     |     |    |    |    |    |
| 55              |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 60              | 83                |     |     |     |    |    |    | 82                |     |     |     |    |    | 84 |                    |     |     |    |    |    |    |
| 65              |                   |     |     |     |    |    |    |                   |     |     |     |    |    |    |                    |     |     |    |    |    |    |
| 70              |                   |     |     |     |    |    |    | 86                |     |     |     |    |    |    |                    |     |     |    |    |    |    |

\*KDFWR

Table 3. (continued)

| Depth<br>(feet) | June 24*<br>(550') |     |    |     |    |    |    | July 7*<br>(551') |     |    |    |    |     |    | July 20-21*<br>(553') |    |    |    |     |    |    |
|-----------------|--------------------|-----|----|-----|----|----|----|-------------------|-----|----|----|----|-----|----|-----------------------|----|----|----|-----|----|----|
|                 | A                  | B   | C  | D   | E  | F  | T  | A                 | B   | C  | D  | E  | F   | T  | A                     | B  | C  | D  | E   | F  | T  |
| 0               | 82                 | 80  | 90 | 86  | 80 | 79 | 84 | 82                | 81  | 87 | 80 | 78 | 82  | 82 | 83                    | 81 | 80 | 81 | 80  | 87 | 85 |
| 5               |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 10              | 82                 | 80  | 92 | 86  | 80 | 78 |    | 83                | 82  | 85 | 80 | 79 | 80  |    | 77                    | 80 | 74 | 81 | 78  | 85 |    |
| 15              |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 20              | 84                 | 124 | 76 | 102 | 83 | 81 |    | 80                | 133 | 63 | 99 | 83 | 91  |    | 82                    | 70 | 90 | 88 | 81  | 90 |    |
| 25              |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 30              | 84                 |     |    |     | 84 | 89 |    | 84                |     |    |    | 83 | 107 |    | 85                    |    |    |    | 99  | 85 |    |
| 35              |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 40              | 86                 |     |    |     | 95 |    |    | 89                |     |    |    | 98 |     |    | 91                    |    |    |    | 107 |    |    |
| 45              |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 50              | 84                 |     |    |     |    |    |    | 87                |     |    |    |    |     |    | 86                    |    |    |    |     |    |    |
| 55              |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 60              | 86                 |     |    |     |    |    |    | 84                |     |    |    |    |     |    | 89                    |    |    |    |     |    |    |
| 65              |                    |     |    |     |    |    |    |                   |     |    |    |    |     |    |                       |    |    |    |     |    |    |
| 70              | 86                 |     |    |     |    |    |    | 89                |     |    |    |    |     |    | 91                    |    |    |    |     |    |    |

\*KDFWR

Table 3. (continued)

| Depth<br>(feet) | August 2-7*<br>(558') |    |    |    |    |    |    | August 20*<br>(553') |     |     |    |    |    |    | August 31-September 2*<br>(552') |     |     |    |     |    |    |
|-----------------|-----------------------|----|----|----|----|----|----|----------------------|-----|-----|----|----|----|----|----------------------------------|-----|-----|----|-----|----|----|
|                 | A                     | B  | C  | D  | E  | F  | T  | A                    | B   | C   | D  | E  | F  | T  | A                                | B   | C   | D  | E   | F  | T  |
| 0               | 84                    | 79 | 82 | 81 | 85 | 45 | 94 | 77                   | 78  | 82  | 80 | 77 | 75 | 82 | 76                               | 79  | 82  | 81 | 78  | 82 | 77 |
| 5               |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 10              | 85                    | 79 | 83 | 82 | 71 | 46 |    | 76                   | 78  | 85  | 80 | 76 | 78 |    | 76                               | 81  | 84  | 81 | 80  | 81 |    |
| 15              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 20              | 84                    | 83 | 87 | 83 | 70 | 47 |    | 88                   | 104 | 125 | 98 | 82 | 81 |    | 78                               | 86  | 100 | 92 | 79  | 89 |    |
| 25              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 30              | 87                    | 86 | 89 | 86 | 62 | 46 |    | 84                   | 96  |     |    | 88 | 79 |    | 82                               | 140 |     |    | 95  | 91 |    |
| 35              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 40              | 90                    | 86 |    |    | 65 |    |    | 72                   |     |     |    | 88 |    |    | 71                               |     |     |    | 101 |    |    |
| 45              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 50              | 92                    |    |    |    | 61 |    |    | 71                   |     |     |    |    |    |    | 86                               |     |     |    |     |    |    |
| 55              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 60              | 99                    |    |    |    |    |    |    | 92                   |     |     |    |    |    |    | 103                              |     |     |    |     |    |    |
| 65              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    |                                  |     |     |    |     |    |    |
| 70              |                       |    |    |    |    |    |    |                      |     |     |    |    |    |    | 107                              |     |     |    |     |    |    |

\*KDFWR

Table 3. (continued)

| Depth<br>(feet) | September 22*<br>(552') |     |     |    |     |   |   | October 15*<br>(550') |     |    |    |    |     |     | October 28*<br>(544') |     |     |    |    |     |    |
|-----------------|-------------------------|-----|-----|----|-----|---|---|-----------------------|-----|----|----|----|-----|-----|-----------------------|-----|-----|----|----|-----|----|
|                 | A                       | B   | C   | D  | E   | F | T | A                     | B   | C  | D  | E  | F   | T   | A                     | B   | C   | D  | E  | F   | T  |
| 0               | 83                      | 86  | 86  | 86 | 85  |   |   | 85                    | 94  | 94 | 90 | 88 | 95  | 112 | 87                    | 102 | 117 | 95 | 88 | 94  | 88 |
| 5               |                         |     |     |    |     |   |   |                       |     |    |    |    |     |     |                       |     |     |    |    |     |    |
| 10              | 84                      | 87  | 86  | 88 | 84  |   |   | 85                    | 95  | 95 | 90 | 89 | 94  |     | 87                    | 105 | 127 | 96 | 88 | 106 |    |
| 15              |                         |     |     |    |     |   |   |                       |     |    |    |    |     |     |                       |     |     |    |    |     |    |
| 20              | 82                      | 87  | 118 | 93 | 84  |   |   | 86                    | 117 |    | 92 | 90 | 101 |     | 87                    | 106 |     |    | 88 | 104 |    |
| 25              |                         |     |     |    |     |   |   |                       |     |    |    |    |     |     |                       |     |     |    |    |     |    |
| 30              | 83                      | 102 |     |    | 84  |   |   | 86                    |     |    |    | 90 |     |     | 87                    |     |     |    | 86 |     |    |
| 35              |                         |     |     |    |     |   |   |                       |     |    |    |    |     |     |                       |     |     |    |    |     |    |
| 40              | 81                      |     |     |    | 107 |   |   | 86                    |     |    |    | 93 |     |     | 87                    |     |     |    |    |     |    |
| 45              |                         |     |     |    |     |   |   |                       |     |    |    |    |     |     |                       |     |     |    |    |     |    |
| 50              | 89                      |     |     |    |     |   |   | 85                    |     |    |    |    |     |     | 93                    |     |     |    |    |     |    |
| 55              |                         |     |     |    |     |   |   |                       |     |    |    |    |     |     |                       |     |     |    |    |     |    |
| 60              | 112                     |     |     |    |     |   |   | 99                    |     |    |    |    |     |     |                       |     |     |    |    |     |    |

\*KDFWR

Table 3. (continued)

| Depth<br>(feet) | December 1-2*<br>(525') |   |   |   |     |   |    |
|-----------------|-------------------------|---|---|---|-----|---|----|
|                 | A                       | B | C | D | E   | F | T  |
| 0               | 92                      |   |   |   | 110 |   | 93 |
| 5               |                         |   |   |   |     |   |    |
| 10              | 92                      |   |   |   | 110 |   |    |
| 15              |                         |   |   |   |     |   |    |
| 20              | 93                      |   |   |   |     |   |    |
| 25              |                         |   |   |   |     |   |    |
| 30              | 93                      |   |   |   |     |   |    |
| 35              |                         |   |   |   |     |   |    |
| 40              | 93                      |   |   |   |     |   |    |

\*KDFWR



Table 4. pH values at Barren River Reservoir and its tailwater, 1971. Determinations were made monthly from January through December (biweekly in June, August, and September). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 552-525 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 21-22*<br>(533') |   |   |   |     |   |     | January 21-22<br>(533') |     |     |     |     |   |     |     |
|-----------------|--------------------------|---|---|---|-----|---|-----|-------------------------|-----|-----|-----|-----|---|-----|-----|
|                 | A                        | B | C | D | E   | F | T   | 1                       | 2   | 3   | 4   | 5   | 6 | 7   | T   |
| 0               | 7.3                      |   |   |   | 7.1 |   | 7.1 | 7.2                     | 7.2 | 7.1 | 7.1 | 7.2 |   | 7.3 | 7.1 |
| 5               |                          |   |   |   |     |   |     |                         |     |     |     |     |   |     |     |
| 10              | 7.3                      |   |   |   | 7.0 |   |     | 7.1                     | 7.2 | 7.1 | 7.0 |     |   | 7.3 |     |
| 15              |                          |   |   |   |     |   |     |                         |     |     |     |     |   |     |     |
| 20              | 7.3                      |   |   |   | 7.1 |   |     | 7.2                     | 7.2 | 7.1 | 6.8 |     |   | 7.3 |     |
| 25              |                          |   |   |   |     |   |     |                         | 7.2 |     |     |     |   |     |     |
| 30              | 7.4                      |   |   |   |     |   |     | 7.2                     |     |     |     |     |   | 7.3 |     |
| 35              |                          |   |   |   |     |   |     |                         |     |     |     |     |   |     |     |
| 40              | 7.3                      |   |   |   |     |   |     | 7.3                     |     |     |     |     |   |     |     |
| 45              |                          |   |   |   |     |   |     | 7.3                     |     |     |     |     |   |     |     |
| 50              | 7.1                      |   |   |   |     |   |     |                         |     |     |     |     |   |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | February 18-19<br>(528') |     |     |     |     |   |     |     | February 25-26*<br>(535') |   |   |   |     |   |     |
|-----------------|--------------------------|-----|-----|-----|-----|---|-----|-----|---------------------------|---|---|---|-----|---|-----|
|                 | 1                        | 2   | 3   | 4   | 5   | 6 | 7   | T   | A                         | B | C | D | E   | F | T   |
| 0               | 6.8                      | 7.0 | 7.2 | 7.2 | 7.1 |   | 7.1 | 7.0 | 7.1                       |   |   |   | 7.2 |   | 7.0 |
| 5               |                          |     |     |     |     |   |     |     |                           |   |   |   |     |   |     |
| 10              | 6.9                      | 6.9 | 7.2 | 6.8 |     |   | 7.1 |     | 7.1                       |   |   |   | 7.1 |   |     |
| 15              |                          |     | 7.2 |     |     |   |     |     |                           |   |   |   |     |   |     |
| 20              | 7.2                      | 6.9 |     |     |     |   | 7.0 |     | 7.1                       |   |   |   | 7.1 |   |     |
| 25              |                          |     |     |     |     |   |     |     |                           |   |   |   |     |   |     |
| 30              | 7.2                      |     |     |     |     |   |     |     | 7.1                       |   |   |   | 7.0 |   |     |
| 35              |                          |     |     |     |     |   |     |     |                           |   |   |   |     |   |     |
| 40              | 7.1                      |     |     |     |     |   |     |     | 7.1                       |   |   |   |     |   |     |
| 45              |                          |     |     |     |     |   |     |     |                           |   |   |   |     |   |     |
| 50              |                          |     |     |     |     |   |     |     | 7.1                       |   |   |   |     |   |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | March 25-26<br>(531') |     |     |     |     |   |     |   | April 21-23<br>(542') |     |     |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|---|-----|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | 1                     | 2   | 3   | 4   | 5   | 6 | 7   | T | 1                     | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 7.7                   | 7.6 | 7.6 | 7.6 | 7.4 |   | 7.7 |   | 8.4                   | 8.5 | 8.4 | 7.8 | 7.4 | 7.4 | 8.5 | 8.2 |
| 5               |                       |     |     |     |     |   |     |   |                       |     |     |     | 7.4 |     |     |     |
| 10              | 7.7                   | 7.7 | 7.7 | 7.6 |     |   | 7.7 |   | 8.5                   | 8.6 | 8.5 | 8.1 | 7.5 |     | 8.6 |     |
| 15              |                       |     |     |     |     |   |     |   |                       |     |     |     |     |     |     |     |
| 20              | 7.8                   | 7.7 | 7.8 | 7.7 |     |   | 7.8 |   | 8.5                   | 8.3 | 7.8 | 7.5 |     |     | 7.7 |     |
| 25              |                       |     |     |     |     |   |     |   |                       |     | 7.6 |     |     |     |     |     |
| 30              | 7.8                   | 7.7 |     |     |     |   | 7.8 |   | 8.4                   | 8.4 |     | 7.2 |     |     | 7.6 |     |
| 35              |                       |     |     |     |     |   |     |   |                       | 8.5 |     |     |     |     |     |     |
| 40              | 7.8                   |     |     |     |     |   |     |   | 7.9                   |     |     |     |     |     |     |     |
| 45              | 7.9                   |     |     |     |     |   |     |   |                       |     |     |     |     |     |     |     |
| 50              |                       |     |     |     |     |   |     |   | 7.4                   |     |     |     |     |     |     |     |

Table 4. (continued)

| Depth<br>(feet) | April 28*<br>(542') |     |     |     |     |     |     | May 11*<br>(545') |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|-----|
|                 | A                   | B   | C   | D   | E   | F   | T   | A                 | B   | C   | D   | E   | F   | T   |
| 0               | 7.8                 | 8.5 | 7.5 | 7.5 | 7.6 | 7.6 | 7.4 | 8.0               | 8.4 | 7.6 | 8.0 | 8.0 | 7.2 | 7.3 |
| 5               |                     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 10              | 7.8                 | 8.5 | 7.4 | 7.5 | 7.6 | 7.4 |     | 7.9               | 8.4 | 7.6 | 7.3 | 7.9 | 7.0 |     |
| 15              |                     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 20              | 7.7                 | 8.3 |     |     | 7.2 | 7.3 |     | 8.0               | 7.2 |     | 7.1 | 7.5 | 6.9 |     |
| 25              |                     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 30              | 7.5                 | 8.1 |     |     | 7.1 |     |     | 7.8               | 7.5 |     |     | 7.2 |     |     |
| 35              |                     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 40              | 7.5                 |     |     |     |     |     |     | 7.1               |     |     |     | 6.8 |     |     |
| 45              |                     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 50              | 7.1                 |     |     |     |     |     |     | 7.1               |     |     |     |     |     |     |
| 55              |                     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 60              | 7.1                 |     |     |     |     |     |     | 7.0               |     |     |     |     |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | May 17-19<br>(547') |     |     |     |     |     |     |     | May 25*<br>(548') |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                   | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                 | B   | C   | D   | E   | F   | T   |
| 0               | 8.3                 | 8.3 | 8.0 | 8.2 | 7.2 | 7.4 | 8.4 | 7.8 | 7.4               | 8.3 | 7.7 | 7.4 | 7.6 | 7.7 | 7.4 |
| 5               | 8.4                 | 8.4 | 8.0 | 8.5 | 7.5 |     | 8.4 |     |                   |     |     |     |     |     |     |
| 10              | 8.6                 | 8.5 | 8.1 | 8.3 | 7.6 |     | 8.5 |     | 7.6               | 8.1 | 7.6 | 7.6 | 7.5 | 7.7 |     |
| 15              | 8.6                 | 8.5 | 8.1 | 7.9 | 7.5 |     | 8.2 |     |                   |     |     |     |     |     |     |
| 20              | 8.5                 | 8.5 | 8.2 | 7.7 | 7.5 |     | 7.8 |     | 7.5               | 8.2 |     | 7.2 | 7.5 | 7.7 |     |
| 25              | 8.4                 | 8.2 | 7.8 | 7.7 |     |     | 7.6 |     |                   |     |     |     |     |     |     |
| 30              | 8.0                 | 7.9 | 8.2 | 7.6 |     |     | 7.6 |     | 7.4               | 7.4 |     |     | 7.1 |     |     |
| 35              | 8.1                 | 7.6 | 7.6 | 7.6 |     |     | 7.6 |     |                   |     |     |     |     |     |     |
| 40              | 7.7                 | 7.6 |     |     |     |     | 7.6 |     | 7.2               |     |     |     | 7.0 |     |     |
| 45              | 7.7                 |     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 50              | 7.8                 |     |     |     |     |     |     |     | 7.1               |     |     |     |     |     |     |
| 55              | 7.7                 |     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 60              | 7.4                 |     |     |     |     |     |     |     | 6.9               |     |     |     |     |     |     |
| 65              | 7.5                 |     |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 70              |                     |     |     |     |     |     |     |     | 7.0               |     |     |     |     |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | June 10*<br>(549') |     |     |     |     |     |     | June 14-16<br>(549') |     |     |     |     |     |     |     |
|-----------------|--------------------|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | A                  | B   | C   | D   | E   | F   | T   | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 8.1                | 8.6 | 8.3 | 7.8 | 7.9 | 8.3 | 7.5 | 8.3                  | 8.3 | 8.2 | 8.5 | 8.4 | 7.9 | 8.2 | 8.2 |
| 5               |                    |     |     |     |     |     |     | 8.4                  | 8.3 | 8.3 | 8.5 | 8.4 |     | 8.3 |     |
| 10              | 8.2                | 7.8 | 7.5 | 7.9 | 7.8 | 8.6 |     | 8.4                  | 8.4 | 8.3 | 8.3 | 8.1 |     | 8.3 |     |
| 15              |                    |     |     |     |     |     |     | 8.3                  | 8.4 | 8.3 | 7.4 | 7.1 |     | 8.2 |     |
| 20              | 8.0                | 7.5 |     | 7.4 | 7.9 | 7.8 |     | 8.2                  | 8.4 | 7.8 | 7.0 | 7.2 |     | 7.5 |     |
| 25              |                    |     |     |     |     |     |     | 7.5                  | 7.5 | 8.1 | 7.1 |     |     | 7.7 |     |
| 30              | 7.7                |     |     |     | 7.7 | 7.5 |     | 7.3                  | 8.4 | 7.5 | 6.9 |     |     | 7.4 |     |
| 35              |                    |     |     |     |     |     |     | 7.2                  | 8.2 | 7.5 | 6.9 |     |     | 7.2 |     |
| 40              | 7.7                |     |     |     | 7.8 |     |     | 7.0                  | 8.2 | 7.9 | 6.9 |     |     | 7.3 |     |
| 45              |                    |     |     |     |     |     |     | 7.0                  |     |     |     |     |     |     |     |
| 50              | 7.7                |     |     |     |     |     |     | 7.1                  |     |     |     |     |     |     |     |
| 55              |                    |     |     |     |     |     |     | 8.0                  |     |     |     |     |     |     |     |
| 60              | 7.5                |     |     |     |     |     |     | 8.0                  |     |     |     |     |     |     |     |
| 65              |                    |     |     |     |     |     |     | 8.0                  |     |     |     |     |     |     |     |

\*KDFWR



Table 4. (continued)

| Depth<br>(feet) | June 24*<br>(550') |     |     |     |     |     |     | July 7*<br>(551') |     |     |     |     |     |     |
|-----------------|--------------------|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|-----|
|                 | A                  | B   | C   | D   | E   | F   | T   | A                 | B   | C   | D   | E   | F   | T   |
| 0               | 8.3                | 8.4 | 8.2 | 8.2 | 8.3 | 8.4 | 8.1 | 8.1               | 8.4 | 8.0 | 8.3 | 8.4 | 8.4 | 8.1 |
| 5               |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 10              | 8.4                | 8.3 | 8.5 | 8.5 | 8.3 | 8.5 |     | 8.2               | 8.4 | 7.6 | 8.2 | 8.5 | 8.5 |     |
| 15              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 20              | 8.5                | 7.4 | 7.5 | 7.2 | 7.6 | 7.1 |     | 8.2               | 6.9 | 7.3 | 6.9 | 7.4 | 7.1 |     |
| 25              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 30              | 8.0                |     |     |     | 7.5 | 7.1 |     | 7.4               |     |     |     | 7.5 | 7.1 |     |
| 35              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 40              | 8.0                |     |     |     | 7.6 |     |     | 7.5               |     |     |     | 7.3 |     |     |
| 45              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 50              | 8.2                |     |     |     |     |     |     | 7.2               |     |     |     |     |     |     |
| 55              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 60              | 8.0                |     |     |     |     |     |     | 7.3               |     |     |     |     |     |     |
| 65              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 70              | 7.7                |     |     |     |     |     |     | 7.0               |     |     |     |     |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | July 12-14<br>(552') |     |     |     |     |     |     |     | July 26-28<br>(553') |     |     |     |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 8.3                  | 8.4 | 8.2 | 8.5 | 8.5 | 7.3 | 8.4 | 8.4 | 8.4                  | 8.3 | 8.6 | 8.4 | 7.4 | 7.5 | 8.4 | 8.1 |
| 5               | 8.4                  | 8.4 | 8.3 | 8.5 | 8.5 |     | 8.4 |     | 8.4                  | 8.5 | 8.6 | 8.5 | 7.4 |     | 8.4 |     |
| 10              | 8.4                  | 8.4 | 8.3 | 8.5 | 7.9 |     | 8.4 |     | 8.4                  | 8.5 | 8.6 | 8.5 | 7.4 |     | 8.4 |     |
| 15              | 8.4                  | 8.4 | 8.3 | 8.4 | 7.2 |     | 8.3 |     | 8.4                  | 8.5 | 8.6 | 8.4 | 7.4 |     | 8.4 |     |
| 20              | 8.4                  | 8.4 | 8.3 | 8.4 |     |     | 7.0 |     | 8.1                  | 8.5 | 8.5 | 8.4 | 7.3 |     | 8.4 |     |
| 25              | 8.1                  | 7.1 | 6.9 | 8.4 |     |     | 6.8 |     | 7.5                  | 7.2 | 7.2 | 7.3 |     |     | 7.0 |     |
| 30              | 7.4                  | 6.9 | 7.2 | 8.1 |     |     | 6.6 |     | 7.2                  | 7.1 | 7.1 | 7.2 |     |     | 6.9 |     |
| 35              | 6.9                  | 6.7 | 6.8 | 6.8 |     |     | 6.6 |     | 7.0                  | 6.9 | 7.0 | 7.1 |     |     | 6.9 |     |
| 40              | 6.6                  | 7.0 | 7.0 | 6.8 |     |     | 6.7 |     | 7.0                  | 6.9 | 6.9 | 7.1 |     |     | 7.0 |     |
| 45              | 6.7                  | 6.6 |     |     |     |     | 6.6 |     | 6.9                  | 6.8 | 6.9 |     |     |     | 7.0 |     |
| 50              | 6.5                  |     |     |     |     |     | 6.6 |     | 6.8                  |     |     |     |     |     | 7.1 |     |
| 55              | 6.5                  |     |     |     |     |     |     |     | 6.9                  |     |     |     |     |     |     |     |
| 60              | 6.5                  |     |     |     |     |     |     |     | 6.9                  |     |     |     |     |     |     |     |
| 65              | 6.6                  |     |     |     |     |     |     |     | 6.9                  |     |     |     |     |     |     |     |

Table 4. (continued)

| Depth<br>(feet) | August 2-7*<br>(558') |     |     |     |     |     | August 9-11<br>(557') |     |     |     |     |     |   |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|---|-----|-----|
|                 | A                     | B   | C   | D   | E   | F   | T                     | 1   | 2   | 3   | 4   | 5   | 6 | 7   | T   |
| 0               | 7.3                   | 8.0 | 7.5 | 7.8 | 8.1 | 7.1 | 7.4                   | 8.5 | 8.5 | 8.6 | 8.6 | 8.3 |   | 8.5 | 7.1 |
| 5               |                       |     |     |     |     |     |                       | 8.6 | 8.6 | 8.6 | 8.8 | 8.5 |   | 8.7 |     |
| 10              | 7.7                   | 7.5 | 7.4 | 7.6 | 7.3 | 7.2 |                       | 8.6 | 8.8 | 8.6 | 8.4 | 7.5 |   | 8.6 |     |
| 15              |                       |     |     |     |     |     |                       | 8.4 | 8.5 | 8.4 | 7.8 | 7.1 |   | 8.2 |     |
| 20              | 7.9                   | 7.3 | 7.4 | 7.4 | 7.3 | 7.1 |                       | 7.6 | 7.3 | 7.3 | 7.2 | 7.0 |   | 7.2 |     |
| 25              |                       |     |     |     |     |     |                       | 7.2 | 7.0 | 7.0 | 7.0 | 7.0 |   | 7.0 |     |
| 30              | 7.3                   | 7.2 | 7.4 | 7.2 | 7.3 | 7.1 |                       | 6.9 | 6.9 | 7.0 | 6.9 |     |   | 7.0 |     |
| 35              |                       |     |     |     |     |     |                       | 6.9 | 6.8 | 6.9 | 6.9 |     |   | 7.0 |     |
| 40              | 7.1                   | 7.1 |     |     | 7.2 |     |                       | 6.9 | 6.7 | 6.8 | 7.0 |     |   | 6.9 |     |
| 45              |                       |     |     |     |     |     |                       | 7.1 | 6.8 | 6.8 | 7.0 |     |   | 7.2 |     |
| 50              | 7.1                   |     |     |     | 7.1 |     |                       | 7.1 | 6.8 |     |     |     |   | 7.1 |     |
| 55              |                       |     |     |     |     |     |                       | 7.0 |     |     |     |     |   | 7.0 |     |
| 60              | 7.0                   |     |     |     |     |     |                       | 7.0 |     |     |     |     |   |     |     |
| 65              |                       |     |     |     |     |     |                       | 7.0 |     |     |     |     |   |     |     |
| 70              |                       |     |     |     |     |     |                       | 7.0 |     |     |     |     |   |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | August 20*<br>(553') |     |     |     |     |     |     | August 23-26<br>(552') |     |     |     |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | A                    | B   | C   | D   | E   | F   | T   | 1                      | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 7.9                  | 7.7 | 8.1 | 8.1 | 8.4 | 8.1 | 7.1 | 8.8                    | 8.6 | 8.5 | 8.8 | 8.2 | 7.6 | 8.6 | 8.7 |
| 5               |                      |     |     |     |     |     |     | 8.8                    | 8.7 | 8.7 | 8.8 | 8.1 |     | 8.7 |     |
| 10              | 7.8                  | 8.0 | 7.5 | 8.1 | 8.0 | 8.3 |     | 8.8                    | 8.8 | 8.8 | 8.8 | 7.6 |     | 8.7 |     |
| 15              |                      |     |     |     |     |     |     | 8.8                    | 8.8 | 8.6 | 8.0 | 7.3 |     | 8.2 |     |
| 20              | 7.2                  | 7.2 | 7.4 | 7.2 | 7.5 | 7.5 |     | 8.8                    | 8.2 | 7.6 | 7.1 | 7.1 |     | 7.4 |     |
| 25              |                      |     |     |     |     |     |     | 7.2                    | 7.3 | 7.2 | 6.9 | 7.1 |     | 7.2 |     |
| 30              | 7.2                  | 7.2 |     |     | 7.4 | 8.4 |     | 7.0                    | 7.1 | 7.0 | 6.9 |     |     | 7.0 |     |
| 35              |                      |     |     |     |     |     |     | 6.9                    | 7.0 | 7.0 | 6.9 |     |     | 7.0 |     |
| 40              | 7.1                  |     |     |     | 7.4 |     |     | 6.9                    | 7.0 | 6.9 | 6.9 |     |     | 7.0 |     |
| 45              |                      |     |     |     |     |     |     | 6.9                    | 6.9 | 6.9 |     |     |     | 7.0 |     |
| 50              | 7.0                  |     |     |     |     |     |     | 6.9                    | 6.8 | 6.9 |     |     |     | 6.9 |     |
| 55              |                      |     |     |     |     |     |     | 7.0                    |     |     |     |     |     |     |     |
| 60              | 7.1                  |     |     |     |     |     |     | 7.0                    |     |     |     |     |     |     |     |
| 65              |                      |     |     |     |     |     |     | 7.1                    |     |     |     |     |     |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | August 31-September 2*<br>(552') |     |     |     |     |     |     | September 9-10<br>(552') |     |     |     |     |     |     |     |
|-----------------|----------------------------------|-----|-----|-----|-----|-----|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | A                                | B   | C   | D   | E   | F   | T   | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 8.1                              | 7.1 | 7.9 | 7.2 | 7.5 | 7.3 | 7.5 | 8.6                      | 8.7 | 8.6 | 8.3 | 8.5 | 7.3 | 8.6 | 8.5 |
| 5               |                                  |     |     |     |     |     |     | 8.8                      | 8.8 | 8.6 | 8.4 | 8.4 |     | 8.7 |     |
| 10              | 7.5                              | 6.9 | 7.0 | 7.0 | 7.3 | 7.3 |     | 8.8                      | 8.8 | 8.7 | 8.4 | 7.4 |     | 8.8 |     |
| 15              |                                  |     |     |     |     |     |     | 8.8                      | 8.8 | 8.3 | 7.9 | 7.3 |     | 8.4 |     |
| 20              | 7.2                              | 6.9 | 7.0 | 6.9 | 6.7 | 6.8 |     | 8.8                      | 8.7 | 7.8 | 7.1 | 6.9 |     | 7.6 |     |
| 25              |                                  |     |     |     |     |     |     | 7.7                      | 7.6 | 7.1 | 6.9 | 6.9 |     | 7.2 |     |
| 30              | 6.9                              | 6.9 |     |     | 6.7 | 6.8 |     | 7.1                      | 7.0 | 6.9 | 6.8 |     |     | 7.1 |     |
| 35              |                                  |     |     |     |     |     |     | 7.0                      | 6.9 | 6.8 | 6.8 |     |     | 7.0 |     |
| 40              | 6.8                              |     |     |     | 6.7 |     |     | 7.0                      | 6.9 | 6.8 | 6.8 |     |     | 6.9 |     |
| 45              |                                  |     |     |     |     |     |     | 6.9                      | 6.8 | 6.8 |     |     |     | 6.9 |     |
| 50              | 6.8                              |     |     |     |     |     |     | 6.9                      | 6.8 |     |     |     |     | 6.9 |     |
| 55              |                                  |     |     |     |     |     |     | 6.9                      |     |     |     |     |     |     |     |
| 60              | 6.8                              |     |     |     |     |     |     | 7.0                      |     |     |     |     |     |     |     |
| 65              |                                  |     |     |     |     |     |     | 6.9                      |     |     |     |     |     |     |     |
| 70              | 6.9                              |     |     |     |     |     |     |                          |     |     |     |     |     |     |     |

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\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | September 20-22<br>(552') |     |     |     |     |     |     |     | September 22*<br>(552') |     |     |     |     |   |   |
|-----------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|---|---|
|                 | 1                         | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                       | B   | C   | D   | E   | F | T |
| 0               | 7.9                       | 7.7 | 7.2 | 7.4 | 7.8 | 7.2 | 7.5 | 7.8 | 7.1                     | 7.6 | 7.8 | 7.6 | 7.1 |   |   |
| 5               | 8.0                       | 7.8 | 7.2 | 7.3 | 7.8 |     | 7.4 |     |                         |     |     |     |     |   |   |
| 10              | 7.9                       | 7.7 | 7.2 | 7.3 | 7.7 |     | 7.4 |     | 7.2                     | 7.2 | 7.6 | 7.5 | 7.5 |   |   |
| 15              | 7.9                       | 7.7 | 7.2 | 7.3 | 7.6 |     | 7.4 |     |                         |     |     |     |     |   |   |
| 20              | 7.9                       | 7.7 | 7.2 | 7.4 | 7.4 |     | 7.3 |     | 7.2                     | 7.3 | 7.9 | 7.8 | 7.4 |   |   |
| 25              | 7.6                       | 7.7 | 7.2 | 7.5 | 7.4 |     | 7.3 |     |                         |     |     |     |     |   |   |
| 30              | 7.6                       | 7.6 | 7.1 | 7.3 |     |     | 7.2 |     | 7.6                     | 7.3 |     |     | 7.2 |   |   |
| 35              | 7.1                       | 7.6 | 6.8 | 7.2 |     |     | 6.8 |     |                         |     |     |     |     |   |   |
| 40              | 6.8                       | 6.7 |     | 7.0 |     |     | 6.8 |     | 6.8                     |     |     |     | 7.4 |   |   |
| 45              | 6.8                       | 6.7 |     |     |     |     | 6.8 |     |                         |     |     |     |     |   |   |
| 50              | 6.7                       |     |     |     |     |     |     |     | 7.1                     |     |     |     |     |   |   |
| 55              | 6.7                       |     |     |     |     |     |     |     |                         |     |     |     |     |   |   |
| 60              | 6.7                       |     |     |     |     |     |     |     | 7.1                     |     |     |     |     |   |   |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | October 14-15<br>(550') |     |     |     |     |     |     |     | October 15*<br>(550') |     |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                     | B   | C   | D   | E   | F   | T   |
| 0               | 7.4                     | 7.1 | 7.1 | 7.4 | 8.0 | 7.7 | 7.3 | 7.2 | 7.1                   | 7.4 | 7.2 | 7.1 | 7.1 | 7.1 | 7.2 |
| 5               | 7.4                     | 7.1 |     |     | 7.9 |     | 7.3 |     |                       |     |     |     |     |     |     |
| 10              | 7.4                     | 7.0 | 7.0 | 7.4 | 7.8 |     | 7.3 |     | 7.1                   | 7.1 | 7.1 | 7.1 | 7.1 | 7.3 |     |
| 15              | 7.4                     | 7.1 |     |     | 7.8 |     | 7.3 |     |                       |     |     |     |     |     |     |
| 20              | 7.3                     | 7.1 | 7.0 | 7.3 | 7.7 |     | 7.3 |     | 7.1                   | 7.2 |     | 7.1 | 7.0 | 7.1 |     |
| 25              | 7.3                     | 7.1 |     |     |     |     | 7.3 |     |                       |     |     |     |     |     |     |
| 30              | 7.3                     | 7.0 | 6.9 | 7.1 |     |     | 7.3 |     | 7.1                   |     |     |     | 7.2 |     |     |
| 35              | 7.3                     | 7.0 |     |     |     |     | 7.3 |     |                       |     |     |     |     |     |     |
| 40              | 7.3                     | 7.0 |     |     |     |     | 7.3 |     | 7.1                   |     |     |     | 7.1 |     |     |
| 45              | 7.2                     | 7.0 |     |     |     |     | 7.3 |     |                       |     |     |     |     |     |     |
| 50              | 7.2                     |     |     |     |     |     |     |     | 7.2                   |     |     |     |     |     |     |
| 55              | 7.1                     |     |     |     |     |     |     |     |                       |     |     |     |     |     |     |
| 60              | 7.0                     |     |     |     |     |     |     |     | 7.1                   |     |     |     |     |     |     |

\*KDFWR

Table 4. (continued)

| Depth<br>(feet) | November 8-9<br>(540') |     |     |     |     |     |     |     | December 1-2*<br>(525') |   |   |   |     |   |     |
|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|---|---|---|-----|---|-----|
|                 | 1                      | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                       | B | C | D | E   | F | T   |
| 0               | 7.2                    | 7.1 | 7.2 | 7.5 | 7.5 | 7.4 | 7.1 | 7.2 | 7.1                     |   |   |   | 7.2 |   | 7.4 |
| 5               |                        |     |     |     |     |     |     |     |                         |   |   |   |     |   |     |
| 10              | 7.2                    | 7.1 | 7.2 | 7.4 |     |     | 7.2 |     | 7.2                     |   |   |   | 7.3 |   |     |
| 15              |                        |     |     |     |     |     |     |     |                         |   |   |   |     |   |     |
| 20              | 7.2                    | 7.1 | 7.2 | 7.4 |     |     | 7.2 |     | 7.4                     |   |   |   |     |   |     |
| 25              |                        |     |     | 7.4 |     |     |     |     |                         |   |   |   |     |   |     |
| 30              | 7.2                    | 7.1 | 7.2 |     |     |     | 7.2 |     | 7.4                     |   |   |   |     |   |     |
| 35              |                        |     |     |     |     |     |     |     |                         |   |   |   |     |   |     |
| 40              | 7.2                    |     |     |     |     |     |     |     | 7.4                     |   |   |   |     |   |     |
| 45              |                        |     |     |     |     |     |     |     |                         |   |   |   |     |   |     |
| 50              | 7.2                    |     |     |     |     |     |     |     |                         |   |   |   |     |   |     |
| 55              | 7.2                    |     |     |     |     |     |     |     |                         |   |   |   |     |   |     |

\*KDFWR



Table 4. (continued)

| Depth<br>(feet) | December 16-17<br>(525') |     |     |     |     |   |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|---|-----|-----|
|                 | 1                        | 2   | 3   | 4   | 5   | 6 | 7   | T   |
| 0               | 7.3                      | 7.3 | 7.3 | 7.3 | 7.3 |   | 7.3 | 7.3 |
| 5               |                          |     |     |     |     |   |     |     |
| 10              | 7.4                      | 7.3 | 7.3 | 7.3 |     |   | 7.3 |     |
| 15              |                          |     | 7.3 |     |     |   |     |     |
| 20              | 7.4                      | 7.3 |     |     |     |   | 7.3 |     |
| 25              |                          |     |     |     |     |   |     |     |
| 30              | 7.4                      |     |     |     |     |   |     |     |
| 35              |                          |     |     |     |     |   |     |     |
| 40              | 7.4                      |     |     |     |     |   |     |     |

