

# BERSEEM CLOVER

TRIFOLIUM ALEXANDRINUM - COOL SEASON ANNUAL LEGUME

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## PRODUCTION GOALS

Not Effective
Very Effective

Quick Growth	
Lasting Residue	
Soil Builder	
Nitrogen Fixation	
Nitrogen Scavenging	
Erosion Reduction	
Compaction Reduction	
Biofumigation Potential	<i>n/d</i>
Weed Suppression	
Forage Harvest Value	
Grain Harvest Value	

Berseem clover has an upright to semi-upright growth habit. Its shallow taproot causes berseem to be susceptible to drought. Berseem uses soil nitrogen in the first third of its lifecycle before supplying nitrogen in the later parts of its lifecycle. Berseem can make a high quality animal feed when planted with oats.

## TOLERANCES

Flood	
Heat	
Drought	
Shade	
Low Fertility	
Salinity	
Optimal pH	6.2 - 7.0

## SOIL DRAINAGE CLASS

Very Well	
Well	
Moderately Well	
Somewhat Poor	
Poorly	
Very Poorly	

## AREA & ADAPTABILITY

Berseem clover is suitable as an annual across British Columbia. It is the least cold-hardy of all the clovers but is more tolerant to high salinity soils than alfalfa or red clover.

Winter Hardiness Zone - 8-9

# Seeding Considerations

Rate Drilled	Rate Broadcast	Depth	Frost Seeding	Minimum Germination Temperature	Seeds #
8-15 lbs/ac (9-17 kg/ha)	15-20 lbs/ac 17-22 kg/ha	0-0.5 in (0-1.25 cm)	Yes	6°C (42°F)	140,000 /lb (63,500 /kg)

Inoculant: Use a berseem or crimson clover inoculant to ensure rhizobia development and adequate nitrogen fixation.

## Management Considerations

Berseem clover is the tallest of the annual clovers but does not tolerate shading. Its performance at interior locations has been lower than anticipated.

As a grazing species, berseem clover has low risk of bloat, but does not tolerate close grazing and heavy traffic and should be managed accordingly.

**Inter-seeding Potential**



**Volunteer Establishment**



**Nitrogen Concentration**

2.5%

### Dry Matter Yield

6000-10,000 lbs/acre  
6720-11,200 kg/ha

### Nitrogen Contribution

75-200 lbs/acre  
84-224 kg/ha

## Termination

Berseem Clover can be terminated through tillage, mowing or a chemical application. It is easily winterkilled in most parts of B.C.

## References

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

## Disclaimer

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