

PHACELIA

PHACELIA TANACETIFOLIA - COOL SEASON ANNUAL NON-LEGUME BROADLEAF



PRODUCTION GOALS

| | | |
|-------------------------|---------------|----------------|
| | Not Effective | Very Effective |
| | | |
| Quick Growth | | |
| Lasting Residue | | |
| Soil Builder | | |
| Nitrogen Fixation | | n/a |
| Nitrogen Scavenging | | |
| Erosion Reduction | | |
| Compaction Reduction | | |
| Biofumigation Potential | | n/d |
| Weed Suppression | | |
| Forage Harvest Value | | |
| Grain Harvest Value | | n/d |

Phacelia has an upright growth habit and deep taproot. Phacelia is often used to attract pollinators and other insects due to its long flowering period. Phacelia has a high nitrogen content causing it to breakdown quickly after being incorporated.

TOLERANCES

| | |
|---------------|-----------|
| Flood | |
| Heat | |
| Drought | |
| Shade | |
| Low Fertility | |
| Salinity | |
| Optimal pH | 6.5 - 8.5 |

SOIL DRAINAGE CLASS

| | |
|-----------------|---|
| Very Well | ■ |
| Well | ■ |
| Moderately Well | ■ |
| Somewhat Poor | ■ |
| Poorly | ■ |
| Very Poorly | ■ |

AREA & ADAPTABILITY

Phacelia is a suitable spring-seeded annual for all regions of British Columbia. It is able to tolerate a wide range of conditions making it suitable for many locations and soil types, but it is unlikely to reach full-maturity in most locations.

Winter Hardiness Zone - 9

Seeding Considerations


| Rate Drilled | Rate Broadcast | Depth | Frost Seeding | Minimum Germination Temperature | Seeds # |
|-----------------------------|-----------------------------|---------------------------|---------------|---------------------------------|------------------------------|
| 2-10 lbs/ac (3-12 kg/ha) | 2-12 lbs/ac (3-13 kg/ha) | 0.25-0.5 in (0.5-1 cm) | No | 3°C (38°F) | 108,000 /lb (240,000 /kg) |

Phacelia seeds must be buried for germination to occur, broadcasting is not recommended. Shallow seeding into a firm seedbed will yield the best results.

Management Considerations

Phacelia is often used in blends or as a pure stand to attract pollinators. It has a very high tolerance of a wide range of conditions making it an option for many farms.

Inter-seeding Potential No data

Volunteer Establishment 

Nitrogen Concentration No data

Termination

Phacelia can be terminated through tillage, mowing and chemical application. Decomposition occurs quickly.

Dry Matter Yield

2000-6000 lbs/acre
2240-6720 kg/ha

References

- Elmy, K. 2020. Cover Cropping in Western Canada. Friesen Press.
- Northeast Cover Crop Council. (n.d.)
- U.S. Department of Agriculture. (n.d.). Pacific Northwest Cover Crop Selection Tool.

Disclaimer

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