Table 5. Specific conductance at Barren River Reservoir and its tailwater, 1971. Determinations were conducted biweekly in September and October (monthly in December). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 552-525 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 21-22<br>(533') |     |     |     |     |   |     |     | February 18-19<br>(528') |     |     |     |     |   |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|---|-----|-----|--------------------------|-----|-----|-----|-----|---|-----|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | 6 | 7   | T   | 1                        | 2   | 3   | 4   | 5   | 6 | 7   | T   |
| 0               | 190                     | 178 | 170 | 190 | 180 |   | 260 | 192 | 191                      | 175 | 178 | 180 | 162 |   | 253 | 190 |
| 5               |                         |     |     |     |     |   |     |     |                          |     |     |     |     |   |     |     |
| 10              | 192                     | 179 | 170 | 190 |     |   | 260 |     | 191                      | 175 | 178 | 180 |     |   | 240 |     |
| 15              |                         |     |     |     |     |   |     |     |                          |     | 179 |     |     |   |     |     |
| 20              | 195                     | 205 | 170 | 190 |     |   | 260 |     | 191                      | 179 |     |     |     |   | 225 |     |
| 25              |                         | 238 |     |     |     |   |     |     |                          |     |     |     |     |   |     |     |
| 30              | 195                     |     |     |     |     |   | 260 |     | 191                      |     |     |     |     |   |     |     |
| 35              |                         |     |     |     |     |   |     |     |                          |     |     |     |     |   |     |     |
| 40              | 195                     |     |     |     |     |   |     |     | 195                      |     |     |     |     |   |     |     |
| 45              | 198                     |     |     |     |     |   |     |     |                          |     |     |     |     |   |     |     |

Table 6. (continued)

| Depth<br>(feet) | March 22-23<br>(495') |      |      |      |      |      | April 20<br>(506') |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|------|--------------------|------|------|------|------|------|
|                 | 1                     | 2    | 3    | 4    | 5    | T    | 1                  | 2    | 3    | 4    | 5    | T    |
| 0               | 46.4                  | 48.0 | 49.5 | 49.6 | 48.5 | 42.5 | 66.2               | 67.0 | 68.8 | 71.5 | 64.3 | 48.0 |
| 5               |                       |      |      |      |      |      | 66.5               | 64.5 | 63.9 | 66.8 |      |      |
| 10              | 46.4                  | 47.5 | 48.3 | 49.0 |      |      | 63.6               | 63.8 | 57.8 | 63.5 |      |      |
| 15              |                       |      |      |      |      |      | 55.1               | 55.5 | 55.1 | 56.5 |      |      |
| 20              | 46.4                  | 47.5 | 48.2 | 48.0 |      |      | 53.8               | 53.8 | 53.0 | 54.5 |      |      |
| 25              |                       |      |      |      |      |      | 52.5               | 52.0 | 52.5 | 52.9 |      |      |
| 30              | 46.4                  | 47.2 | 48.9 | 48.0 |      |      | 51.7               | 50.8 | 51.0 | 52.1 |      |      |
| 35              |                       |      |      |      |      |      | 50.3               | 49.8 | 50.3 | 52.0 |      |      |
| 40              | 46.4                  | 47.1 | 48.0 |      |      |      | 48.9               | 48.9 | 49.5 |      |      |      |
| 45              |                       |      |      |      |      |      | 48.3               | 48.0 | 49.0 |      |      |      |
| 50              | 46.2                  | 47.0 | 48.0 |      |      |      | 47.9               | 47.9 |      |      |      |      |
| 55              |                       | 47.0 |      |      |      |      | 47.6               | 47.5 |      |      |      |      |
| 60              | 46.2                  |      |      |      |      |      | 47.3               | 47.3 |      |      |      |      |
| 65              |                       |      |      |      |      |      | 47.2               | 47.2 |      |      |      |      |
| 70              | 46.2                  |      |      |      |      |      | 47.0               | 47.2 |      |      |      |      |
| 75              | 46.0                  |      |      |      |      |      | 47.0               | 47.1 |      |      |      |      |
| 80              |                       |      |      |      |      |      | 47.0               | 47.1 |      |      |      |      |
| 85              |                       |      |      |      |      |      | 47.0               |      |      |      |      |      |
| 90              |                       |      |      |      |      |      | 47.0               |      |      |      |      |      |

Table 5. (continued)

| Depth<br>(feet) | March 25-26<br>(531') |     |     |     |     |   |     |   | April 21-23<br>(542') |     |     |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|---|-----|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | 1                     | 2   | 3   | 4   | 5   | 6 | 7   | T | 1                     | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 212                   | 211 | 191 | 190 | 180 |   | 291 |   | 212                   | 219 | 201 | 193 | 201 | 208 | 258 | 215 |
| 5               |                       |     |     |     |     |   |     |   | 218                   | 221 | 201 | 193 | 202 |     | 258 |     |
| 10              | 212                   | 211 | 191 | 190 |     |   | 291 |   | 219                   | 219 | 203 | 193 | 202 |     | 265 |     |
| 15              |                       |     |     |     |     |   |     |   | 219                   | 219 | 199 | 193 |     |     | 265 |     |
| 20              | 212                   | 211 | 191 | 190 |     |   | 291 |   | 221                   | 221 | 210 | 190 |     |     | 250 |     |
| 25              |                       |     |     |     |     |   |     |   | 220                   | 225 | 213 | 188 |     |     | 251 |     |
| 30              | 212                   | 215 |     |     |     |   | 291 |   | 220                   | 225 |     | 188 |     |     | 258 |     |
| 35              |                       |     |     |     |     |   |     |   | 222                   | 229 |     |     |     |     | 265 |     |
| 40              | 210                   |     |     |     |     |   |     |   | 222                   |     |     |     |     |     |     |     |
| 45              | 215                   |     |     |     |     |   |     |   | 225                   |     |     |     |     |     |     |     |
| 50              |                       |     |     |     |     |   |     |   | 228                   |     |     |     |     |     |     |     |

Table 5. (continued)

| Depth<br>(feet) | May 17-19<br>(547') |     |     |     |     |     |     |     | June 14-16<br>(549') |     |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | 1                   | 2   | 3   | 4   | 5   | 6   | 7   | T   | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 214                 | 212 | 195 | 185 | 198 | 200 | 219 | 218 | 219                  | 202 | 208 | 199 | 210 | 211 | 219 | 195 |
| 5               | 217                 | 214 | 198 | 187 | 195 |     | 230 |     | 217                  | 205 | 209 | 200 | 211 |     | 219 |     |
| 10              | 215                 | 212 | 198 | 195 | 195 |     | 242 |     | 215                  | 202 | 211 | 201 | 211 |     | 225 |     |
| 15              | 213                 | 222 | 200 | 195 | 195 |     | 262 |     | 212                  | 200 | 216 | 202 | 220 |     | 250 |     |
| 20              | 215                 | 222 | 205 | 160 | 200 |     | 269 |     | 220                  | 202 | 219 | 205 | 221 |     | 248 |     |
| 25              | 218                 | 219 | 205 | 159 |     |     | 285 |     | 220                  | 220 | 220 | 229 |     |     | 259 |     |
| 30              | 221                 | 222 | 210 | 159 |     |     | 293 |     | 222                  | 215 | 228 | 218 |     |     | 278 |     |
| 35              | 222                 | 228 | 218 | 160 |     |     | 289 |     | 228                  | 220 | 235 | 259 |     |     | 280 |     |
| 40              | 222                 | 228 |     |     |     |     | 287 |     | 222                  | 220 | 239 | 283 |     |     | 255 |     |
| 45              | 222                 |     |     |     |     |     |     |     | 220                  |     |     |     |     |     |     |     |
| 50              | 222                 |     |     |     |     |     |     |     | 221                  |     |     |     |     |     |     |     |
| 55              | 225                 |     |     |     |     |     |     |     | 223                  |     |     |     |     |     |     |     |
| 60              | 228                 |     |     |     |     |     |     |     | 228                  |     |     |     |     |     |     |     |
| 65              | 230                 |     |     |     |     |     |     |     | 230                  |     |     |     |     |     |     |     |

Table 5. (continued)

| Depth<br>(feet) | July 12-14<br>(552') |     |     |     |     |     |     |     | July 26-28<br>(553') |     |     |     |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   | 1                    | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 214                  | 205 | 200 | 120 | 214 | 240 | 229 | 182 | 208                  | 210 | 192 | 200 | 160 | 200 | 218 | 205 |
| 5               | 214                  | 205 | 200 | 120 | 218 |     | 229 |     | 208                  | 211 | 192 | 205 | 160 |     | 218 |     |
| 10              | 214                  | 208 | 200 | 120 | 231 |     | 225 |     | 212                  | 211 | 192 | 202 | 160 |     | 215 |     |
| 15              | 213                  | 210 | 200 | 130 | 230 |     | 269 |     | 212                  | 212 | 192 | 208 | 160 |     | 215 |     |
| 20              | 222                  | 230 | 210 | 135 |     |     | 298 |     | 231                  | 225 | 220 | 209 | 160 |     | 220 |     |
| 25              | 228                  | 230 | 215 | 138 |     |     | 270 |     | 228                  | 228 | 222 | 240 |     |     | 220 |     |
| 30              | 240                  | 225 | 221 | 142 |     |     | 265 |     | 231                  | 239 | 220 | 260 |     |     | 280 |     |
| 35              | 241                  | 230 | 235 | 145 |     |     | 285 |     | 230                  | 239 | 230 | 280 |     |     | 275 |     |
| 40              | 240                  | 239 | 239 | 190 |     |     | 290 |     | 221                  | 245 | 249 | 280 |     |     | 265 |     |
| 45              | 237                  | 240 |     |     |     |     | 278 |     | 220                  | 252 | 248 |     |     |     | 260 |     |
| 50              | 235                  |     |     |     |     |     | 285 |     | 219                  |     |     |     |     |     | 265 |     |
| 55              | 238                  |     |     |     |     |     |     |     | 220                  |     |     |     |     |     |     |     |
| 60              | 240                  |     |     |     |     |     |     |     | 225                  |     |     |     |     |     |     |     |
| 65              | 248                  |     |     |     |     |     |     |     | 238                  |     |     |     |     |     |     |     |

Table 5. (continued)

| Depth<br>(feet) | August 9-11<br>(557') |     |     |     |     |   |     | August 23-26<br>(552') |     |     |     |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|---|-----|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | 1                     | 2   | 3   | 4   | 5   | 6 | 7   | T                      | 1   | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 209                   | 209 | 195 | 190 | 141 |   | 200 | 220                    | 198 | 200 | 195 | 190 | 218 | 239 | 205 | 197 |
| 5               | 209                   | 209 | 198 | 185 | 140 |   | 205 |                        | 197 | 200 | 190 | 195 | 218 |     | 205 |     |
| 10              | 209                   | 209 | 198 | 200 | 160 |   | 209 |                        | 198 | 198 | 190 | 191 | 232 |     | 208 |     |
| 15              | 220                   | 207 | 207 | 180 | 160 |   | 220 |                        | 198 | 205 | 205 | 210 | 235 |     | 240 |     |
| 20              | 219                   | 200 | 185 | 171 | 159 |   | 239 |                        | 220 | 220 | 205 | 222 | 235 |     | 250 |     |
| 25              | 227                   | 200 | 160 | 180 | 162 |   | 220 |                        | 207 | 210 | 200 | 238 | 235 |     | 250 |     |
| 30              | 229                   | 170 | 160 | 182 |     |   | 230 |                        | 189 | 202 | 195 | 330 |     |     | 260 |     |
| 35              | 223                   | 155 | 150 | 188 |     |   | 234 |                        | 180 | 200 | 200 | 560 |     |     | 290 |     |
| 40              | 239                   | 205 | 162 | 191 |     |   | 240 |                        | 190 | 190 | 205 | 570 |     |     | 300 |     |
| 45              | 243                   | 230 | 190 | 221 |     |   | 239 |                        | 228 | 190 | 208 |     |     |     | 305 |     |
| 50              | 243                   | 245 |     |     |     |   | 242 |                        | 245 | 200 | 230 |     |     |     | 310 |     |
| 55              | 243                   |     |     |     |     |   | 249 |                        | 245 |     |     |     |     |     |     |     |
| 60              | 249                   |     |     |     |     |   |     |                        | 255 |     |     |     |     |     |     |     |
| 65              | 249                   |     |     |     |     |   |     |                        | 262 |     |     |     |     |     |     |     |
| 70              | 255                   |     |     |     |     |   |     |                        |     |     |     |     |     |     |     |     |

Table 5. (continued)

| Depth<br>(feet) | August 31-September 1*<br>(552') |     |     |     |     |     |     | September 9-10<br>(552') |     |     |     |     |     |     |     |
|-----------------|----------------------------------|-----|-----|-----|-----|-----|-----|--------------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | A                                | B   | C   | D   | E   | F   | T   | 1                        | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 190                              | 208 | 213 | 188 | 183 | 188 | 193 | 198                      | 197 | 192 | 195 | 210 | 220 | 200 | 192 |
| 5               |                                  |     |     |     |     |     |     | 195                      | 199 | 195 | 193 | 190 |     | 200 |     |
| 10              | 188                              | 210 | 225 | 190 | 183 | 190 |     | 195                      | 194 | 195 | 199 | 190 |     | 198 |     |
| 15              |                                  |     |     |     |     |     |     | 198                      | 196 | 203 | 208 | 188 |     | 225 |     |
| 20              | 195                              | 243 | 288 | 220 | 200 | 210 |     | 210                      | 215 | 209 | 210 | 180 |     | 270 |     |
| 25              |                                  |     |     |     |     |     |     | 200                      | 210 | 219 | 195 | 180 |     | 260 |     |
| 30              | 205                              | 388 |     |     | 220 | 233 |     | 189                      | 200 | 201 | 350 |     |     | 258 |     |
| 35              |                                  |     |     |     |     |     |     | 181                      | 204 | 220 | 612 |     |     | 290 |     |
| 40              | 180                              |     |     |     | 220 |     |     | 200                      | 209 | 221 | 672 |     |     | 308 |     |
| 45              |                                  |     |     |     |     |     |     | 239                      | 211 | 231 |     |     |     | 308 |     |
| 50              | 220                              |     |     |     |     |     |     | 242                      | 229 |     |     |     |     | 320 |     |
| 55              |                                  |     |     |     |     |     |     | 249                      |     |     |     |     |     |     |     |
| 60              | 270                              |     |     |     |     |     |     | 259                      |     |     |     |     |     |     |     |
| 65              |                                  |     |     |     |     |     |     | 270                      |     |     |     |     |     |     |     |
| 70              | 300                              |     |     |     |     |     |     |                          |     |     |     |     |     |     |     |

\*KDFWR



Table 5. (continued)

| Depth<br>(feet) | September 20-22<br>(552') |     |     |     |     |     |     |     | September 22*<br>(552') |     |     |     |     |   |   |
|-----------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|---|---|
|                 | 1                         | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                       | B   | C   | D   | E   | F | T |
| 0               | 208                       | 211 | 211 | 208 | 219 | 248 | 335 | 208 | 200                     | 230 | 225 | 215 | 205 |   |   |
| 5               | 208                       | 211 | 211 | 208 | 220 |     | 335 |     |                         |     |     |     |     |   |   |
| 10              | 208                       | 211 | 211 | 208 | 228 |     | 335 |     | 200                     | 230 | 235 | 205 | 200 |   |   |
| 15              | 208                       | 211 | 211 | 208 | 230 |     | 332 |     |                         |     |     |     |     |   |   |
| 20              | 208                       | 211 | 211 | 208 | 231 |     | 232 |     | 200                     | 230 | 313 | 220 | 200 |   |   |
| 25              | 208                       | 211 | 211 | 212 | 231 |     | 232 |     |                         |     |     |     |     |   |   |
| 30              | 201                       | 201 | 227 | 250 |     |     | 294 |     | 205                     | 285 |     |     | 205 |   |   |
| 35              | 192                       | 200 | 225 | 615 |     |     | 309 |     |                         |     |     |     |     |   |   |
| 40              | 219                       | 214 |     | 720 |     |     | 309 |     | 195                     |     |     |     | 240 |   |   |
| 45              | 245                       | 231 |     |     |     |     | 311 |     |                         |     |     |     |     |   |   |
| 50              | 250                       |     |     |     |     |     |     |     | 230                     |     |     |     |     |   |   |
| 55              | 255                       |     |     |     |     |     |     |     |                         |     |     |     |     |   |   |
| 60              | 270                       |     |     |     |     |     |     |     | 275                     |     |     |     |     |   |   |

\*KDFWR

Table 5. (continued)

| Depth<br>(feet) | October 14-15<br>(550') |     |     |     |     |     |     |     | October 15*<br>(550') |     |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | 6   | 7   | T   | A                     | B   | C   | D   | E   | F   | T   |
| 0               | 224                     | 232 | 231 | 238 | 250 | 244 | 258 | 213 | 205                   | 240 | 240 | 208 | 210 | 220 | 255 |
| 5               | 224                     | 232 | 231 | 238 | 250 |     | 258 |     |                       |     |     |     |     |     |     |
| 10              | 223                     | 232 | 230 | 238 | 248 |     | 258 |     | 205                   | 248 | 248 | 210 | 210 | 233 |     |
| 15              | 223                     | 232 | 230 | 238 | 248 |     | 251 |     |                       |     |     |     |     |     |     |
| 20              | 223                     | 232 | 230 | 238 | 248 |     | 250 |     | 205                   | 320 |     | 228 | 213 | 240 |     |
| 25              | 223                     | 232 | 230 | 247 |     |     | 250 |     |                       |     |     |     |     |     |     |
| 30              | 223                     | 232 | 230 | 508 |     |     | 250 |     | 205                   |     |     |     | 218 |     |     |
| 35              | 221                     | 235 | 230 | 810 |     |     | 252 |     |                       |     |     |     |     |     |     |
| 40              | 223                     | 230 |     |     |     |     | 269 |     | 205                   |     |     |     | 235 |     |     |
| 45              | 223                     | 239 |     |     |     |     | 270 |     |                       |     |     |     |     |     |     |
| 50              | 250                     |     |     |     |     |     |     |     | 213                   |     |     |     |     |     |     |
| 55              | 260                     |     |     |     |     |     |     |     |                       |     |     |     |     |     |     |
| 60              | 289                     |     |     |     |     |     |     |     | 253                   |     |     |     |     |     |     |

\*KDFWR

Table 5. (continued)

| Depth<br>(feet) | October 28*<br>(544') |     |     |     |     |     |     | November 8-9<br>(540') |     |     |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----|-----|
|                 | A                     | B   | C   | D   | E   | F   | T   | 1                      | 2   | 3   | 4   | 5   | 6   | 7   | T   |
| 0               | 220                   | 263 | 300 | 225 | 210 | 225 | 218 | 229                    | 230 | 235 | 278 | 248 | 245 | 261 | 223 |
| 5               |                       |     |     |     |     |     |     |                        |     |     |     |     |     |     |     |
| 10              | 208                   | 290 | 370 | 238 | 218 | 233 |     | 227                    | 230 | 235 | 278 |     |     | 258 |     |
| 15              |                       |     |     |     |     |     |     |                        |     |     |     |     |     |     |     |
| 20              | 210                   | 290 |     |     | 218 | 310 |     | 227                    | 230 | 235 | 320 |     |     | 258 |     |
| 25              |                       |     |     |     |     |     |     |                        |     |     | 340 |     |     |     |     |
| 30              | 233                   |     |     |     | 230 |     |     | 227                    | 230 | 235 |     |     |     | 253 |     |
| 35              |                       |     |     |     |     |     |     |                        |     |     |     |     |     | 255 |     |
| 40              | 225                   |     |     |     |     |     |     | 225                    |     |     |     |     |     |     |     |
| 45              |                       |     |     |     |     |     |     |                        |     |     |     |     |     |     |     |
| 50              | 250                   |     |     |     |     |     |     | 225                    |     |     |     |     |     |     |     |
| 55              |                       |     |     |     |     |     |     | 259                    |     |     |     |     |     |     |     |

\* KDFWR

Table 5. (continued)

| Depth<br>(feet) | December 1-27*<br>(525') |   |   |   |     |   |     | December 16-17<br>(525') |     |     |     |     |   |     |     |
|-----------------|--------------------------|---|---|---|-----|---|-----|--------------------------|-----|-----|-----|-----|---|-----|-----|
|                 | A                        | B | C | D | E   | F | T   | 1                        | 2   | 3   | 4   | 5   | 6 | 7   | T   |
| 0               | 235                      |   |   |   | 408 |   | 220 | 294                      | 259 | 260 | 285 | 227 |   | 305 | 260 |
| 5               |                          |   |   |   |     |   |     |                          |     |     |     |     |   |     |     |
| 10              | 230                      |   |   |   | 410 |   |     | 294                      | 259 | 260 | 285 |     |   | 305 |     |
| 15              |                          |   |   |   |     |   |     |                          |     | 260 |     |     |   |     |     |
| 20              | 228                      |   |   |   |     |   |     | 294                      | 291 |     |     |     |   | 305 |     |
| 25              |                          |   |   |   |     |   |     |                          |     |     |     |     |   |     |     |
| 30              | 230                      |   |   |   |     |   |     | 291                      |     |     |     |     |   |     |     |
| 35              |                          |   |   |   |     |   |     |                          |     |     |     |     |   |     |     |
| 40              | 218                      |   |   |   |     |   |     | 290                      |     |     |     |     |   |     |     |

\*KDFWR

Table 6. Water temperatures ( $^{\circ}$  Fahrenheit) at Nolin River Reservoir and its tailwater, 1971. Temperatures were recorded monthly from January through November (biweekly in May, June, July, August, and October). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 515-490 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 17-21<br>(501') |      |      |      |      |      | January 20*<br>(497') |      |      |   |   |   |      |
|-----------------|-------------------------|------|------|------|------|------|-----------------------|------|------|---|---|---|------|
|                 | 1                       | 2    | 3    | 4    | 5    | T    | A                     | B    | C    | D | E | F | T    |
| 0               | 41.0                    | 43.0 | 44.0 | 45.5 | 46.1 | 40.5 | 41.9                  | 44.6 | 41.0 |   |   |   | 41.5 |
| 5               |                         |      |      |      |      |      | 41.5                  | 45.5 | 41.0 |   |   |   |      |
| 10              | 41.1                    | 43.0 | 44.0 | 45.6 |      |      | 41.5                  | 44.6 | 41.0 |   |   |   |      |
| 15              |                         |      |      |      |      |      | 41.5                  | 44.2 | 41.0 |   |   |   |      |
| 20              | 41.1                    | 43.0 | 43.9 | 45.7 |      |      | 41.5                  | 43.7 | 41.0 |   |   |   |      |
| 25              |                         |      |      |      |      |      | 41.5                  | 42.4 |      |   |   |   |      |
| 30              | 41.1                    | 42.9 | 43.9 |      |      |      | 41.5                  | 41.0 |      |   |   |   |      |
| 35              |                         |      |      |      |      |      | 41.5                  | 41.0 |      |   |   |   |      |
| 40              | 41.0                    | 42.9 | 43.8 |      |      |      | 41.5                  | 41.0 |      |   |   |   |      |
| 45              |                         |      |      |      |      |      | 41.5                  |      |      |   |   |   |      |
| 50              | 41.0                    | 42.9 | 44.0 |      |      |      | 41.0                  |      |      |   |   |   |      |
| 55              |                         |      |      |      |      |      | 41.0                  |      |      |   |   |   |      |
| 60              | 41.0                    | 43.0 |      |      |      |      | 41.0                  |      |      |   |   |   |      |
| 65              |                         |      |      |      |      |      |                       |      |      |   |   |   |      |
| 70              | 41.0                    |      |      |      |      |      |                       |      |      |   |   |   |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | February 16-17<br>(492') |      |      |      |      |   | February 25-March 1*<br>(502') |      |      |   |   |   |      |
|-----------------|--------------------------|------|------|------|------|---|--------------------------------|------|------|---|---|---|------|
|                 | 1                        | 2    | 3    | 4    | 5    | T | A                              | B    | C    | D | E | F | T    |
| 0               | 39.1                     | 39.8 | 41.1 | 42.9 | 49.5 |   | 50.0                           | 54.5 | 52.3 |   |   |   | 42.8 |
| 5               |                          |      |      |      |      |   | 47.3                           | 48.2 | 47.8 |   |   |   |      |
| 10              | 38.9                     | 39.2 | 41.0 | 42.5 |      |   | 46.9                           | 48.2 | 47.3 |   |   |   |      |
| 15              |                          |      |      |      |      |   | 46.9                           | 48.2 | 47.3 |   |   |   |      |
| 20              | 38.9                     | 39.0 | 40.9 | 42.5 |      |   | 46.4                           | 48.2 | 47.3 |   |   |   |      |
| 25              |                          |      |      |      |      |   | 46.4                           | 47.3 |      |   |   |   |      |
| 30              | 38.5                     | 39.0 | 40.8 |      |      |   | 46.4                           | 47.3 |      |   |   |   |      |
| 35              |                          |      |      |      |      |   | 46.4                           | 46.4 |      |   |   |   |      |
| 40              | 38.5                     | 39.0 | 40.8 |      |      |   | 46.4                           | 46.4 |      |   |   |   |      |
| 45              |                          |      |      |      |      |   | 46.4                           |      |      |   |   |   |      |
| 50              | 38.5                     | 39.0 |      |      |      |   | 46.4                           |      |      |   |   |   |      |
| 55              |                          | 39.0 |      |      |      |   |                                |      |      |   |   |   |      |
| 60              | 38.7                     |      |      |      |      |   |                                |      |      |   |   |   |      |
| 65              |                          |      |      |      |      |   |                                |      |      |   |   |   |      |
| 70              | 38.9                     |      |      |      |      |   |                                |      |      |   |   |   |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | March 22-23<br>(495') |      |      |      |      |      | April 20<br>(506') |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|------|--------------------|------|------|------|------|------|
|                 | 1                     | 2    | 3    | 4    | 5    | T    | 1                  | 2    | 3    | 4    | 5    | T    |
| 0               | 46.4                  | 48.0 | 49.5 | 49.6 | 48.5 | 42.5 | 66.2               | 67.0 | 68.8 | 71.5 | 64.3 | 48.0 |
| 5               |                       |      |      |      |      |      | 66.5               | 64.5 | 63.9 | 66.8 |      |      |
| 10              | 46.4                  | 47.5 | 48.3 | 49.0 |      |      | 63.6               | 63.8 | 57.8 | 63.5 |      |      |
| 15              |                       |      |      |      |      |      | 55.1               | 55.5 | 55.1 | 56.5 |      |      |
| 20              | 46.4                  | 47.5 | 48.2 | 48.0 |      |      | 53.8               | 53.8 | 53.0 | 54.5 |      |      |
| 25              |                       |      |      |      |      |      | 52.5               | 52.0 | 52.5 | 52.9 |      |      |
| 30              | 46.4                  | 47.2 | 48.9 | 48.0 |      |      | 51.7               | 50.8 | 51.0 | 52.1 |      |      |
| 35              |                       |      |      |      |      |      | 50.3               | 49.8 | 50.3 | 52.0 |      |      |
| 40              | 46.4                  | 47.1 | 48.0 |      |      |      | 48.9               | 48.9 | 49.5 |      |      |      |
| 45              |                       |      |      |      |      |      | 48.3               | 48.0 | 49.0 |      |      |      |
| 50              | 46.2                  | 47.0 | 48.0 |      |      |      | 47.9               | 47.9 |      |      |      |      |
| 55              |                       | 47.0 |      |      |      |      | 47.6               | 47.5 |      |      |      |      |
| 60              | 46.2                  |      |      |      |      |      | 47.3               | 47.3 |      |      |      |      |
| 65              |                       |      |      |      |      |      | 47.2               | 47.2 |      |      |      |      |
| 70              | 46.2                  |      |      |      |      |      | 47.0               | 47.2 |      |      |      |      |
| 75              | 46.0                  |      |      |      |      |      | 47.0               | 47.1 |      |      |      |      |
| 80              |                       |      |      |      |      |      | 47.0               | 47.1 |      |      |      |      |
| 85              |                       |      |      |      |      |      | 47.0               |      |      |      |      |      |
| 90              |                       |      |      |      |      |      | 47.0               |      |      |      |      |      |

Table 6. (continued)

| Depth<br>(feet) | April 29*<br>(508') |      |      |      |      |      |      | May 10-13*<br>(516') |      |      |      |      |      |      |
|-----------------|---------------------|------|------|------|------|------|------|----------------------|------|------|------|------|------|------|
|                 | A                   | B    | C    | D    | E    | F    | T    | A                    | B    | C    | D    | E    | F    | T    |
| 0               | 64.4                | 62.6 | 63.5 | 66.2 | 65.3 | 64.0 | 50.0 | 66.2                 | 66.7 | 66.2 | 68.0 | 67.1 | 59.0 | 51.8 |
| 5               | 64.4                | 62.6 | 63.5 | 64.4 | 64.4 | 61.3 |      | 65.3                 | 66.2 | 65.3 | 67.1 | 63.5 | 59.0 |      |
| 10              | 63.5                | 61.7 | 62.6 | 62.6 | 62.2 | 60.8 |      | 64.0                 | 64.4 | 63.5 | 61.7 | 60.8 | 59.0 |      |
| 15              | 58.1                | 59.9 | 58.6 | 59.9 | 59.0 | 59.9 |      | 62.6                 | 62.6 | 62.6 | 60.8 | 59.9 | 59.0 |      |
| 20              | 53.6                | 54.5 | 54.5 | 59.0 | 55.4 | 59.9 |      | 62.6                 | 61.3 | 61.3 | 57.2 | 59.5 | 59.0 |      |
| 25              | 51.8                | 52.3 | 52.7 |      | 53.6 | 59.9 |      | 60.8                 | 59.9 | 60.8 | 56.3 | 59.0 | 59.0 |      |
| 30              | 50.9                | 51.4 | 50.9 |      |      | 58.1 |      | 59.0                 | 57.2 | 59.0 | 56.3 | 58.6 |      |      |
| 35              | 50.0                | 50.5 | 50.5 |      |      |      |      | 56.3                 | 53.6 | 56.3 |      |      |      |      |
| 40              | 49.1                | 49.6 |      |      |      |      |      | 53.6                 | 51.8 | 53.6 |      |      |      |      |
| 45              | 48.2                | 48.7 |      |      |      |      |      | 52.7                 | 50.9 |      |      |      |      |      |
| 50              | 48.2                | 48.2 |      |      |      |      |      | 51.8                 | 50.0 |      |      |      |      |      |
| 55              | 47.3                | 48.2 |      |      |      |      |      | 50.9                 | 50.0 |      |      |      |      |      |
| 60              | 47.3                | 48.2 |      |      |      |      |      | 50.0                 | 49.1 |      |      |      |      |      |
| 65              | 47.3                | 48.2 |      |      |      |      |      | 49.6                 | 48.7 |      |      |      |      |      |
| 70              | 47.8                | 48.2 |      |      |      |      |      | 49.6                 | 48.7 |      |      |      |      |      |
| 75              |                     |      |      |      |      |      |      | 49.6                 |      |      |      |      |      |      |

\* KDFWR



Table 6. (continued)

| Depth<br>(feet) | May 20-21<br>(515') |      |      |      |      |      | May 24*<br>(515') |      |      |      |      |      |      |
|-----------------|---------------------|------|------|------|------|------|-------------------|------|------|------|------|------|------|
|                 | 1                   | 2    | 3    | 4    | 5    | T    | A                 | B    | C    | D    | E    | F    | T    |
| 0               | 71.1                | 69.8 | 70.0 | 71.6 | 62.8 | 53.5 | 64.4              | 71.2 | 70.3 | 70.3 | 70.7 | 71.6 | 54.5 |
| 5               | 68.9                | 69.9 | 70.0 | 71.5 |      |      | 64.0              | 71.2 | 70.3 | 69.8 | 70.7 | 64.9 |      |
| 10              | 65.8                | 65.9 | 66.3 | 68.8 |      |      | 62.2              | 70.3 | 70.3 | 68.5 | 70.3 | 64.0 |      |
| 15              | 62.9                | 63.0 | 62.4 | 64.8 |      |      | 61.3              | 65.8 | 69.8 | 62.2 | 70.3 | 62.6 |      |
| 20              | 62.5                | 61.2 | 61.0 | 61.4 |      |      | 60.4              | 62.6 | 68.9 | 59.9 | 69.8 | 62.2 |      |
| 25              | 61.5                | 61.0 | 59.9 | 59.4 |      |      | 59.5              | 61.3 | 62.6 | 59.5 | 62.6 | 62.2 |      |
| 30              | 60.6                | 61.0 | 59.0 | 58.5 |      |      | 59.0              | 59.9 | 60.8 | 59.9 | 62.2 |      |      |
| 35              | 60.0                | 59.3 | 58.9 | 58.0 |      |      | 59.0              | 59.0 | 59.9 |      |      |      |      |
| 40              | 59.5                | 58.9 | 58.2 | 57.8 |      |      | 59.0              | 59.0 | 58.6 |      |      |      |      |
| 45              | 59.0                | 58.5 | 58.0 | 57.6 |      |      | 58.6              | 58.1 |      |      |      |      |      |
| 50              | 58.5                | 58.0 | 57.7 |      |      |      | 58.1              | 57.7 |      |      |      |      |      |
| 55              | 57.7                | 56.2 | 55.0 |      |      |      | 57.7              | 57.2 |      |      |      |      |      |
| 60              | 55.1                | 52.5 | 51.8 |      |      |      | 57.2              | 56.3 |      |      |      |      |      |
| 65              | 53.1                | 51.0 |      |      |      |      | 56.3              | 53.2 |      |      |      |      |      |
| 70              | 51.5                | 50.1 |      |      |      |      | 55.4              | 52.7 |      |      |      |      |      |
| 75              | 50.2                | 49.9 |      |      |      |      |                   |      |      |      |      |      |      |
| 80              | 50.0                | 49.8 |      |      |      |      |                   |      |      |      |      |      |      |
| 85              | 49.4                | 49.8 |      |      |      |      |                   |      |      |      |      |      |      |
| 90              | 49.1                | 49.5 |      |      |      |      |                   |      |      |      |      |      |      |
| 95              | 49.1                |      |      |      |      |      |                   |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | June 8-9*<br>(515') |      |      |      |      |      |      | June 17-18<br>(515') |      |      |      |      |      |
|-----------------|---------------------|------|------|------|------|------|------|----------------------|------|------|------|------|------|
|                 | A                   | B    | C    | D    | E    | F    | T    | 1                    | 2    | 3    | 4    | 5    | T    |
| 0               | 76.1                | 78.8 | 80.6 | 82.4 | 82.4 | 84.2 | 58.6 | 84.0                 | 80.5 | 82.2 | 83.1 | 68.2 | 59.0 |
| 5               | 76.1                | 77.0 | 78.8 | 79.3 | 79.7 | 81.1 |      | 83.1                 | 80.5 | 81.8 | 81.1 |      |      |
| 10              | 74.8                | 73.0 | 70.3 | 71.6 | 71.2 | 71.6 |      | 80.0                 | 78.8 | 78.2 | 74.0 |      |      |
| 15              | 68.0                | 67.6 | 67.1 | 67.6 | 67.1 | 70.3 |      | 70.5                 | 70.0 | 70.0 | 69.2 |      |      |
| 20              | 64.9                | 65.3 | 64.9 | 65.8 | 64.9 | 69.4 |      | 67.8                 | 67.4 | 68.3 | 67.5 |      |      |
| 25              | 60.4                | 62.2 | 62.2 | 63.5 | 62.6 | 67.1 |      | 65.3                 | 64.8 | 64.7 | 64.5 |      |      |
| 30              | 59.9                | 60.8 | 60.8 |      | 62.2 |      |      | 63.4                 | 62.3 | 62.9 | 62.7 |      |      |
| 35              | 59.0                | 59.9 | 59.9 |      |      |      |      | 61.9                 | 61.0 | 61.1 | 61.5 |      |      |
| 40              | 59.0                | 59.0 | 59.9 |      |      |      |      | 60.9                 | 60.3 | 59.9 | 60.8 |      |      |
| 45              | 58.6                | 59.0 |      |      |      |      |      | 60.0                 | 59.6 | 59.2 | 60.2 |      |      |
| 50              | 58.1                | 58.6 |      |      |      |      |      | 59.3                 | 59.0 | 58.9 | 60.0 |      |      |
| 55              | 57.7                | 58.1 |      |      |      |      |      | 59.0                 | 58.8 | 58.2 |      |      |      |
| 60              | 57.7                |      |      |      |      |      |      | 58.8                 | 58.2 | 58.0 |      |      |      |
| 65              | 57.2                |      |      |      |      |      |      | 58.3                 | 57.7 | 57.9 |      |      |      |
| 70              | 57.2                |      |      |      |      |      |      | 58.1                 | 57.1 |      |      |      |      |
| 75              |                     |      |      |      |      |      |      | 57.3                 | 56.5 |      |      |      |      |
| 80              |                     |      |      |      |      |      |      | 56.5                 | 56.0 |      |      |      |      |
| 85              |                     |      |      |      |      |      |      | 55.9                 | 55.5 |      |      |      |      |
| 90              |                     |      |      |      |      |      |      | 54.1                 | 53.6 |      |      |      |      |
| 95              |                     |      |      |      |      |      |      | 52.1                 |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | June 23*<br>(515') |      |      |      |      |      |      | July 6*<br>(515') |      |      |      |      |      |      |
|-----------------|--------------------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|
|                 | A                  | B    | C    | D    | E    | F    | T    | A                 | B    | C    | D    | E    | F    | T    |
| 0               | 85.1               | 86.0 | 86.0 | 86.9 | 85.1 | 85.6 | 59.5 | 85.1              | 86.0 | 86.0 | 88.3 | 87.8 | 87.8 | 62.2 |
| 5               | 83.8               | 84.2 | 82.4 | 83.8 | 81.5 | 68.0 |      | 82.4              | 83.3 | 82.0 | 84.2 | 84.2 | 83.3 |      |
| 10              | 80.6               | 80.6 | 81.1 | 80.6 | 78.8 | 67.1 |      | 81.1              | 82.0 | 73.9 | 82.4 | 83.3 | 81.1 |      |
| 15              | 73.4               | 72.5 | 72.5 | 71.6 | 73.4 | 66.7 |      | 77.0              | 75.7 | 71.2 | 78.4 | 74.8 | 73.4 |      |
| 20              | 68.0               | 68.0 | 68.0 | 67.1 | 69.4 | 66.7 |      | 70.3              | 68.9 | 67.6 | 73.0 | 71.2 | 73.0 |      |
| 25              | 65.8               | 66.2 | 65.3 | 64.9 | 67.1 | 66.7 |      | 68.0              | 66.2 | 67.1 | 69.4 | 68.0 | 73.0 |      |
| 30              | 63.5               | 63.5 | 62.6 |      | 64.9 |      |      | 65.3              | 64.4 | 64.9 |      | 66.7 |      |      |
| 35              | 62.6               | 61.7 | 60.8 |      |      |      |      | 64.0              | 63.1 | 63.5 |      | 66.7 |      |      |
| 40              | 60.8               | 60.8 | 60.4 |      |      |      |      | 62.2              | 61.3 | 64.0 |      |      |      |      |
| 45              | 59.9               | 59.9 |      |      |      |      |      | 60.8              | 60.8 |      |      |      |      |      |
| 50              | 59.5               | 59.0 |      |      |      |      |      | 60.4              | 60.8 |      |      |      |      |      |
| 55              | 59.5               | 58.6 |      |      |      |      |      | 59.9              |      |      |      |      |      |      |
| 60              | 59.0               | 58.1 |      |      |      |      |      | 59.0              |      |      |      |      |      |      |
| 65              | 58.6               |      |      |      |      |      |      | 59.0              |      |      |      |      |      |      |
| 70              | 58.1               |      |      |      |      |      |      | 61.7              |      |      |      |      |      |      |

