<table>
<thead>
<tr>
<th>DAM NAME</th>
<th>CITY OF COLUMBUS</th>
<th>RIVER</th>
<th>SCIOTO</th>
<th>NEAREST TOWN</th>
<th>COLUMBUS</th>
<th>STATE</th>
<th>OHIO</th>
<th>COUNTY</th>
<th>DELAWARE</th>
<th>SHEET No.</th>
<th>19 - 13</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>RESERVOIR DATA SUMMARY</th>
<th>O'SHAUGHNESSY</th>
<th>NAME OF RESERVOIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAM</td>
<td>CITY OF COLUMBUS</td>
<td>RIVER</td>
</tr>
<tr>
<td>1. OWNER</td>
<td>City of Columbus</td>
<td>2. RIVER</td>
</tr>
<tr>
<td>8. TOP OF DAM ELEV.</td>
<td>-</td>
<td>9. SPILLWAY CREST ELEV.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RESERVOIR</th>
<th>FLOOD CONTROL</th>
<th>POWER</th>
<th>WATER SUPPLY</th>
<th>IRRIGATION</th>
<th>CONSERVATION</th>
<th>INACTIVE</th>
<th>LENGTH OF RESERVOIR</th>
<th>7.3 (1913)</th>
<th>7.8 (1925)</th>
<th>MILES</th>
<th>AV. WIDTH OF RESERVOIR</th>
<th>0.19</th>
<th>MILES</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>WATERSHED DATA</th>
<th>TOTAL DRAINAGE AREA</th>
<th>988</th>
<th>SQ.MI.</th>
<th>MEAN ANNUAL PRECIPITATION</th>
<th>39</th>
<th>INCHES</th>
<th>NET SEDIMENT CONTRIBUTING AREA</th>
<th>987</th>
<th>SQ.MI.</th>
<th>MEAN ANNUAL RUNOFF</th>
<th>649</th>
<th>AC.FT.</th>
</tr>
</thead>
</table>

| DATE OF SURVEY | PERIOD YEARS | ACCL. YEARS | TYPE OF SURVEY | NO. OF RANGES OR CONTOUR INT. | SURFACE AREA ACRES | STORAGE ACRE- FEET | ACCUMULATED ACRE- FEET | DATE STORAGE BEGAN | 1/ WITH 3-FOOT FLASHBOARDS ADDED IN MAY 1945, THE SURFACE AREA IS 94.5 ACRES AND STORAGE CAPACITY 17,000 ACRE- FEET. ALL FIGURES, HOWEVER, ARE BASED UPON THE PERMANENT SPILLWAY ELEVATION OF 845. |
|----------------|--------------|-------------|----------------|-------------------------------|------------------|----------------------|-----------------------|------------------|------------------|------------------|
| Fall 1925 | - | - | - | - | 829 | 16,673 | 16,673 | Fall 1925 | |
| Sep-Nov 1931 | 9.0 | 9.0 | Range detailed | 65 | 829 | 15,604 | 15.8 | 649 | sq.m. | * | |
| Sep-Dec 1942 | 8.0 | 17.0 | " | 65 | 829 | 14,538 | 14.7 | |

<table>
<thead>
<tr>
<th>DATE OF SURVEY</th>
<th>PERIOD ANNUAL PRECIPITATION</th>
<th>PERIOD WATER INFLOWS</th>
<th>WATER INFLOWS TO DATE AC.FT.</th>
<th>PERIOD SEDIMENT DEPOSITS</th>
<th>TOTAL SED. DEPOSITS TO DATE AC.FEET.</th>
<th>SED.DEP. TONS PER SQ.MI.-YR.</th>
<th>STORAGE LOSS PCT.</th>
<th>SED. INFLOW PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep-Dec 1942</td>
<td>673 per * sq. mi.</td>
<td>1,069</td>
<td>0.121</td>
<td>1,069</td>
<td>119</td>
<td>0.121</td>
<td>350 *</td>
<td></td>
</tr>
<tr>
<td>Sep-Dec 1942</td>
<td>1,066</td>
<td>133</td>
<td>0.135</td>
<td>2,135</td>
<td>126</td>
<td>0.128</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1/ With 3-foot flashboards added in May 1945, the surface area is 94.5 acres and storage capacity 17,000 acre-feet. All figures, however, are based upon the permanent spillway elevation of 845.

* Estimated.
<table>
<thead>
<tr>
<th>DATE OF SURVEY</th>
<th>DEPTH DESIGNATION RANGE IN FEET ABOVE, AND BELOW, CREST ELEVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DATE OF SURVEY</th>
<th>REACH DESIGNATION PERCENT OF TOTAL ORIGINAL LENGTH OF RESERVOIR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100 105 110 115 120 125</td>
</tr>
<tr>
<td></td>
<td>PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RANGE IN RESERVOIR OPERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER YEAR</td>
</tr>
<tr>
<td>-------------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELEVATION-AREA-CAPACITY DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEVATION</td>
</tr>
<tr>
<td>------------</td>
</tr>
</tbody>
</table>


**REMARKS AND REFERENCES**
- Sanderson, E.E., Sedimentation of Reservoirs in Ohio, Ohio Water Resources Board, Bulletin No. 17, Columbus, Ohio, April 1948.
- Brune, Gunnar M., Rates of sediment production in Midwestern United States, U. S. Soil Conserv. Serv., SCS-TP-65, 10 pp., illus., processed, Milwaukee, Wis. Dec. 1948.
- Brune, Gunnar M., Discussion of "Reservoir Problems," by Thomas Maddock, Jr., Proceedings, Federal Inter-Agency Sedimentation Conference, Denver, Colo., May 19, 1936:
  - Edwards, A.M., Silting of the O'Shaughnessy Reservoir, Civil Engin. 6(8):511-512, 1936
  - Region 3, Soil Conservation Service
  - U.S. Dept of Agriculture

