Background Information

Alpine bluegrass (Poa alpina) in the wild in Alaska grows in a wide range of habitats and soil conditions. Some of these are:
- dry slopes
- gravelly sites
- rocky sites
- alpine and sub-alpine sites
- meadows

Growth

Alpine bluegrass is a perennial bunch grass. It does not spread itself vegetatively, but instead is dependent on seeds for reproduction. It does not get tall (10—40 centimeters).

The flexibility of Poa alpina, with its tolerance to climatic, soil, fire, and drought conditions, makes it important for high altitude revegetation. It also has low nutrient needs.

Distribution

Poa alpina is circumpolar in distribution. It is native to Alaska (see map). It is an alpine and low arctic species. (Hultén, 1968).

Cultivar: ‘Gruening’

Plant Introduction Number: 540425

‘Gruening’ alpine bluegrass is a cultivar developed by the Alaska Plant Materials Center in 1991 for revegetation uses.

‘Gruening’ alpine bluegrass outperformed 24 other accessions of alpine bluegrass in hardiness and seed production. It was tested both at the Plant Materials Center and at many off-site locations. Evaluations assessed growth in erosion treatments and revegetation sites.

‘Gruening’ is extremely winter hardy with early maturation of seed (Wright, 1991).

Historical Uses

Bluegrass, in Alaska, was used as a fiber for clothes, mats, and bedding. The dried leaves were used to line boots, dry hands, and for several fishing and hunting purposes. (Moerman, 2002).
‘Gruening’ Alpine Bluegrass

‘Gruening’ Alpine Bluegrass
for Alaska Revegetation Purposes

‘Gruening’ germinates reliably in the field—plus, it will grow on disturbed, gravelly, low nutrient sites! This makes it an important part of mixes for alpine and sub-alpine revegetation, and for sites needing erosion control.

Alpine Bluegrass for Forage Purposes

Although alpine bluegrass has a good forage value, its production is low.

Note: Alpine bluegrass does not perform well when planted with annual ryegrass.

Alpine Bluegrass is a short bunch grass that can grow almost anywhere!

Growing up to 50 cm, the flowering head develops with the leaves.

It is a perennial that can serve as the pioneer species for a revegetation project. Once established, other plants can follow.

To Produce ‘Gruening’ Alpine Bluegrass:

‘Gruening’ bluegrass can be established on dry soil as long as there is some irrigation component.

‘Gruening’s seed does not need pre-treatment.

Planting times are dependent upon the region. Early spring planting is recommended, although some Interior growers use fall planting.

Seed is harvested during the last week in June or the first week in July in Palmer, Alaska. Production continues for about 4 years.

Poa alpina seed ~ 1,307,205 seeds per pound

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‘Gruening’ Alpine Bluegrass

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‘Gruening’ plant characteristics

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<thead>
<tr>
<th>Characteristic</th>
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<td>Acidity Tolerance</td>
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<td>Drought Resistance</td>
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<td>Root System</td>
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<td>Palatability</td>
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References