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\* KDFWR

Table 6. (continued)

| Depth<br>(feet) | July 15-16<br>(515') |      |      |      |      |      | July 20-22*<br>(516') |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|
|                 | 1                    | 2    | 3    | 4    | 5    | T    | A                     | B    | C    | D    | E    | F    | T    |
| 0               | 81.0                 | 83.1 | 83.0 | 83.1 | 66.2 | 59.0 | 83.3                  | 85.1 | 84.7 | 86.0 | 84.2 | 82.9 | 62.6 |
| 5               | 81.0                 | 83.0 | 83.0 | 83.0 |      |      | 82.4                  | 82.9 | 82.9 | 83.3 | 82.4 | 73.4 |      |
| 10              | 81.0                 | 82.9 | 82.1 | 82.9 |      |      | 82.0                  | 82.0 | 81.5 | 81.5 | 81.1 | 68.9 |      |
| 15              | 78.0                 | 79.9 | 78.5 | 80.0 |      |      | 80.6                  | 81.1 | 81.1 | 79.3 | 79.3 | 68.5 |      |
| 20              | 72.5                 | 72.9 | 72.8 | 75.1 |      |      | 77.0                  | 77.9 | 77.0 | 74.3 | 73.9 | 68.5 |      |
| 25              | 69.4                 | 68.8 | 68.6 | 70.3 |      |      | 71.6                  | 73.0 | 71.6 | 70.7 | 71.6 | 68.5 |      |
| 30              | 66.8                 | 66.0 | 66.4 | 67.1 |      |      | 69.4                  | 69.8 | 68.9 |      | 69.8 |      |      |
| 35              | 64.7                 | 64.0 | 64.4 | 65.0 |      |      | 67.1                  | 67.1 | 66.7 |      | 69.8 |      |      |
| 40              | 62.8                 | 62.5 | 63.9 | 63.9 |      |      | 65.8                  | 65.3 | 65.3 |      |      |      |      |
| 45              | 61.5                 | 61.2 | 61.0 | 62.2 |      |      | 64.0                  | 63.5 |      |      |      |      |      |
| 50              | 60.8                 | 60.1 | 60.5 | 61.9 |      |      | 62.6                  | 62.6 |      |      |      |      |      |
| 55              | 60.2                 | 60.1 | 60.0 |      |      |      | 61.7                  | 61.7 |      |      |      |      |      |
| 60              | 59.9                 | 59.5 | 59.2 |      |      |      | 60.8                  |      |      |      |      |      |      |
| 65              | 59.3                 | 59.0 |      |      |      |      | 60.8                  |      |      |      |      |      |      |
| 70              | 58.8                 | 58.5 |      |      |      |      | 59.5                  |      |      |      |      |      |      |
| 75              | 58.5                 | 57.9 |      |      |      |      |                       |      |      |      |      |      |      |
| 80              | 57.9                 | 57.6 |      |      |      |      |                       |      |      |      |      |      |      |
| 85              | 57.3                 | 57.1 |      |      |      |      |                       |      |      |      |      |      |      |
| 90              | 56.5                 | 56.1 |      |      |      |      |                       |      |      |      |      |      |      |
| 95              | 55.0                 |      |      |      |      |      |                       |      |      |      |      |      |      |
| 100             | 54.1                 |      |      |      |      |      |                       |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | July 29-30<br>(515') |      |      |      |      |      | August 6*<br>(515') |      |      |      |      |      |      |
|-----------------|----------------------|------|------|------|------|------|---------------------|------|------|------|------|------|------|
|                 | 1                    | 2    | 3    | 4    | 5    | T    | A                   | B    | C    | D    | E    | F    | T    |
| 0               | 79.2                 | 79.9 | 79.9 | 80.0 | 68.8 | 59.8 | 80.6                | 79.7 | 79.3 | 80.6 | 79.3 | 74.3 | 64.4 |
| 5               | 79.8                 | 80.0 | 79.9 | 80.1 |      |      | 80.2                | 79.3 | 78.8 | 78.8 | 77.9 | 68.9 |      |
| 10              | 79.8                 | 80.0 | 79.9 | 80.1 |      |      | 78.8                | 78.4 | 77.9 | 77.5 | 77.0 | 68.0 |      |
| 15              | 79.5                 | 80.0 | 79.9 | 79.9 |      |      | 78.4                | 77.9 | 77.5 | 77.0 | 76.6 | 68.0 |      |
| 20              | 74.9                 | 75.2 | 75.5 | 75.9 |      |      | 77.9                | 77.5 | 77.0 | 74.3 | 74.3 | 68.0 |      |
| 25              | 71.2                 | 72.0 | 71.1 | 70.9 |      |      | 73.4                | 73.4 | 73.4 | 71.6 | 71.2 | 67.1 |      |
| 30              | 69.7                 | 70.3 | 69.2 | 69.2 |      |      | 69.8                | 69.8 | 69.8 | 69.8 | 70.3 | 66.7 |      |
| 35              | 68.3                 | 68.9 | 68.5 | 68.4 |      |      | 68.9                | 68.0 | 68.0 |      | 68.0 |      |      |
| 40              | 66.7                 | 67.5 | 67.0 | 68.2 |      |      | 68.0                | 67.6 | 67.6 |      |      |      |      |
| 45              | 65.1                 | 65.9 | 65.1 | 67.8 |      |      | 67.1                | 66.2 |      |      |      |      |      |
| 50              | 64.0                 | 64.1 | 63.5 | 63.7 |      |      | 66.2                | 64.9 |      |      |      |      |      |
| 55              | 62.9                 | 62.9 | 62.4 |      |      |      | 64.4                | 63.5 |      |      |      |      |      |
| 60              | 61.9                 | 61.7 | 61.3 |      |      |      | 63.5                |      |      |      |      |      |      |
| 65              | 61.1                 | 60.5 | 60.5 |      |      |      | 62.6                |      |      |      |      |      |      |
| 70              | 60.1                 | 59.9 | 59.5 |      |      |      | 61.7                |      |      |      |      |      |      |
| 75              | 59.5                 | 58.8 |      |      |      |      |                     |      |      |      |      |      |      |
| 80              | 58.9                 | 58.8 |      |      |      |      |                     |      |      |      |      |      |      |
| 85              | 58.0                 | 58.7 |      |      |      |      |                     |      |      |      |      |      |      |
| 90              | 57.7                 |      |      |      |      |      |                     |      |      |      |      |      |      |
| 95              | 56.9                 |      |      |      |      |      |                     |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | August 12-13<br>(515') |      |      |      |      |      | August 16-19*<br>(515') |      |      |      |      |      |      |
|-----------------|------------------------|------|------|------|------|------|-------------------------|------|------|------|------|------|------|
|                 | 1                      | 2    | 3    | 4    | 5    | T    | A                       | B    | C    | D    | E    | F    | T    |
| 0               | 81.0                   | 79.8 | 80.0 | 81.0 | 66.8 | 65.3 | 82.4                    | 82.4 | 81.5 | 83.8 | 82.4 | 82.4 | 62.6 |
| 5               | 80.9                   | 79.8 | 80.0 | 80.5 |      |      | 82.4                    | 82.4 | 81.5 | 82.0 | 81.5 | 80.2 |      |
| 10              | 80.1                   | 79.8 | 79.9 | 80.0 |      |      | 82.0                    | 82.4 | 80.6 | 80.6 | 80.6 | 77.0 |      |
| 15              | 80.0                   | 79.2 | 79.8 | 78.1 |      |      | 81.1                    | 81.5 | 79.7 | 78.4 | 78.8 | 70.3 |      |
| 20              | 79.3                   | 76.9 | 75.7 | 74.4 |      |      | 77.0                    | 77.9 | 76.6 | 76.1 | 75.7 | 70.3 |      |
| 25              | 74.0                   | 72.8 | 72.1 | 71.0 |      |      | 71.6                    | 73.0 | 71.6 | 73.0 | 72.1 | 70.3 |      |
| 30              | 71.2                   | 70.0 | 70.1 | 69.0 |      |      | 69.8                    | 69.8 | 69.8 |      | 70.3 |      |      |
| 35              | 69.8                   | 69.1 | 69.8 | 68.4 |      |      | 68.9                    | 68.9 | 68.0 |      | 69.8 |      |      |
| 40              | 68.9                   | 68.5 | 69.0 | 68.2 |      |      | 68.0                    | 68.0 | 68.0 |      |      |      |      |
| 45              | 67.7                   | 68.0 | 68.1 | 68.1 |      |      | 67.6                    | 67.6 |      |      |      |      |      |
| 50              | 66.6                   | 67.1 | 67.1 | 68.0 |      |      | 66.7                    | 66.7 |      |      |      |      |      |
| 55              | 65.7                   | 66.0 | 65.8 |      |      |      | 66.2                    | 66.2 |      |      |      |      |      |
| 60              | 65.0                   | 64.4 |      |      |      |      | 65.3                    |      |      |      |      |      |      |
| 65              | 64.3                   | 63.1 |      |      |      |      | 64.4                    |      |      |      |      |      |      |
| 70              | 63.3                   | 62.1 |      |      |      |      | 64.4                    |      |      |      |      |      |      |
| 75              | 62.0                   | 61.4 |      |      |      |      |                         |      |      |      |      |      |      |
| 80              | 61.0                   | 60.9 |      |      |      |      |                         |      |      |      |      |      |      |
| 85              | 59.9                   | 60.3 |      |      |      |      |                         |      |      |      |      |      |      |
| 90              | 59.2                   | 58.1 |      |      |      |      |                         |      |      |      |      |      |      |
| 95              | 58.3                   |      |      |      |      |      |                         |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | August 26-27<br>(515') |      |      |      |      |      | August 30-31*<br>(515') |      |      |      |      |      |      |
|-----------------|------------------------|------|------|------|------|------|-------------------------|------|------|------|------|------|------|
|                 | 1                      | 2    | 3    | 4    | 5    | T    | A                       | B    | C    | D    | E    | F    | T    |
| 0               | 79.8                   | 82.2 | 82.8 | 81.0 | 71.7 | 61.9 | 81.1                    | 81.5 | 81.5 | 82.0 | 80.6 | 82.0 | 63.1 |
| 5               | 79.9                   | 82.0 | 82.0 | 81.0 |      |      | 80.2                    | 81.1 | 81.1 | 81.1 | 80.6 | 79.3 |      |
| 10              | 79.9                   | 81.9 | 81.3 | 81.0 |      |      | 80.2                    | 80.6 | 80.2 | 79.7 | 78.8 | 77.9 |      |
| 15              | 79.9                   | 80.0 | 79.9 | 80.3 |      |      | 79.7                    | 79.7 | 79.3 | 78.8 | 78.8 | 72.5 |      |
| 20              | 76.0                   | 76.0 | 75.8 | 76.0 |      |      | 77.0                    | 77.9 | 77.0 | 75.7 | 77.0 | 70.3 |      |
| 25              | 72.3                   | 71.7 | 71.9 | 73.0 |      |      | 73.0                    | 72.5 | 72.1 | 73.4 | 71.6 | 69.8 |      |
| 30              | 70.0                   | 69.8 | 69.9 | 71.0 |      |      | 69.8                    | 69.8 | 69.8 |      | 70.7 |      |      |
| 35              | 69.1                   | 69.0 | 68.9 | 70.0 |      |      | 68.5                    | 68.9 | 69.4 |      | 70.7 |      |      |
| 40              | 68.5                   | 68.5 | 68.5 | 69.3 |      |      | 68.0                    | 68.0 | 68.9 |      |      |      |      |
| 45              | 67.9                   | 68.0 | 68.0 | 68.3 |      |      | 67.6                    | 67.6 |      |      |      |      |      |
| 50              | 67.0                   | 67.5 | 67.2 | 67.8 |      |      | 67.1                    | 67.1 |      |      |      |      |      |
| 55              | 66.5                   | 66.7 | 66.7 |      |      |      | 67.1                    | 66.7 |      |      |      |      |      |
| 60              | 65.8                   | 65.8 | 66.0 |      |      |      | 65.8                    |      |      |      |      |      |      |
| 65              | 64.9                   | 64.8 | 65.2 |      |      |      | 64.4                    |      |      |      |      |      |      |
| 70              | 64.0                   | 63.9 | 62.0 |      |      |      | 64.0                    |      |      |      |      |      |      |
| 75              | 63.5                   | 62.7 |      |      |      |      |                         |      |      |      |      |      |      |
| 80              | 62.9                   | 62.0 |      |      |      |      |                         |      |      |      |      |      |      |
| 85              | 61.9                   | 61.8 |      |      |      |      |                         |      |      |      |      |      |      |
| 90              | 61.0                   |      |      |      |      |      |                         |      |      |      |      |      |      |
| 95              | 58.5                   |      |      |      |      |      |                         |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | September 7-8<br>(515') |      |      |      |      |      | September 21*<br>(514') |      |      |      |      |      |      |
|-----------------|-------------------------|------|------|------|------|------|-------------------------|------|------|------|------|------|------|
|                 | 1                       | 2    | 3    | 4    | 5    | T    | A                       | B    | C    | D    | E    | F    | T    |
| 0               | 79.7                    | 79.5 | 79.6 | 80.7 | 70.1 | 64.9 | 76.6                    | 76.6 | 75.2 | 76.1 | 75.2 | 73.9 | 66.2 |
| 5               | 79.7                    | 79.5 | 79.8 | 80.1 |      |      | 76.1                    | 76.1 | 75.2 | 75.7 | 75.2 | 73.4 |      |
| 10              | 79.7                    | 79.5 | 79.8 | 80.0 |      |      | 76.1                    | 76.1 | 75.2 | 74.3 | 74.3 | 72.1 |      |
| 15              | 79.5                    | 79.5 | 79.8 | 79.2 |      |      | 76.1                    | 75.2 | 75.2 | 73.9 | 74.3 | 70.3 |      |
| 20              | 77.3                    | 77.0 | 78.0 | 77.0 |      |      | 75.7                    | 75.2 | 74.3 | 73.4 | 73.9 | 68.5 |      |
| 25              | 73.6                    | 73.3 | 73.3 | 73.2 |      |      | 75.2                    | 75.2 | 74.3 | 73.4 | 73.9 | 68.5 |      |
| 30              | 71.0                    | 70.8 | 71.3 | 71.6 |      |      | 71.6                    | 72.5 | 70.7 |      | 73.0 |      |      |
| 35              | 69.8                    | 69.4 | 69.7 | 70.1 |      |      | 69.8                    | 69.8 | 69.8 |      |      |      |      |
| 40              | 69.0                    | 68.9 | 68.8 | 69.1 |      |      | 68.5                    | 68.9 | 68.9 |      |      |      |      |
| 45              | 68.4                    | 68.0 | 68.1 | 68.4 |      |      | 68.0                    | 68.0 |      |      |      |      |      |
| 50              | 67.9                    | 67.6 | 67.7 | 67.9 |      |      | 67.6                    | 68.0 |      |      |      |      |      |
| 55              | 67.1                    | 67.0 | 67.1 |      |      |      | 67.1                    | 67.6 |      |      |      |      |      |
| 60              | 66.5                    | 66.5 | 66.5 |      |      |      | 66.7                    |      |      |      |      |      |      |
| 65              | 65.9                    | 65.7 | 65.7 |      |      |      | 66.2                    |      |      |      |      |      |      |
| 70              | 65.3                    | 64.9 | 63.9 |      |      |      | 66.2                    |      |      |      |      |      |      |
| 75              | 64.8                    | 64.0 |      |      |      |      |                         |      |      |      |      |      |      |
| 80              | 63.9                    | 63.3 |      |      |      |      |                         |      |      |      |      |      |      |
| 85              | 63.0                    | 62.5 |      |      |      |      |                         |      |      |      |      |      |      |
| 90              | 61.0                    |      |      |      |      |      |                         |      |      |      |      |      |      |
| 95              | 58.5                    |      |      |      |      |      |                         |      |      |      |      |      |      |

\*KDFWR



Table 6. (continued)

| Depth<br>(feet) | September 23-24<br>(514') |      |      |      |      |      | October 13-14*<br>(513') |      |      |      |      |      |      |
|-----------------|---------------------------|------|------|------|------|------|--------------------------|------|------|------|------|------|------|
|                 | 1                         | 2    | 3    | 4    | 5    | T    | A                        | B    | C    | D    | E    | F    | T    |
| 0               | 76.1                      | 74.5 | 74.5 | 74.5 | 64.3 | 66.6 | 69.8                     | 70.3 | 72.1 | 71.2 | 70.7 | 68.0 | 68.0 |
| 5               | 75.9                      | 74.5 | 74.7 | 74.5 |      |      | 69.8                     | 70.3 | 71.6 | 69.8 | 69.8 | 65.8 |      |
| 10              | 75.8                      | 74.7 | 74.5 | 74.4 |      |      | 69.8                     | 69.8 | 69.8 | 68.9 | 68.9 | 64.4 |      |
| 15              | 75.7                      | 74.7 | 74.5 | 74.4 |      |      | 69.8                     | 69.8 | 69.8 | 68.0 | 68.5 | 58.6 |      |
| 20              | 75.5                      | 74.7 | 74.5 | 74.4 |      |      | 68.9                     | 69.8 | 69.8 | 67.1 | 68.0 | 57.2 |      |
| 25              | 75.2                      | 74.3 | 74.5 | 74.2 |      |      | 68.9                     | 69.8 | 69.8 | 64.4 | 67.1 | 57.2 |      |
| 30              | 72.0                      | 71.6 | 72.9 | 71.4 |      |      | 68.5                     | 69.8 | 69.8 |      | 66.2 |      |      |
| 35              | 70.1                      | 70.0 | 71.0 | 70.5 |      |      | 68.0                     | 69.8 | 69.4 |      |      |      |      |
| 40              | 69.4                      | 69.0 | 69.8 | 70.1 |      |      | 67.6                     | 68.0 | 68.5 |      |      |      |      |
| 45              | 69.0                      | 68.6 | 68.8 | 69.0 |      |      | 67.1                     | 67.6 |      |      |      |      |      |
| 50              | 68.3                      | 68.1 | 68.1 |      |      |      | 66.2                     | 67.1 |      |      |      |      |      |
| 55              | 68.0                      | 67.9 | 67.7 |      |      |      | 66.2                     | 66.2 |      |      |      |      |      |
| 60              | 67.7                      | 67.3 | 67.1 |      |      |      | 65.3                     |      |      |      |      |      |      |
| 65              | 67.1                      | 66.5 | 67.0 |      |      |      | 64.4                     |      |      |      |      |      |      |
| 70              | 66.6                      | 66.0 |      |      |      |      |                          |      |      |      |      |      |      |
| 75              | 65.9                      | 65.4 |      |      |      |      |                          |      |      |      |      |      |      |
| 80              | 65.2                      | 65.0 |      |      |      |      |                          |      |      |      |      |      |      |
| 85              | 64.4                      | 64.2 |      |      |      |      |                          |      |      |      |      |      |      |
| 90              | 63.2                      | 62.5 |      |      |      |      |                          |      |      |      |      |      |      |
| 95              | 59.5                      |      |      |      |      |      |                          |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | October 12-13<br>(513') |      |      |      |      |      | October 27*<br>(511') |      |      |      |      |      |      |
|-----------------|-------------------------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|
|                 | 1                       | 2    | 3    | 4    | 5    | T    | A                     | B    | C    | D    | E    | F    | T    |
| 0               | 72.9                    | 73.0 | 70.1 | 70.5 | 55.7 | 71.1 | 69.8                  | 68.9 | 68.9 | 67.1 | 68.0 | 65.8 | 68.0 |
| 5               | 71.1                    | 71.5 | 70.1 | 70.5 |      |      | 68.9                  | 68.9 | 68.9 | 67.1 | 68.0 | 64.4 |      |
| 10              | 70.9                    | 71.0 | 70.1 | 70.5 |      |      | 68.5                  | 68.9 | 68.5 | 67.1 | 68.0 | 63.1 |      |
| 15              | 70.7                    | 70.8 | 70.1 | 70.5 |      |      | 68.5                  | 68.9 | 68.5 | 66.7 | 68.0 | 62.6 |      |
| 20              | 70.5                    | 70.6 | 70.1 | 70.5 |      |      | 68.9                  | 68.5 | 68.5 | 66.2 | 67.1 | 62.6 |      |
| 25              | 70.3                    | 70.5 | 70.1 | 70.5 |      |      | 68.9                  | 68.5 | 68.0 |      | 66.7 |      |      |
| 30              | 70.3                    | 70.2 | 70.1 | 70.0 |      |      | 68.5                  | 68.5 | 68.0 |      |      |      |      |
| 35              | 70.0                    | 70.1 | 70.1 | 68.5 |      |      | 68.5                  | 68.0 | 68.0 |      |      |      |      |
| 40              | 69.4                    | 69.2 | 69.9 | 68.0 |      |      | 68.5                  | 68.0 |      |      |      |      |      |
| 45              | 68.5                    | 68.5 | 69.1 | 68.0 |      |      | 68.5                  | 68.0 |      |      |      |      |      |
| 50              | 68.0                    | 68.0 | 68.3 |      |      |      | 68.5                  |      |      |      |      |      |      |
| 55              | 67.3                    | 67.5 | 67.9 |      |      |      | 68.0                  |      |      |      |      |      |      |
| 60              | 66.8                    | 66.9 | 67.1 |      |      |      | 67.1                  |      |      |      |      |      |      |
| 65              | 66.1                    | 66.5 |      |      |      |      |                       |      |      |      |      |      |      |
| 70              | 65.7                    | 66.0 |      |      |      |      |                       |      |      |      |      |      |      |
| 75              | 65.2                    | 65.5 |      |      |      |      |                       |      |      |      |      |      |      |
| 80              | 64.9                    | 65.0 |      |      |      |      |                       |      |      |      |      |      |      |
| 85              | 64.4                    | 64.0 |      |      |      |      |                       |      |      |      |      |      |      |
| 90              | 62.5                    |      |      |      |      |      |                       |      |      |      |      |      |      |

\*KDFWR

Table 6. (continued)

| Depth<br>(feet) | November 10-12<br>(502') |      |      |      |      |      | November 30*<br>(490') |      |      |   |   |   |      |
|-----------------|--------------------------|------|------|------|------|------|------------------------|------|------|---|---|---|------|
|                 | 1                        | 2    | 3    | 4    | 5    | T    | A                      | B    | C    | D | E | F | T    |
| 0               | 63.0                     | 62.2 | 60.0 | 57.1 | 44.9 | 61.1 | 51.8                   | 50.5 | 47.3 |   |   |   | 51.8 |
| 5               |                          |      |      |      |      |      | 51.8                   | 50.5 | 47.3 |   |   |   |      |
| 10              | 62.9                     | 62.0 | 59.9 | 57.3 |      |      | 51.8                   | 50.5 | 47.3 |   |   |   |      |
| 15              |                          |      |      |      |      |      | 51.8                   | 50.5 | 47.3 |   |   |   |      |
| 20              | 62.8                     | 61.9 | 59.7 | 57.1 |      |      | 51.8                   | 50.5 |      |   |   |   |      |
| 25              |                          |      |      |      |      |      | 51.8                   | 50.5 |      |   |   |   |      |
| 30              | 62.7                     | 61.9 | 59.6 | 54.2 |      |      | 51.8                   | 50.5 |      |   |   |   |      |
| 35              |                          |      |      |      |      |      | 51.8                   | 50.5 |      |   |   |   |      |
| 40              | 62.7                     | 61.9 | 58.8 |      |      |      | 51.4                   | 50.5 |      |   |   |   |      |
| 45              |                          |      |      |      |      |      |                        |      |      |   |   |   |      |
| 50              | 62.7                     | 61.9 |      |      |      |      |                        |      |      |   |   |   |      |
| 55              |                          |      |      |      |      |      |                        |      |      |   |   |   |      |
| 60              | 62.5                     | 61.6 |      |      |      |      |                        |      |      |   |   |   |      |
| 65              |                          |      |      |      |      |      |                        |      |      |   |   |   |      |
| 70              | 62.5                     |      |      |      |      |      |                        |      |      |   |   |   |      |
| 75              |                          |      |      |      |      |      |                        |      |      |   |   |   |      |
| 80              | 62.3                     |      |      |      |      |      |                        |      |      |   |   |   |      |

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Table 6. (continued)

| Depth<br>(feet) | December 14-15<br>(485') |      |      |      |      |      |
|-----------------|--------------------------|------|------|------|------|------|
|                 | 1                        | 2    | 3    | 4    | 5    | T    |
| 0               | 51.0                     | 50.9 | 50.5 | 52.0 | 48.0 | 50.2 |
| 5               |                          |      |      |      |      |      |
| 10              | 50.1                     | 50.5 | 49.9 | 52.0 |      |      |
| 15              |                          |      |      |      |      |      |
| 20              | 49.9                     | 50.5 | 49.4 |      |      |      |
| 25              |                          |      |      |      |      |      |
| 30              | 49.0                     | 50.3 | 48.3 |      |      |      |
| 35              |                          |      |      |      |      |      |
| 40              | 48.9                     | 49.9 |      |      |      |      |
| 45              |                          | 48.5 |      |      |      |      |
| 50              | 48.8                     |      |      |      |      |      |
| 55              |                          |      |      |      |      |      |
| 60              | 48.7                     |      |      |      |      |      |

Table 7. Dissolved oxygen content at Nolin River Reservoir and its tailwater, 1971. Determinations were recorded monthly from January through November (biweekly in May, June, July, August, and October). Data not asterisked, January through December, were provided by the U. S. Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 515-490 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 17-21<br>(501') |      |      |      |      |      | January 20*<br>(497') |      |      |   |   |   |      |
|-----------------|-------------------------|------|------|------|------|------|-----------------------|------|------|---|---|---|------|
|                 | 1                       | 2    | 3    | 4    | 5    | T    | A                     | B    | C    | D | E | F | T    |
| 0               | 11.4                    | 10.7 | 10.4 | 10.7 | 10.6 | 14.4 | 15.1                  | 14.7 | 15.2 |   |   |   | 16.5 |
| 5               |                         |      |      |      |      |      | 15.1                  | 14.8 | 15.2 |   |   |   |      |
| 10              | 11.2                    | 10.7 | 10.3 | 10.6 |      |      | 15.2                  | 14.7 | 15.2 |   |   |   |      |
| 15              |                         |      |      |      |      |      | 15.2                  | 14.8 | 15.2 |   |   |   |      |
| 20              | 11.0                    | 10.6 | 10.2 | 10.6 |      |      | 15.1                  | 14.9 | 15.3 |   |   |   |      |
| 25              |                         |      |      |      |      |      | 15.2                  | 15.0 |      |   |   |   |      |
| 30              | 11.0                    | 10.6 | 10.2 |      |      |      | 15.2                  | 15.1 |      |   |   |   |      |
| 35              |                         |      |      |      |      |      | 15.3                  | 15.1 |      |   |   |   |      |
| 40              | 10.9                    | 10.5 | 10.2 |      |      |      | 15.2                  | 15.2 |      |   |   |   |      |
| 45              |                         |      |      |      |      |      | 15.2                  |      |      |   |   |   |      |
| 50              | 10.9                    | 10.4 | 10.1 |      |      |      | 15.2                  |      |      |   |   |   |      |
| 55              |                         |      |      |      |      |      | 15.3                  |      |      |   |   |   |      |
| 60              | 10.9                    | 10.4 |      |      |      |      | 12.2                  |      |      |   |   |   |      |
| 65              |                         |      |      |      |      |      |                       |      |      |   |   |   |      |
| 70              | 10.9                    |      |      |      |      |      |                       |      |      |   |   |   |      |

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Table 7. (continued)

| Depth<br>(feet) | February 16-17<br>(492') |      |      |      |      |   | February 25-March 1*<br>(502') |      |      |   |   |   |      |
|-----------------|--------------------------|------|------|------|------|---|--------------------------------|------|------|---|---|---|------|
|                 | 1                        | 2    | 3    | 4    | 5    | T | A                              | B    | C    | D | E | F | T    |
| 0               | 11.8                     | 11.8 | 11.9 | 12.7 | 12.6 |   | 9.6                            | 9.0  | 10.0 |   |   |   | 11.8 |
| 5               |                          |      |      |      |      |   | 9.8                            | 9.4  | 10.3 |   |   |   |      |
| 10              | 11.8                     | 11.7 | 11.8 | 12.6 |      |   | 9.9                            | 9.6  | 10.2 |   |   |   |      |
| 15              |                          |      |      |      |      |   | 9.9                            | 9.6  | 9.9  |   |   |   |      |
| 20              | 11.8                     | 11.7 | 11.8 | 12.6 |      |   | 9.9                            | 9.7  | 9.9  |   |   |   |      |
| 25              |                          |      |      |      |      |   | 9.9                            | 10.0 |      |   |   |   |      |
| 30              | 11.8                     | 11.7 | 11.8 |      |      |   | 10.0                           | 10.1 |      |   |   |   |      |
| 35              |                          |      |      |      |      |   | 10.0                           | 10.0 |      |   |   |   |      |
| 40              | 12.0                     | 11.7 | 11.8 |      |      |   | 10.1                           | 9.6  |      |   |   |   |      |
| 45              |                          |      |      |      |      |   | 10.1                           |      |      |   |   |   |      |
| 50              | 12.0                     | 11.6 |      |      |      |   | 10.1                           |      |      |   |   |   |      |
| 55              |                          | 11.5 |      |      |      |   |                                |      |      |   |   |   |      |
| 60              | 12.0                     |      |      |      |      |   |                                |      |      |   |   |   |      |
| 65              |                          |      |      |      |      |   |                                |      |      |   |   |   |      |
| 70              | 12.0                     |      |      |      |      |   |                                |      |      |   |   |   |      |

Table 7. (continued)

| Depth<br>(feet) | March 22-23<br>(495') |      |      |      |      |      | April 20<br>(506') |      |      |      |      |      |
|-----------------|-----------------------|------|------|------|------|------|--------------------|------|------|------|------|------|
|                 | 1                     | 2    | 3    | 4    | 5    | T    | 1                  | 2    | 3    | 4    | 5    | T    |
| 0               | 10.5                  | 11.0 | 10.6 | 11.7 | 12.8 | 12.8 | 12.0               | 12.6 | 12.2 | 12.8 | 13.4 | 13.2 |
| 5               |                       |      |      |      |      |      | 12.7               | 13.0 | 13.2 | 13.2 |      |      |
| 10              |                       |      |      |      |      |      | 12.8               | 13.7 | 14.6 | 13.3 |      |      |
| 15              |                       |      |      |      |      |      | 12.6               | 13.1 | 12.0 | 9.0  |      |      |
| 20              |                       | 11.0 |      | 11.4 |      |      | 11.2               | 12.0 | 10.5 | 8.4  |      |      |
| 25              |                       |      |      |      |      |      | 10.2               | 11.0 | 10.2 | 8.1  |      |      |
| 30              | 10.2                  |      | 10.2 |      |      |      | 10.0               | 10.8 | 9.9  | 7.9  |      |      |
| 35              |                       |      |      |      |      |      | 9.1                | 10.2 | 9.4  | 7.8  |      |      |
| 40              |                       | 11.0 |      |      |      |      | 9.0                | 9.8  | 9.3  |      |      |      |
| 45              |                       |      |      |      |      |      | 9.0                | 9.6  | 9.1  |      |      |      |
| 50              |                       |      |      |      |      |      | 8.5                | 9.2  |      |      |      |      |
| 55              |                       |      |      |      |      |      | 8.4                | 8.8  |      |      |      |      |
| 60              | 10.2                  |      |      |      |      |      | 8.3                | 8.6  |      |      |      |      |
| 65              |                       |      |      |      |      |      | 8.2                | 7.9  |      |      |      |      |
| 70              |                       |      |      |      |      |      | 8.0                | 7.5  |      |      |      |      |
| 75              |                       |      |      |      |      |      | 7.7                | 7.3  |      |      |      |      |
| 80              |                       |      |      |      |      |      | 7.7                | 7.3  |      |      |      |      |
| 85              |                       |      |      |      |      |      | 7.6                |      |      |      |      |      |
| 90              |                       |      |      |      |      |      | 7.1                |      |      |      |      |      |

Table 7. (continued)

| Depth<br>(feet) | April 29*<br>(508') |      |      |     |      |     |      | May 10-13*<br>(516') |     |     |      |     |     |      |
|-----------------|---------------------|------|------|-----|------|-----|------|----------------------|-----|-----|------|-----|-----|------|
|                 | A                   | B    | C    | D   | E    | F   | T    | A                    | B   | C   | D    | E   | F   | T    |
| 0               | 10.4                | 11.3 | 10.5 | 9.1 | 10.0 | 9.4 | 10.0 | 8.9                  | 8.9 | 9.3 | 10.7 | 8.7 | 8.6 | 10.2 |
| 5               | 10.5                | 11.4 | 10.6 | 8.9 | 10.1 | 8.9 |      | 8.9                  | 9.0 | 9.1 | 10.5 | 8.5 | 8.7 |      |
| 10              | 10.6                | 11.5 | 10.7 | 8.6 | 10.0 | 8.1 |      | 9.1                  | 9.0 | 9.0 | 8.4  | 6.9 | 8.7 |      |
| 15              | 13.8                | 11.4 | 10.7 | 8.2 | 8.6  | 7.5 |      | 9.1                  | 8.8 | 8.2 | 8.6  | 6.9 | 8.7 |      |
| 20              | 12.0                | 11.0 | 9.8  | 8.0 | 5.9  | 7.3 |      | 9.1                  | 8.3 | 8.2 | 8.9  | 6.8 | 8.7 |      |
| 25              | 10.4                | 9.7  | 8.5  |     | 5.5  | 7.2 |      | 9.1                  | 8.2 | 8.0 | 9.0  | 6.7 | 8.7 |      |
| 30              | 9.8                 | 9.4  | 6.7  |     |      | 5.9 |      | 9.1                  | 8.1 | 7.8 | 9.0  | 6.7 |     |      |
| 35              | 9.3                 | 8.8  | 5.2  |     |      |     |      | 9.5                  | 8.2 | 7.2 |      |     |     |      |
| 40              | 9.2                 | 8.0  |      |     |      |     |      | 9.5                  | 8.0 | 5.1 |      |     |     |      |
| 45              | 9.1                 | 7.7  |      |     |      |     |      | 9.2                  | 7.6 |     |      |     |     |      |
| 50              | 8.7                 | 7.2  |      |     |      |     |      | 9.0                  | 6.5 |     |      |     |     |      |
| 55              | 8.5                 | 7.1  |      |     |      |     |      | 8.9                  | 5.7 |     |      |     |     |      |
| 60              | 8.2                 | 3.8  |      |     |      |     |      | 8.6                  | 5.0 |     |      |     |     |      |
| 65              | 2.0                 | 0.3  |      |     |      |     |      | 8.3                  | 5.1 |     |      |     |     |      |
| 70              | 0.4                 | 0.3  |      |     |      |     |      | 8.3                  | 5.1 |     |      |     |     |      |
| 75              |                     |      |      |     |      |     |      | 8.3                  |     |     |      |     |     |      |

