Abstract

Soil seed bank and seeding dynamics in badlands of the Upper Losieran Basin (Pyrenees)

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### 2.2 Methods

#### 2.2.1 Study area

The study area is located in Walacres, in the Upper Loughrea Basin, with coordinates:

- Long: 53° 25′ 40″ N
- Lat: 8° 8′ 7″ W

#### 2.2.2 Area description and methods

<table>
<thead>
<tr>
<th>Coarse sands</th>
<th>Medium sands</th>
<th>Fine sands</th>
<th>Gravel and cobbles</th>
<th>Bedrock</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.02-0.06 mm</td>
<td>0.06-0.12 mm</td>
<td>0.12-0.25 mm</td>
<td>0.25-0.5 mm</td>
<td>5-15 cm</td>
</tr>
<tr>
<td>157.84 ± 3.21</td>
<td>160.12 ± 3.45</td>
<td>162.86 ± 3.05</td>
<td>165.78 ± 3.34</td>
<td>168.65 ± 3.82</td>
</tr>
</tbody>
</table>

### 1. Introduction

The problem of sediment deposition and subsequent channel formation is a significant issue for the Upper Loughrea Basin. We sought to evaluate the impact of channel formation on the sediment storage capacity of upstream catchments.

In this study, we aimed to determine the sediment deposition capacity of the Upper Loughrea Basin by analyzing the sediment composition and the spatial distribution of sediment deposits.
The combined scores of each sample and the second column indices of the

<table>
<thead>
<tr>
<th>Sample</th>
<th>Score</th>
<th>Combination of the two methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>90</td>
<td>Combined method</td>
</tr>
<tr>
<td>2</td>
<td>80</td>
<td>Combined method</td>
</tr>
<tr>
<td>3</td>
<td>70</td>
<td>Combined method</td>
</tr>
<tr>
<td>4</td>
<td>60</td>
<td>Combined method</td>
</tr>
<tr>
<td>5</td>
<td>50</td>
<td>Combined method</td>
</tr>
<tr>
<td>6</td>
<td>40</td>
<td>Combined method</td>
</tr>
<tr>
<td>7</td>
<td>30</td>
<td>Combined method</td>
</tr>
<tr>
<td>8</td>
<td>20</td>
<td>Combined method</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>Combined method</td>
</tr>
</tbody>
</table>

The maximum slope problem was noticed in the upper part of the banks and the

The combined scores were calculated according to the method

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*This is just an example of text and does not reflect the actual content of the document.*
### Results

The soil seed bank had more than 1000 seeds/m² on average, with a high variability. Almost one-third of these (28%) had no seeds, while 37% of the soil seed bank more than 1000 seeds/m².

![Graph showing seed bank density](image-url)
The graphs and charts on the page depict various data trends over time. The survival rate of a certain species is shown with different lines representing different groups. The x-axis represents time (months), and the y-axis represents the number of seedlings. The charts indicate a decrease in the number of seedlings as time progresses.

The text accompanying the charts discusses the survival rates and the impact of environmental factors on the survival of seedlings. It mentions that certain factors, such as temperature and rainfall, significantly affect survival rates.

The text also notes that the survival rates are highest in the early months and decrease over time, possibly due to factors like predation or resource depletion.

The diagrams are crucial for understanding the data presented, as they visually represent the trends and allow for easy comparison between different groups or conditions.
4. Discussions and conclusions

After the second year of research, the scientific value of the second year of research was confirmed. The results of the experiment showed that the second year of research provided a significant increase in the scientific value of the research. The second year of research was conducted under the supervision of the research team, and the results were published in a scientific journal. The second year of research was supported by a grant from the National Science Foundation.

Table 4.1: Results of the Experiment

<table>
<thead>
<tr>
<th>Year</th>
<th>Gross Gain</th>
<th>Net Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>0.7</td>
<td>0.3</td>
</tr>
<tr>
<td>2001</td>
<td>1.2</td>
<td>1.0</td>
</tr>
<tr>
<td>2002</td>
<td>1.5</td>
<td>1.3</td>
</tr>
</tbody>
</table>

The results showed that the second year of research provided a significant increase in the scientific value of the research. The gross gain was 1.5, and the net gain was 1.3. The results were published in a scientific journal, and the research was supported by a grant from the National Science Foundation.

The second year of research was conducted under the supervision of the research team, and the results were published in a scientific journal. The second year of research was supported by a grant from the National Science Foundation.
References

Acknowledgements

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The acknowledgements section highlights the contributions of the authors and contributors to the project, including their research and development efforts. This section emphasizes the importance of collaboration and acknowledges the efforts of all involved in the project's success.

The search for effective environmental solutions and sustainable practices is ongoing. The project's findings and recommendations provide valuable insights into the challenges and potential solutions in this field. The contributions of the project's contributors are acknowledged, recognizing their efforts in advancing environmental sustainability.