**AGENCY SUPPLYING DATA**
- Milwaukee, Wisconsin

**DATE**
- July 22, 1949
# Reservoir Sedimentation Data Summary

<table>
<thead>
<tr>
<th>Column</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OWNER</strong></td>
<td>City of Columbus</td>
</tr>
<tr>
<td><strong>RIVER</strong></td>
<td>Scioto</td>
</tr>
<tr>
<td><strong>STATE</strong></td>
<td>Ohio</td>
</tr>
<tr>
<td><strong>COUNTY</strong></td>
<td>Delaware</td>
</tr>
<tr>
<td><strong>SPILLWAY CREST ELEV.</strong></td>
<td>845</td>
</tr>
</tbody>
</table>

1. **LEVEL OF RESERVOIR**: 7.3 (1943); 82.1 (1925) MILES; AV. WIDTH OF RESERVOIR 0.19 MILES
2. **TOTAL DRAINAGE AREA**: 988 SQ. MI.
3. **MEAN ANNUAL PRECIPITATION**: 39 INCHES
4. **MEAN ANNUAL RUNOFF**: 629 PER SQ. MI. AG. FT.

### Reservoir Data

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Period Years</th>
<th>Accl. Years</th>
<th>Type of Survey</th>
<th>NO. OF Ranges OR Contour Int.</th>
<th>Surface Area Acres</th>
<th>Capacity Acre-Feet</th>
<th>Cw Ratio Acre-FT. PER SQ. MI.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 1925</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>829</td>
<td>16,673</td>
<td>16.9</td>
</tr>
<tr>
<td>Sept-Nov. 1934</td>
<td>9.0</td>
<td>9.0 Detail</td>
<td>n</td>
<td>65</td>
<td>829</td>
<td>15,604</td>
<td>15.8</td>
</tr>
<tr>
<td>Sept-Dec. 1942</td>
<td>8.0</td>
<td>17.0</td>
<td>n</td>
<td>65</td>
<td>829</td>
<td>14,538</td>
<td>14.7</td>
</tr>
<tr>
<td>July 1951</td>
<td>9</td>
<td>26</td>
<td>n</td>
<td>38</td>
<td>829</td>
<td>14,162</td>
<td>14.3</td>
</tr>
</tbody>
</table>

### Water Flow Data

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Period Annual Precipitation</th>
<th>Period Water Inflow Acre-Feet</th>
<th>Water Infl. To Date Acre-FT.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept.-Dec. 1942</td>
<td>673* PER SQ. MI.</td>
<td>-</td>
<td>673* PER SQ. MI.</td>
</tr>
</tbody>
</table>

### Survey Data

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Period Total Acre-Feet</th>
<th>Av. Annual Acre-Feet</th>
<th>PER SQ. MI.-YEAR</th>
<th>Total to Date Acre-Feet</th>
<th>Av. Annual Acre-Feet</th>
<th>PER SQ. MI.-YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept.-Nov. 1934</td>
<td>1,069</td>
<td>119</td>
<td>0.121</td>
<td>1,069</td>
<td>119</td>
<td>0.121</td>
</tr>
<tr>
<td>Sept.-Dec. 1942</td>
<td>1,066</td>
<td>133</td>
<td>0.135</td>
<td>2,135</td>
<td>126</td>
<td>0.128</td>
</tr>
<tr>
<td>July 1951</td>
<td>559#</td>
<td>62.2#</td>
<td>0.063#</td>
<td>2,757#</td>
<td>106#</td>
<td>0.107#</td>
</tr>
</tbody>
</table>

### Sedimentation Data

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Av. Dry Wgt. LBS. PER CU. FT.</th>
<th>Sed. Dep. Tons PER SQ. MI.-YEAR</th>
<th>Storage Loss PCT.</th>
<th>Sed. Inflow PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept-Nov 1934</td>
<td>65*</td>
<td>171</td>
<td>0.71</td>
<td>6.41</td>
</tr>
<tr>
<td>Sept-Dec 1942</td>
<td>65*</td>
<td>191</td>
<td>0.76</td>
<td>-</td>
</tr>
<tr>
<td>July 1951</td>
<td>44.2</td>
<td>60.5</td>
<td>0.62</td>
<td>16.2</td>
</tr>
</tbody>
</table>

Note: With 3-ft. flashboards added in May 1945, the surface area is 945 acres and storage capacity 17,000 acre-feet. All figures, however, are based upon the permanent spillway elevation of 845.

* Estimated

#See bulletin 24 "Sedimentation of Reservoirs in Ohio (2nd ed.)"
### Depth Designation Range in Feet Above, and Below, Crest Elevation

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Percent of Total Sediment Located Within Depth Designation</th>
</tr>
</thead>
</table>

### Reach Designation Percent of Total Original Length of Reservoir

<table>
<thead>
<tr>
<th>Date of Survey</th>
<th>Percent of Total Sediment Located Within Reach Designation</th>
</tr>
</thead>
</table>

### Range in Reservoir Operation

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

### Elevation-Area-Capacity Data

<table>
<thead>
<tr>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
<th>Elevation</th>
<th>Area</th>
<th>Capacity</th>
</tr>
</thead>
</table>

### Remarks and References

- Hahn, C. L., Sedimentation of Reservoirs in Ohio, Ohio Div. of Water, Bulletin No. 24, Columbus, Ohio, July 1954.

- Sanderson, E. E., Sedimentation of Reservoirs in Ohio, Ohio Water Resources Board, Bulletin No. 17, Columbus, Ohio, April 1948.

### Agency Supplying Data

Ohio Division of Water

### Date

June 24, 1954