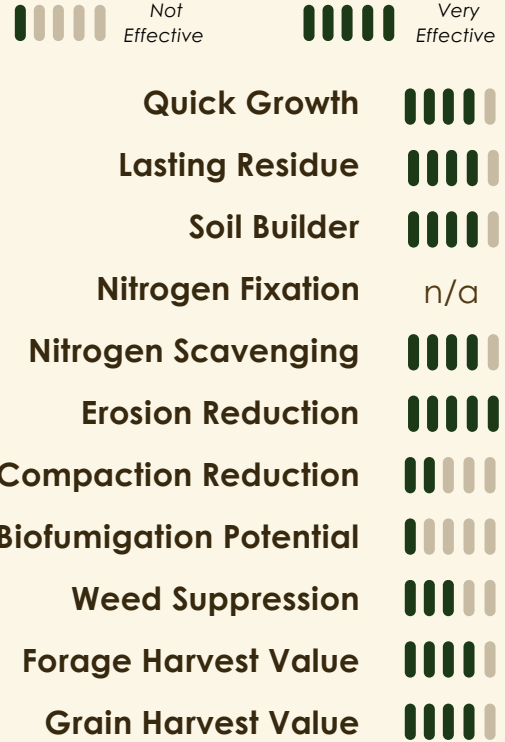


# SPRING BARLEY

HORDEUM VULGARE - COOL SEASON ANNUAL GRASS

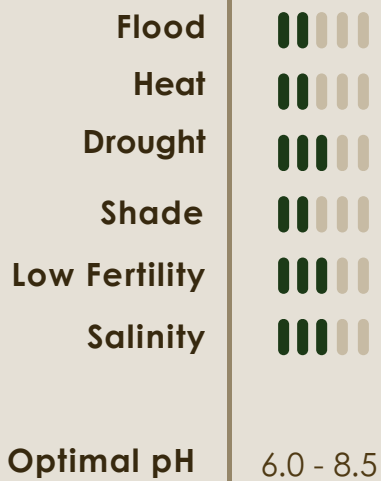


## PRODUCTION GOALS

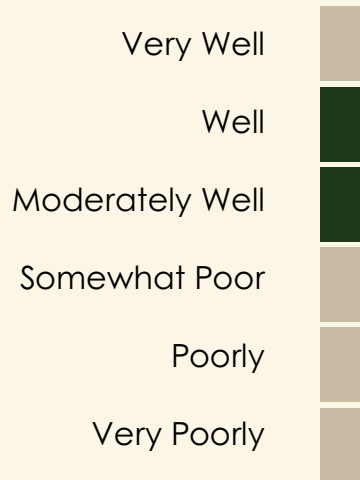


Spring barley can produce high levels of biomass and can be used as a cover crop, forage, brought to maturity for grain or plow down. It is often used in multispecies mixes for silage and tolerates alkalinity. Spring and winter barley are the same species but spring barley varieties are generally not as cold tolerant but do not require a cold period to flower.

## TOLERANCES



## SOIL DRAINAGE CLASS



## AREA & ADAPTABILITY

Spring barley 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 field locations and soil types.

Winter Hardiness Zone - 9

# Seeding Considerations


Rate Drilled	Rate Broadcast	Depth	Frost Seeding	Minimum Germination Temperature	Seeds #
50-125 lbs/ac (560-140 kg/ha)	80-150 lbs/ac (90-168 kg/ha)	0.75-2 in (2-5 cm)	No	3°C (38°F)	6170 /lb (13,600) /kg

## Management Considerations

A range of barley varieties are available with characteristics including 2 or 6 kernel row, smooth or rough awns and various expected growth heights from semi-dwarf to tall.

Cereals can accumulate nitrates after a period of stress (e.g. drought or killing frost) and/or high nitrate levels in the soil and should be tested before feed out. Moreover, smooth awn varieties may be preferably to improve palatability for livestock.

**Inter-seeding Potential** 

**Volunteer Establishment** 

**Nitrogen Concentration** 1.2 - 4.3%

### Dry Matter Yield

700 - 6000 lbs/acre

784 - 6720 kg/ha

## Termination

Spring barley can be terminated by tillage, mowing after stem elongation, and chemical means. It will also winterkill in the majority of the province and provide good winterkilled mulch.

## References

- Cloverdale Soil Conservation Group. 1994. Final Report: Part 2 Reports, Newsletters and Bulletins.
- Elmy, K. 2020. Cover Cropping in Western Canada. Friesen Press.
- Midwest Cover Crop Council. (n.d.)
- Northeast Cover Crop Council. (n.d.)
- Odhiambo, J., Temple, W.D., A. Bomke. 2012. Managing Cover Crops for Conservation Purposes in the Fraser River Delta, British Columbia. In: Crop Management - Cases and Tools for Higher Yield and Sustainability.
- Sullivan, D.M., Andrews, N. and L.J. Brewer. 2020. Estimate Plant-Available Nitrogen Release from Cover Crops. Pacific Northwest Extension Publishing 636.
- Sustainable Agriculture Research and Education (SARE). 2012. Managing Cover Crops Profitably: 3rd Ed. National Institute of Food and Agriculture, USDA, University of Maryland & University of Vermont.
- U.S. Department of Agriculture. (n.d.). Pacific Northwest Cover Crop Selection Tool.
- Witt, M. PAg, CCA. 2023. Personal communications. Forage Based Solutions.

## Disclaimer

The information contained in this document is true and accurate to the best of our knowledge without guarantee or warranty of its correctness or completeness. The content is intended to be a general guideline, but the performance of the cover crop(s) may differ from what is described in the document depending on environment and farm operation and may vary between years. The Government of British Columbia and its directors, agents, employees, or contractors will not be liable for any claims, damages, or losses of any kind whatsoever arising out of the use of, or reliance upon, this information.

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