

## PLANT HARDINESS ZONE 7 DATASET

### **COVER CROP DESCRIPTION**

Excellent summer annual legume. Needs heat to grow well. Very heat and drought tolerant once established, deep taproot, tolerates low fertility. Some shade tolerance. Grows fast, good biomass and forage producer, high N fixation potential, good weed suppressor. Extrafloral nectaries key for beneficial insects. Some suppression for problem nematodes. Low reseeding and weed risk. Inoculate with appropriate Rhizobium spp.; cross-inoculates with peanut, sunn hemp. Many varieties available: use forage or cover crop cultivars, with bush types for short mixes, vine- or runner- types for tall mixes. Less predation by deer and woodchucks compared to soybeans.







Cowpea - Ackroyd [2020]



Cowpea - Salon [2020]

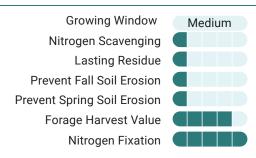


Cowpea - Ackroyd [2020]



Cowpea - Ackroyd [2020]

# **GOALS**



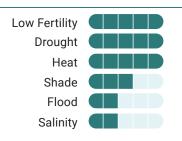
Penetrates Plow Pan **Reduces Surface Compaction** Improve Soil Organic Matter Increase Soil Aggregation **Good Grazing** Pollinator Food



## **WEEDS**

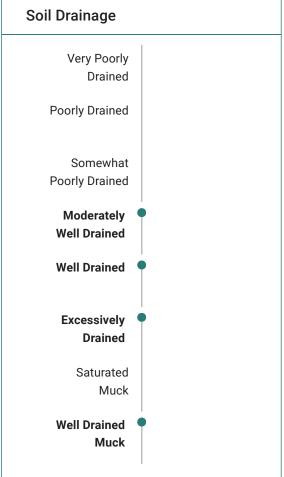
Residue Suppresses Summer Annual Weeds **Outcompetes Summer Annual Weeds** Suppresses Winter Annual Weeds Persistence Volunteer Establishment

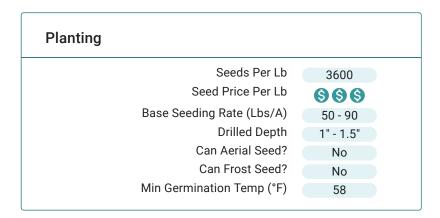
## **ENVIRONMENTAL TOLERANCES**

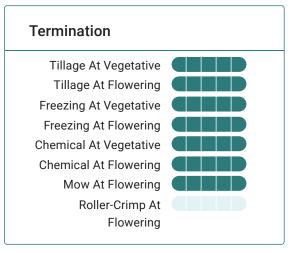


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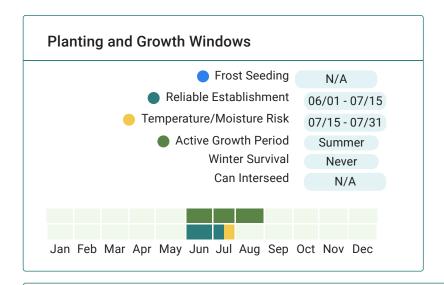








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## **Extended Comments**

**Pollinators:** Has an extra-floral nectary that is attractive to pollinators and beneficial insects. Cowpea does not need to be in active flowering for pollinators to access this extra-floral nectary.

Goals: Highly competitive against weeds given sufficient heat.

**Growth, Roots, and Nutrients:** Rooting depth is highly dependent on planting timing; cowpea needs time in the field to put down deep roots.

Nematodes: Host for sting and stubby root nematodes; moderately resistant to root-knot nematode.

Weeds: Less competitive against summer annual weeds in northern hardiness zones.

**Forage and Grazing:** Good for forage harvest and grazing in areas with enough heat to allow it to put on biomass. Used in mixes as a summer rotational grazing crop.

## **References & Resources**

<u>Cover Crops and Green Manures (New England Vegetable Management Guide)</u>, University of Massachusetts Extension <u>Choosing Cover Crops</u>, University of Massachusetts Extension