\*KDFWR



Table 7. (continued)

| Depth<br>(feet) | May 20-21<br>(515') |     |      |      |     |      | May 24*<br>(515') |      |      |     |     |      |     |
|-----------------|---------------------|-----|------|------|-----|------|-------------------|------|------|-----|-----|------|-----|
|                 | 1                   | 2   | 3    | 4    | 5   | T    | A                 | B    | C    | D   | E   | F    | T   |
| 0               | 9.8                 | 9.6 | 10.4 | 11.6 | 8.8 | 11.2 | 9.1               | 9.8  | 10.2 | 8.5 | 9.3 | 11.5 | 9.5 |
| 5               |                     |     |      |      |     |      | 9.1               | 9.9  | 10.3 | 8.7 | 9.3 | 9.2  |     |
| 10              |                     |     |      |      |     |      | 8.2               | 10.0 | 10.4 | 8.7 | 9.3 | 9.0  |     |
| 15              |                     |     |      |      |     |      | 7.2               | 9.5  | 10.5 | 7.0 | 9.3 | 8.7  |     |
| 20              |                     |     | 6.6  | 8.5  |     |      | 6.9               | 7.9  | 10.3 | 5.3 | 9.2 | 8.6  |     |
| 25              |                     |     |      |      |     |      | 6.5               | 6.3  | 6.3  | 5.2 | 5.1 | 8.5  |     |
| 30              | 7.9                 |     |      |      |     |      | 5.9               | 4.9  | 5.6  | 5.0 | 4.6 |      |     |
| 35              |                     |     |      |      |     |      | 5.1               | 4.6  | 4.6  |     |     |      |     |
| 40              |                     |     |      |      |     |      | 5.0               | 4.6  | 3.9  |     |     |      |     |
| 45              |                     |     |      | 7.0  |     |      | 4.9               | 4.5  |      |     |     |      |     |
| 50              |                     | 6.3 |      |      |     |      | 4.7               | 4.5  |      |     |     |      |     |
| 55              |                     |     |      |      |     |      | 4.6               | 4.1  |      |     |     |      |     |
| 60              |                     |     | 6.2  |      |     |      | 4.6               | 2.6  |      |     |     |      |     |
| 65              | 5.7                 |     |      |      |     |      | 2.7               | 0.6  |      |     |     |      |     |
| 70              |                     |     |      |      |     |      | 2.5               | 0.4  |      |     |     |      |     |
| 80              |                     |     |      |      |     |      |                   |      |      |     |     |      |     |
| 85              |                     |     |      |      |     |      |                   |      |      |     |     |      |     |
| 90              |                     | 5.4 |      |      |     |      |                   |      |      |     |     |      |     |
| 95              | 4.6                 |     |      |      |     |      |                   |      |      |     |     |      |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | June 8-9*<br>(515') |      |      |      |     |      |     | June 17-18<br>(515') |      |      |      |     |      |
|-----------------|---------------------|------|------|------|-----|------|-----|----------------------|------|------|------|-----|------|
|                 | A                   | B    | C    | D    | E   | F    | T   | 1                    | 2    | 3    | 4    | 5   | T    |
| 0               | 14.9                | 9.4  | 14.9 | 8.5  | 9.1 | 15.9 | 9.2 | 9.4                  | 9.4  | 9.8  | 11.8 | 8.5 | 10.2 |
| 5               | 15.0                | 9.7  | 15.1 | 8.9  | 8.5 | 9.7  |     | 9.6                  | 9.4  | 9.9  | 11.9 |     |      |
| 10              | 15.0                | 15.4 | 15.1 | 15.3 | 8.6 | 9.8  |     | 9.7                  | 10.2 | 11.2 | 9.8  |     |      |
| 15              | 7.6                 | 7.9  | 7.8  | 6.0  | 5.2 | 9.0  |     | 9.8                  | 10.4 | 9.3  | 4.9  |     |      |
| 20              | 5.7                 | 5.6  | 4.7  | 3.1  | 0.7 | 7.8  |     | 7.7                  | 7.4  | 5.3  | 3.5  |     |      |
| 25              | 3.8                 | 3.3  | 2.7  | 1.8  | 0.2 | 3.4  |     | 5.7                  | 3.8  | 4.5  | 3.2  |     |      |
| 30              | 3.2                 | 2.6  | 2.3  |      | 0.2 |      |     | 4.5                  | 2.5  | 3.5  | 1.4  |     |      |
| 35              | 2.7                 | 2.5  | 1.9  |      |     |      |     | 3.3                  | 2.4  | 3.5  | 0.5  |     |      |
| 40              | 2.6                 | 2.5  | 0.9  |      |     |      |     | 2.9                  | 2.4  | 3.3  | 0.5  |     |      |
| 45              | 2.9                 | 2.5  |      |      |     |      |     | 2.9                  | 2.6  | 3.3  | 0.4  |     |      |
| 50              | 3.0                 | 2.3  |      |      |     |      |     | 2.9                  | 2.9  | 2.5  | 0.4  |     |      |
| 55              | 3.0                 | 1.9  |      |      |     |      |     | 3.3                  | 2.6  | 1.8  |      |     |      |
| 60              | 3.0                 |      |      |      |     |      |     | 3.5                  | 1.9  | 1.5  |      |     |      |
| 65              | 1.4                 |      |      |      |     |      |     | 3.4                  | 1.0  | 1.3  |      |     |      |
| 70              | 0.2                 |      |      |      |     |      |     | 3.0                  | 0.5  |      |      |     |      |
| 75              |                     |      |      |      |     |      |     | 2.6                  | 0.4  |      |      |     |      |
| 80              |                     |      |      |      |     |      |     | 1.2                  | 0.4  |      |      |     |      |
| 85              |                     |      |      |      |     |      |     | 1.0                  | 0.4  |      |      |     |      |
| 90              |                     |      |      |      |     |      |     | 0.9                  | 0.4  |      |      |     |      |
| 95              |                     |      |      |      |     |      |     | 0.7                  |      |      |      |     |      |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | June 23*<br>(515') |     |     |     |     |      |     | July 6*<br>(515') |      |     |     |     |      |     |
|-----------------|--------------------|-----|-----|-----|-----|------|-----|-------------------|------|-----|-----|-----|------|-----|
|                 | A                  | B   | C   | D   | E   | F    | T   | A                 | B    | C   | D   | E   | F    | T   |
| 0               | 8.8                | 8.1 | 8.5 | 8.4 | 8.3 | 13.5 | 8.8 | 8.5               | 8.2  | 7.8 | 8.5 | 8.5 | 10.8 | 9.5 |
| 5               | 9.3                | 8.6 | 9.1 | 8.9 | 8.9 | 7.5  |     | 9.1               | 8.4  | 8.1 | 9.4 | 8.6 | 10.8 |     |
| 10              | 9.9                | 8.8 | 9.3 | 8.1 | 6.3 | 7.1  |     | 9.3               | 8.5  | 8.2 | 9.0 | 8.0 | 7.0  |     |
| 15              | 11.0               | 9.9 | 8.7 | 0.2 | 0.5 | 7.3  |     | 13.3              | 11.4 | 4.5 | 4.6 | 1.1 | 7.1  |     |
| 20              | 7.7                | 7.3 | 7.0 | 0.3 | 0.5 | 7.2  |     | 10.2              | 6.4  | 1.6 | 0.4 | 0.3 | 6.9  |     |
| 25              | 5.4                | 3.7 | 3.0 | 0.3 | 0.3 | 7.0  |     | 7.6               | 2.2  | 1.5 | 0.3 | 0.3 | 6.4  |     |
| 30              | 3.6                | 1.7 | 0.8 |     | 0.3 |      |     | 4.2               | 0.7  | 0.4 |     | 0.3 |      |     |
| 35              | 2.6                | 1.2 | 0.7 |     |     |      |     | 2.2               | 0.6  | 0.4 |     | 0.3 |      |     |
| 40              | 2.1                | 1.1 | 0.4 |     |     |      |     | 1.2               | 0.4  | 0.6 |     |     |      |     |
| 45              | 1.8                | 1.2 |     |     |     |      |     | 0.9               | 0.4  |     |     |     |      |     |
| 50              | 1.9                | 1.7 |     |     |     |      |     | 0.8               | 0.4  |     |     |     |      |     |
| 55              | 2.3                | 1.0 |     |     |     |      |     | 1.3               |      |     |     |     |      |     |
| 60              | 2.3                | 0.4 |     |     |     |      |     | 1.3               |      |     |     |     |      |     |
| 65              | 2.3                |     |     |     |     |      |     | 1.1               |      |     |     |     |      |     |
| 70              | 0.6                |     |     |     |     |      |     | 0.5               |      |     |     |     |      |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | July 15-16<br>(515') |      |     |      |     |     | July 20-22*<br>(516') |     |     |     |     |      |     |
|-----------------|----------------------|------|-----|------|-----|-----|-----------------------|-----|-----|-----|-----|------|-----|
|                 | 1                    | 2    | 3   | 4    | 5   | T   | A                     | B   | C   | D   | E   | F    | T   |
| 0               | 9.6                  | 9.0  | 9.0 | 10.2 | 8.2 | 9.8 | 8.2                   | 7.6 | 8.0 | 8.5 | 7.8 | 12.0 | 8.3 |
| 5               | 9.5                  | 8.9  | 8.8 | 10.1 |     |     | 8.4                   | 7.7 | 8.5 | 8.9 | 8.1 | 9.0  |     |
| 10              | 9.8                  | 8.9  | 8.8 | 9.8  |     |     | 8.6                   | 8.0 | 8.7 | 8.9 | 7.2 | 6.6  |     |
| 15              | 13.1                 | 11.6 | 6.8 | 3.4  |     |     | 8.6                   | 7.6 | 8.5 | 6.1 | 0.6 | 6.4  |     |
| 20              | 11.4                 | 8.0  | 2.6 | 2.4  |     |     | 10.9                  | 7.1 | 6.4 | 0.5 | 0.4 | 6.3  |     |
| 25              | 7.0                  | 5.2  | 0.4 | 0.3  |     |     | 10.1                  | 3.8 | 1.5 | 0.5 | 0.3 | 6.3  |     |
| 30              | 3.4                  | 1.9  | 0.3 | 0.3  |     |     | 7.3                   | 1.1 | 0.4 |     | 0.3 |      |     |
| 35              | 1.5                  | 0.9  | 0.3 | 0.2  |     |     | 3.7                   | 0.3 | 0.4 |     | 0.4 |      |     |
| 40              | 1.3                  | 0.5  | 0.2 | 0.2  |     |     | 1.0                   | 0.3 | 0.5 |     |     |      |     |
| 45              | 0.8                  | 0.4  | 0.2 | 0.2  |     |     | 0.3                   | 0.4 |     |     |     |      |     |
| 50              | 0.6                  | 0.4  | 0.2 | 0.2  |     |     | 0.3                   | 0.4 |     |     |     |      |     |
| 55              | 0.6                  | 0.4  | 0.2 |      |     |     | 0.3                   | 0.5 |     |     |     |      |     |
| 60              | 0.6                  | 0.3  | 0.2 |      |     |     | 0.3                   |     |     |     |     |      |     |
| 65              | 0.6                  | 0.3  |     |      |     |     | 0.4                   |     |     |     |     |      |     |
| 70              | 0.5                  | 0.3  |     |      |     |     | 0.4                   |     |     |     |     |      |     |
| 75              | 0.4                  | 0.3  |     |      |     |     |                       |     |     |     |     |      |     |
| 80              | 0.4                  | 0.2  |     |      |     |     |                       |     |     |     |     |      |     |
| 85              | 0.3                  | 0.2  |     |      |     |     |                       |     |     |     |     |      |     |
| 90              | 0.3                  | 0.2  |     |      |     |     |                       |     |     |     |     |      |     |
| 95              | 0.3                  |      |     |      |     |     |                       |     |     |     |     |      |     |
| 100             | 0.3                  |      |     |      |     |     |                       |     |     |     |     |      |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | July 29-30<br>(515') |     |     |      |     |     | August 6*<br>(515') |     |     |     |     |     |     |
|-----------------|----------------------|-----|-----|------|-----|-----|---------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                    | 2   | 3   | 4    | 5   | T   | A                   | B   | C   | D   | E   | F   | T   |
| 0               | 9.7                  | 9.7 | 9.3 | 11.8 | 7.8 | 9.6 | 8.6                 | 7.5 | 7.8 | 8.5 | 8.4 | 9.0 | 8.6 |
| 5               | 9.7                  | 9.7 | 9.3 | 11.8 |     |     | 8.7                 | 7.6 | 7.7 | 8.5 | 9.3 | 6.4 |     |
| 10              | 9.7                  | 9.7 | 9.3 | 11.8 |     |     | 8.9                 | 7.7 | 7.8 | 7.8 | 8.5 | 6.4 |     |
| 15              | 9.7                  | 9.7 | 9.3 | 10.2 |     |     | 8.8                 | 7.6 | 7.6 | 6.8 | 7.3 | 6.4 |     |
| 20              | 12.6                 | 6.7 | 0.8 | 3.9  |     |     | 8.8                 | 7.4 | 5.5 | 5.4 | 0.3 | 6.4 |     |
| 25              | 7.6                  | 1.3 | 0.3 | 5.3  |     |     | 7.6                 | 1.1 | 0.3 | 2.5 | 0.3 | 6.3 |     |
| 30              | 5.4                  | 0.4 | 0.3 | 5.2  |     |     | 3.6                 | 0.3 | 0.3 | 0.6 | 0.3 | 5.8 |     |
| 35              | 2.6                  | 0.3 | 0.2 | 2.2  |     |     | 2.0                 | 0.3 | 0.4 |     | 0.9 |     |     |
| 40              | 0.4                  | 0.3 | 0.2 | 2.0  |     |     | 0.3                 | 0.3 | 0.6 |     |     |     |     |
| 45              | 0.3                  | 0.3 | 0.2 | 0.5  |     |     | 0.3                 | 0.4 |     |     |     |     |     |
| 50              | 0.2                  | 0.2 | 0.2 | 0.3  |     |     | 0.3                 | 0.4 |     |     |     |     |     |
| 55              | 0.2                  | 0.2 | 0.2 |      |     |     | 0.3                 | 0.5 |     |     |     |     |     |
| 60              | 0.2                  | 0.2 | 0.2 |      |     |     | 0.4                 |     |     |     |     |     |     |
| 65              | 0.2                  | 0.2 | 0.2 |      |     |     | 0.4                 |     |     |     |     |     |     |
| 70              | 0.2                  | 0.2 | 0.2 |      |     |     | 0.3                 |     |     |     |     |     |     |
| 75              | 0.2                  | 0.2 |     |      |     |     |                     |     |     |     |     |     |     |
| 80              | 0.2                  | 0.2 |     |      |     |     |                     |     |     |     |     |     |     |
| 85              | 0.2                  | 0.2 |     |      |     |     |                     |     |     |     |     |     |     |
| 90              | 0.2                  |     |     |      |     |     |                     |     |     |     |     |     |     |
| 95              | 0.2                  |     |     |      |     |     |                     |     |     |     |     |     |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | August 12-13<br>(515') |     |     |      |     |     | August 16-19*<br>(515') |     |     |     |     |     |     |
|-----------------|------------------------|-----|-----|------|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                      | 2   | 3   | 4    | 5   | T   | A                       | B   | C   | D   | E   | F   | T   |
| 0               | 8.9                    | 8.3 | 8.4 | 10.8 | 8.4 | 9.5 | 8.4                     | 9.0 | 8.5 | 7.6 | 8.5 | 9.1 | 8.3 |
| 5               | 8.9                    | 8.3 | 8.5 | 10.9 |     |     | 8.5                     | 9.0 | 8.7 | 8.1 | 8.4 | 8.6 |     |
| 10              | 8.9                    | 8.3 | 8.4 | 10.2 |     |     | 8.5                     | 9.0 | 8.6 | 8.1 | 8.1 | 7.7 |     |
| 15              | 9.0                    | 8.2 | 8.3 | 4.0  |     |     | 8.5                     | 8.9 | 7.2 | 3.9 | 4.6 | 8.2 |     |
| 20              | 9.0                    | 6.0 | 1.3 | 3.0  |     |     | 8.6                     | 6.0 | 3.5 | 1.1 | 0.3 | 8.1 |     |
| 25              | 6.4                    | 0.4 | 0.4 | 4.7  |     |     | 4.4                     | 0.4 | 0.3 | 0.4 | 0.4 | 8.0 |     |
| 30              | 1.9                    | 0.3 | 1.3 | 5.1  |     |     | 0.3                     | 0.4 | 0.3 |     | 0.4 |     |     |
| 35              | 0.3                    | 0.3 | 0.4 | 4.4  |     |     | 0.3                     | 0.4 | 0.4 |     | 0.4 |     |     |
| 40              | 0.3                    | 0.3 | 0.3 | 3.8  |     |     | 0.3                     | 0.4 | 0.4 |     |     |     |     |
| 45              | 0.2                    | 0.3 | 0.2 | 2.8  |     |     | 0.3                     | 0.4 |     |     |     |     |     |
| 50              | 0.2                    | 0.2 | 0.2 | 2.8  |     |     | 0.3                     | 0.5 |     |     |     |     |     |
| 55              | 0.2                    | 0.2 | 0.2 |      |     |     | 0.3                     | 0.5 |     |     |     |     |     |
| 60              | 0.2                    | 0.2 |     |      |     |     | 0.3                     |     |     |     |     |     |     |
| 65              | 0.2                    | 0.2 |     |      |     |     | 0.4                     |     |     |     |     |     |     |
| 70              | 0.2                    | 0.2 |     |      |     |     | 0.4                     |     |     |     |     |     |     |
| 75              | 0.2                    | 0.2 |     |      |     |     |                         |     |     |     |     |     |     |
| 80              | 0.2                    | 0.2 |     |      |     |     |                         |     |     |     |     |     |     |
| 85              | 0.2                    | 0.2 |     |      |     |     |                         |     |     |     |     |     |     |
| 90              | 0.2                    | 0.2 |     |      |     |     |                         |     |     |     |     |     |     |
| 95              | 0.2                    |     |     |      |     |     |                         |     |     |     |     |     |     |

\*KDFWR

Table 7. (continued)

| Death<br>(feet) | August 26-27<br>(515') |     |     |     |     |     | August 30-31*<br>(515') |     |     |     |     |     |     |
|-----------------|------------------------|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                      | 2   | 3   | 4   | 5   | T   | A                       | B   | C   | D   | E   | F   | T   |
| 0               | 8.2                    | 8.2 | 8.5 | 9.4 | 8.2 | 8.2 | 7.9                     | 7.6 | 7.9 | 7.8 | 7.7 | 8.8 | 8.0 |
| 5               | 8.1                    | 8.1 | 8.5 | 9.3 |     |     | 8.0                     | 7.6 | 7.9 | 7.9 | 7.7 | 8.2 |     |
| 10              | 8.1                    | 8.0 | 8.4 | 9.1 |     |     | 8.0                     | 7.6 | 7.9 | 7.5 | 7.0 | 6.9 |     |
| 15              | 8.1                    | 7.0 | 8.1 | 8.3 |     |     | 8.0                     | 7.2 | 7.4 | 6.2 | 6.5 | 8.9 |     |
| 20              | 8.1                    | 3.4 | 1.4 | 0.6 |     |     | 8.2                     | 4.7 | 4.6 | 1.2 | 3.5 | 9.0 |     |
| 25              | 3.9                    | 0.7 | 0.5 | 3.1 |     |     | 4.0                     | 0.4 | 0.4 | 0.5 | 0.4 | 8.5 |     |
| 30              | 0.6                    | 0.3 | 0.4 | 2.2 |     |     | 0.3                     | 0.3 | 0.4 |     | 0.4 |     |     |
| 35              | 0.6                    | 0.3 | 0.3 | 0.5 |     |     | 0.3                     | 0.3 | 0.4 |     | 0.6 |     |     |
| 40              | 0.9                    | 0.3 | 0.3 | 0.4 |     |     | 0.3                     | 0.3 | 0.5 |     |     |     |     |
| 45              | 0.5                    | 0.2 | 0.3 | 0.4 |     |     | 0.3                     | 0.3 |     |     |     |     |     |
| 50              | 0.5                    | 0.2 | 0.3 | 0.4 |     |     | 0.3                     | 0.4 |     |     |     |     |     |
| 55              | 0.5                    | 0.2 | 0.3 |     |     |     | 0.4                     | 0.4 |     |     |     |     |     |
| 60              | 0.5                    | 0.2 | 0.2 |     |     |     | 0.3                     |     |     |     |     |     |     |
| 65              | 0.5                    | 0.2 | 0.2 |     |     |     | 0.3                     |     |     |     |     |     |     |
| 70              | 0.5                    | 0.2 | 0.2 |     |     |     | 0.3                     |     |     |     |     |     |     |
| 75              | 0.5                    | 0.2 |     |     |     |     |                         |     |     |     |     |     |     |
| 80              | 0.4                    | 0.2 |     |     |     |     |                         |     |     |     |     |     |     |
| 85              | 0.4                    | 0.2 |     |     |     |     |                         |     |     |     |     |     |     |
| 90              | 0.4                    |     |     |     |     |     |                         |     |     |     |     |     |     |
| 95              | 0.4                    |     |     |     |     |     |                         |     |     |     |     |     |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | September 7-8<br>(515') |     |     |     |     |     | September 21*<br>(514') |     |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | T   | A                       | B   | C   | D   | E   | F   | T   |
| 0               | 8.6                     | 8.0 | 8.0 | 8.7 | 7.3 | 8.9 | 7.4                     | 6.8 | 6.8 | 7.2 | 5.8 | 9.3 | 7.9 |
| 5               | 8.6                     | 8.0 | 8.0 | 8.6 |     |     | 7.4                     | 6.7 | 6.7 | 7.1 | 5.8 | 8.4 |     |
| 10              | 8.6                     | 8.0 | 7.9 | 8.4 |     |     | 7.4                     | 6.7 | 6.6 | 7.2 | 5.2 | 7.0 |     |
| 15              | 8.5                     | 8.0 | 7.9 | 6.2 |     |     | 7.5                     | 6.6 | 6.5 | 6.9 | 5.3 | 5.6 |     |
| 20              | 7.2                     | 3.0 | 3.1 | 0.6 |     |     | 7.3                     | 6.6 | 6.4 | 6.6 | 5.0 | 6.0 |     |
| 25              | 3.0                     | 0.4 | 0.5 | 1.3 |     |     | 7.0                     | 6.6 | 5.7 | 6.1 | 4.8 | 5.6 |     |
| 30              | 0.4                     | 0.4 | 0.5 | 1.7 |     |     | 0.4                     | 0.3 | 0.3 |     | 0.5 |     |     |
| 35              | 0.3                     | 0.4 | 0.5 | 0.4 |     |     | 0.3                     | 0.3 | 0.4 |     |     |     |     |
| 40              | 0.3                     | 0.4 | 0.4 | 0.4 |     |     | 0.3                     | 0.3 | 0.4 |     |     |     |     |
| 45              | 0.3                     | 0.4 | 0.3 | 0.3 |     |     | 0.3                     | 0.3 |     |     |     |     |     |
| 50              | 0.3                     | 0.4 | 0.3 | 0.3 |     |     | 0.3                     | 0.3 |     |     |     |     |     |
| 55              | 0.2                     | 0.4 | 0.3 |     |     |     | 0.3                     | 0.4 |     |     |     |     |     |
| 60              | 0.2                     | 0.4 | 0.3 |     |     |     | 0.3                     |     |     |     |     |     |     |
| 65              | 0.2                     | 0.4 | 0.3 |     |     |     | 0.3                     |     |     |     |     |     |     |
| 70              | 0.2                     | 0.3 | 0.3 |     |     |     | 0.3                     |     |     |     |     |     |     |
| 75              | 0.2                     | 0.3 |     |     |     |     |                         |     |     |     |     |     |     |
| 80              | 0.2                     | 0.3 |     |     |     |     |                         |     |     |     |     |     |     |
| 85              | 0.2                     | 0.3 |     |     |     |     |                         |     |     |     |     |     |     |
| 90              | 0.2                     |     |     |     |     |     |                         |     |     |     |     |     |     |
| 95              | 0.4                     |     |     |     |     |     |                         |     |     |     |     |     |     |

\*KDFWR



Table 7. (continued)

| Depth<br>(feet) | September 23-24<br>(514') |     |     |     |     |     | October 13-14*<br>(513') |      |     |     |     |     |     |
|-----------------|---------------------------|-----|-----|-----|-----|-----|--------------------------|------|-----|-----|-----|-----|-----|
|                 | 1                         | 2   | 3   | 4   | 5   | T   | A                        | B    | C   | D   | E   | F   | T   |
| 0               | 7.9                       | 8.0 | 6.8 | 6.9 | 8.0 | 8.7 | 12.0                     | 13.1 | 5.9 | 7.5 | 6.6 | 9.3 | 8.5 |
| 5               | 7.9                       | 7.9 | 6.7 | 6.8 |     |     | 11.5                     | 12.6 | 5.3 | 7.1 | 6.6 | 8.9 |     |
| 10              | 8.0                       | 7.9 | 6.7 | 6.8 |     |     | 11.0                     | 12.1 | 5.7 | 7.3 | 6.3 | 9.3 |     |
| 15              | 7.8                       | 7.8 | 6.6 | 6.5 |     |     | 11.0                     | 11.6 | 5.7 | 7.3 | 6.4 | 8.0 |     |
| 20              | 7.1                       | 7.8 | 6.6 | 6.4 |     |     | 11.0                     | 11.1 | 5.7 | 6.9 | 6.4 | 7.7 |     |
| 25              | 6.2                       | 7.2 | 5.9 | 6.4 |     |     | 10.8                     | 10.1 | 5.7 | 5.7 | 5.5 | 7.4 |     |
| 30              | 0.3                       | 0.4 | 0.4 | 1.6 |     |     | 8.9                      | 10.1 | 5.4 |     | 5.3 |     |     |
| 35              | 0.1                       | 0.0 | 0.0 | 0.2 |     |     | 0.0                      | 9.1  | 5.5 |     |     |     |     |
| 40              | 0.1                       | 0.0 | 0.0 | 0.0 |     |     | 0.0                      | 0.0  | 4.2 |     |     |     |     |
| 45              | 0.1                       | 0.0 | 0.0 | 0.0 |     |     | 0.0                      | 0.0  |     |     |     |     |     |
| 50              | 0.0                       | 0.0 | 0.0 |     |     |     | 0.0                      | 0.0  |     |     |     |     |     |
| 55              | 0.0                       | 0.0 | 0.0 |     |     |     | 0.0                      | 0.0  |     |     |     |     |     |
| 60              | 0.0                       | 0.0 | 0.0 |     |     |     | 0.0                      |      |     |     |     |     |     |
| 65              | 0.0                       | 0.0 | 0.0 |     |     |     | 0.0                      |      |     |     |     |     |     |
| 70              | 0.0                       | 0.0 |     |     |     |     |                          |      |     |     |     |     |     |
| 75              | 0.0                       | 0.0 |     |     |     |     |                          |      |     |     |     |     |     |
| 80              | 0.0                       | 0.0 |     |     |     |     |                          |      |     |     |     |     |     |
| 85              | 0.0                       | 0.0 |     |     |     |     |                          |      |     |     |     |     |     |
| 90              | 0.0                       | 0.0 |     |     |     |     |                          |      |     |     |     |     |     |
| 95              | 0.0                       |     |     |     |     |     |                          |      |     |     |     |     |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | October 12-13<br>(513') |     |     |     |     |     | October 27*<br>(511') |     |     |     |     |      |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----------------------|-----|-----|-----|-----|------|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | T   | A                     | B   | C   | D   | E   | F    | T   |
| 0               | 5.8                     | 6.9 | 6.0 | 6.1 | 9.9 | 8.9 | 6.4                   | 6.4 | 7.0 | 8.6 | 7.5 | 10.2 | 8.3 |
| 5               | 6.0                     | 6.7 | 6.0 | 6.1 |     |     | 5.8                   | 6.4 | 6.8 | 8.6 | 7.2 | 8.6  |     |
| 10              | 5.8                     | 6.6 | 6.0 | 5.9 |     |     | 5.7                   | 6.3 | 6.8 | 8.4 | 7.2 | 7.3  |     |
| 15              | 5.7                     | 6.6 | 5.9 | 5.9 |     |     | 5.7                   | 6.0 | 6.8 | 8.3 | 7.0 | 6.6  |     |
| 20              | 5.7                     | 6.5 | 5.9 | 5.9 |     |     | 5.7                   | 6.1 | 6.7 | 8.2 | 6.6 | 6.0  |     |
| 25              | 5.6                     | 6.3 | 5.9 | 6.0 |     |     | 5.7                   | 5.6 | 6.7 |     | 6.2 |      |     |
| 30              | 5.5                     | 6.2 | 5.9 | 4.5 |     |     | 5.6                   | 5.6 | 6.2 |     |     |      |     |
| 35              | 4.5                     | 6.1 | 5.9 | 5.1 |     |     | 5.6                   | 6.0 | 5.7 |     |     |      |     |
| 40              | 0.0                     | 1.2 | 5.9 | 5.0 |     |     | 6.1                   | 6.0 |     |     |     |      |     |
| 45              | 0.0                     | 0.0 | 4.7 | 4.0 |     |     | 6.4                   | 6.0 |     |     |     |      |     |
| 50              | 0.0                     | 0.0 | 0.3 |     |     |     | 5.4                   |     |     |     |     |      |     |
| 55              | 0.0                     | 0.0 | 0.2 |     |     |     | 0.0                   |     |     |     |     |      |     |
| 60              | 0.0                     | 0.0 | 0.2 |     |     |     | 0.0                   |     |     |     |     |      |     |
| 65              | 0.0                     | 0.0 |     |     |     |     |                       |     |     |     |     |      |     |
| 70              | 0.0                     | 0.0 |     |     |     |     |                       |     |     |     |     |      |     |
| 75              | 0.0                     | 0.0 |     |     |     |     |                       |     |     |     |     |      |     |
| 80              | 0.0                     | 0.0 |     |     |     |     |                       |     |     |     |     |      |     |
| 85              | 0.0                     | 0.0 |     |     |     |     |                       |     |     |     |     |      |     |
| 90              | 0.0                     |     |     |     |     |     |                       |     |     |     |     |      |     |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | November 10-12<br>(502') |     |     |     |      |     | November 30*<br>(490') |     |     |   |   |   |      |
|-----------------|--------------------------|-----|-----|-----|------|-----|------------------------|-----|-----|---|---|---|------|
|                 | 1                        | 2   | 3   | 4   | 5    | T   | A                      | B   | C   | D | E | F | T    |
| 0               | 6.3                      | 7.0 | 8.2 | 8.0 | 11.6 | 9.8 | 7.8                    | 8.5 | 9.8 |   |   |   | 12.5 |
| 5               |                          |     |     |     |      |     | 7.8                    | 8.5 | 9.8 |   |   |   |      |
| 10              | 6.3                      | 6.9 | 8.0 | 7.8 |      |     | 7.8                    | 8.4 | 9.8 |   |   |   |      |
| 15              |                          |     |     |     |      |     | 7.8                    | 8.4 | 9.8 |   |   |   |      |
| 20              | 6.3                      | 6.7 | 7.6 | 7.1 |      |     | 7.8                    | 8.4 |     |   |   |   |      |
| 25              |                          |     |     |     |      |     | 7.8                    | 8.4 |     |   |   |   |      |
| 30              | 6.2                      | 6.7 | 7.5 | 6.3 |      |     | 7.8                    | 8.4 |     |   |   |   |      |
| 35              |                          |     |     |     |      |     | 7.8                    | 8.4 |     |   |   |   |      |
| 40              | 6.1                      | 6.7 | 7.3 |     |      |     | 8.0                    | 7.8 |     |   |   |   |      |
| 45              |                          |     | 7.3 |     |      |     |                        |     |     |   |   |   |      |
| 50              | 6.1                      | 6.7 |     |     |      |     |                        |     |     |   |   |   |      |
| 55              |                          |     |     |     |      |     |                        |     |     |   |   |   |      |
| 60              | 6.1                      | 6.5 |     |     |      |     |                        |     |     |   |   |   |      |
| 65              |                          |     |     |     |      |     |                        |     |     |   |   |   |      |
| 70              | 6.0                      |     |     |     |      |     |                        |     |     |   |   |   |      |
| 75              |                          |     |     |     |      |     |                        |     |     |   |   |   |      |
| 80              | 5.9                      |     |     |     |      |     |                        |     |     |   |   |   |      |

\*KDFWR

Table 7. (continued)

| Depth<br>(feet) | December 14-15<br>(485') |     |     |     |     |      |
|-----------------|--------------------------|-----|-----|-----|-----|------|
|                 | 1                        | 2   | 3   | 4   | 5   | T    |
| 0               | 8.5                      | 9.3 | 9.8 | 9.0 | 9.0 | 10.4 |
| 5               |                          |     |     |     |     |      |
| 10              | 8.1                      | 9.0 | 9.4 | 9.0 |     |      |
| 15              |                          |     |     |     |     |      |
| 20              | 7.9                      | 9.0 | 9.2 |     |     |      |
| 25              |                          |     |     |     |     |      |
| 30              | 7.5                      | 9.0 | 9.0 |     |     |      |
| 35              |                          |     |     |     |     |      |
| 40              | 7.3                      | 9.0 |     |     |     |      |
| 45              |                          | 8.7 |     |     |     |      |
| 50              | 7.2                      |     |     |     |     |      |
| 55              |                          |     |     |     |     |      |
| 60              | 7.2                      |     |     |     |     |      |

Table 8. Total alkalinity content at Nolin River Reservoir and its tailwater, 1971. Determinations were conducted monthly from January through November (biweekly in May, June, July, August and October). Normal summer-winter pool elevations were 515-490 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 20*<br>(497') |     |    |   |   |   |     | February 25-March 1*<br>(502') |    |    |   |   |   |     | April 29*<br>(508') |     |     |    |     |     |    |  |
|-----------------|-----------------------|-----|----|---|---|---|-----|--------------------------------|----|----|---|---|---|-----|---------------------|-----|-----|----|-----|-----|----|--|
|                 | A                     | B   | C  | D | E | F | T   | A                              | B  | C  | D | E | F | T   | A                   | B   | C   | D  | E   | F   | T  |  |
| 0               | 104                   | 78  | 77 |   |   |   | 105 | 89                             | 80 | 77 |   |   |   | 100 | 101                 | 106 | 115 | 76 | 89  | 172 | 88 |  |
| 5               |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 10              | 102                   | 78  | 78 |   |   |   |     | 87                             | 79 | 70 |   |   |   |     | 103                 | 107 | 112 | 58 | 95  | 142 |    |  |
| 15              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 20              | 103                   | 80  | 78 |   |   |   |     | 89                             | 81 | 78 |   |   |   |     | 104                 | 106 | 113 | 43 | 105 | 109 |    |  |
| 25              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 30              | 102                   | 92  |    |   |   |   |     | 90                             | 88 |    |   |   |   |     | 104                 | 109 | 112 |    |     | 107 |    |  |
| 35              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 40              | 102                   | 103 |    |   |   |   |     | 90                             | 95 |    |   |   |   |     | 104                 | 109 |     |    |     |     |    |  |
| 45              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 50              | 104                   |     |    |   |   |   |     | 93                             |    |    |   |   |   |     | 104                 | 110 |     |    |     |     |    |  |
| 55              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 60              | 105                   |     |    |   |   |   |     |                                |    |    |   |   |   |     | 104                 | 110 |     |    |     |     |    |  |
| 65              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     |                     |     |     |    |     |     |    |  |
| 70              |                       |     |    |   |   |   |     |                                |    |    |   |   |   |     | 105                 | 110 |     |    |     |     |    |  |

\*KDFWR

Table 8. (continued)

| Depth<br>(feet) | May 10-13*<br>(516') |     |     |    |    |   |     | May 24*<br>(515') |     |     |    |    |     |     | June 8-9*<br>(515') |     |     |    |    |     |     |
|-----------------|----------------------|-----|-----|----|----|---|-----|-------------------|-----|-----|----|----|-----|-----|---------------------|-----|-----|----|----|-----|-----|
|                 | A                    | B   | C   | D  | E  | F | T   | A                 | B   | C   | D  | E  | F   | T   | A                   | B   | C   | D  | E  | F   | T   |
| 0               | 101                  | 113 | 112 | 85 | 86 |   | 107 | 103               | 105 | 110 | 74 | 96 | 138 | 112 | 91                  | 85  | 84  | 77 | 84 | 103 | 107 |
| 5               |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 10              | 101                  | 107 | 107 | 90 | 74 |   |     | 104               | 106 | 110 | 76 | 96 | 144 |     | 105                 | 95  | 96  | 85 | 95 | 146 |     |
| 15              |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 20              | 100                  | 105 | 106 | 51 | 69 |   |     | 107               | 109 | 109 | 79 | 95 | 148 |     | 105                 | 104 | 104 | 76 | 91 | 158 |     |
| 25              |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 30              | 97                   | 97  | 89  | 33 | 42 |   |     | 110               | 106 | 98  | 65 | 70 |     |     | 105                 | 105 | 106 |    | 90 |     |     |
| 35              |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 40              | 103                  | 112 | 109 |    |    |   |     | 110               | 104 | 95  |    |    |     |     | 108                 | 103 | 102 |    |    |     |     |
| 45              |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 50              | 108                  | 111 |     |    |    |   |     | 108               | 95  |     |    |    |     |     | 100                 | 102 |     |    |    |     |     |
| 55              |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 60              | 107                  | 110 |     |    |    |   |     | 110               | 97  |     |    |    |     |     | 98                  |     |     |    |    |     |     |
| 65              |                      |     |     |    |    |   |     |                   |     |     |    |    |     |     |                     |     |     |    |    |     |     |
| 70              | 106                  | 112 |     |    |    |   |     | 110               | 108 |     |    |    |     |     | 99                  |     |     |    |    |     |     |

