<table>
<thead>
<tr>
<th>Mortality of established reproduction by years</th>
<th>Plot 1 (Ungrazed)</th>
<th>Plot 2 (Grazed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total number of reproduction</td>
<td>18</td>
<td>100</td>
</tr>
<tr>
<td>Reproduction death by years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1932-33</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>1934</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>1935</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>1936-38</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Total reproduction dead by 1938</td>
<td>10</td>
<td>21</td>
</tr>
<tr>
<td>Total reproduction surviving by 1938</td>
<td>8</td>
<td>10</td>
</tr>
</tbody>
</table>

\[ V \text{ 1931 seedling alive 6/9/38} \]
### Effect of sheep grazing on pine reproduction

**Long Canyon Plate**

**Plumas National Forest**

**1932 - 38**

<table>
<thead>
<tr>
<th>Mortality of established reproduction by causes.</th>
<th>Plot 1 (Ungrazed)</th>
<th>Plot 2 (Grazed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>%</td>
<td>No.</td>
</tr>
<tr>
<td>Total number of reproduction dead</td>
<td>10</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reproduction death by causes.</th>
<th>Plot 1 (Ungrazed)</th>
<th>Plot 2 (Grazed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural (climate, etc)</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Rodents</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>Sheep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unknown (seeds gone)</td>
<td>8</td>
<td>80</td>
</tr>
</tbody>
</table>

*1931 seedlings alive 6/9/32*
<table>
<thead>
<tr>
<th>Year</th>
<th>Plot 1 (protected)</th>
<th>Plot 2 (grazed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1932</td>
<td>18</td>
<td>2.8</td>
</tr>
<tr>
<td>1933</td>
<td>15</td>
<td>4.2</td>
</tr>
<tr>
<td>1934</td>
<td>14</td>
<td>5.3</td>
</tr>
<tr>
<td>1935</td>
<td>11</td>
<td>5.6</td>
</tr>
<tr>
<td>1938</td>
<td>8</td>
<td>10.3</td>
</tr>
</tbody>
</table>

1931 seedlings alive 6/9/32
## Natural Seedling Germination by Years

### Long Canyon Plots

<table>
<thead>
<tr>
<th>Year of Germination</th>
<th>Plot 1</th>
<th>Plot 2</th>
<th>Plot 3</th>
<th>Plot 4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1931</td>
<td>23</td>
<td>45</td>
<td>0</td>
<td>1</td>
<td>69</td>
</tr>
<tr>
<td>1932</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1933</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>1934</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>9</td>
</tr>
<tr>
<td>1935</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>1936-38</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>28</td>
<td>51</td>
<td>0</td>
<td>4</td>
<td>83</td>
</tr>
</tbody>
</table>

### Notes

- Total number of seedlings: 83
- Specific data for different years and plots.