

### PLANT HARDINESS ZONE 4 DATASET

### **COVER CROP DESCRIPTION**

Also known as Austrian Winter Pea. Vining cool-season annual. Variable winter hardiness. Excellent N-fixer, good biomass and forage. Low risk of reseeding and becoming weed. Susceptible to sclerotinia crown rot, rotate with non-susceptible crops to reduce risk. Inoculate the seed with appropriate Rhizobium spp.; cross inoculates with vetch. If the goal is winter-wintering, select cultivar accordingly, avoid planting too early or late, and plant at the deeper end of the recommended planting depth range ( $\sim$ 2" deep). May be planted in spring, but potentially slower growth and lower biomass and N fixation than spring peas. Mixes well with upright species due to its vining habit. Residue decomposes rapidly and releases N faster than vetch.

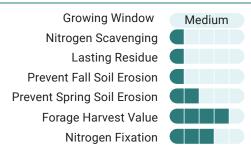




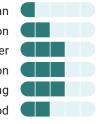


Pea, Winter - Mirsky Lab [2020]

## **GOALS**



Penetrates Plow Pan **Reduces Surface Compaction** Improve Soil Organic Matter Increase Soil Aggregation **Good Grazing** Pollinator Food

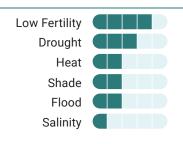


## **WEEDS**

Residue Suppresses Summer Annual Weeds **Outcompetes Summer Annual Weeds** Suppresses Winter Annual Weeds Persistence Volunteer Establishment

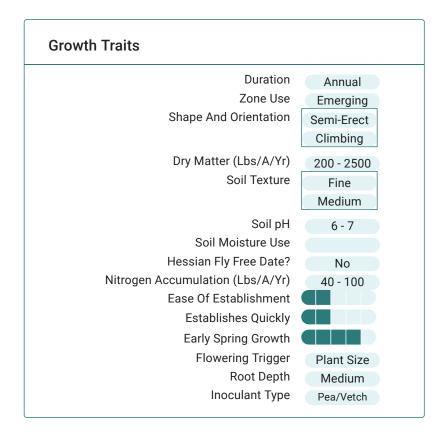


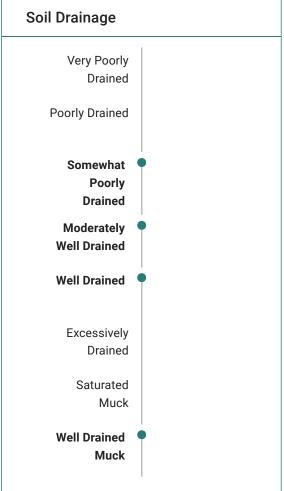
# **ENVIRONMENTAL TOLERANCES**

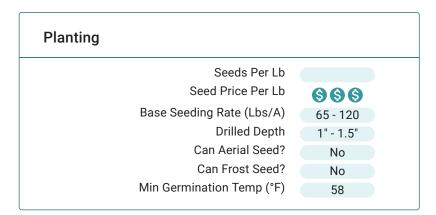


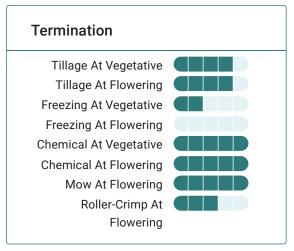


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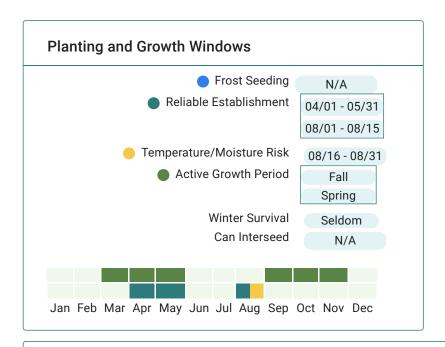








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### **Extended Comments**

Basic Agronomics: Dry matter highly dependent on planting and termination date and precipitation. Season length, habit vary by cultivar. Mixes well with grains when grown for forage. Bloat potential that is easily managed. Seed vigor highly variable. For grazing purposes, restrict to 30% of total ration or mixing with a grass is recommended.

Weeds: Late planting increases heaving. Weak plant with low volunteer seed survivability.

Forage and Grazing: Good cool season component for grazing mixes.

Disease: Susceptible to sclerotinia in the East.

**Goals:** Best mixed with cereals to prevent lodging.

Nematodes: Some cultivars, nematode resistant. Poor host for soybean cyst nematode. Host for root knot nematode, Penetrans Root-Lesion Nematode and sugarbeet cyst nematode.

Pollinators: Self-pollinated so not particularly useful for pollinators compared to other legumes.

Termination: If using herbicides to terminate use a tank mixture (e.g., glyphosate + dicamba or 2,4-d)



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# **References & Resources**

**Cover Crops and Green Manures**, University of Vermont Extension 2016 Cover Crop Mix in Corn Silage Trial, University of Vermont Extension **2015 Cover Crop Mix in Corn Silage Trial**, University of Vermont Extension 2014 Early Fall Cover Crop Trial, University of Vermont Extension **2014 Late Summer Cover Crop Trial**, University of Vermont Extension **Cover Cropping for Success**, University of Maine Cooperative Extension Canadian Field Peas, Cornell University Cooperative Extension