\*KDFWR

Table 8. (continued)

| Depth<br>(feet) | June 23*<br>(515') |     |     |    |    |     |     | July 6*<br>(515') |     |     |    |    |     |     | July 20-22*<br>(516') |     |     |    |    |    |     |
|-----------------|--------------------|-----|-----|----|----|-----|-----|-------------------|-----|-----|----|----|-----|-----|-----------------------|-----|-----|----|----|----|-----|
|                 | A                  | B   | C   | D  | E  | F   | T   | A                 | B   | C   | D  | E  | F   | T   | A                     | B   | C   | D  | E  | F  | T   |
| 0               | 91                 | 91  | 93  | 80 | 85 | 88  | 104 | 90                | 90  | 90  | 80 | 81 | 65  | 108 | 92                    | 100 | 98  | 84 | 85 | 76 | 109 |
| 5               |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 10              | 91                 | 95  | 93  | 80 | 84 | 96  |     | 88                | 92  | 90  | 72 | 81 | 68  |     | 93                    | 98  | 97  | 82 | 86 | 80 |     |
| 15              |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 20              | 101                | 100 | 103 | 67 | 61 | 101 |     | 96                | 107 | 118 | 68 | 64 | 147 |     | 91                    | 98  | 102 | 74 | 60 | 80 |     |
| 25              |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 30              | 103                | 105 | 106 |    | 74 |     |     | 102               | 110 | 111 |    | 80 |     | 104 | 121                   | 122 |     | 90 |    |    |     |
| 35              |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 40              | 108                | 109 | 108 |    |    |     |     | 109               | 118 | 110 |    |    |     |     | 108                   | 119 | 116 |    |    |    |     |
| 45              |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 50              | 106                | 103 |     |    |    |     |     | 109               | 110 |     |    |    |     |     | 112                   | 117 |     |    |    |    |     |
| 55              |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 60              | 105                | 102 |     |    |    |     |     | 105               |     |     |    |    |     |     | 118                   |     |     |    |    |    |     |
| 65              |                    |     |     |    |    |     |     |                   |     |     |    |    |     |     |                       |     |     |    |    |    |     |
| 70              | 101                |     |     |    |    |     |     | 101               |     |     |    |    |     |     | 119                   |     |     |    |    |    |     |

\*KDFWR

Table 8. (continued)

| Depth<br>(feet) | August 6*<br>(515') |     |     |    |     |    |     | August 16-19*<br>(515') |     |     |    |    |     |     | August 30-31*<br>(515') |     |     |    |     |     |     |
|-----------------|---------------------|-----|-----|----|-----|----|-----|-------------------------|-----|-----|----|----|-----|-----|-------------------------|-----|-----|----|-----|-----|-----|
|                 | A                   | B   | C   | D  | E   | F  | T   | A                       | B   | C   | D  | E  | F   | T   | A                       | B   | C   | D  | E   | F   | T   |
| 0               | 96                  | 102 | 100 | 87 | 88  | 73 | 123 | 74                      | 105 | 101 | 86 | 85 | 74  | 135 | 98                      | 102 | 103 | 88 | 87  | 76  | 136 |
| 5               |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 10              | 96                  | 102 | 101 | 84 | 89  | 69 |     | 96                      | 101 | 101 | 81 | 85 | 80  |     | 99                      | 104 | 102 | 89 | 86  | 79  |     |
| 15              |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 20              | 96                  | 102 | 103 | 79 | 89  | 76 |     | 98                      | 102 | 103 | 80 | 90 | 167 |     | 99                      | 104 | 103 | 87 | 87  | 153 |     |
| 25              |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 30              | 106                 | 121 | 120 | 82 | 104 | 85 |     | 107                     | 121 | 114 |    | 88 |     |     | 112                     | 118 | 113 |    | 118 |     |     |
| 35              |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 40              | 109                 | 123 | 120 |    |     |    |     | 121                     | 122 | 112 |    |    |     |     | 122                     | 114 | 116 |    |     |     |     |
| 45              |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 50              | 115                 | 123 |     |    |     |    |     | 120                     | 117 |     |    |    |     |     | 122                     | 119 |     |    |     |     |     |
| 55              |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 60              | 116                 |     |     |    |     |    |     | 121                     |     |     |    |    |     |     | 100                     |     |     |    |     |     |     |
| 65              |                     |     |     |    |     |    |     |                         |     |     |    |    |     |     |                         |     |     |    |     |     |     |
| 70              | 120                 |     |     |    |     |    |     | 125                     |     |     |    |    |     |     | 125                     |     |     |    |     |     |     |

\*KDFWR



Table 8. (continued)

| Depth<br>(feet) | September 21*<br>(514') |     |     |    |    |     |     | October 13-14*<br>(513') |     |     |    |     |     |     | October 27*<br>(511') |     |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|----|----|-----|-----|--------------------------|-----|-----|----|-----|-----|-----|-----------------------|-----|-----|-----|-----|-----|-----|
|                 | A                       | B   | C   | D  | E  | F   | T   | A                        | B   | C   | D  | E   | F   | T   | A                     | B   | C   | D   | E   | F   | T   |
| 0               | 104                     | 106 | 104 | 88 | 87 | 88  | 111 | 110                      | 113 | 110 | 96 | 104 | 100 | 114 | 113                   | 115 | 110 | 98  | 105 | 125 | 126 |
| 5               |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 10              | 104                     | 107 | 104 | 89 | 89 | 87  |     | 109                      | 113 | 110 | 97 | 103 | 103 |     | 112                   | 114 | 110 | 98  | 105 | 154 |     |
| 15              |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 20              | 104                     | 106 | 105 | 88 | 91 | 157 |     | 110                      | 113 | 107 | 97 | 101 | 168 |     | 113                   | 115 | 110 | 100 | 104 | 186 |     |
| 25              |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 30              | 104                     | 106 | 105 |    | 94 |     |     | 112                      | 111 | 109 |    | 94  |     |     | 112                   | 114 | 110 |     |     |     |     |
| 35              |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 40              | 121                     | 117 | 118 |    |    |     |     | 112                      | 110 | 109 |    |     |     |     | 113                   | 115 |     |     |     |     |     |
| 45              |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 50              | 125                     | 123 |     |    |    |     |     | 118                      | 113 |     |    |     |     |     | 113                   |     |     |     |     |     |     |
| 55              |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 60              | 125                     |     |     |    |    |     |     | 121                      |     |     |    |     |     |     | 113                   |     |     |     |     |     |     |
| 65              |                         |     |     |    |    |     |     |                          |     |     |    |     |     |     |                       |     |     |     |     |     |     |
| 70              | 122                     |     |     |    |    |     |     | 130                      |     |     |    |     |     |     |                       |     |     |     |     |     |     |

\*KDFWR

Table 8. (continued)

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| Depth<br>(feet) | November 30*<br>(490') |     |     |   |   |   |     |
|-----------------|------------------------|-----|-----|---|---|---|-----|
|                 | A                      | B   | C   | D | E | F | T   |
| 0               | 114                    | 116 | 112 |   |   |   | 114 |
| 5               |                        |     |     |   |   |   |     |
| 10              | 116                    | 114 | 111 |   |   |   |     |
| 15              |                        |     |     |   |   |   |     |
| 20              | 116                    | 115 |     |   |   |   |     |
| 25              |                        |     |     |   |   |   |     |
| 30              | 115                    | 115 |     |   |   |   |     |
| 35              |                        |     |     |   |   |   |     |
| 40              | 114                    | 116 |     |   |   |   |     |

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\*KDFWR

Table 9. pH values at Nolin River Reservoir and its tailwater, 1971. Determinations were made monthly from January through November (biweekly in May, June, and August). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 515-490 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 17-21<br>(501') |     |     |     |     |     | January 20*<br>(497') |     |     |   |   |   |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----------------------|-----|-----|---|---|---|-----|
|                 | 1                       | 2   | 3   | 4   | 5   | T   | A                     | B   | C   | D | E | F | T   |
| 0               | 7.1                     | 7.1 | 7.2 | 7.2 | 7.3 | 7.3 | 7.2                   | 7.1 | 7.2 |   |   |   | 7.6 |
| 5               |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 10              | 7.0                     | 7.1 | 7.2 | 7.2 |     |     | 7.2                   | 7.5 | 7.1 |   |   |   |     |
| 15              |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 20              | 7.1                     | 7.2 | 7.2 | 7.2 |     |     | 7.2                   | 7.8 | 7.7 |   |   |   |     |
| 25              |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 30              | 7.1                     | 7.1 | 7.2 |     |     |     | 7.2                   | 7.7 |     |   |   |   |     |
| 35              |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 40              | 7.1                     | 7.0 | 7.2 |     |     |     | 7.3                   | 7.1 |     |   |   |   |     |
| 45              |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 50              | 7.1                     | 7.0 | 7.2 |     |     |     | 7.6                   |     |     |   |   |   |     |
| 55              |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 60              | 7.1                     | 7.1 |     |     |     |     | 7.6                   |     |     |   |   |   |     |
| 65              |                         |     |     |     |     |     |                       |     |     |   |   |   |     |
| 70              | 7.0                     |     |     |     |     |     |                       |     |     |   |   |   |     |

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Table 9. (continued)

| Depth<br>(feet) | February 16-17<br>(492') |     |     |     |     |   | February 25-March 1*<br>(502') |     |     |   |   |   |     |
|-----------------|--------------------------|-----|-----|-----|-----|---|--------------------------------|-----|-----|---|---|---|-----|
|                 | 1                        | 2   | 3   | 4   | 5   | T | A                              | B   | C   | D | E | F | T   |
| 0               | 7.0                      | 7.0 | 7.4 | 7.1 | 7.1 |   | 7.4                            | 7.2 | 7.1 |   |   |   | 7.2 |
| 5               |                          |     |     |     |     |   |                                |     |     |   |   |   |     |
| 10              | 7.0                      | 6.9 | 6.7 | 6.9 |     |   | 7.0                            | 7.1 | 7.1 |   |   |   |     |
| 15              |                          |     |     |     |     |   |                                |     |     |   |   |   |     |
| 20              | 7.0                      | 6.9 | 6.7 | 6.9 |     |   | 7.1                            | 7.1 | 7.1 |   |   |   |     |
| 25              |                          |     |     |     |     |   |                                |     |     |   |   |   |     |
| 30              | 7.0                      | 6.9 | 6.8 |     |     |   | 7.1                            | 7.2 |     |   |   |   |     |
| 35              |                          |     |     |     |     |   |                                |     |     |   |   |   |     |
| 40              | 7.0                      | 7.0 | 6.8 |     |     |   | 7.2                            | 7.1 |     |   |   |   |     |
| 45              |                          |     |     |     |     |   |                                |     |     |   |   |   |     |
| 50              | 6.9                      | 7.0 |     |     |     |   | 7.2                            |     |     |   |   |   |     |
| 55              |                          | 7.0 |     |     |     |   |                                |     |     |   |   |   |     |
| 60              | 6.9                      |     |     |     |     |   |                                |     |     |   |   |   |     |
| 65              |                          |     |     |     |     |   |                                |     |     |   |   |   |     |
| 70              | 6.9                      |     |     |     |     |   |                                |     |     |   |   |   |     |

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Table 9. (continued)

| Depth<br>(feet) | March 22-23<br>(495') |     |     |     |     |     | April 20<br>(506') |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|
|                 | 1                     | 2   | 3   | 4   | 5   | T   | 1                  | 2   | 3   | 4   | 5   | T   |
| 0               | 7.6                   | 7.5 | 7.6 | 7.8 | 7.8 | 7.7 | 8.4                | 8.7 | 8.2 | 8.2 | 8.3 | 7.5 |
| 5               |                       |     |     |     |     |     |                    |     |     |     |     |     |
| 10              | 7.6                   | 7.8 | 7.7 | 7.9 |     |     | 8.4                | 8.8 | 8.5 | 8.3 |     |     |
| 15              |                       |     |     |     |     |     |                    |     |     |     |     |     |
| 20              | 7.7                   | 7.9 | 7.7 | 7.9 |     |     | 8.3                | 8.4 | 8.0 | 7.5 |     |     |
| 25              |                       |     |     |     |     |     |                    |     |     |     |     |     |
| 30              | 7.7                   | 7.8 | 7.8 | 7.9 |     |     | 7.9                | 8.2 | 8.3 | 7.4 |     |     |
| 35              |                       |     |     |     |     |     | 7.6                |     |     |     |     |     |
| 40              | 7.7                   | 7.9 | 7.7 |     |     |     | 7.5                | 7.8 | 7.9 |     |     |     |
| 45              |                       |     |     |     |     |     |                    |     |     |     |     |     |
| 50              | 7.7                   | 7.9 | 7.6 |     |     |     | 7.5                | 7.7 |     |     |     |     |
| 55              |                       | 7.9 |     |     |     |     |                    | 7.8 |     |     |     |     |
| 60              | 7.5                   |     |     |     |     |     | 7.5                | 8.7 |     |     |     |     |
| 65              |                       |     |     |     |     |     |                    |     |     |     |     |     |
| 70              | 7.5                   |     |     |     |     |     | 7.6                | 8.3 |     |     |     |     |
| 75              | 7.5                   |     |     |     |     |     |                    |     |     |     |     |     |
| 80              |                       |     |     |     |     |     | 7.6                | 7.8 |     |     |     |     |
| 85              |                       |     |     |     |     |     |                    |     |     |     |     |     |
| 90              |                       |     |     |     |     |     | 7.6                |     |     |     |     |     |

Table 9. (continued)

| Depth<br>(feet) | April 29*<br>(508') |     |     |     |     |     |     | May 10-13*<br>(516') |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|
|                 | A                   | B   | C   | D   | E   | F   | T   | A                    | B   | C   | D   | E   | F   | T   |
| 0               | 8.2                 | 8.1 | 8.2 | 7.6 | 7.8 | 7.6 | 7.2 | 7.7                  | 7.8 | 7.8 | 8.2 | 7.4 | 6.9 | 7.2 |
| 5               |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 10              | 8.1                 | 8.2 | 8.1 | 7.1 | 7.6 | 7.6 |     | 7.8                  | 7.8 | 7.5 | 7.8 | 7.1 | 6.8 |     |
| 15              |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 20              | 7.9                 | 8.0 | 7.6 | 6.8 | 7.1 | 7.2 |     | 7.7                  | 7.6 | 7.5 | 6.9 | 7.0 | 6.9 |     |
| 25              |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 30              | 7.3                 | 7.3 | 7.2 |     |     | 7.1 |     | 7.6                  | 7.4 | 7.2 | 6.7 | 6.7 |     |     |
| 35              |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 40              | 7.3                 | 7.2 |     |     |     |     |     | 7.5                  | 7.2 | 7.2 |     |     |     |     |
| 45              |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 50              | 7.1                 | 7.1 |     |     |     |     |     | 7.2                  | 7.1 |     |     |     |     |     |
| 55              |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 60              | 7.2                 | 7.1 |     |     |     |     |     | 7.1                  | 7.0 |     |     |     |     |     |
| 65              |                     |     |     |     |     |     |     |                      |     |     |     |     |     |     |
| 70              | 7.1                 | 7.0 |     |     |     |     |     | 7.1                  | 7.0 |     |     |     |     |     |

\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | May 20-21<br>(515') |     |     |     |     |     | May 24*<br>(515') |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|-----|
|                 | 1                   | 2   | 3   | 4   | 5   | T   | A                 | B   | C   | D   | E   | F   | T   |
| 0               | 8.0                 | 8.0 | 8.2 | 8.4 | 7.4 | 7.5 | 7.2               | 8.0 |     | 7.4 | 8.1 | 7.8 | 7.0 |
| 5               | 8.0                 | 8.1 | 8.3 | 8.5 |     |     |                   |     |     |     |     |     |     |
| 10              | 8.0                 | 8.1 | 8.2 | 8.3 |     |     | 7.5               | 8.0 | 8.1 | 7.1 | 7.8 | 7.5 |     |
| 15              | 8.0                 | 8.0 | 7.8 | 7.6 |     |     |                   |     |     |     |     |     |     |
| 20              | 7.9                 | 7.7 | 7.5 | 7.5 |     |     | 7.2               | 7.6 | 8.0 | 6.9 | 7.8 | 7.4 |     |
| 25              | 8.1                 | 7.5 | 7.3 | 7.5 |     |     |                   |     |     |     |     |     |     |
| 30              | 7.8                 | 7.3 | 7.3 | 7.4 |     |     | 7.2               | 7.0 | 7.1 | 6.8 | 6.8 |     |     |
| 35              | 8.1                 | 7.3 | 7.2 | 7.4 |     |     |                   |     |     |     |     |     |     |
| 40              | 7.7                 | 7.3 | 7.2 | 7.5 |     |     | 7.0               | 7.0 | 7.0 |     |     |     |     |
| 45              | 7.9                 | 7.3 | 7.3 | 7.5 |     |     |                   |     |     |     |     |     |     |
| 50              | 7.4                 | 7.3 | 7.3 |     |     |     | 7.0               | 7.0 |     |     |     |     |     |
| 55              | 7.4                 | 7.3 | 7.4 |     |     |     |                   |     |     |     |     |     |     |
| 60              | 7.3                 | 7.4 | 7.4 |     |     |     | 7.1               | 7.0 |     |     |     |     |     |
| 65              | 7.3                 | 7.3 |     |     |     |     |                   |     |     |     |     |     |     |
| 70              | 7.4                 | 7.3 |     |     |     |     | 7.1               | 7.1 |     |     |     |     |     |
| 75              | 7.4                 | 7.3 |     |     |     |     |                   |     |     |     |     |     |     |
| 80              | 7.4                 | 7.3 |     |     |     |     |                   |     |     |     |     |     |     |
| 85              | 7.4                 | 7.4 |     |     |     |     |                   |     |     |     |     |     |     |
| 90              | 7.4                 | 7.4 |     |     |     |     |                   |     |     |     |     |     |     |
| 95              | 7.3                 |     |     |     |     |     |                   |     |     |     |     |     |     |

Table 9. (continued)

| Depth<br>(feet) | June 8-9*<br>(515') |     |     |     |     |     | June 17-18<br>(515') |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|-----|
|                 | A                   | B   | C   | D   | E   | F   | T                    | 1   | 2   | 3   | 4   | 5   | T   |
| 0               | 7.9                 | 8.0 | 7.6 | 7.8 | 8.0 | 8.1 | 7.5                  | 8.5 | 8.3 | 8.7 | 8.2 | 7.6 | 7.6 |
| 5               |                     |     |     |     |     |     |                      | 8.4 | 8.4 | 8.7 | 8.2 |     |     |
| 10              | 7.7                 | 7.7 | 7.8 | 8.1 | 7.4 | 7.6 |                      | 8.4 | 8.4 | 8.6 | 8.0 |     |     |
| 15              |                     |     |     |     |     |     |                      | 8.3 | 8.3 | 8.4 | 7.8 |     |     |
| 20              | 7.5                 | 7.4 | 7.3 | 6.8 | 7.1 | 7.6 |                      | 7.9 | 8.1 | 8.4 | 7.5 |     |     |
| 25              |                     |     |     |     |     |     |                      | 7.9 | 8.1 | 7.7 | 7.3 |     |     |
| 30              | 7.0                 | 6.9 | 6.9 |     | 6.8 |     |                      | 7.9 | 7.5 | 7.8 | 8.1 |     |     |
| 35              |                     |     |     |     |     |     |                      | 7.6 | 8.3 | 7.9 | 7.4 |     |     |
| 40              | 6.9                 | 6.9 | 6.8 |     |     |     |                      | 7.6 | 7.4 | 7.9 | 8.1 |     |     |
| 45              |                     |     |     |     |     |     |                      | 7.5 | 8.1 | 7.6 | 7.6 |     |     |
| 50              | 6.9                 | 6.7 |     |     |     |     |                      | 7.5 | 8.0 | 7.8 | 7.6 |     |     |
| 55              |                     |     |     |     |     |     |                      | 7.6 | 8.0 | 8.0 |     |     |     |
| 60              | 6.9                 |     |     |     |     |     |                      | 8.0 | 7.9 | 7.6 |     |     |     |
| 65              |                     |     |     |     |     |     |                      | 7.6 | 7.5 | 7.6 |     |     |     |
| 70              | 6.8                 |     |     |     |     |     |                      | 7.7 | 7.3 |     |     |     |     |
| 75              |                     |     |     |     |     |     |                      | 7.7 | 7.3 |     |     |     |     |
| 80              |                     |     |     |     |     |     |                      | 7.7 | 7.6 |     |     |     |     |
| 85              |                     |     |     |     |     |     |                      | 7.7 | 7.3 |     |     |     |     |
| 90              |                     |     |     |     |     |     |                      | 7.7 | 7.5 |     |     |     |     |
| 95              |                     |     |     |     |     |     |                      | 7.6 |     |     |     |     |     |

\*KDFWR



Table 9. (continued)

| Depth<br>(feet) | June 23*<br>(515') |     |     |     |     |     |     | July 6*<br>(515') |     |     |     |     |     |     |
|-----------------|--------------------|-----|-----|-----|-----|-----|-----|-------------------|-----|-----|-----|-----|-----|-----|
|                 | A                  | B   | C   | D   | E   | F   | T   | A                 | B   | C   | D   | E   | F   | T   |
| 0               | 7.7                | 7.4 | 7.8 | 7.7 | 8.0 | 8.6 | 7.8 | 8.0               | 8.0 | 8.0 | 8.0 | 8.0 | 8.3 | 8.0 |
| 5               |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 10              | 7.8                | 7.8 | 8.0 | 7.7 | 8.2 | 8.3 |     | 7.8               | 8.1 | 8.1 | 8.2 | 7.9 | 8.1 |     |
| 15              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 20              | 7.9                | 8.2 | 7.9 | 7.3 | 7.6 | 7.8 |     | 8.1               | 8.1 | 7.7 | 7.5 | 6.8 | 7.3 |     |
| 25              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 30              | 7.7                | 7.5 | 7.7 |     | 8.5 |     |     | 8.4               | 8.1 | 7.9 |     | 6.9 |     |     |
| 35              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 40              | 7.7                | 7.8 | 7.7 |     |     |     |     | 8.1               | 7.5 | 7.9 |     |     |     |     |
| 45              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 50              | 7.7                | 8.0 |     |     |     |     |     | 8.0               | 8.0 |     |     |     |     |     |
| 55              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 60              | 7.7                | 7.8 |     |     |     |     |     | 7.9               |     |     |     |     |     |     |
| 65              |                    |     |     |     |     |     |     |                   |     |     |     |     |     |     |
| 70              | 7.7                |     |     |     |     |     |     | 7.6               |     |     |     |     |     |     |

\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | July 15-16<br>(515') |     |     |     |     |     | July 29-30<br>(515') |     |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|
|                 | 1                    | 2   | 3   | 4   | 5   | T   | 1                    | 2   | 3   | 4   | 5   | T   |
| 0               | 7.9                  | 8.0 | 8.0 | 8.3 | 7.1 | 6.8 | 8.3                  | 8.2 | 8.0 | 8.0 | 7.6 | 7.0 |
| 5               | 8.1                  | 8.1 | 8.1 | 8.4 |     |     | 8.4                  | 8.2 | 8.0 | 8.0 |     |     |
| 10              | 8.1                  | 8.1 | 8.1 | 8.4 |     |     | 8.4                  | 8.2 | 8.0 | 8.0 |     |     |
| 15              | 8.1                  | 8.1 | 8.0 | 8.1 |     |     | 8.3                  | 8.2 | 7.7 | 8.1 |     |     |
| 20              | 8.1                  | 7.8 | 7.1 | 7.2 |     |     | 8.3                  | 7.8 | 7.2 | 7.2 |     |     |
| 25              | 7.8                  | 7.5 | 7.0 | 7.0 |     |     | 8.1                  | 7.2 | 6.9 | 7.0 |     |     |
| 30              | 7.3                  | 7.2 | 6.9 | 6.9 |     |     | 7.6                  | 7.0 | 6.9 | 6.9 |     |     |
| 35              | 7.2                  | 7.0 | 6.8 | 6.8 |     |     | 7.4                  | 7.0 | 6.8 | 6.9 |     |     |
| 40              | 7.0                  | 7.0 | 6.8 | 6.8 |     |     | 7.1                  | 7.0 | 6.8 | 6.9 |     |     |
| 45              | 7.0                  | 6.9 | 6.8 | 6.8 |     |     | 7.1                  | 7.0 | 6.8 | 6.8 |     |     |
| 50              | 6.8                  | 6.9 | 6.8 | 6.8 |     |     | 7.1                  | 7.0 | 6.8 | 6.8 |     |     |
| 55              | 6.8                  | 6.9 | 6.8 |     |     |     | 7.0                  | 7.0 | 6.8 |     |     |     |
| 60              | 6.9                  | 6.9 | 6.8 |     |     |     | 7.0                  | 7.0 | 6.8 |     |     |     |
| 65              | 6.8                  | 6.9 |     |     |     |     | 7.0                  | 7.0 | 6.8 |     |     |     |
| 70              | 6.7                  | 6.9 |     |     |     |     | 7.0                  | 7.0 | 6.8 |     |     |     |
| 75              | 6.7                  | 7.0 |     |     |     |     | 7.0                  | 6.9 |     |     |     |     |
| 80              | 6.7                  | 7.0 |     |     |     |     | 7.0                  | 6.8 |     |     |     |     |
| 85              | 6.6                  | 7.0 |     |     |     |     | 7.0                  | 6.8 |     |     |     |     |
| 90              | 6.6                  | 7.0 |     |     |     |     | 7.0                  |     |     |     |     |     |
| 95              | 6.6                  |     |     |     |     |     | 7.0                  |     |     |     |     |     |
| 100             | 6.6                  |     |     |     |     |     |                      |     |     |     |     |     |

Table 9. (continued)

| Depth<br>(feet) | August 6*<br>(515') |     |     |     |     |     | August 12-13<br>(515') |     |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|-----|
|                 | A                   | B   | C   | D   | E   | F   | T                      | 1   | 2   | 3   | 4   | 5   | T   |
| 0               | 7.7                 | 7.4 | 7.6 | 7.6 | 7.5 | 7.3 | 6.8                    | 8.2 | 8.0 | 8.1 | 8.3 | 7.6 | 7.4 |
| 5               |                     |     |     |     |     |     |                        | 8.3 | 8.3 | 8.2 | 8.4 |     |     |
| 10              | 7.6                 | 7.5 | 7.1 | 7.5 | 7.5 | 7.2 |                        | 8.4 | 8.2 | 8.2 | 8.3 |     |     |
| 15              |                     |     |     |     |     |     |                        | 8.4 | 8.1 | 8.0 | 7.9 |     |     |
| 20              | 7.7                 | 7.3 | 7.4 | 7.2 | 7.3 | 7.2 |                        | 8.4 | 8.0 | 7.5 | 7.4 |     |     |
| 25              |                     |     |     |     |     |     |                        | 8.2 | 7.5 | 7.0 | 7.2 |     |     |
| 30              | 7.3                 | 7.1 | 7.1 | 7.0 | 6.8 | 7.2 |                        | 7.7 | 7.0 | 6.9 | 7.1 |     |     |
| 35              |                     |     |     |     |     |     |                        | 7.3 | 6.8 | 7.0 | 7.3 |     |     |
| 40              | 7.3                 | 7.1 | 7.0 |     |     |     |                        | 7.3 | 6.8 | 7.0 | 7.2 |     |     |
| 45              |                     |     |     |     |     |     |                        | 7.2 | 7.0 | 7.0 | 7.0 |     |     |
| 50              | 7.3                 | 7.3 |     |     |     |     |                        | 7.2 | 6.9 | 6.9 |     |     |     |
| 55              |                     |     |     |     |     |     |                        | 7.2 | 6.9 | 6.9 |     |     |     |
| 60              | 7.3                 |     |     |     |     |     |                        | 7.3 | 6.9 |     |     |     |     |
| 65              |                     |     |     |     |     |     |                        | 7.3 | 6.9 |     |     |     |     |
| 70              | 7.2                 |     |     |     |     |     |                        | 7.2 | 6.9 |     |     |     |     |
| 75              |                     |     |     |     |     |     |                        | 6.9 | 6.8 |     |     |     |     |
| 80              |                     |     |     |     |     |     |                        | 7.0 | 6.8 |     |     |     |     |
| 85              |                     |     |     |     |     |     |                        | 6.8 | 6.8 |     |     |     |     |
| 90              |                     |     |     |     |     |     |                        | 6.9 | 6.7 |     |     |     |     |
| 95              |                     |     |     |     |     |     |                        | 6.8 |     |     |     |     |     |

\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | August 16-19*<br>(515') |     |     |     |     |     |     | August 26-27<br>(515') |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|
|                 | A                       | B   | C   | D   | E   | F   | T   | 1                      | 2   | 3   | 4   | 5   | T   |
| 0               | 7.4                     | 7.6 | 7.4 | 7.5 | 7.5 | 7.4 | 7.7 | 8.2                    | 8.0 | 8.1 | 8.3 | 7.9 | 7.2 |
| 5               |                         |     |     |     |     |     |     | 8.2                    | 8.0 | 8.1 | 8.3 |     |     |
| 10              | 7.9                     | 7.6 | 7.4 | 7.7 | 7.8 | 7.5 |     | 8.2                    | 8.1 | 8.2 | 8.3 |     |     |
| 15              |                         |     |     |     |     |     |     | 8.2                    | 8.1 | 8.2 | 8.3 |     |     |
| 20              | 8.0                     | 7.6 | 7.1 | 7.2 | 7.3 | 7.8 |     | 8.2                    | 7.6 | 7.4 | 7.5 |     |     |
| 25              |                         |     |     |     |     |     |     | 7.9                    | 7.2 | 7.1 | 7.2 |     |     |
| 30              | 7.7                     | 7.1 | 6.9 |     | 7.3 |     |     | 7.3                    | 7.1 | 7.0 | 7.4 |     |     |
| 35              |                         |     |     |     |     |     |     | 7.2                    | 7.0 | 7.0 | 7.3 |     |     |
| 40              | 7.6                     | 7.0 | 7.0 |     |     |     |     | 7.2                    | 7.0 | 7.0 | 7.2 |     |     |
| 45              |                         |     |     |     |     |     |     | 7.2                    | 7.0 | 7.0 | 7.2 |     |     |
| 50              | 7.5                     | 7.2 |     |     |     |     |     | 7.2                    | 7.0 | 7.0 | 7.2 |     |     |
| 55              |                         |     |     |     |     |     |     | 7.2                    | 7.0 | 7.0 |     |     |     |
| 60              | 7.5                     |     |     |     |     |     |     | 7.2                    | 7.0 | 7.0 |     |     |     |
| 65              |                         |     |     |     |     |     |     | 7.2                    | 7.0 | 7.0 |     |     |     |
| 70              | 7.5                     |     |     |     |     |     |     | 7.2                    | 7.0 | 7.0 |     |     |     |
| 75              |                         |     |     |     |     |     |     | 7.2                    | 7.0 |     |     |     |     |
| 80              |                         |     |     |     |     |     |     | 7.1                    | 7.0 |     |     |     |     |
| 85              |                         |     |     |     |     |     |     | 7.1                    | 7.0 |     |     |     |     |
| 90              |                         |     |     |     |     |     |     | 7.1                    |     |     |     |     |     |
| 95              |                         |     |     |     |     |     |     | 7.1                    |     |     |     |     |     |

\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | August 30-31*<br>(515') |     |     |     |     |     |     | September 7-8<br>(515') |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|
|                 | A                       | B   | C   | D   | E   | F   | T   | 1                       | 2   | 3   | 4   | 5   | T   |
| 0               | 7.3                     | 7.3 | 7.2 | 7.2 | 7.3 | 7.2 | 7.0 | 8.0                     | 8.0 | 7.9 | 8.2 | 7.7 | 7.3 |
| 5               |                         |     |     |     |     |     |     | 8.1                     | 8.1 | 8.1 | 8.3 |     |     |
| 10              | 7.4                     | 7.3 | 7.1 | 7.2 | 7.4 | 7.1 |     | 8.1                     | 8.1 | 8.1 | 8.2 |     |     |
| 15              |                         |     |     |     |     |     |     | 8.1                     | 8.1 | 8.1 | 8.2 |     |     |
| 20              | 7.3                     | 7.1 | 7.3 | 7.2 | 7.3 | 7.2 |     | 8.1                     | 8.1 | 8.1 | 7.6 |     |     |
| 25              |                         |     |     |     |     |     |     | 7.8                     | 7.2 | 7.3 | 7.3 |     |     |
| 30              | 7.5                     | 7.2 | 7.3 |     | 7.0 |     |     | 7.3                     | 7.1 | 7.1 | 7.3 |     |     |
| 35              |                         |     |     |     |     |     |     | 7.2                     | 7.0 | 7.1 | 7.2 |     |     |
| 40              | 7.3                     | 7.3 | 7.3 |     |     |     |     | 7.1                     | 7.0 | 7.0 | 7.0 |     |     |
| 45              |                         |     |     |     |     |     |     | 7.1                     | 7.0 | 7.0 | 7.0 |     |     |
| 50              | 7.4                     | 7.3 |     |     |     |     |     | 7.0                     | 7.0 | 7.0 | 7.0 |     |     |
| 55              |                         |     |     |     |     |     |     | 7.0                     | 6.9 | 7.0 |     |     |     |
| 60              | 7.3                     |     |     |     |     |     |     | 7.0                     | 6.9 | 7.1 |     |     |     |
| 65              |                         |     |     |     |     |     |     | 7.0                     | 6.9 | 7.1 |     |     |     |
| 70              | 7.1                     |     |     |     |     |     |     | 7.0                     | 6.9 | 7.1 |     |     |     |
| 75              |                         |     |     |     |     |     |     | 7.0                     | 6.9 |     |     |     |     |
| 80              |                         |     |     |     |     |     |     | 7.0                     | 6.9 |     |     |     |     |
| 85              |                         |     |     |     |     |     |     | 6.9                     | 6.9 |     |     |     |     |
| 90              |                         |     |     |     |     |     |     | 6.8                     |     |     |     |     |     |
| 95              |                         |     |     |     |     |     |     | 6.8                     |     |     |     |     |     |

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\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | September 21*<br>(514') |     |     |     |     |     | September 23-24<br>(514') |     |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|---------------------------|-----|-----|-----|-----|-----|-----|
|                 | A                       | B   | C   | D   | E   | F   | T                         | 1   | 2   | 3   | 4   | 5   | T   |
| 0               | 7.3                     | 7.5 | 7.6 | 7.5 | 7.1 | 7.6 | 7.0                       | 8.0 | 7.8 | 7.6 | 7.6 | 7.5 | 7.2 |
| 5               |                         |     |     |     |     |     |                           | 8.0 | 7.8 | 7.6 | 7.6 |     |     |
| 10              | 7.6                     | 7.5 | 7.3 | 7.3 | 6.8 | 7.2 |                           | 8.0 | 7.8 | 7.6 | 7.6 |     |     |
| 15              |                         |     |     |     |     |     |                           | 7.9 | 7.8 | 7.6 | 7.6 |     |     |
| 20              | 7.8                     | 7.5 | 7.1 | 7.1 | 7.1 | 7.2 |                           | 7.9 | 7.8 | 7.6 | 7.6 |     |     |
| 25              |                         |     |     |     |     |     |                           | 7.9 | 7.8 | 7.6 | 7.6 |     |     |
| 30              | 7.5                     | 7.5 | 7.2 |     | 7.3 |     |                           | 7.8 | 7.6 | 7.5 | 7.5 |     |     |
| 35              |                         |     |     |     |     |     |                           | 7.3 | 7.1 | 7.0 | 7.2 |     |     |
| 40              | 7.3                     | 7.2 | 7.4 |     |     |     |                           | 7.2 | 7.0 | 6.9 | 7.1 |     |     |
| 45              |                         |     |     |     |     |     |                           | 7.1 | 7.0 | 6.9 | 7.0 |     |     |
| 50              | 7.7                     | 7.4 |     |     |     |     |                           | 7.1 | 6.8 | 6.9 |     |     |     |
| 55              |                         |     |     |     |     |     |                           | 7.0 | 6.8 | 6.9 |     |     |     |
| 60              | 7.1                     |     |     |     |     |     |                           | 7.0 | 6.8 | 6.8 |     |     |     |
| 65              |                         |     |     |     |     |     |                           | 6.9 | 6.8 | 6.8 |     |     |     |
| 70              | 6.7                     |     |     |     |     |     |                           | 7.0 | 6.9 |     |     |     |     |
| 75              |                         |     |     |     |     |     |                           | 6.9 | 6.9 |     |     |     |     |
| 80              |                         |     |     |     |     |     |                           | 6.9 | 6.9 |     |     |     |     |
| 85              |                         |     |     |     |     |     |                           | 6.8 | 6.9 |     |     |     |     |
| 90              |                         |     |     |     |     |     |                           | 6.7 | 6.9 |     |     |     |     |
| 95              |                         |     |     |     |     |     |                           | 6.7 |     |     |     |     |     |

