## Reservoir Sediment Data Summary

**Round Butte**

### Data Sheet No.
- **34-9**

### Dam Information
1. **Owner**: [Info]
2. **Sec.**: 19
3. **Twp.**: 11 N
4. **Range**: 8 W
5. **Nearest Town**: Wellington
6. **County**: Larimer
7. **Stream**: Coal Creek
8. **Nearest Town**: [Info]
9. **State**: Colorado
10. **County**: Larimer
11. **Stream Bed Elevation**: 90.1
12. **Top of Dam Elevation**: 120.1
13. **Spillway Crest Elevation**: 114.4

### Reservoir Details
- **Length of Reservoir**: 0.3 Miles
- **Average Width of Reservoir**: 0.3 Miles

### Watershed Information
- **Total Drainage Area**: 11.7 Sq. Mi.
- **Mean Annual Precipitation**: [Info]
- **Mean Annual Runoff**: [Info]
- **Mean Annual Runoff**: [Info]
- **Max. Elev.**: [Info]
- **Min. Elev.**: [Info]
- **Climatic Classification**: Semi-arid

### Survey Data
#### 25. Date of Survey
- **1905**
- **June 1965**

#### 26. Date of Survey
- **June 1965**

#### 27. Period
- **60**
- **60**

#### 28. Accl. Years of Survey
- **Range**

#### 29. Type of Survey
- **13**

#### 30. No. of Ranges or Contour Int.
- **52**

#### 31. Surface Area Acres
- **831**

#### 32. Capacity Acre-Feet
- **785**

#### 33. G.W. Ratio
- **71**

#### 34. Period Water Inflow Acre-Feet
- **52**

#### 35. Period Water Inflow to Date Acre-Feet
- **831**

#### 36. Period Sediment Deposits Acre-Feet
- **46**
- **0.07**

#### 37. Total Sediment Deposits to Date Acre-Feet
- **0.77**

#### 38. Total Dried WT.
- **69**

#### 39. Elevation
- **105**
- **105**

#### 40. Sed. Depn. Tons Per Sq. Mi.-Yr.
- **0.09**

#### 41. Storage Loss Pct.
- **5.54**

#### 42. Sed. Inflow PPM
26. DATE OF SURVEY

<table>
<thead>
<tr>
<th>Depth Designation Range in Feet Above, and Below, Crest Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERCENT OF TOTAL SEDIMENT LOCATED WITHIN DEPTH DESIGNATION</td>
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</table>

26. DATE OF SURVEY

<table>
<thead>
<tr>
<th>Reach Designation Percent of Total Original Length of Reservoir</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>PERCENT OF TOTAL SEDIMENT LOCATED WITHIN REACH DESIGNATION</td>
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</tbody>
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45. RANGE IN RESERVOIR OPERATION

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

46. 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>

47. REMARKS AND REFERENCES

Round Butte Reservoir is an enclosed depression into which a tributary of Coal Creek has been diverted. An additional 7 acre-feet of sediment was measured above the diversion dike, making the total sediment yield 63 acre-feet for the period or a rate of 0.090 acre feet per square mile per year.

48. AGENCY MAKING SURVEY

49. AGENCY SUPPLYING DATA Soil Conservation Service

50. DATE Sept. 10, 1965