\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | October 13-14*<br>(513') |     |     |     |     |     |     | October 12-13<br>(513') |     |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|
|                 | A                        | B   | C   | D   | E   | F   | T   | 1                       | 2   | 3   | 4   | 5   | T   |
| 0               | 7.3                      | 7.4 | 7.1 | 7.3 | 7.2 | 7.5 | 7.4 | 7.7                     | 7.9 | 7.7 | 7.7 | 7.8 | 7.8 |
| 5               |                          |     |     |     |     |     |     | 7.8                     | 7.9 | 7.7 | 7.7 |     |     |
| 10              | 7.4                      | 7.2 | 7.0 | 7.2 | 7.0 | 7.4 |     | 7.8                     | 7.8 | 7.7 | 7.7 |     |     |
| 15              |                          |     |     |     |     |     |     | 7.7                     | 7.8 | 7.7 | 7.7 |     |     |
| 20              | 7.4                      | 7.2 | 7.2 | 7.2 | 7.1 | 7.4 |     | 7.7                     | 7.8 | 7.7 | 7.7 |     |     |
| 25              |                          |     |     |     |     |     |     | 7.7                     | 7.7 | 7.7 | 7.7 |     |     |
| 30              | 7.2                      | 7.2 | 7.2 |     | 7.2 |     |     | 7.7                     | 7.7 | 7.7 | 7.7 |     |     |
| 35              |                          |     |     |     |     |     |     | 7.7                     | 7.8 | 7.7 | 7.6 |     |     |
| 40              | 7.1                      | 7.2 | 7.4 |     |     |     |     | 7.6                     | 7.8 | 7.7 | 7.6 |     |     |
| 45              |                          |     |     |     |     |     |     | 7.4                     | 7.6 | 7.7 | 7.6 |     |     |
| 50              | 7.3                      | 7.1 |     |     |     |     |     | 7.2                     | 7.2 | 7.6 |     |     |     |
| 55              |                          |     |     |     |     |     |     | 7.2                     | 7.2 | 7.2 |     |     |     |
| 60              | 7.1                      |     |     |     |     |     |     | 7.2                     | 7.2 | 7.2 |     |     |     |
| 65              |                          |     |     |     |     |     |     | 7.2                     | 7.2 |     |     |     |     |
| 70              | 7.2                      |     |     |     |     |     |     | 7.2                     | 7.2 |     |     |     |     |
| 75              |                          |     |     |     |     |     |     | 7.2                     | 7.2 |     |     |     |     |
| 80              |                          |     |     |     |     |     |     | 7.2                     | 7.2 |     |     |     |     |
| 85              |                          |     |     |     |     |     |     | 7.2                     | 7.2 |     |     |     |     |
| 90              |                          |     |     |     |     |     |     | 7.2                     |     |     |     |     |     |

\*KDFWR

Table 9. (continued)

| Depth<br>(feet) | November 10-12<br>(502') |     |     |     |     |     | November 30*<br>(490') |     |     |   |   |   |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|------------------------|-----|-----|---|---|---|-----|
|                 | 1                        | 2   | 3   | 4   | 5   | T   | A                      | B   | C   | D | E | F | T   |
| 0               | 7.3                      | 7.3 | 7.4 | 7.3 | 7.7 | 7.7 | 7.3                    | 7.2 | 7.2 |   |   |   | 7.1 |
| 5               |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 10              | 7.3                      | 7.3 | 7.4 | 7.3 |     |     | 7.3                    | 7.2 | 7.1 |   |   |   |     |
| 15              |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 20              | 7.3                      | 7.3 | 7.4 | 7.3 |     |     | 7.4                    | 7.3 |     |   |   |   |     |
| 25              |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 30              | 7.3                      | 7.3 | 7.4 | 7.2 |     |     | 7.4                    | 7.3 |     |   |   |   |     |
| 35              |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 40              | 7.3                      | 7.3 | 7.4 |     |     |     | 7.4                    | 7.3 |     |   |   |   |     |
| 45              |                          |     | 7.4 |     |     |     |                        |     |     |   |   |   |     |
| 50              | 7.3                      | 7.3 |     |     |     |     |                        |     |     |   |   |   |     |
| 55              |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 60              | 7.3                      | 7.3 |     |     |     |     |                        |     |     |   |   |   |     |
| 65              |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 70              | 7.3                      |     |     |     |     |     |                        |     |     |   |   |   |     |
| 75              |                          |     |     |     |     |     |                        |     |     |   |   |   |     |
| 80              | 7.3                      |     |     |     |     |     |                        |     |     |   |   |   |     |

\*KDFWR



Table 9. (continued)

| Depth<br>(feet) | December 14-15<br>(485') |     |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|
|                 | 1                        | 2   | 3   | 4   | 5   | T   |
| 0               | 7.4                      | 7.4 | 7.4 | 7.8 | 7.5 | 7.4 |
| 5               |                          |     |     |     |     |     |
| 10              | 7.4                      | 7.4 | 7.4 | 7.5 |     |     |
| 15              |                          |     |     |     |     |     |
| 20              | 7.4                      | 7.4 | 7.4 |     |     |     |
| 25              |                          |     |     |     |     |     |
| 30              | 7.4                      | 7.4 | 7.4 |     |     |     |
| 35              |                          |     |     |     |     |     |
| 40              | 7.4                      | 7.4 |     |     |     |     |
| 45              |                          | 7.4 |     |     |     |     |
| 50              | 7.4                      |     |     |     |     |     |
| 55              |                          |     |     |     |     |     |
| 60              | 7.4                      |     |     |     |     |     |

Table 10. Specific conductance at Nolin River Reservoir and its tailwater, 1971. Determinations were conducted monthly from August through November (biweekly in October). Data not asterisked, January through December, were provided by the U. S. Army Corps of Engineers, Louisville District. Normal summer-winter pool elevations were 515-490 feet. Existing reservoir elevations (msl) are shown in parentheses.

| Depth<br>(feet) | January 17-21<br>(501') |     |     |     |     |     | February 16-17<br>(492') |     |     |     |     |   |
|-----------------|-------------------------|-----|-----|-----|-----|-----|--------------------------|-----|-----|-----|-----|---|
|                 | 1                       | 2   | 3   | 4   | 5   | T   | 1                        | 2   | 3   | 4   | 5   | T |
| 0               | 248                     | 212 | 188 | 255 | 280 | 252 | 251                      | 239 | 211 | 245 | 261 |   |
| 5               |                         |     |     |     |     |     |                          |     |     |     |     |   |
| 10              | 242                     | 212 | 190 | 255 |     |     | 251                      | 239 | 211 | 245 |     |   |
| 15              |                         |     |     |     |     |     |                          |     |     |     |     |   |
| 20              | 242                     | 212 | 190 | 255 |     |     | 251                      | 235 | 211 | 250 |     |   |
| 25              |                         |     |     |     |     |     |                          |     |     |     |     |   |
| 30              | 240                     | 212 | 190 |     |     |     | 254                      | 233 | 211 |     |     |   |
| 35              |                         |     |     |     |     |     |                          |     |     |     |     |   |
| 40              | 240                     | 212 | 188 |     |     |     | 255                      | 232 | 211 |     |     |   |
| 45              |                         |     |     |     |     |     |                          |     |     |     |     |   |
| 50              | 240                     | 212 | 188 |     |     |     | 255                      | 232 |     |     |     |   |
| 55              |                         |     |     |     |     |     |                          | 232 |     |     |     |   |
| 60              | 240                     | 225 |     |     |     |     | 257                      |     |     |     |     |   |
| 65              |                         |     |     |     |     |     |                          |     |     |     |     |   |
| 70              | 240                     |     |     |     |     |     | 257                      |     |     |     |     |   |

Table 10. (continued)

| Depth<br>(feet) | March 22-23<br>(495') |     |     |     |     |     | April 20<br>(506') |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|
|                 | 1                     | 2   | 3   | 4   | 5   | T   | 1                  | 2   | 3   | 4   | 5   | T   |
| 0               | 231                   | 242 | 255 | 300 | 301 | 230 | 238                | 249 | 252 | 260 | 295 | 248 |
| 5               |                       |     |     |     |     |     | 240                | 243 | 250 | 261 |     |     |
| 10              | 231                   | 242 | 255 | 300 |     |     | 240                | 239 | 257 | 280 |     |     |
| 15              |                       |     |     |     |     |     | 245                | 239 | 261 | 271 |     |     |
| 20              | 231                   | 242 | 255 | 300 |     |     | 245                | 249 | 267 | 269 |     |     |
| 25              |                       |     |     |     |     |     | 242                | 245 | 260 | 268 |     |     |
| 30              | 231                   | 242 | 255 | 305 |     |     | 243                | 240 | 259 | 265 |     |     |
| 35              |                       |     |     |     |     |     | 243                | 240 | 255 | 268 |     |     |
| 40              | 231                   | 242 | 248 |     |     |     | 240                | 241 | 250 |     |     |     |
| 45              |                       |     |     |     |     |     | 240                | 241 | 251 |     |     |     |
| 50              | 233                   | 242 | 248 |     |     |     | 240                | 241 |     |     |     |     |
| 55              |                       | 242 |     |     |     |     | 240                | 241 |     |     |     |     |
| 60              | 233                   |     |     |     |     |     | 240                | 241 |     |     |     |     |
| 65              |                       |     |     |     |     |     | 240                | 241 |     |     |     |     |
| 70              | 235                   |     |     |     |     |     | 240                | 243 |     |     |     |     |
| 75              | 238                   |     |     |     |     |     | 240                | 243 |     |     |     |     |
| 80              |                       |     |     |     |     |     | 240                | 243 |     |     |     |     |
| 85              |                       |     |     |     |     |     | 240                |     |     |     |     |     |
| 90              |                       |     |     |     |     |     | 240                |     |     |     |     |     |

Table 10. (continued)

| Depth<br>(feet) | May 20-21<br>(515') |     |     |     |     |     | June 17-18<br>(515') |     |     |     |     |     |
|-----------------|---------------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|
|                 | 1                   | 2   | 3   | 4   | 5   | T   | 1                    | 2   | 3   | 4   | 5   | T   |
| 0               | 220                 | 240 | 250 | 238 | 280 | 260 | 205                  | 220 | 222 | 208 | 310 | 250 |
| 5               | 225                 | 240 | 250 | 239 |     |     | 190                  | 220 | 223 | 218 |     |     |
| 10              | 225                 | 238 | 250 | 242 |     |     | 200                  | 220 | 232 | 289 |     |     |
| 15              | 230                 | 240 | 250 | 288 |     |     | 220                  | 232 | 249 | 303 |     |     |
| 20              | 230                 | 245 | 232 | 285 |     |     | 220                  | 245 | 254 | 332 |     |     |
| 25              | 235                 | 245 | 225 | 272 |     |     | 222                  | 250 | 280 | 318 |     |     |
| 30              | 238                 | 235 | 222 | 270 |     |     | 228                  | 248 | 285 | 318 |     |     |
| 35              | 240                 | 228 | 230 | 280 |     |     | 228                  | 242 | 265 | 329 |     |     |
| 40              | 248                 | 220 | 245 | 280 |     |     | 222                  | 239 | 250 | 329 |     |     |
| 45              | 248                 | 215 | 250 | 282 |     |     | 212                  | 235 | 258 | 329 |     |     |
| 50              | 250                 | 230 | 250 |     |     |     | 200                  | 240 | 265 | 330 |     |     |
| 55              | 250                 | 248 | 230 |     |     |     | 200                  | 241 | 270 |     |     |     |
| 60              | 251                 | 255 | 265 |     |     |     | 208                  | 248 | 271 |     |     |     |
| 65              | 252                 | 258 |     |     |     |     | 210                  | 250 | 330 |     |     |     |
| 70              | 255                 | 258 |     |     |     |     | 212                  | 250 |     |     |     |     |
| 75              | 255                 | 255 |     |     |     |     | 218                  | 258 |     |     |     |     |
| 80              | 250                 | 255 |     |     |     |     | 221                  | 261 |     |     |     |     |
| 85              | 250                 | 255 |     |     |     |     | 228                  | 270 |     |     |     |     |
| 90              | 250                 | 260 |     |     |     |     | 238                  | 285 |     |     |     |     |
| 95              | 260                 |     |     |     |     |     | 240                  |     |     |     |     |     |

Table 10. (continued)

| Depth<br>(feet) | July 15-16<br>(515') |     |     |     |     |     | July 29-30<br>(515') |     |     |     |     |     |
|-----------------|----------------------|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|-----|-----|
|                 | 1                    | 2   | 3   | 4   | 5   | T   | 1                    | 2   | 3   | 4   | 5   | T   |
| 0               | 222                  | 220 | 225 | 209 | 230 | 255 | 222                  | 230 | 235 | 148 | 255 | 268 |
| 5               | 222                  | 220 | 225 | 209 |     |     | 222                  | 230 | 235 | 148 |     |     |
| 10              | 220                  | 222 | 225 | 203 |     |     | 222                  | 235 | 231 | 149 |     |     |
| 15              | 231                  | 248 | 240 | 248 |     |     | 225                  | 232 | 232 | 151 |     |     |
| 20              | 241                  | 261 | 268 | 329 |     |     | 240                  | 270 | 238 | 152 |     |     |
| 25              | 249                  | 258 | 280 | 310 |     |     | 245                  | 281 | 240 | 202 |     |     |
| 30              | 255                  | 258 | 270 | 292 |     |     | 248                  | 285 | 220 | 229 |     |     |
| 35              | 260                  | 260 | 268 | 311 |     |     | 249                  | 285 | 242 | 209 |     |     |
| 40              | 262                  | 262 | 271 | 340 |     |     | 255                  | 279 | 263 | 209 |     |     |
| 45              | 258                  | 260 | 279 | 350 |     |     | 258                  | 275 | 270 | 210 |     |     |
| 50              | 250                  | 253 | 288 | 359 |     |     | 268                  | 278 | 282 | 260 |     |     |
| 55              | 247                  | 255 | 291 |     |     |     | 271                  | 281 | 295 |     |     |     |
| 60              | 245                  | 252 | 291 |     |     |     | 271                  | 288 | 310 |     |     |     |
| 65              | 249                  | 269 |     |     |     |     | 272                  | 290 | 305 |     |     |     |
| 70              | 252                  | 279 |     |     |     |     | 280                  | 293 | 312 |     |     |     |
| 75              | 260                  | 279 |     |     |     |     | 282                  | 293 |     |     |     |     |
| 80              | 268                  | 280 |     |     |     |     | 282                  | 293 |     |     |     |     |
| 85              | 270                  | 281 |     |     |     |     | 288                  | 295 |     |     |     |     |
| 90              | 279                  | 290 |     |     |     |     | 290                  |     |     |     |     |     |
| 95              | 290                  |     |     |     |     |     | 295                  |     |     |     |     |     |
| 100             | 300                  |     |     |     |     |     |                      |     |     |     |     |     |

Table 10. (continued)

| Depth<br>(feet) | August 12-13<br>(515') |     |     |     |     |     | August 26-27<br>(515') |     |     |     |     |     |
|-----------------|------------------------|-----|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|-----|
|                 | 1                      | 2   | 3   | 4   | 5   | T   | 1                      | 2   | 3   | 4   | 5   | T   |
| 0               | 169                    | 231 | 240 | 198 | 350 | 289 | 238                    | 232 | 236 | 200 | 340 | 251 |
| 5               | 168                    | 235 | 240 | 198 |     |     | 238                    | 235 | 236 | 200 |     |     |
| 10              | 168                    | 235 | 240 | 200 |     |     | 235                    | 235 | 238 | 200 |     |     |
| 15              | 165                    | 235 | 250 | 225 |     |     | 232                    | 248 | 238 | 205 |     |     |
| 20              | 161                    | 255 | 260 | 220 |     |     | 250                    | 258 | 250 | 240 |     |     |
| 25              | 175                    | 280 | 255 | 270 |     |     | 258                    | 267 | 250 | 330 |     |     |
| 30              | 178                    | 253 | 268 | 290 |     |     | 275                    | 242 | 242 | 340 |     |     |
| 35              | 189                    | 240 | 281 | 289 |     |     | 278                    | 242 | 250 | 335 |     |     |
| 40              | 189                    | 241 | 290 | 290 |     |     | 278                    | 248 | 268 | 340 |     |     |
| 45              | 181                    | 275 | 288 | 300 |     |     | 272                    | 251 | 268 | 342 |     |     |
| 50              | 208                    | 280 | 280 |     |     |     | 275                    | 262 | 271 | 350 |     |     |
| 55              | 219                    | 281 | 272 |     |     |     | 275                    | 270 | 275 |     |     |     |
| 60              | 219                    | 280 |     |     |     |     | 278                    | 272 | 280 |     |     |     |
| 65              | 221                    | 283 |     |     |     |     | 279                    | 278 | 290 |     |     |     |
| 70              | 222                    | 291 |     |     |     |     | 279                    | 285 | 330 |     |     |     |
| 75              | 228                    | 300 |     |     |     |     | 280                    | 295 |     |     |     |     |
| 80              | 221                    | 309 |     |     |     |     | 288                    | 295 |     |     |     |     |
| 85              | 230                    | 310 |     |     |     |     | 295                    | 300 |     |     |     |     |
| 90              | 235                    | 332 |     |     |     |     | 310                    |     |     |     |     |     |
| 95              | 245                    |     |     |     |     |     | 330                    |     |     |     |     |     |

Table 10. (continued)

| Depth<br>(feet) | August 30-31*<br>(515') |     |     |     |     |     |     | September 7-8<br>(515') |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|
|                 | A                       | B   | C   | D   | E   | F   | T   | 1                       | 2   | 3   | 4   | 5   | T   |
| 0               | 238                     | 243 | 228 | 205 | 205 | 188 | 300 | 234                     | 238 | 235 | 208 | 390 | 275 |
| 5               |                         |     |     |     |     |     |     | 234                     | 238 | 235 | 208 |     |     |
| 10              | 230                     | 235 | 230 | 205 | 210 | 198 |     | 234                     | 238 | 233 | 215 |     |     |
| 15              |                         |     |     |     |     |     |     | 234                     | 238 | 231 | 215 |     |     |
| 20              | 240                     | 245 | 245 | 215 | 210 | 375 |     | 251                     | 265 | 240 | 242 |     |     |
| 25              |                         |     |     |     |     |     |     | 260                     | 260 | 262 | 310 |     |     |
| 30              | 270                     | 280 | 268 |     | 263 |     |     | 271                     | 252 | 280 | 340 |     |     |
| 35              |                         |     |     |     |     |     |     | 278                     | 248 | 250 | 350 |     |     |
| 40              | 290                     | 273 | 280 |     |     |     |     | 278                     | 245 | 260 | 340 |     |     |
| 45              |                         |     |     |     |     |     |     | 272                     | 252 | 278 | 355 |     |     |
| 50              | 288                     | 225 |     |     |     |     |     | 272                     | 258 | 290 | 370 |     |     |
| 55              |                         |     |     |     |     |     |     | 272                     | 262 | 288 |     |     |     |
| 60              | 280                     |     |     |     |     |     |     | 277                     | 268 | 285 |     |     |     |
| 65              |                         |     |     |     |     |     |     | 277                     | 278 | 291 |     |     |     |
| 70              | 313                     |     |     |     |     |     |     | 275                     | 280 | 320 |     |     |     |
| 75              |                         |     |     |     |     |     |     | 275                     | 286 |     |     |     |     |
| 80              |                         |     |     |     |     |     |     | 281                     | 295 |     |     |     |     |
| 85              |                         |     |     |     |     |     |     | 292                     | 310 |     |     |     |     |
| 90              |                         |     |     |     |     |     |     | 320                     |     |     |     |     |     |
| 95              |                         |     |     |     |     |     |     | 335                     |     |     |     |     |     |

\*KDFWR

Table 10. (continued)

| Depth<br>(feet) | September 21*<br>(514') |     |     |     |     |     |     | September 23-24<br>(514') |     |     |     |     |     |
|-----------------|-------------------------|-----|-----|-----|-----|-----|-----|---------------------------|-----|-----|-----|-----|-----|
|                 | A                       | B   | C   | D   | E   | F   | T   | 1                         | 2   | 3   | 4   | 5   | T   |
| 0               | 230                     | 238 | 230 | 205 | 200 | 200 | 295 | 241                       | 247 | 242 | 238 | 400 | 280 |
| 5               |                         |     |     |     |     |     |     | 240                       | 247 | 245 | 238 |     |     |
| 10              | 233                     | 238 | 230 | 203 | 200 | 200 |     | 240                       | 247 | 245 | 238 |     |     |
| 15              |                         |     |     |     |     |     |     | 240                       | 247 | 244 | 238 |     |     |
| 20              | 233                     | 238 | 235 | 205 | 210 | 356 |     | 241                       | 247 | 244 | 237 |     |     |
| 25              |                         |     |     |     |     |     |     | 244                       | 247 | 247 | 261 |     |     |
| 30              | 243                     | 243 | 243 |     | 220 |     |     | 267                       | 260 | 310 | 329 |     |     |
| 35              |                         |     |     |     |     |     |     | 270                       | 269 | 308 | 350 |     |     |
| 40              | 280                     | 263 | 268 |     |     |     |     | 270                       | 258 | 281 | 353 |     |     |
| 45              |                         |     |     |     |     |     |     | 270                       | 271 | 299 | 382 |     |     |
| 50              | 288                     | 270 |     |     |     |     |     | 268                       | 272 | 302 |     |     |     |
| 55              |                         |     |     |     |     |     |     | 265                       | 275 | 302 |     |     |     |
| 60              | 290                     |     |     |     |     |     |     | 261                       | 279 | 304 |     |     |     |
| 65              |                         |     |     |     |     |     |     | 265                       | 283 | 309 |     |     |     |
| 70              | 283                     |     |     |     |     |     |     | 270                       | 290 |     |     |     |     |
| 75              |                         |     |     |     |     |     |     | 280                       | 295 |     |     |     |     |
| 80              |                         |     |     |     |     |     |     | 285                       | 299 |     |     |     |     |
| 85              |                         |     |     |     |     |     |     | 292                       | 309 |     |     |     |     |
| 90              |                         |     |     |     |     |     |     | 305                       | 321 |     |     |     |     |
| 95              |                         |     |     |     |     |     |     | 360                       |     |     |     |     |     |

\*KDFWR



Table 10. (continued)

| Depth<br>(feet) | October 13-14*<br>(513') |     |     |     |     |     | October 12-13<br>(513') |     |     |     |     |     |     |
|-----------------|--------------------------|-----|-----|-----|-----|-----|-------------------------|-----|-----|-----|-----|-----|-----|
|                 | A                        | B   | C   | D   | E   | F   | T                       | 1   | 2   | 3   | 4   | 5   | T   |
| 0               | 240                      | 245 | 245 | 220 |     | 245 | 255                     | 250 | 255 | 259 | 255 | 410 | 255 |
| 5               |                          |     |     |     |     |     |                         | 249 | 253 | 259 | 255 |     |     |
| 10              | 240                      | 250 | 245 | 225 | 240 | 240 |                         | 249 | 252 | 257 | 252 |     |     |
| 15              |                          |     |     |     |     |     |                         | 249 | 252 | 257 | 250 |     |     |
| 20              | 245                      | 255 | 240 | 233 | 233 | 390 |                         | 249 | 252 | 257 | 250 |     |     |
| 25              |                          |     |     |     |     |     |                         | 249 | 252 | 257 | 254 |     |     |
| 30              | 238                      | 253 | 238 |     | 235 |     |                         | 249 | 252 | 257 | 265 |     |     |
| 35              |                          |     |     |     |     |     |                         | 250 | 254 | 255 | 280 |     |     |
| 40              | 250                      | 253 | 250 |     |     |     |                         | 254 | 268 | 251 | 293 |     |     |
| 45              |                          |     |     |     |     |     |                         | 259 | 271 | 280 | 310 |     |     |
| 50              | 258                      | 258 |     |     |     |     |                         | 265 | 275 | 328 |     |     |     |
| 55              |                          |     |     |     |     |     |                         | 270 | 279 | 331 |     |     |     |
| 60              | 275                      |     |     |     |     |     |                         | 280 | 290 | 338 |     |     |     |
| 65              |                          |     |     |     |     |     |                         | 283 | 295 |     |     |     |     |
| 70              | 260                      |     |     |     |     |     |                         | 289 | 299 |     |     |     |     |
| 75              |                          |     |     |     |     |     |                         | 291 | 300 |     |     |     |     |
| 80              |                          |     |     |     |     |     |                         | 295 | 300 |     |     |     |     |
| 85              |                          |     |     |     |     |     |                         | 299 | 320 |     |     |     |     |
| 90              |                          |     |     |     |     |     |                         | 319 |     |     |     |     |     |

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Table 10. (continued)

| Depth<br>(feet) | October 27*<br>(511') |     |     |     |     |     |     | November 10-12<br>(502') |     |     |     |     |     |
|-----------------|-----------------------|-----|-----|-----|-----|-----|-----|--------------------------|-----|-----|-----|-----|-----|
|                 | A                     | B   | C   | D   | E   | F   | T   | 1                        | 2   | 3   | 4   | 5   | T   |
| 0               | 220                   | 255 | 245 | 225 | 235 | 278 | 255 | 267                      | 260 | 259 | 269 | 419 | 243 |
| 5               |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 10              | 250                   | 255 | 245 | 225 | 248 | 350 |     | 267                      | 261 | 259 | 269 |     |     |
| 15              |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 20              | 245                   | 255 | 245 | 230 | 250 | 423 |     | 267                      | 261 | 257 | 291 |     |     |
| 25              |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 30              | 250                   | 225 | 245 |     |     |     |     | 265                      | 261 | 257 | 360 |     |     |
| 35              |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 40              | 250                   | 230 |     |     |     |     |     | 263                      | 261 | 255 |     |     |     |
| 45              |                       |     |     |     |     |     |     |                          |     | 272 |     |     |     |
| 50              | 240                   |     |     |     |     |     |     | 261                      | 261 |     |     |     |     |
| 55              |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 60              | 255                   |     |     |     |     |     |     | 261                      | 269 |     |     |     |     |
| 65              |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 70              |                       |     |     |     |     |     |     | 261                      |     |     |     |     |     |
| 75              |                       |     |     |     |     |     |     |                          |     |     |     |     |     |
| 80              |                       |     |     |     |     |     |     | 270                      |     |     |     |     |     |

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Table 10. (continued)

| Depth<br>(feet) | November 30*<br>(490') |     |     |   |   |   | December 14-15<br>(485') |     |     |     |     |     |     |
|-----------------|------------------------|-----|-----|---|---|---|--------------------------|-----|-----|-----|-----|-----|-----|
|                 | A                      | B   | C   | D | E | F | T                        | 1   | 2   | 3   | 4   | 5   | T   |
| 0               | 255                    | 255 | 250 |   |   |   | 265                      | 275 | 279 | 301 | 323 | 372 | 279 |
| 5               |                        |     |     |   |   |   |                          |     |     |     |     |     |     |
| 10              | 255                    | 255 | 245 |   |   |   |                          | 270 | 272 | 308 | 323 |     |     |
| 15              |                        |     |     |   |   |   |                          |     |     |     |     |     |     |
| 20              | 255                    | 258 |     |   |   |   |                          | 270 | 272 | 311 |     |     |     |
| 25              |                        |     |     |   |   |   |                          |     |     |     |     |     |     |
| 30              | 255                    | 245 |     |   |   |   |                          | 272 | 272 | 325 |     |     |     |
| 35              |                        |     |     |   |   |   |                          |     |     |     |     |     |     |
| 40              | 258                    | 250 |     |   |   |   |                          | 272 | 279 |     |     |     |     |
| 45              |                        |     |     |   |   |   |                          |     | 281 |     |     |     |     |
| 50              |                        |     |     |   |   |   |                          | 272 |     |     |     |     |     |
| 55              |                        |     |     |   |   |   |                          |     |     |     |     |     |     |
| 60              |                        |     |     |   |   |   |                          | 272 |     |     |     |     |     |

\*KDFWR

A P P E N D I X B

BENTHOS PRODUCTION-1971

Barren River Reservoir

Nolin River Reservoir

Table 1. Average numbers and dry weights (excluding crayfishes and oligochaeta) per sampler and total numbers of taxa for all periods (1, 2, 3), stations (A, B, C), and depths, Barren River Reservoir, 1971.

|     | <u>Numbers Per Sampler</u>          |        |       |       |       |        |       |       |       |       |       |       | Avg. for Period |
|-----|-------------------------------------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-----------------|
|     | A                                   | B      | C     | Avg   | A     | B      | C     | Avg   | A     | B     | C     | Avg   |                 |
| 1   | 369.0                               | 137.5  | 112.0 | 225.0 | 65.8  | 58.5   | 44.0  | 52.1  | 48.0  | 29.3  | 31.5  | 37.2  | 101.46          |
| 2   | 156.8                               | 336.0  | 191.3 | 206.4 | 20.0  | 30.0   | 25.8  | 24.3  | 171.3 | 73.5  | 83.0  | 124.8 | 118.0           |
| 3   | 1104.8                              | 1058.0 | 574.8 | 883.4 | 329.5 | 2584.0 | 287.0 | 763.4 | 150.3 | 170.5 | 188.0 | 163.8 | 635.2           |
| Avg | 543.5                               | 417.3  | 328.8 | 438.3 | 138.4 | 687.8  | 111.6 | 255.7 | 123.2 | 75.6  | 100.8 | 103.4 |                 |
|     | <u>Dry Weights (mg) Per Sampler</u> |        |       |       |       |        |       |       |       |       |       |       |                 |
| 1   | 26.5                                | 21.3   | 12.3  | 24.0  | 38.1  | 18.8   | 7.8   | 25.9  | 20.8  | 4.9   | 3.6   | 14.5  | 22.0            |
| 2   | 8.9                                 | 12.3   | 27.4  | 16.2  | -     | -      | -     | -     | 8.4   | 11.0  | 14.5  | 11.9  | 14.2            |
| 3   | 298.7                               | 35.8   | 108.5 | 234.5 | 44.1  | 489.8  | 44.0  | 155.5 | 46.8  | 21.3  | 27.4  | 31.3  | 157.5           |
| Avg | 131.8                               | 103.2  | 67.2  | 103.1 | 40.1  | 175.8  | 34.6  | 83.47 | 26.5  | 14.0  | 16.4  | 19.3  |                 |
|     | <u>Total Number of Taxa</u>         |        |       |       |       |        |       |       |       |       |       |       |                 |
| 1   | 14                                  | 12     | 9     | 11.7  | 11    | 15     | 9     | 11.7  | 15    | 11    | 11    | 12.3  |                 |
| 2   | 6                                   | 9      | 11    | 8.7   | 8     | 6      | 7     | 7.0   | 4     | 3     | 3     | 3.3   |                 |
| 3   | 16                                  | 17     | 13    | 15.3  | 10    | 12     | 9     | 10.3  | 11    | 10    | 7     | 9.3   |                 |

Table 2. Average numbers of dominant benthos per sampler for three sampling periods (1, 2, 3), three stations (A, B, C), and three depths (15', 25', 40'), Barren River Reservoir, April - October, 1971. See text for more detail.

|                   |   | 15 Feet |       |       |       | 25 Feet |       |       |       | 40 Feet |       |       |       | Tot. Avg. /Period |
|-------------------|---|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|-------------------|
|                   |   | A       | B     | C     | Avg   | A       | B     | C     | Avg   | A       | B     | C     | Avg   |                   |
| DIPTERA           |   |         |       |       |       |         |       |       |       |         |       |       |       |                   |
| Chaoborus         | 1 | 0       | 0     | 0     | 0     | .3      | 4.3   | 0     | 1.8   | 0       | 1.0   | 0     | .4    | .63               |
|                   | 2 | 82.3    | 0     | 0     | 32.9  | 3.5     | 16.0  | 19.8  | 12.5  | 19.3    | 71.5  | 77.0  | 46.8  | 29.6              |
|                   | 3 | .3      | .5    | .3    | .3    | 3.8     | 0     | 81.0  | 33.9  | 8.8     | 109.5 | 160.5 | 71.9  | 32.8              |
| Chironomus        | 1 | 31.0    | 53.8  | 22.5  | 38.4  | 10.3    | 15.0  | 14.5  | 13.0  | 6.3     | 5.8   | 6.5   | 6.1   | 19.2              |
|                   | 2 | .5      | 45.5  | 24.8  | 19.2  | .8      | 2.0   | 1.8   | 1.4   | 0       | 0     | 0     | 0     | 7.4               |
|                   | 3 | 109.8   | 163.5 | 33.8  | 90.1  | 4.3     | 264.5 | 80.3  | 86.7  | 35.0    | 1.0   | 8.5   | 19.87 | 53.1              |
| Glyptotendipes    | 1 | 13.5    | 23.0  | 11.5  | 16.9  | 1.0     | 4.3   | 2.5   | 2.6   | .3      | 0     | .5    | .2    | 6.6               |
|                   | 2 | 2.0     | 56.5  | 16.8  | 18.8  | .5      | 3.5   | .3    | 1.0   | .5      | 0     | 0     | .3    | 7.1               |
|                   | 3 | 331.8   | 501.5 | 221.3 | 321.5 | 91.3    | 842.5 | 66.5  | 231.6 | 88.8    | 35.5  | 9.5   | 55.6  | 213.4             |
| TRICHOPTERA       |   |         |       |       |       |         |       |       |       |         |       |       |       |                   |
| Cynnellus         | 1 | .3      | 0     | 1.5   | .4    | 0       | .8    | .5    | .4    | .3      | 0     | 0     | .1    | .3                |
|                   | 2 | 0       | 0     | 4.0   | 1.6   | 0       | 0     | 0     | 0     | 0       | 0     | 0     | 0     | .6                |
|                   | 3 | 24.3    | 37.5  | 55.5  | 39.4  | 1.0     | 425.5 | 8.5   | 88.9  | .3      | 2.5   | 3.0   | 1.5   | 46.3              |
| EPHEMEROPTERA     |   |         |       |       |       |         |       |       |       |         |       |       |       |                   |
| Stenonema         | 1 | 4.5     | 2.5   | 5.5   | 3.9   | 13.0    | 1.3   | 14.0  | 7.1   | 4.5     | .3    | 1.5   | 2.0   | 4.3               |
|                   | 2 | 0       | 1.0   | 4.3   | 1.9   | 0       | .5    | 0     | .2    | 0       | 0     | 0     | 0     | .7                |
|                   | 3 | 41.0    | 21.5  | 43.5  | 38.1  | 3.3     | 59.0  | 2.0   | 13.9  | .3      | 1.0   | 1.0   | .6    | 18.8              |
| Caenis            | 1 | 1.3     | 3.3   | 0     | 1.8   | .8      | 1.3   | 0     | .8    | 1.3     | .5    | 0     | .7    | 1.1               |
|                   | 2 | 0       | 3.5   | 3.5   | 2.1   | 0       | 0     | .5    | .2    | .3      | 0     | 0     | .1    | .9                |
|                   | 3 | 39.3    | 9.5   | 3.3   | 18.9  | 2.5     | 27.0  | 2.3   | 7.3   | 1.0     | .5    | 0     | .6    | 9.5               |
| OLIGOCHAETA       | 1 | 289.0   | 42.8  | 60.5  | 144.8 | 17.3    | 21.5  | 12.5  | 18.0  | 29.0    | 16.8  | 8.0   | 19.9  | 60.9              |
|                   | 2 | 69.3    | 211.5 | 129.0 | 121.6 | 14.3    | 7.0   | 2.3   | 8.2   | 151.3   | 1.5   | 4.0   | 77.0  | 68.4              |
|                   | 3 | 441.5   | 171.5 | 206.0 | 293.3 | 218.3   | 377.0 | 43.0  | 179.9 | 13.3    | 17.5  | 4.0   | 12.0  | 172.4             |
| CNIDARIA          | 1 | 16.8    | .5    | 0     | 6.9   | 14.8    | 6.8   | 3.5   | 9.3   | .3      | .3    | 3.5   | .9    | 5.7               |
|                   | 2 | 2.5     | .5    | 2.0   | 1.9   | 0       | 0     | .5    | .2    | 0       | 0     | 2.0   | .5    | .9                |
|                   | 3 | 1.5     | 7.5   | 1.3   | 2.6   | 0       | 0     | 0     | 0     | 0       | 0     | 0     | 0     | .9                |
| Total per Station |   | 500.7   | 370.8 | 319.9 | 405.8 | 133.6   | 533.6 | 131.7 | 239.6 | 120.1   | 72.4  | 96.2  | 99.9  |                   |



Table 3. Average numbers and dry weights (excluding crayfishes and oligochaeta) per sampler and total numbers of taxa for all periods (1, 2, 3), stations (A, B, C), and depths, Moline River Reservoir, 1971.

|     | <u>Numbers Per Sampler</u>          |          |          |            |                |          |          |            |                |          |          |            | <u>Avg. for Period</u> |
|-----|-------------------------------------|----------|----------|------------|----------------|----------|----------|------------|----------------|----------|----------|------------|------------------------|
|     | <u>15 Feet</u>                      |          |          |            | <u>25 Feet</u> |          |          |            | <u>40 Feet</u> |          |          |            |                        |
|     | <u>A</u>                            | <u>B</u> | <u>C</u> | <u>Avg</u> | <u>A</u>       | <u>B</u> | <u>C</u> | <u>Avg</u> | <u>A</u>       | <u>B</u> | <u>C</u> | <u>Avg</u> |                        |
| 1   | 219.8                               | 169.7    | 181.0    | 192.0      | 90.8           | 59.3     | 68.3     | 72.8       | 79.3           | 126.5    | 281.8    | 162.5      | 141.0                  |
| 2   | 155.5                               | 464.5    | 650.8    | 423.6      | 384.8          | 102.5    | 321.5    | 576.3      | 107.0          | 110.0    | 109.0    | 108.7      | 369.5                  |
| 3   | 245.0                               | 243.0    | 405.0    | 308.6      | 702.0          | 485.0    | 186.3    | 452.3      | 26.5           | 38.5     | 102.0    | 59.1       | 273.3                  |
| Avg | 206.8                               | 317.0    | 412.3    | 311.5      | 392.5          | 529.7    | 192.3    | 362.2      | 70.9           | 102.3    | 164.3    | 113.1      |                        |
|     | <u>Dry Weights (mg) Per Sampler</u> |          |          |            |                |          |          |            |                |          |          |            |                        |
| 1   | 24.8                                | 41.0     | 15.4     | 25.8       | 20.3           | 21.0     | 9.4      | 16.9       | 11.5           | 16.3     | 12.5     | 13.4       | 18.5                   |
| 2   | 45.3                                | 51.3     | 13.8     | 36.8       | 29.8           | 50.6     | 24.0     | 34.8       | 16.3           | 16.4     | 15.5     | 16.0       | 30.9                   |
| 3   | 52.3                                | 63.0     | 42.3     | 50.4       | 17.2           | 36.3     | 40.2     | 31.7       | -              | -        | 14.8     | 5.9        | 29.3                   |
| Avg | 40.8                                | 50.5     | 23.8     | 37.3       | 22.9           | 35.9     | 24.5     | 27.4       | 7.9            | 12.7     | 14.1     | 11.6       |                        |
|     | <u>Total Number of Taxa</u>         |          |          |            |                |          |          |            |                |          |          |            |                        |
| 1   | 12                                  | 13       | 10       | 11.7       | 14             | 9        | 9        | 10.7       | 9              | 8        | 4        | 7.0        |                        |
| 2   | 11                                  | 10       | 4        | 8.3        | 12             | 12       | 4        | 9.3        | 3              | 5        | 5        | 4.3        |                        |
| 3   | 12                                  | 11       | 12       | 11.7       | 9              | 8        | 10       | 9.0        | 3              | 3        | 3        | 3.0        |                        |

Table 4. Average numbers of dominant benthos per sampler for three sampling periods (1, 2, 3), three stations (A, B, C), and three depths (15', 25', 40'), Molin River Reservoir, April - October, 1971. See text for more detail.

|                            |   | 15 Feet |       |       |       | 25 Feet |       |       |       | 40 Feet |       |       |       | Tot. Avg.<br>/Period |
|----------------------------|---|---------|-------|-------|-------|---------|-------|-------|-------|---------|-------|-------|-------|----------------------|
|                            |   | A       | B     | C     | Avg   | A       | B     | C     | Avg   | A       | B     | C     | Avg   |                      |
| DIPTERA<br>Chaoborus       | 1 | 0       | 0     | 0     | 0     | 0       | 0     | 0     | 0     | 0       | 0     | 0     | 0     | 0                    |
|                            | 2 | 0       | 33.5  | 119.3 | 50.9  | 3.5     | 25.3  | 243.3 | 90.7  | 81.5    | 77.5  | 59.0  | 72.7  | 71.4                 |
|                            | 3 | 0       | .5    | 1.0   | .5    | .3      | 0     | .3    | .2    | 24.8    | 27.0  | 101.5 | 55.9  | 18.9                 |
| Chironomus                 | 1 | 16.5    | 20.7  | 4.3   | 13.2  | 5.3     | 14.8  | 5.3   | 8.4   | 6.0     | 16.8  | 16.5  | 13.1  | 11.5                 |
|                            | 2 | 36.5    | 36.5  | 5.5   | 26.2  | 72.5    | 95.0  | .5    | 56.0  | 0       | .8    | .3    | .3    | 27.5                 |
|                            | 3 | 11.3    | 15.5  | 30.3  | 19.7  | 20.3    | 34.0  | 34.8  | 28.8  | .5      | 7.5   | 0     | 1.7   | 16.7                 |
| Glyptotendipes             | 1 | 9.5     | 2.0   | .5    | 4.2   | .5      | .3    | 0     | .3    | 0       | 0     | 0     | 0     | 1.4                  |
|                            | 2 | 34.0    | 69.0  | 23.8  | 42.3  | 25.8    | 80.0  | 1.0   | 35.6  | 0       | .8    | .5    | .4    | 26.1                 |
|                            | 3 | 5.5     | 24.5  | 152.3 | 68.0  | 7.3     | 25.0  | 46.3  | 26.4  | 0       | 0     | .3    | .1    | 31.5                 |
| TRICHOPTERA<br>Cymellus    | 1 | 0       | .3    | .8    | .4    | 1.0     | 2.0   | 1.0   | 1.3   | .5      | 2.5   | 0     | 1.0   | .9                   |
|                            | 2 | .3      | 2.0   | 0     | .8    | .3      | 1.0   | 0     | .4    | 0       | 0     | 0     | 0     | .4                   |
|                            | 3 | 8.0     | 48.5  | 16.5  | 19.5  | 4.3     | 26.0  | 22.0  | 15.7  | 0       | 0     | .3    | .1    | 11.8                 |
| EPHEMEROPTERA<br>Stenonema | 1 | 5.5     | 9.7   | 5.8   | 6.7   | 8.5     | 4.3   | 1.5   | 4.8   | .5      | 1.3   | 0     | .6    | 3.9                  |
|                            | 2 | 57.8    | 20.8  | 0     | 26.2  | 46.5    | .5    | 0     | 15.7  | .5      | 0     | 0     | .2    | 14.0                 |
|                            | 3 | 154.0   | 108.0 | 4.5   | 8.5   | 21.8    | 34.5  | 8.2   | 18.9  | 0       | 0     | 0     | 0     | 34.6                 |
| Caenis                     | 1 | .8      | 1.0   | 0     | .5    | 0       | 0     | 0     | 0     | 0       | 0     | 0     | 0     | .2                   |
|                            | 2 | .3      | 1.0   | 0     | .4    | .3      | 2.5   | 0     | 9     | 0       | 0     | 0     | 0     | .4                   |
|                            | 3 | .5      | 0     | .5    | .4    | 0       | 0     | 0     | 0     | 0       | 0     | 0     | 0     | .1                   |
| OLIGOCHAETA                | 1 | 75.5    | 57.0  | 32.5  | 54.8  | 41.0    | 27.8  | 42.0  | 36.0  | 31.3    | 103.3 | 232.5 | 122.3 | 71.8                 |
|                            | 2 | 19.5    | 296.8 | 502.3 | 272.8 | 229.0   | 792.5 | 76.8  | 366.1 | 25.0    | 30.0  | 48.8  | 34.6  | 224.5                |
|                            | 3 | 56.0    | 36.0  | 191.3 | 106.1 | 642.5   | 358.0 | 72.0  | 357.8 | 1.3     | 4.0   | 0     | 1.3   | 155.1                |
| CNIDARIA                   | 1 | 104.8   | 71.3  | 134.8 | 106.5 | 30.8    | 6.3   | 16.0  | 17.7  | 38.8    | 0     | 32.3  | 23.7  | 47.7                 |
|                            | 2 | 0       | 2.3   | 0     | .8    | 2.0     | 17.0  | 0     | 6.3   | 0       | 0     | 0     | 0     | 7.1                  |
|                            | 3 | 1.5     | 0     | 0     | .6    | 1.5     | 0     | 0     | .6    | 0       | 0     | 0     | 0     | .4                   |
| Total per Station          |   | 199.2   | 311.0 | 498.5 | 305.8 | 388.5   | 523.1 | 190.3 | 358.1 | 70.2    | 100.8 | 112.3 | 112.3 |                      |



A P P E N D I X C

FISH POPULATION STUDIES-1971

Barren River Reservoir

Nolin River Reservoir

Table 1. Species composition, relative abundance, and biomass composition of the fish population in Barren River Reservoir during May, 1971. Size of cove sampled: 1.75 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Walleye           | -                             | -      | 1                               | 0.3    | -                              | -      | 1                   | 0.3    | tr                                | 0.1     |
| Largemouth bass   | 2                             | 0.1    | 12                              | 1.1    | 11                             | 10.4   | 25                  | 11.6   | 1.2                               | 2.3     |
| Spotted bass      | -                             | -      | 1                               | 0.1    | 1                              | 0.4    | 2                   | 0.5    | 0.1                               | 0.1     |
| Black crappie     | -                             | -      | 2                               | 0.1    | 5                              | 1.0    | 7                   | 1.2    | 0.3                               | 0.2     |
| White crappie     | 1                             | tr     | 3                               | 0.3    | 2                              | 0.7    | 6                   | 1.1    | 0.3                               | 0.2     |
| Total             | 3                             | 0.1    | 19                              | 2.0    | 19                             | 12.6   | 41                  | 14.7   | 2.0                               | 2.9     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | -                             | -      | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | tr      |
| Flathead catfish  | -                             | -      | 1                               | 0.1    | 1                              | 0.2    | 2                   | 0.3    | 0.1                               | 0.1     |
| Total             | -                             | -      | 1                               | 0.2    | 1                              | 0.2    | 2                   | 0.4    | 0.1                               | 0.1     |
| TOTAL PISCIVOROUS | 3                             | 0.1    | 21                              | 2.2    | 19                             | 12.8   | 43                  | 15.1   | 2.0                               | 3.0     |
| PANFISHES         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill          | 1                             | tr     | 49                              | 3.0    | 113                            | 23.9   | 162                 | 26.9   | 7.7                               | 5.4     |
| Green sunfish     | -                             | -      | 1                               | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Longear sunfish   | 3                             | tr     | 91                              | 6.2    | 17                             | 2.4    | 110                 | 8.6    | 5.2                               | 1.7     |
| Redear sunfish    | -                             | -      | -                               | -      | 1                              | 0.1    | 1                   | 0.1    | tr                                | tr      |
| Warmouth          | -                             | -      | 2                               | 0.1    | 1                              | 0.1    | 2                   | 0.2    | 0.1                               | tr      |
| Total             | 3                             | tr     | 142                             | 9.3    | 131                            | 26.5   | 276                 | 35.9   | 13.1                              | 7.2     |

Table 1. (continued)

| GROUP/species                    | Fingerling size<br>(per acre) |            | Intermediate size<br>(per acre) |              | Harvestable size<br>(per acre) |              | Total<br>(per acre) |              | Percentage of<br>total population |              |
|----------------------------------|-------------------------------|------------|---------------------------------|--------------|--------------------------------|--------------|---------------------|--------------|-----------------------------------|--------------|
|                                  | Number                        | Pounds     | Number                          | Pounds       | Number                         | Pounds       | Number              | Pounds       | Number                            | Biomass      |
| <b>COMMERCIAL FISHES</b>         |                               |            |                                 |              |                                |              |                     |              |                                   |              |
| Redhorses                        | -                             | -          | 8                               | 3.6          | 12                             | 12.2         | 20                  | 15.8         | 1.0                               | 3.2          |
| Spotted sucker                   | 1                             | tr         | 2                               | 0.3          | 2                              | 1.4          | 5                   | 1.7          | 0.2                               | 0.3          |
| Carp                             | -                             | -          | 42                              | 25.9         | 207                            | 203.6        | 250                 | 229.5        | 11.9                              | 46.1         |
| Yellow bullhead                  | -                             | -          | 1                               | 0.2          | 1                              | 0.2          | 2                   | 0.4          | 0.1                               | 0.1          |
| <b>Total</b>                     | <b>1</b>                      | <b>tr</b>  | <b>53</b>                       | <b>30.0</b>  | <b>222</b>                     | <b>217.4</b> | <b>276</b>          | <b>247.4</b> | <b>13.1</b>                       | <b>49.7</b>  |
| <u>Above forage size</u>         |                               |            |                                 |              |                                |              |                     |              |                                   |              |
| <b>FORAGE FISHES</b>             |                               |            |                                 |              |                                |              |                     |              |                                   |              |
| Gizzard shad                     | -                             | -          | 690                             | 69.6         | 801                            | 130.2        | 1491                | 199.8        | 71.0                              | 40.1         |
| Logperch                         | 1                             | tr         | 11                              | 0.2          | -                              | -            | 13                  | 0.2          | 0.6                               | tr           |
| Brook silverside                 | -                             | -          | 2                               | tr           | -                              | -            | 2                   | tr           | 0.1                               | tr           |
| <b>Total</b>                     | <b>1</b>                      | <b>tr</b>  | <b>703</b>                      | <b>69.9</b>  | <b>801</b>                     | <b>130.2</b> | <b>1505</b>         | <b>200.1</b> | <b>71.7</b>                       | <b>40.2</b>  |
| <b>NON-PISCIVOROUS<br/>TOTAL</b> | <b>5</b>                      | <b>tr</b>  | <b>898</b>                      | <b>109.2</b> | <b>154</b>                     | <b>374.1</b> | <b>2057</b>         | <b>483.4</b> | <b>98.0</b>                       | <b>97.0</b>  |
| <b>GRAND TOTAL</b>               | <b>8</b>                      | <b>0.1</b> | <b>919</b>                      | <b>111.4</b> | <b>1173</b>                    | <b>386.9</b> | <b>2100</b>         | <b>498.5</b> | <b>100.0</b>                      | <b>100.0</b> |

Table 2. Species composition, relative abundance, and biomass composition of the fish population in Barren River Reservoir during June, 1971. Size of cove sampled: 2.00 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass        | -                             | -      | 12                              | 1.3    | -                              | -      | 12                  | 1.3    | 0.5                               | 0.4     |
| Largemouth bass   | -                             | -      | 12                              | 0.9    | 5                              | 5.2    | 17                  | 6.0    | 0.7                               | 1.8     |
| Spotted bass      | -                             | -      | 5                               | 0.3    | 1                              | 1.8    | 5                   | 2.0    | 0.2                               | 0.6     |
| Black crappie     | -                             | -      | 4                               | 0.6    | 3                              | 0.7    | 7                   | 1.3    | 0.3                               | 0.4     |
| White crappie     | 6                             | 0.1    | 35                              | 1.9    | 2                              | 0.4    | 43                  | 2.4    | 1.8                               | 0.7     |
| Total             | 6                             | 0.1    | 68                              | 5.0    | 10                             | 8.0    | 83                  | 13.1   | 3.5                               | 3.9     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | 1                             | tr     | 20                              | 2.3    | 8                              | 6.7    | 29                  | 9.0    | 1.2                               | 2.7     |
| Flathead catfish  | -                             | -      | 1                               | 0.1    | 2                              | 3.0    | 3                   | 3.1    | 0.1                               | 0.9     |
| Total             | 1                             | tr     | 21                              | 2.3    | 10                             | 9.8    | 31                  | 12.1   | 1.3                               | 3.6     |
| PREDATORY FISHES  |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Longnose gar      | -                             | -      | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | tr      |
| Total             | -                             | -      | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | tr      |
| TOTAL PISCIVOROUS | 7                             | 0.1    | 89                              | 7.4    | 20                             | 17.8   | 115                 | 25.2   | 4.9                               | 7.6     |

Table 2. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| PANFISHES                |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill                 | 10                            | 0.1    | 480                             | 20.3   | 114                            | 17.1   | 603                 | 37.5   | 25.8                              | 11.2    |
| Longear sunfish          | -                             | -      | 126                             | 5.6    | 3                              | 0.3    | 129                 | 5.9    | 5.5                               | 1.8     |
| Warmouth                 | 1                             | tr     | 13                              | 0.3    | 2                              | 0.2    | 15                  | 0.5    | 0.6                               | 0.2     |
| Total                    | 10                            | 0.1    | 619                             | 26.2   | 118                            | 17.6   | 747                 | 43.9   | 31.9                              | 13.1    |
| COMMERCIAL FISHES        |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Redhorses                | 13                            | 0.3    | 7                               | 0.6    | 4                              | 5.1    | 24                  | 6.1    | 1.0                               | 1.8     |
| Spotted sucker           | -                             | -      | 9                               | 3.7    | 5                              | 3.2    | 14                  | 6.9    | 0.6                               | 2.1     |
| Carp                     | -                             | -      | 63                              | 35.2   | 74                             | 64.9   | 137                 | 100.1  | 5.9                               | 29.9    |
| Bullheads                | -                             | -      | 1                               | 0.1    | 2                              | 1.2    | 2                   | 1.3    | 0.1                               | 0.4     |
| Total                    | 13                            | 0.3    | 79                              | 39.6   | 84                             | 74.5   | 176                 | 114.4  | 7.5                               | 34.2    |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| FORAGE FISHES            |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | -                             | -      | 555                             | 57.2   | 550                            | 88.9   | 1104                | 146.0  | 47.2                              | 43.7    |
| Studfish                 | 1                             | tr     | -                               | -      | -                              | -      | 1                   | tr     | tr                                | tr      |
| Darters                  | 7                             | 0.1    | 181                             | 4.7    | -                              | -      | 188                 | 4.7    | 8.0                               | 1.4     |
| Orangespotted sunfish    | 1                             | tr     | -                               | -      | -                              | -      | 1                   | tr     | tr                                | tr      |
| Brook silverside         | 2                             | tr     | 10                              | 0.1    | -                              | -      | 12                  | 0.1    | 0.5                               | tr      |
| Total                    | 10                            | 0.1    | 745                             | 61.9   | 550                            | 88.9   | 1304                | 150.8  | 55.7                              | 45.1    |
| NON-PISCIVOROUS          |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                    | 33                            | 0.5    | 1442                            | 127.6  | 752                            | 181.0  | 2227                | 309.1  | 95.1                              | 92.5    |
| GRAND TOTAL              | 40                            | 0.6    | 1531                            | 135.0  | 771                            | 198.8  | 2341                | 334.3  | 100.0                             | 100.0   |



Table 3. Species composition, relative abundance, and biomass composition of the fish population in Barren River Reservoir during July, 1971. Size of cove sampled: 1.50 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass        | 14                            | 0.1    | 1                               | 0.3    | 5                              | 2.3    | 20                  | 2.8    | 1.5                               | 1.9     |
| Walleye           | -                             | -      | 1                               | 0.3    | -                              | -      | 1                   | 0.3    | 0.1                               | 0.2     |
| Largemouth bass   | 23                            | 0.3    | 1                               | 0.1    | -                              | -      | 24                  | 0.4    | 1.8                               | 0.3     |
| Spotted bass      | 155                           | 1.1    | 4                               | 0.6    | 1                              | 0.6    | 159                 | 2.3    | 12.1                              | 1.6     |
| Black crappie     | -                             | -      | 1                               | 0.1    | 1                              | 0.3    | 2                   | 0.4    | 0.2                               | 0.3     |
| White crappie     | 3                             | tr     | 7                               | 0.6    | 2                              | 0.4    | 13                  | 1.0    | 1.0                               | 0.6     |
| Total             | 196                           | 1.5    | 15                              | 2.1    | 9                              | 3.6    | 219                 | 7.2    | 16.6                              | 4.9     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | 1                             | tr     | 1                               | 0.2    | 9                              | 4.8    | 11                  | 5.0    | 0.9                               | 3.4     |
| Flathead catfish  | 1                             | tr     | 1                               | 0.2    | 3                              | 2.2    | 5                   | 2.4    | 0.4                               | 1.6     |
| Total             | 1                             | tr     | 3                               | 0.4    | 12                             | 7.0    | 16                  | 7.4    | 1.2                               | 5.0     |
| TOTAL PISCIVOROUS | 197                           | 1.6    | 17                              | 2.5    | 21                             | 10.6   | 235                 | 14.7   | 17.8                              | 9.9     |
| PANFISHES         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill          | 19                            | 0.3    | 115                             | 6.5    | 13                             | 2.4    | 147                 | 9.2    | 11.1                              | 6.2     |
| Longear sunfish   | 1                             | tr     | 80                              | 4.5    | -                              | -      | 80                  | 4.5    | 6.1                               | 3.1     |
| Warmouth          | -                             | -      | 11                              | 0.8    | 1                              | 0.1    | 11                  | 0.9    | 0.9                               | 0.6     |
| Total             | 19                            | 0.3    | 206                             | 11.8   | 13                             | 2.5    | 239                 | 14.6   | 18.1                              | 9.9     |

Table 3. (continued)

| GROUP/species                    | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|----------------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                                  | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>COMMERCIAL FISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Golden redhorse                  | -                             | -      | 1                               | tr     | 5                              | 5.2    | 5                   | 5.2    | 0.4                               | 3.5     |
| Spotted sucker                   | -                             | -      | 3                               | 0.5    | -                              | -      | 3                   | 0.5    | 0.2                               | 0.3     |
| Carp                             | -                             | -      | 21                              | 11.0   | 19                             | 20.8   | 40                  | 31.8   | 3.0                               | 21.6    |
| <b>Total</b>                     | -                             | -      | 24                              | 11.6   | 23                             | 26.0   | 48                  | 37.5   | 3.6                               | 25.4    |
| <b>FORAGE FISHES</b>             |                               |        |                                 |        |                                |        |                     |        |                                   |         |
|                                  |                               |        |                                 |        | <u>Above forage size</u>       |        |                     |        |                                   |         |
| Gizzard shad                     | 298                           | 2.0    | 171                             | 21.9   | 279                            | 56.2   | 748                 | 80.1   | 56.7                              | 54.3    |
| Brindled madtom                  | 3                             | tr     | -                               | -      | -                              | -      | 3                   | tr     | 0.2                               | tr      |
| Darters                          | 25                            | 0.1    | 21                              | 0.6    | -                              | -      | 46                  | 0.7    | 3.5                               | 0.5     |
| Brook silverside                 | -                             | -      | 1                               | tr     | -                              | -      | 1                   | tr     | 0.1                               | tr      |
| <b>Total</b>                     | 326                           | 2.2    | 192                             | 22.5   | 279                            | 56.2   | 798                 | 80.8   | 60.5                              | 54.8    |
| <b>NON-PISCIVOROUS<br/>TOTAL</b> | 346                           | 2.5    | 422                             | 45.8   | 316                            | 84.6   | 1084                | 132.9  | 82.2                              | 90.1    |
| <b>GRAND TOTAL</b>               | 543                           | 4.1    | 440                             | 48.3   | 337                            | 95.2   | 1319                | 147.6  | 100.0                             | 100.0   |

Table 4. Species composition, relative abundance, and biomass composition of the fish population in Barren River Reservoir during August, 1971. Size of cove sampled: 2.00 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass        | 7                             | 0.1    | 3                               | 0.2    | -                              | -      | 10                  | 0.3    | 0.2                               | 0.1     |
| Largemouth bass   | 199                           | 1.9    | 52                              | 5.3    | 3                              | 1.5    | 254                 | 8.8    | 4.4                               | 2.2     |
| Spotted bass      | 61                            | 0.4    | 8                               | 1.5    | 1                              | 0.3    | 69                  | 2.2    | 1.2                               | 0.6     |
| Black crappie     | 1                             | tr     | 3                               | 0.3    | 2                              | 0.3    | 5                   | 0.6    | 0.1                               | 0.2     |
| White crappie     | -                             | -      | 18                              | 1.7    | 9                              | 1.9    | 27                  | 3.6    | 0.5                               | 0.9     |
| Total             | 267                           | 2.5    | 84                              | 9.0    | 14                             | 4.1    | 364                 | 15.5   | 6.3                               | 3.9     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | -                             | -      | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | tr      |
| Flathead catfish  | 1                             | tr     | -                               | -      | 1                              | 0.8    | 2                   | 0.8    | tr                                | 0.2     |
| Total             | 1                             | tr     | 1                               | 0.1    | 1                              | 0.8    | 2                   | 0.8    | tr                                | 0.2     |
| TOTAL PISCIVOROUS | 267                           | 2.5    | 85                              | 9.0    | 15                             | 4.8    | 366                 | 16.3   | 6.4                               | 4.1     |
| PANFISHES         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill          | 113                           | 0.7    | 284                             | 12.5   | 48                             | 8.1    | 445                 | 21.3   | 7.7                               | 5.4     |
| Longear sunfish   | 9                             | tr     | 185                             | 7.5    | 2                              | 0.2    | 196                 | 7.7    | 3.4                               | 2.0     |
| Warmouth          | 2                             | tr     | 27                              | 2.4    | 1                              | 0.2    | 30                  | 2.6    | 0.5                               | 0.7     |
| Total             | 124                           | 0.7    | 496                             | 22.4   | 51                             | 8.5    | 670                 | 31.6   | 11.6                              | 8.0     |



Table 4. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>COMMERCIAL FISHES</b> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Redhorses                | -                             | -      | 1                               | 0.1    | 2                              | 2.0    | 2                   | 2.0    | tr                                | 0.5     |
| Spotted sucker           | -                             | -      | 2                               | 0.9    | 3                              | 2.0    | 5                   | 2.9    | 0.1                               | 0.7     |
| Carp                     | -                             | -      | 7                               | 4.4    | 6                              | 6.6    | 12                  | 11.0   | 0.2                               | 2.8     |
| Yellow bullhead          | 2                             | tr     | 1                               | 0.1    | 1                              | 0.2    | 3                   | 0.3    | tr                                | 0.1     |
| Total                    | 2                             | tr     | 10                              | 5.5    | 11                             | 10.7   | 22                  | 16.1   | 0.4                               | 4.1     |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| <b>FORAGE FISHES</b>     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | 75                            | 0.7    | 4329                            | 281.4  | 250                            | 48.2   | 4653                | 330.3  | 80.9                              | 83.6    |
| Brindled madtom          | 9                             | tr     | 1                               | tr     | -                              | -      | 10                  | tr     | 0.2                               | tr      |
| Darters                  | 5                             | 0.1    | 26                              | 0.8    | -                              | -      | 31                  | 0.8    | 0.5                               | 0.2     |
| Brook silverside         | 1                             | tr     | 1                               | tr     | -                              | -      | 2                   | tr     | tr                                | tr      |
| Total                    | 89                            | 0.7    | 4356                            | 282.2  | 250                            | 48.2   | 4695                | 331.2  | 81.6                              | 83.8    |
| <b>NON-PISCIVOROUS</b>   |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                    | 214                           | 1.5    | 4861                            | 310.0  | 311                            | 67.4   | 5386                | 378.9  | 93.6                              | 95.9    |
| <b>GRAND TOTAL</b>       | 481                           | 3.9    | 4947                            | 319.0  | 326                            | 72.3   | 5752                | 395.2  | 100.0                             | 100.0   |

Table 5. Species composition, relative abundance, and biomass composition of the fish population in Barren River Reservoir during September, 1971. Size of cove sampled: 7.16 acres.

| GROUP/species            | Fingerling size<br>(per acre) |            | Intermediate size<br>(per acre) |             | Harvestable size<br>(per acre) |             | Total<br>(per acre) |             | Percentage of<br>total population |            |
|--------------------------|-------------------------------|------------|---------------------------------|-------------|--------------------------------|-------------|---------------------|-------------|-----------------------------------|------------|
|                          | Number                        | Pounds     | Number                          | Pounds      | Number                         | Pounds      | Number              | Pounds      | Number                            | Biomass    |
| <b>GAME FISHES</b>       |                               |            |                                 |             |                                |             |                     |             |                                   |            |
| White bass               | 16                            | 0.3        | 11                              | 1.1         | 4                              | 2.4         | 31                  | 3.8         | 0.3                               | 1.2        |
| Largemouth bass          | 195                           | 2.9        | 12                              | 1.1         | 4                              | 4.4         | 210                 | 8.4         | 1.9                               | 2.8        |
| Smallmouth bass          | tr                            | tr         | -                               | -           | -                              | -           | tr                  | tr          | tr                                | tr         |
| Spotted bass             | 10                            | 0.2        | 2                               | 0.2         | -                              | 0.3         | 12                  | 0.7         | 0.1                               | 0.2        |
| White crappie            | 11                            | 0.1        | 1                               | 0.2         | 6                              | 2.4         | 18                  | 2.7         | 0.2                               | 0.9        |
| <b>Total</b>             | <b>232</b>                    | <b>3.5</b> | <b>26</b>                       | <b>2.6</b>  | <b>14</b>                      | <b>9.5</b>  | <b>272</b>          | <b>15.6</b> | <b>2.5</b>                        | <b>5.1</b> |
| <b>FOOD FISHES</b>       |                               |            |                                 |             |                                |             |                     |             |                                   |            |
| Channel catfish          | -                             | tr         | 4                               | 0.8         | 4                              | 5.5         | 8                   | 6.3         | 0.1                               | 2.1        |
| Flathead catfish         | 2                             | tr         | -                               | -           | -                              | 0.7         | 2                   | 0.7         | tr                                | 0.2        |
| <b>Total</b>             | <b>2</b>                      | <b>tr</b>  | <b>4</b>                        | <b>0.8</b>  | <b>4</b>                       | <b>6.2</b>  | <b>10</b>           | <b>7.0</b>  | <b>0.1</b>                        | <b>2.3</b> |
| <b>TOTAL PISCIVOROUS</b> | <b>234</b>                    | <b>3.5</b> | <b>30</b>                       | <b>3.4</b>  | <b>18</b>                      | <b>15.7</b> | <b>283</b>          | <b>22.6</b> | <b>2.6</b>                        | <b>7.4</b> |
| <b>PANFISHES</b>         |                               |            |                                 |             |                                |             |                     |             |                                   |            |
| Bluegill                 | 383                           | 2.2        | 321                             | 11.1        | 47                             | 7.2         | 752                 | 20.4        | 6.9                               | 6.7        |
| Longear sunfish          | 44                            | 0.2        | 385                             | 5.8         | tr                             | tr          | 429                 | 6.1         | 3.9                               | 2.0        |
| Redear sunfish           | -                             | -          | -                               | -           | tr                             | tr          | tr                  | tr          | tr                                | tr         |
| Warmouth                 | 21                            | 0.1        | 47                              | 1.5         | 1                              | 0.3         | 69                  | 1.8         | 0.6                               | 0.6        |
| <b>Total</b>             | <b>448</b>                    | <b>2.5</b> | <b>753</b>                      | <b>18.4</b> | <b>49</b>                      | <b>7.5</b>  | <b>1250</b>         | <b>28.3</b> | <b>11.5</b>                       | <b>9.3</b> |

Table 5. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |         | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|---------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds) | Number              | Pounds | Number                            | Biomass |
| <b>COMMERCIAL FISHES</b> |                               |        |                                 |        |                                |         |                     |        |                                   |         |
| Redhorses                | -                             | -      | -                               | -      | 1                              | 1.4     | 1                   | 1.4    | tr                                | 0.5     |
| Spotted sucker           | -                             | -      | tr                              | 0.2    | 4                              | 3.2     | 4                   | 3.4    | tr                                | 1.1     |
| Carp                     | -                             | -      | 2                               | 0.8    | 47                             | 41.7    | 48                  | 42.6   | 0.4                               | 13.9    |
| Bullheads                | 22                            | 0.4    | 4                               | 0.2    | tr                             | 0.1     | 25                  | 0.7    | 0.2                               | 0.2     |
| Total                    | 22                            | 0.4    | 6                               | 1.3    | 51                             | 46.4    | 79                  | 48.0   | 0.7                               | 15.7    |
| <u>Above forage size</u> |                               |        |                                 |        |                                |         |                     |        |                                   |         |
| <b>FORAGE FISHES</b>     |                               |        |                                 |        |                                |         |                     |        |                                   |         |
| Gizzard shad             | 680                           | 5.4    | 8304                            | 160.3  | 198                            | 38.1    | 9183                | 203.7  | 84.2                              | 66.8    |
| Shiners                  | 2                             | tr     | 1                               | tr     | -                              | -       | 2                   | tr     | tr                                | tr      |
| Goldfish                 | -                             | -      | -                               | -      | tr                             | 0.2     | tr                  | 0.2    | tr                                | 0.1     |
| Brindled madtom          | 3                             | tr     | -                               | -      | -                              | -       | 3                   | tr     | tr                                | tr      |
| Darters                  | 2                             | tr     | 91                              | 2.1    | -                              | -       | 93                  | 2.2    | 0.9                               | 0.7     |
| Brook silverside         | 14                            | tr     | 1                               | tr     | -                              | -       | 15                  | 0.1    | 0.1                               | tr      |
| Total                    | 701                           | 5.5    | 8397                            | 162.4  | 198                            | 38.3    | 9296                | 206.2  | 85.2                              | 67.6    |
| <b>NON-PISCIVOROUS</b>   |                               |        |                                 |        |                                |         |                     |        |                                   |         |
| TOTAL                    | 1171                          | 8.3    | 9155                            | 182.0  | 299                            | 92.2    | 10,625              | 282.5  | 97.4                              | 92.6    |
| <b>GRAND TOTAL</b>       | 1405                          | 11.8   | 9186                            | 185.4  | 317                            | 107.9   | 10,907              | 305.2  | 100.0                             | 100.0   |

Table 6. Species composition, relative abundance, and biomass composition of the fish population in Barren River Reservoir during 1971. Size of cove sampled: 5 coves = 14.41 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass        | 10                            | 0.2    | 8                               | 0.8    | 2                              | 1.4    | 20                  | 2.4    | 0.3                               | 0.7     |
| Walleye           | -                             | -      | tr                              | 0.1    | -                              | -      | tr                  | 0.1    | tr                                | tr      |
| Largemouth bass   | 127                           | 1.7    | 16                              | 1.6    | 4                              | 4.4    | 148                 | 7.7    | 2.1                               | 2.3     |
| Smallmouth bass   | tr                            | tr     | -                               | -      | -                              | -      | tr                  | tr     | tr                                | tr      |
| Spotted bass      | 30                            | 0.3    | 3                               | 0.4    | 1                              | 0.5    | 33                  | 1.3    | 0.5                               | 0.4     |
| Black crappie     | tr                            | tr     | 1                               | 0.1    | 1                              | 0.3    | 3                   | 0.5    | tr                                | 0.1     |
| White crappie     | 7                             | 0.1    | 9                               | 0.7    | 5                              | 1.7    | 21                  | 2.4    | 0.3                               | 0.7     |
| Total             | 174                           | 2.3    | 38                              | 3.7    | 14                             | 8.3    | 225                 | 14.3   | 3.2                               | 4.3     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | tr                            | tr     | 5                               | 0.7    | 4                              | 4.2    | 9                   | 4.9    | 0.1                               | 1.5     |
| Flathead catfish  | 1                             | tr     | tr                              | tr     | 1                              | 1.1    | 2                   | 1.2    | tr                                | 0.4     |
| Total             | 1                             | tr     | 5                               | 0.8    | 5                              | 5.3    | 12                  | 6.1    | 0.2                               | 1.9     |
| PREDATORY FISHES  |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Longnose gar      | -                             | -      | tr                              | tr     | -                              | -      | tr                  | tr     | tr                                | tr      |
| Total             | -                             | -      | tr                              | tr     | -                              | -      | tr                  | tr     | tr                                | tr      |
| TOTAL PISCIVOROUS | 175                           | 2.3    | 43                              | 4.5    | 18                             | 13.6   | 237                 | 20.4   | 3.4                               | 6.2     |

Table 6. (continued)

| GROUP/species         | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-----------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                       | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| PANFISHES             |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill              | 209                           | 1.2    | 283                             | 11.1   | 61                             | 10.2   | 554                 | 22.5   | 8.0                               | 6.9     |
| Green sunfish         | -                             | -      | tr                              | tr     | -                              | -      | tr                  | tr     | tr                                | tr      |
| Longear sunfish       | 24                            | 0.1    | 254                             | 5.9    | 3                              | 0.4    | 280                 | 6.4    | 4.0                               | 1.9     |
| Redear sunfish        | -                             | -      | -                               | -      | tr                             | tr     | tr                  | tr     | tr                                | tr      |
| Warmouth              | 11                            | tr     | 30                              | 1.2    | 1                              | 0.2    | 42                  | 1.5    | 0.6                               | 0.4     |
| Total                 | 244                           | 1.4    | 567                             | 18.2   | 65                             | 10.9   | 876                 | 30.4   | 12.6                              | 9.3     |
| COMMERCIAL FISHES     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Redhorses             | 2                             | tr     | 2                               | 0.5    | 3                              | 3.7    | 7                   | 4.3    | 0.1                               | 1.3     |
| Spotted sucker        | tr                            | tr     | 2                               | 0.8    | 3                              | 2.5    | 6                   | 3.3    | 0.1                               | 1.0     |
| Carp                  | -                             | -      | 18                              | 10.2   | 61                             | 57.6   | 79                  | 67.8   | 1.1                               | 20.6    |
| Bullheads             | 11                            | 0.2    | 2                               | 0.1    | tr                             | 0.3    | 13                  | 0.6    | 0.2                               | 0.2     |
| Total                 | 13                            | 0.2    | 24                              | 11.7   | 68                             | 64.0   | 105                 | 76.0   | 1.5                               | 23.1    |
| Above forage size     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| FORAGE FISHES         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad          | 379                           | 3.0    | 4905                            | 137.3  | 336                            | 59.6   | 5620                | 200.0  | 81.0                              | 60.8    |
| Shiners               | 1                             | tr     | tr                              | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Goldfish              | -                             | -      | -                               | -      | tr                             | 0.1    | tr                  | 0.1    | tr                                | tr      |
| Brindled madtom       | 3                             | tr     | tr                              | tr     | -                              | -      | 3                   | tr     | tr                                | tr      |
| Studfish              | tr                            | tr     | -                               | -      | -                              | -      | tr                  | tr     | tr                                | tr      |
| Darters               | 6                             | tr     | 77                              | 1.9    | -                              | -      | 83                  | 1.9    | 1.2                               | 0.6     |
| Orangespotted sunfish | tr                            | tr     | -                               | -      | -                              | -      | tr                  | tr     | tr                                | tr      |
| Brook silverside      | 7                             | tr     | 2                               | tr     | -                              | -      | 9                   | tr     | tr                                | tr      |
| Total                 | 396                           | 3.1    | 4985                            | 139.3  | 336                            | 59.8   | 5717                | 202.1  | 82.4                              | 61.4    |
| NON-PISCIVOROUS       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                 | 652                           | 4.7    | 5576                            | 169.2  | 469                            | 134.6  | 6698                | 308.5  | 96.6                              | 93.8    |
| GRAND TOTAL           | 827                           | 6.9    | 5619                            | 173.7  | 488                            | 148.3  | 6934                | 328.9  | 100.0                             | 100.0   |

Table 7. Vertical distribution, in relation to depth and dissolved oxygen content, of fishes caught in 4 gill nets (each 300' by 8') fished for 2 consecutive nights (August 25-27, 1971) at Barren River Reservoir near Baileys Point. All nets were set perpendicular to the shoreline; all depths are referenced to the surface; dashed lines indicate maximum depths.

| Depth<br>(feet)   | D.O.<br>content<br>(ppm) | Mesh size (bar measure) |            |          |            | Total |
|-------------------|--------------------------|-------------------------|------------|----------|------------|-------|
|                   |                          | 1-inch                  | 1 1/2-inch | 2-inch   | 2 1/2-inch |       |
| 0- 5              | 9.1-9.1                  | 87                      | 20         | 25       | 1          | 133   |
| 5-10              | 9.1-9.1                  | 97                      | 18         | 22       | 1          | 138   |
| 10-15             | 9.1-8.6                  | 32                      | 60         | 15       | 0          | 107   |
| 15-20             | 8.6-0.8                  | <u>0</u>                | <u>9</u>   | 3        | 0          | 12    |
| 20-25             | 0.8-0.3                  |                         |            | <u>0</u> | 0          | 0     |
| 25-30             | 0.3-0.3                  |                         |            |          | 1          | 1     |
| 30-35             | 0.3-0.4                  |                         |            |          | 0          | 0     |
| 35-40             | 0.4-0.4                  |                         |            |          | 0          | 0     |
| Total fish caught |                          | 216                     | 107        | 65       | 3          | 391   |

Table 8. Vertical distribution, in relation to depth and dissolved oxygen content, of fishes caught in 4 gill nets (each 300' by 8') fished for 2 consecutive nights (September 9-11, 1971) at Barren River Reservoir near Walnut Creek boat ramp.

| Depth<br>(feet)   | D.O.<br>content<br>(ppm) | Mesh size (bar measure) |            |          |            | Total |
|-------------------|--------------------------|-------------------------|------------|----------|------------|-------|
|                   |                          | 1-inch                  | 1 1/2-inch | 2-inch   | 2 1/2-inch |       |
| 0- 5              | 9.0-9.2                  | 6                       | 16         | 20       | 3          | 45    |
| 5-10              | 9.2-7.4                  | 51                      | 14         | 17       | 4          | 86    |
| 10-15             | 7.4-3.5                  | 26                      | 13         | 4        | 0          | 43    |
| 15-20             | 3.5-2.5                  | 5                       | 10         | 0        | <u>0</u>   | 15    |
| 20-25             | 2.5-0.4                  | 2                       | 8          | <u>0</u> | <u>0</u>   | 10    |
| 25-30             | 0.4-0.3                  | 0                       | <u>0</u>   | <u>0</u> | <u>0</u>   | 0     |
| 30-35             | 0.3-0.4                  | 2                       |            |          |            | 2     |
| 35-40             | 0.4-0.5                  | 0                       |            |          |            | 0     |
| Total fish caught |                          | 92                      | 61         | 41       | 7          | 201   |

Table 9. Species composition, relative abundance, and biomass composition of the fish population in Nolin River Reservoir during May, 1971. Size of cove sampled: 2.00 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass        | -                             | -      | -                               | -      | 1                              | 0.2    | 1                   | 0.2    | tr                                | tr      |
| Largemouth bass   | 1                             | tr     | 9                               | 1.2    | 19                             | 19.6   | 29                  | 20.8   | 0.6                               | 4.4     |
| Spotted bass      | -                             | -      | 2                               | 0.4    | 5                              | 4.1    | 7                   | 4.4    | 0.2                               | 0.9     |
| Black crappie     | -                             | -      | -                               | -      | 1                              | 0.3    | 1                   | 0.3    | tr                                | 0.1     |
| White crappie     | -                             | -      | 1                               | 0.1    | 6                              | 1.9    | 6                   | 2.0    | 0.1                               | 0.4     |
| Total             | 1                             | tr     | 12                              | 1.6    | 31                             | 26.0   | 43                  | 27.7   | 0.9                               | 5.9     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | 1                             | tr     | 1                               | 0.1    | 1                              | 0.6    | 2                   | 0.7    | tr                                | 0.2     |
| Total             | 1                             | tr     | 1                               | 0.1    | 1                              | 0.6    | 2                   | 0.7    | tr                                | 0.2     |
| TOTAL PISCIVOROUS | 2                             | tr     | 13                              | 1.7    | 31                             | 26.6   | 45                  | 28.4   | 1.0                               | 6.1     |

Table 9. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>PANFISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill                 | 3                             | tr     | 37                              | 2.1    | 46                             | 8.3    | 86                  | 10.4   | 1.8                               | 2.2     |
| Longear sunfish          | 4                             | tr     | 89                              | 4.7    | 11                             | 1.4    | 103                 | 6.1    | 2.2                               | 1.3     |
| Warmouth                 | -                             | -      | 2                               | 0.2    | 5                              | 1.5    | 7                   | 1.7    | 0.1                               | 0.4     |
| Total                    | 6                             | 0.1    | 128                             | 6.9    | 62                             | 11.3   | 195                 | 18.2   | 4.2                               | 3.9     |
| <b>COMMERCIAL FISHES</b> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Spotted sucker           | -                             | -      | 4                               | 0.6    | 1                              | 0.3    | 4                   | 0.9    | 0.1                               | 0.2     |
| Carp                     | -                             | -      | 68                              | 34.8   | 18                             | 13.4   | 86                  | 48.2   | 1.9                               | 10.3    |
| Total                    | -                             | -      | 72                              | 35.3   | 19                             | 13.7   | 90                  | 49.0   | 1.9                               | 10.5    |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| <b>FORAGE FISHES</b>     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | -                             | -      | 4051                            | 330.2  | 232                            | 34.8   | 4283                | 364.9  | 92.3                              | 77.9    |
| Goldfish                 | -                             | -      | 1                               | 0.1    | 12                             | 7.1    | 12                  | 7.2    | 0.3                               | 1.5     |
| Logperch                 | 5                             | tr     | 8                               | 0.2    | -                              | -      | 13                  | 0.2    | 0.3                               | tr      |
| Brook silverside         | 1                             | tr     | 1                               | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Total                    | 5                             | tr     | 4060                            | 330.5  | 244                            | 41.8   | 4308                | 372.3  | 92.9                              | 79.6    |
| <b>NON-PISCIVOROUS</b>   |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                    | 11                            | 0.1    | 4259                            | 372.7  | 324                            | 66.8   | 4593                | 439.6  | 99.0                              | 93.9    |
| <b>GRAND TOTAL</b>       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
|                          | 13                            | 0.1    | 4271                            | 374.4  | 355                            | 93.4   | 4638                | 468.0  | 100.0                             | 100.0   |



Table 10. Species composition, relative abundance, and biomass composition of the fish population in Nolin River Reservoir during June, 1971. Size of cove sampled: 2.00 acres.

| GROUP/species            | Fingerling size<br>(per acre) |             | Intermediate size<br>(per acre) |             | Harvestable size<br>(per acre) |             | Total<br>(per acre) |             | Percentage of<br>total population |             |
|--------------------------|-------------------------------|-------------|---------------------------------|-------------|--------------------------------|-------------|---------------------|-------------|-----------------------------------|-------------|
|                          | Number                        | Pounds      | Number                          | Pounds      | Number                         | Pounds      | Number              | Pounds      | Number                            | Biomass     |
| <b>GAME FISHES</b>       |                               |             |                                 |             |                                |             |                     |             |                                   |             |
| White bass               | 598                           | 1.5         | -                               | -           | 2                              | 0.8         | 600                 | 2.2         | 6.8                               | 1.3         |
| Largemouth bass          | 300                           | 1.6         | 14                              | 2.8         | 5                              | 3.5         | 319                 | 7.8         | 3.6                               | 4.5         |
| Spotted bass             | 6                             | 0.1         | -                               | -           | 1                              | 0.3         | 7                   | 0.4         | 0.1                               | 0.2         |
| Black crappie            | -                             | -           | 6                               | 0.4         | 1                              | 0.1         | 7                   | 0.5         | 0.1                               | 0.3         |
| White crappie            | 6142                          | 8.1         | 88                              | 5.2         | 6                              | 1.3         | 6231                | 14.6        | 70.2                              | 8.4         |
| <b>Total</b>             | <b>7046</b>                   | <b>11.2</b> | <b>104</b>                      | <b>8.4</b>  | <b>13</b>                      | <b>6.0</b>  | <b>7162</b>         | <b>25.5</b> | <b>80.6</b>                       | <b>14.7</b> |
| <b>FOOD FISHES</b>       |                               |             |                                 |             |                                |             |                     |             |                                   |             |
| Channel catfish          | 8                             | 0.1         | 23                              | 2.5         | 4                              | 2.0         | 34                  | 4.6         | 0.4                               | 2.7         |
| Flathead catfish         | 1                             | tr          | 3                               | 0.2         | 2                              | 4.9         | 5                   | 5.1         | 0.1                               | 2.9         |
| <b>Total</b>             | <b>8</b>                      | <b>0.1</b>  | <b>26</b>                       | <b>2.7</b>  | <b>5</b>                       | <b>6.9</b>  | <b>39</b>           | <b>9.7</b>  | <b>0.4</b>                        | <b>5.6</b>  |
| <b>PREDATORY FISHES</b>  |                               |             |                                 |             |                                |             |                     |             |                                   |             |
| Longnose gar             | 1                             | tr          | 7                               | tr          | -                              | -           | 7                   | tr          | 0.1                               | tr          |
| <b>Total</b>             | <b>1</b>                      | <b>tr</b>   | <b>7</b>                        | <b>tr</b>   | <b>-</b>                       | <b>-</b>    | <b>7</b>            | <b>tr</b>   | <b>0.1</b>                        | <b>tr</b>   |
| <b>TOTAL PISCIVOROUS</b> | <b>7054</b>                   | <b>11.2</b> | <b>136</b>                      | <b>11.1</b> | <b>18</b>                      | <b>12.9</b> | <b>7208</b>         | <b>35.3</b> | <b>81.2</b>                       | <b>20.3</b> |

Table 10. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>PANFISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill                 | 30                            | 0.1    | 192                             | 6.6    | 17                             | 2.8    | 238                 | 9.4    | 2.7                               | 5.4     |
| Longear sunfish          | 3                             | tr     | 202                             | 8.2    | 4                              | 0.5    | 203                 | 8.7    | 2.3                               | 5.0     |
| Warmouth                 | -                             | -      | 28                              | 1.4    | 6                              | 1.2    | 33                  | 2.6    | 0.4                               | 1.5     |
| Total                    | 33                            | 0.1    | 421                             | 16.1   | 26                             | 4.4    | 479                 | 20.7   | 5.4                               | 11.9    |
| <b>COMMERCIAL FISHES</b> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Golden redhorse          | -                             | -      | -                               | -      | 1                              | 1.7    | 1                   | 1.7    | tr                                | 1.0     |
| Spotted sucker           | -                             | -      | 9                               | 2.2    | 1                              | 0.3    | 10                  | 2.5    | 0.1                               | 1.4     |
| Carp                     | -                             | -      | 29                              | 15.7   | 37                             | 32.7   | 66                  | 48.5   | 0.7                               | 27.9    |
| Yellow bullhead          | -                             | -      | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | 0.1     |
| Total                    | -                             | -      | 39                              | 18.0   | 39                             | 34.7   | 77                  | 52.7   | 0.9                               | 30.4    |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| <b>FORAGE FISHES</b>     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | 664                           | 2.0    | 221                             | 23.4   | 187                            | 38.4   | 1072                | 63.9   | 12.1                              | 36.8    |
| Shiners                  | 1                             | tr     | -                               | -      | -                              | -      | 1                   | tr     | tr                                | tr      |
| Misc. cyprinids          | 1                             | tr     | -                               | -      | 1                              | 0.6    | 1                   | 0.6    | tr                                | 0.3     |
| Darters                  | 17                            | tr     | 20                              | 0.4    | -                              | -      | 37                  | 0.4    | 0.4                               | 0.3     |
| Brook silverside         | -                             | -      | 2                               | tr     | -                              | -      | 2                   | tr     | tr                                | tr      |
| Total                    | 683                           | 2.1    | 242                             | 23.9   | 188                            | 39.0   | 1113                | 64.9   | 12.5                              | 37.4    |
| <b>NON-PISCIVOROUS</b>   |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                    | 715                           | 2.2    | 701                             | 58.0   | 253                            | 78.2   | 1669                | 138.3  | 18.8                              | 79.7    |
| <b>GRAND TOTAL</b>       | 7769                          | 13.4   | 837                             | 69.1   | 271                            | 91.1   | 8876                | 173.6  | 100.0                             | 100.0   |

Table 11. Species composition, relative abundance, and biomass composition of the fish population in Nolin River Reservoir during July, 1971. Size of cove sampled: 2.00 acres.

| GROUP/species     | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|-------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                   | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| GAME FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass        | 41                            | 1.4    | 13                              | 1.3    | 1                              | 0.2    | 54                  | 2.8    | 0.5                               | 0.4     |
| Largemouth bass   | 77                            | 2.0    | 27                              | 5.1    | 12                             | 8.2    | 115                 | 15.2   | 1.2                               | 2.0     |
| Spotted bass      | 168                           | 1.2    | 37                              | 4.7    | 5                              | 3.2    | 210                 | 9.1    | 2.1                               | 1.2     |
| Black crappie     | 52                            | 0.3    | 11                              | 1.4    | -                              | -      | 63                  | 1.6    | 0.6                               | 0.2     |
| White crappie     | 207                           | 1.0    | 27                              | 2.6    | 4                              | 1.9    | 237                 | 5.4    | 2.4                               | 0.7     |
| Total             | 544                           | 5.8    | 114                             | 15.1   | 21                             | 13.4   | 678                 | 34.3   | 6.8                               | 4.4     |
| FOOD FISHES       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish   | 5                             | 0.1    | 20                              | 1.7    | 5                              | 6.7    | 30                  | 8.5    | 0.3                               | 1.1     |
| Flathead catfish  | 4                             | tr     | 10                              | 1.5    | 3                              | 5.7    | 16                  | 7.3    | 0.2                               | 0.9     |
| Total             | 9                             | 0.1    | 29                              | 3.2    | 8                              | 12.5   | 46                  | 15.8   | 0.5                               | 2.0     |
| PREDATORY FISHES  |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Longnose gar      | -                             | -      | 1                               | 0.2    | -                              | -      | 1                   | 0.2    | tr                                | tr      |
| Total             | -                             | -      | 1                               | 0.2    | -                              | -      | 1                   | 0.2    | tr                                | tr      |
| TOTAL PISCIVOROUS | 552                           | 5.9    | 144                             | 18.5   | 29                             | 25.9   | 725                 | 50.3   | 7.3                               | 6.5     |

Table 11. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>PANFISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill                 | 113                           | 0.3    | 186                             | 10.3   | 69                             | 14.9   | 367                 | 25.6   | 3.7                               | 3.3     |
| Longear sunfish          | 28                            | 0.1    | 395                             | 14.3   | 10                             | 1.3    | 432                 | 15.7   | 4.4                               | 2.0     |
| Warmouth                 | 78                            | 0.7    | 86                              | 4.8    | 5                              | 1.1    | 169                 | 6.6    | 1.7                               | 0.8     |
| Total                    | 219                           | 1.1    | 667                             | 29.4   | 83                             | 17.3   | 968                 | 47.9   | 9.8                               | 6.2     |
| <b>COMMERCIAL FISHES</b> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Redhorses                | -                             | -      | -                               | -      | 3                              | 4.8    | 3                   | 4.8    | tr                                | 0.6     |
| Spotted sucker           | 2                             | tr     | 10                              | 2.5    | -                              | -      | 12                  | 2.6    | 0.1                               | 0.3     |
| Carp                     | -                             | -      | 171                             | 99.0   | 62                             | 72.9   | 232                 | 171.9  | 2.3                               | 22.1    |
| Bullheads                | -                             | -      | 3                               | 0.4    | 2                              | 0.8    | 4                   | 1.1    | tr                                | 0.1     |
| Total                    | 2                             | tr     | 183                             | 101.9  | 66                             | 78.5   | 250                 | 180.4  | 2.5                               | 23.2    |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| <b>FORAGE FISHES</b>     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | 3416                          | 27.1   | 4207                            | 400.9  | 291                            | 60.9   | 7913                | 488.9  | 79.8                              | 63.0    |
| Goldfish                 | 1                             | tr     | 2                               | 0.1    | 12                             | 8.6    | 14                  | 8.7    | 0.1                               | 1.1     |
| Logperch                 | 20                            | 0.1    | 40                              | 0.9    | -                              | -      | 60                  | 1.0    | 0.6                               | 0.1     |
| Brook silverside         | 3                             | tr     | 1                               | tr     | -                              | -      | 3                   | tr     | tr                                | tr      |
| Total                    | 3439                          | 27.3   | 4248                            | 401.9  | 303                            | 69.5   | 7989                | 498.6  | 80.5                              | 64.2    |
| <b>NON-PISCIVOROUS</b>   |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                    | 3659                          | 28.4   | 5097                            | 533.1  | 451                            | 165.3  | 9207                | 726.8  | 92.8                              | 93.6    |
| <b>GRAND TOTAL</b>       | 4211                          | 34.3   | 5241                            | 551.6  | 480                            | 191.2  | 9932                | 777.1  | 100.0                             | 100.0   |

Table 12. Species composition, relative abundance, and biomass composition of the fish population in Nolin River Reservoir during August, 1971. Size of cove sampled: 2.00 acres.

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>GAME FISHES</b>       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass               | 249                           | 6.3    | 18                              | 1.1    | -                              | -      | 267                 | 7.4    | 2.1                               | 2.4     |
| Largemouth bass          | 436                           | 6.2    | 57                              | 6.3    | 24                             | 15.7   | 516                 | 28.2   | 4.0                               | 9.2     |
| Smallmouth bass          | -                             | -      | -                               | -      | 1                              | 0.2    | 1                   | 0.2    | tr                                | 0.1     |
| Spotted bass             | 515                           | 5.1    | 20                              | 2.8    | 8                              | 3.6    | 542                 | 11.5   | 4.2                               | 3.7     |
| Black crappie            | 163                           | 1.0    | 24                              | 2.9    | 1                              | 0.1    | 187                 | 4.1    | 1.4                               | 1.3     |
| White crappie            | 739                           | 4.9    | 145                             | 13.4   | 2                              | 0.4    | 885                 | 18.7   | 6.9                               | 6.1     |
| Total                    | 2101                          | 23.6   | 262                             | 26.4   | 34                             | 20.1   | 2396                | 70.0   | 18.6                              | 22.9    |
| <b>FOOD FISHES</b>       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish          | 18                            | 0.2    | 12                              | 0.6    | 1                              | 0.6    | 30                  | 1.3    | 0.2                               | 0.4     |
| Flathead catfish         | 20                            | 0.1    | 9                               | 0.8    | 1                              | 8.8    | 30                  | 9.6    | 0.2                               | 3.1     |
| Total                    | 38                            | 0.3    | 21                              | 1.3    | 2                              | 9.3    | 60                  | 11.0   | 0.5                               | 3.6     |
| <b>TOTAL PISCIVOROUS</b> | 2138                          | 23.8   | 283                             | 27.8   | 35                             | 29.4   | 2456                | 81.0   | 19.1                              | 26.5    |
| <b>PANFISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Rock bass                | -                             | -      | -                               | -      | 1                              | 0.6    | 1                   | 0.6    | tr                                | tr      |
| Bluegill                 | 733                           | 2.2    | 207                             | 4.9    | 13                             | 1.9    | 952                 | 8.9    | 7.4                               | 2.9     |
| Longear sunfish          | 160                           | 0.8    | 325                             | 10.0   | 1                              | 0.1    | 486                 | 10.9   | 3.8                               | 3.6     |
| Warmouth                 | 89                            | 0.1    | 8                               | 0.7    | 7                              | 1.6    | 104                 | 2.5    | 0.8                               | 0.8     |
| Total                    | 981                           | 3.1    | 540                             | 15.6   | 21                             | 3.7    | 1542                | 22.3   | 12.0                              | 7.3     |

Table 12. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| COMMERCIAL FISHES        |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Spotted sucker           | -                             | -      | 1                               | 0.4    | -                              | -      | 1                   | 0.4    | tr                                | 0.1     |
| Carp                     | -                             | -      | 10                              | 5.9    | 21                             | 19.8   | 30                  | 25.7   | 0.2                               | 8.4     |
| Yellow bullhead          | 1                             | tr     | -                               | -      | -                              | -      | 1                   | tr     | tr                                | tr      |
| Total                    | 1                             | tr     | 11                              | 6.3    | 21                             | 19.8   | 32                  | 26.0   | 0.2                               | 8.5     |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| FORAGE FISHES            |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | 3615                          | 33.5   | 3354                            | 99.7   | 216                            | 34.9   | 7184                | 168.1  | 55.7                              | 54.9    |
| Goldfish                 | -                             | -      | -                               | -      | 3                              | 2.1    | 3                   | 2.1    | tr                                | 0.7     |
| Logperch                 | -                             | -      | 12                              | 0.4    | -                              | -      | 12                  | 0.4    | 0.1                               | 0.1     |
| Brook silverside         | 1649                          | 6.2    | 2                               | tr     | -                              | -      | 1651                | 6.2    | 12.8                              | 2.0     |
| Total                    | 5264                          | 39.7   | 3367                            | 100.1  | 218                            | 37.0   | 8849                | 176.8  | 68.7                              | 57.7    |
| NON-PISCIVOROUS<br>TOTAL | 6246                          | 42.8   | 3917                            | 121.9  | 260                            | 60.5   | 10,423              | 225.2  | 80.9                              | 73.5    |
| GRAND TOTAL              | 8384                          | 66.6   | 4200                            | 149.7  | 295                            | 89.9   | 12,878              | 306.1  | 100.0                             | 100.0   |

Table 13. Species composition, relative abundance, and biomass composition of the fish population in Nolin River Reservoir during September, 1971. Size of cove sampled: 5.18 acres.

| GROUP/species            | Fingerling size<br>(per acre) |            | Intermediate size<br>(per acre) |             | Harvestable size<br>(per acre) |             | Total<br>(per acre) |             | Percentage of<br>total population |             |
|--------------------------|-------------------------------|------------|---------------------------------|-------------|--------------------------------|-------------|---------------------|-------------|-----------------------------------|-------------|
|                          | Number                        | Pounds     | Number                          | Pounds      | Number                         | Pounds      | Number              | Pounds      | Number                            | Biomass     |
| <b>GAME FISHES</b>       |                               |            |                                 |             |                                |             |                     |             |                                   |             |
| White bass               | 4                             | 0.1        | 46                              | 7.7         | 4                              | 1.2         | 54                  | 9.0         | 1.4                               | 4.5         |
| Largemouth bass          | 201                           | 2.1        | 44                              | 3.5         | 5                              | 8.5         | 250                 | 14.1        | 6.6                               | 7.1         |
| Spotted bass             | 29                            | 0.4        | 8                               | 1.3         | 2                              | 1.1         | 39                  | 2.8         | 1.0                               | 1.4         |
| Black crappie            | 1                             | tr         | 1                               | 0.1         | 1                              | 0.4         | 2                   | 0.5         | 0.1                               | 0.2         |
| White crappie            | 136                           | 1.6        | 3                               | 0.3         | 5                              | 2.4         | 144                 | 4.3         | 3.8                               | 2.2         |
| <b>Total</b>             | <b>371</b>                    | <b>4.3</b> | <b>102</b>                      | <b>12.8</b> | <b>17</b>                      | <b>13.5</b> | <b>489</b>          | <b>30.6</b> | <b>13.0</b>                       | <b>15.4</b> |
| <b>FOOD FISHES</b>       |                               |            |                                 |             |                                |             |                     |             |                                   |             |
| Channel catfish          | 1                             | tr         | 24                              | 2.9         | 4                              | 8.1         | 30                  | 11.0        | 0.8                               | 5.5         |
| Flathead catfish         | 4                             | 0.1        | 2                               | 0.2         | 1                              | 0.6         | 7                   | 0.8         | 0.2                               | 0.4         |
| <b>Total</b>             | <b>6</b>                      | <b>0.1</b> | <b>25</b>                       | <b>3.1</b>  | <b>5</b>                       | <b>8.6</b>  | <b>36</b>           | <b>11.9</b> | <b>1.0</b>                        | <b>6.0</b>  |
| <b>PREDATORY FISHES</b>  |                               |            |                                 |             |                                |             |                     |             |                                   |             |
| Longnose gar             | -                             | -          | tr                              | 0.1         | -                              | -           | tr                  | 0.1         | tr                                | tr          |
| <b>Total</b>             | <b>-</b>                      | <b>-</b>   | <b>tr</b>                       | <b>0.1</b>  | <b>-</b>                       | <b>-</b>    | <b>tr</b>           | <b>0.1</b>  | <b>tr</b>                         | <b>tr</b>   |
| <b>TOTAL PISCIVOROUS</b> | <b>377</b>                    | <b>4.4</b> | <b>128</b>                      | <b>16.0</b> | <b>22</b>                      | <b>22.2</b> | <b>526</b>          | <b>42.5</b> | <b>13.9</b>                       | <b>21.4</b> |

Table 13. (continued)

| GROUP/species                    | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|----------------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                                  | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>PANFISHES</b>                 |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Bluegill                         | 440                           | 4.5    | 142                             | 4.6    | 29                             | 4.7    | 611                 | 13.7   | 16.2                              | 6.9     |
| Green sunfish                    | 1                             | tr     | tr                              | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Longear sunfish                  | 185                           | 0.9    | 170                             | 7.2    | 3                              | 0.4    | 358                 | 8.6    | 9.5                               | 4.3     |
| Warmouth                         | 106                           | 0.5    | 14                              | 0.7    | 5                              | 0.7    | 125                 | 1.9    | 3.3                               | 1.0     |
| Total                            | 732                           | 6.0    | 327                             | 12.5   | 38                             | 5.7    | 1096                | 24.3   | 29.1                              | 12.2    |
| <b>COMMERCIAL FISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Silver redhorse                  | -                             | -      | -                               | -      | tr                             | 0.4    | tr                  | 0.4    | tr                                | 0.2     |
| Spotted sucker                   | -                             | -      | 1                               | 0.2    | -                              | -      | 1                   | 0.2    | tr                                | 0.1     |
| Carp                             | -                             | -      | 37                              | 20.9   | 20                             | 23.4   | 58                  | 44.3   | 1.5                               | 22.3    |
| Yellow bullhead                  | 1                             | tr     | 3                               | 0.1    | 1                              | 0.3    | 4                   | 0.4    | 0.1                               | 0.2     |
| Total                            | 1                             | tr     | 41                              | 21.2   | 21                             | 24.1   | 63                  | 45.4   | 1.7                               | 22.8    |
| <u>Above forage size</u>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| <b>FORAGE FISHES</b>             |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad                     | 11                            | 0.1    | 1327                            | 55.9   | 124                            | 22.3   | 1462                | 78.3   | 38.7                              | 39.4    |
| Shiners                          | 1                             | tr     | tr                              | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Misc. cyprinids                  | 1                             | tr     | -                               | -      | 6                              | 4.1    | 7                   | 4.1    | 0.2                               | 2.1     |
| Brindled madtom                  | 17                            | tr     | -                               | -      | -                              | -      | 17                  | tr     | 0.4                               | tr      |
| Darters                          | 151                           | 1.2    | 48                              | 1.1    | -                              | -      | 199                 | 2.2    | 5.3                               | 1.1     |
| Brook silverside                 | 405                           | 2.2    | -                               | -      | -                              | -      | 405                 | 2.2    | 10.7                              | 1.1     |
| Total                            | 585                           | 3.6    | 1375                            | 57.0   | 129                            | 26.4   | 2090                | 86.9   | 55.4                              | 43.7    |
| <b>NON-PISCIVOROUS<br/>TOTAL</b> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
|                                  | 1317                          | 9.6    | 1743                            | 90.7   | 188                            | 56.2   | 3249                | 156.5  | 86.1                              | 78.7    |
| <b>GRAND TOTAL</b>               |                               |        |                                 |        |                                |        |                     |        |                                   |         |
|                                  | 1694                          | 13.9   | 1871                            | 106.7  | 210                            | 78.4   | 3774                | 199.1  | 100.0                             | 100.0   |



Table 14. Species composition, relative abundance, and biomass composition of the fish population in Nolin River Reservoir during 1971. Size of cove sampled: 5 coves = 13.18 acres.

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>GAME FISHES</b>       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| White bass               | 136                           | 1.4    | 23                              | 3.4    | 2                              | 0.7    | 161                 | 5.5    | 2.3                               | 1.6     |
| Largemouth bass          | 202                           | 2.3    | 34                              | 3.7    | 11                             | 10.5   | 247                 | 16.5   | 3.5                               | 4.8     |
| Smallmouth bass          | -                             | -      | -                               | -      | tr                             | tr     | tr                  | tr     | tr                                | tr      |
| Spotted bass             | 116                           | 1.1    | 12                              | 1.7    | 3                              | 2.1    | 132                 | 4.9    | 1.9                               | 1.5     |
| Black crappie            | 33                            | 0.2    | 6                               | 0.7    | 1                              | 0.2    | 40                  | 1.2    | 0.6                               | 0.3     |
| White crappie            | 1129                          | 2.8    | 40                              | 3.3    | 4                              | 1.8    | 1173                | 7.9    | 16.8                              | 2.3     |
| Total                    | 1617                          | 7.8    | 115                             | 12.9   | 21                             | 15.3   | 1753                | 35.9   | 25.1                              | 10.6    |
| <b>FOOD FISHES</b>       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Channel catfish          | 5                             | 0.1    | 18                              | 1.9    | 3                              | 4.7    | 26                  | 6.6    | 0.4                               | 2.0     |
| Flathead catfish         | 5                             | tr     | 4                               | 0.5    | 1                              | 3.2    | 10                  | 3.7    | 0.1                               | 1.1     |
| Total                    | 10                            | 0.1    | 22                              | 2.4    | 4                              | 7.8    | 36                  | 10.3   | 0.5                               | 3.0     |
| <b>PREDATORY FISHES</b>  |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Longnose gar             | tr                            | tr     | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | tr      |
| Total                    | tr                            | tr     | 1                               | 0.1    | -                              | -      | 1                   | 0.1    | tr                                | tr      |
| <b>TOTAL PISCIVOROUS</b> | 1627                          | 7.9    | 137                             | 15.3   | 26                             | 23.1   | 1790                | 46.3   | 25.6                              | 13.6    |
| <b>PANFISHES</b>         |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Rock bass                | -                             | -      | -                               | -      | tr                             | tr     | tr                  | tr     | tr                                | tr      |
| Bluegill                 | 306                           | 2.2    | 150                             | 5.4    | 33                             | 6.1    | 490                 | 13.7   | 7.0                               | 4.0     |
| Green sunfish            | tr                            | tr     | tr                              | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Longear sunfish          | 102                           | 0.5    | 220                             | 8.5    | 5                              | 0.7    | 328                 | 9.7    | 4.7                               | 2.8     |
| Warmouth                 | 67                            | tr     | 24                              | 1.4    | 5                              | 1.1    | 97                  | 2.8    | 1.4                               | 0.8     |
| Total                    | 476                           | 3.0    | 395                             | 15.2   | 44                             | 7.8    | 915                 | 26.1   | 13.1                              | 7.7     |

Table 14. (continued)

| GROUP/species            | Fingerling size<br>(per acre) |        | Intermediate size<br>(per acre) |        | Harvestable size<br>(per acre) |        | Total<br>(per acre) |        | Percentage of<br>total population |         |
|--------------------------|-------------------------------|--------|---------------------------------|--------|--------------------------------|--------|---------------------|--------|-----------------------------------|---------|
|                          | Number                        | Pounds | Number                          | Pounds | Number                         | Pounds | Number              | Pounds | Number                            | Biomass |
| <b>COMMERCIAL FISHES</b> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Redhorses                | -                             | -      | -                               | -      | 1                              | 1.2    | 1                   | 1.2    | tr                                | 0.3     |
| Spotted sucker           | tr                            | tr     | 4                               | 0.9    | tr                             | 0.1    | 4                   | 1.0    | 0.1                               | 0.3     |
| Carp                     | -                             | -      | 57                              | 31.8   | 29                             | 30.3   | 85                  | 62.1   | 1.2                               | 18.3    |
| Bullheads                | tr                            | tr     | 2                               | tr     | tr                             | 0.2    | 2                   | 0.4    | tr                                | 0.1     |
| Total                    | 1                             | tr     | 62                              | 32.8   | 30                             | 31.8   | 93                  | 64.6   | 1.3                               | 19.0    |
| <u>Above forage size</u> |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| <b>FORAGE FISHES</b>     |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| Gizzard shad             | 1172                          | 9.6    | 2318                            | 151.7  | 189                            | 34.4   | 3679                | 195.6  | 52.6                              | 57.5    |
| Shiners                  | tr                            | tr     | tr                              | tr     | -                              | -      | 1                   | tr     | tr                                | tr      |
| Misc. cyprinids          | 1                             | tr     | tr                              | tr     | 6                              | 4.4    | 7                   | 4.4    | 0.1                               | 1.3     |
| Brindled madtom          | 7                             | tr     | -                               | -      | -                              | -      | 7                   | tr     | 0.1                               | tr      |
| Darters                  | 66                            | 0.5    | 31                              | 0.7    | -                              | -      | 96                  | 1.2    | 1.4                               | 0.4     |
| Brook silverside         | 410                           | 1.8    | 1                               | tr     | -                              | -      | 410                 | 1.8    | 5.9                               | 0.5     |
| Total                    | 1655                          | 11.9   | 2350                            | 152.4  | 195                            | 38.8   | 4201                | 203.1  | 60.0                              | 59.7    |
| <b>NON-PISCIVOROUS</b>   |                               |        |                                 |        |                                |        |                     |        |                                   |         |
| TOTAL                    | 2132                          | 14.9   | 2807                            | 200.5  | 269                            | 78.4   | 5208                | 293.8  | 74.4                              | 86.4    |
| <b>GRAND TOTAL</b>       |                               |        |                                 |        |                                |        |                     |        |                                   |         |
|                          | 3759                          | 22.9   | 2944                            | 215.7  | 295                            | 101.5  | 6998                | 340.1  | 100.0                             | 100.0   |

Table 15. Vertical distribution, in relation to depth and dissolved oxygen content, of fishes caught in 4 gill nets (each 300' by 8') fished for 2 consecutive nights (August 23-25, 1971) at Nolin River Reservoir near the island above the dam. All nets were set perpendicular to the shoreline; all depths are referenced to the surface; dashed lines indicate maximum depths.

| Depth<br>(feet)   | D.O.<br>content<br>(ppm) | Mesh size (bar measure) |            |        |              | Total |
|-------------------|--------------------------|-------------------------|------------|--------|--------------|-------|
|                   |                          | 1-inch                  | 1 1/2-inch | 2-inch | 2 1/2-inch   |       |
| 0- 5              | 7.7-7.8                  | 61                      | 31         | 0      | 1            | 93    |
| 5-10              | 7.8-7.9                  | 43                      | 25         | 4      | 2            | 74    |
| 10-15             | 7.9-7.9                  | <u>  3  </u>            | 7          | 3      | 1            | 14    |
| 15-20             | 7.9-4.3                  |                         | 10         | 4      | <u>  1  </u> | 15    |
| 20-25             | 4.3-1.0                  |                         | 4          | 0      |              | 4     |
| 25-30             | 1.0-0.4                  |                         | 0          | 0      |              | 0     |
| 30-35             | 0.4-0.4                  |                         | 0          | 0      |              | 0     |
| Total fish caught |                          | 107                     | 77         | 11     | 5            | 200   |

Table 16. Vertical distribution, in relation to depth and dissolved oxygen content, of fishes caught in 4 gill nets (each 300' by 8') fished for 2 consecutive nights (September 7-9, 1971) at Nolin River Reservoir in the Conoloway Creek arm. All nets were set perpendicular to the shoreline; all depths are referenced to the surface; dashed lines indicate maximum depths.

| Depth<br>(feet)   | D.O.<br>content<br>(ppm) | Mesh size (bar measure) |            |              |            | Total |
|-------------------|--------------------------|-------------------------|------------|--------------|------------|-------|
|                   |                          | 1-inch                  | 1 1/2-inch | 2-inch       | 2 1/2-inch |       |
| 0- 5              | 7.4-7.6                  | 36                      | 7          | 1            | 1          | 45    |
| 5-10              | 7.6-7.4                  | 39                      | 5          | 0            | 0          | 44    |
| 10-15             | 7.4-6.7                  | 54                      | 3          | 1            | 2          | 60    |
| 15-20             | 6.7-5.0                  | 52                      | 3          | 0            | 2          | 57    |
| 20-25             | 5.0-0.3                  | 8                       | 0          | 1            | 0          | 9     |
| 25-30             | 0.3-0.3                  | 1                       | 2          | 1            | 0          | 4     |
| 30-35             | 0.3-0.4                  | <u>  0  </u>            | 2          | <u>  1  </u> | 0          | 3     |
| 35-40             | 0.4-0.4                  |                         | 0          |              | 0          | 0     |
| Total fish caught |                          | 190                     | 22         | 5            | 5          | 222   |