

Grass
Oats, Spring
Avena sativa



PLANT HARDINESS ZONE 6 DATASET

COVER CROP DESCRIPTION

Does not overwinter when fall-seeded. Good weed suppressor, ok N scavenger, high forage quality. Needs good fertility for maximum benefits. Good nurse crop. Not a host for take-all disease. Mix with radish, peas. Planted early in fall, but last small grain to mature in spring. Compared to other small grains: lowest biomass, slightly lower C:N, lower tolerance for dry/wet extremes.



Oats, Spring - Bjorkman [2020]

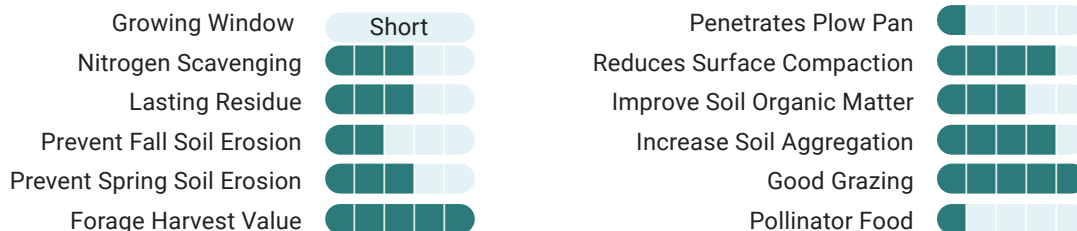


Oats, Spring - Ackroyd [2020]

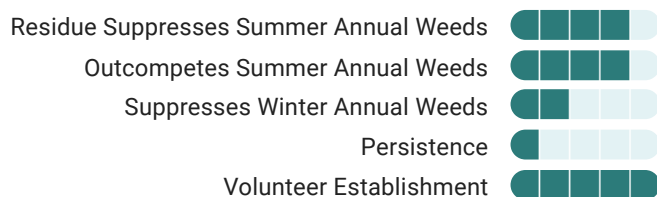


Oats, Spring - Ackroyd [2020]

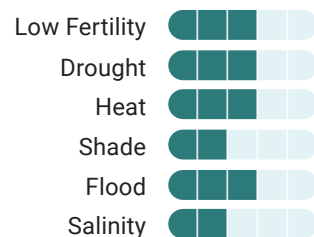
GOALS



WEEDS



ENVIRONMENTAL TOLERANCES



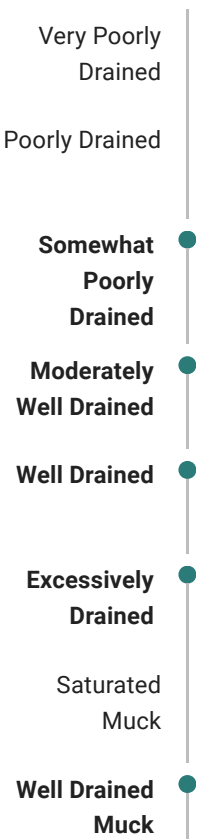


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Growth Traits

Duration	Annual
Zone Use	Common
Shape And Orientation	Erect
Dry Matter (Lbs/A/Yr)	1000 - 4000
Soil Texture	Coarse
	Fine
	Medium
Soil pH	5.3 - 8.5
Soil Moisture Use	Medium
Hessian Fly Free Date?	No
Ease Of Establishment	<div><div></div><div></div><div></div><div></div><div></div></div>
Establishes Quickly	<div><div></div><div></div><div></div><div></div><div></div></div>
Early Spring Growth	<div><div></div><div></div><div></div><div></div><div></div></div>
Flowering Trigger	
Root Depth	Medium

Soil Drainage



Planting

Seeds Per Lb	19400
Seed Price Per Lb	\$ \$ \$
Base Seeding Rate (Lbs/A)	60 - 100
Drilled Depth	0.75" - 1.5"
Can Aerial Seed?	No
Can Frost Seed?	No
Min Germination Temp (°F)	38

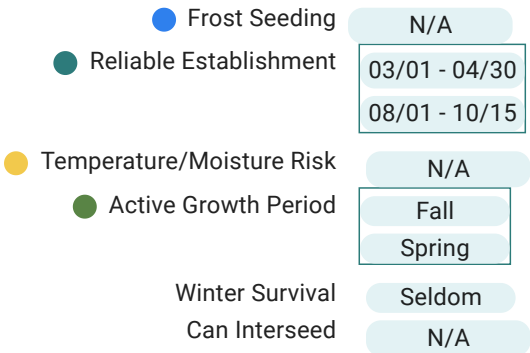
Termination

Tillage At Vegetative	<div><div></div><div></div><div></div><div></div><div></div></div>
Tillage At Flowering	<div><div></div><div></div><div></div><div></div><div></div></div>
Freezing At Vegetative	<div><div></div><div></div><div></div><div></div><div></div></div>
Freezing At Flowering	<div><div></div><div></div><div></div><div></div><div></div></div>
Chemical At Vegetative	<div><div></div><div></div><div></div><div></div><div></div></div>
Chemical At Flowering	<div><div></div><div></div><div></div><div></div><div></div></div>
Mow At Flowering	<div><div></div><div></div><div></div><div></div><div></div></div>
Roller-Crimp At Flowering	<div><div></div><div></div><div></div><div></div><div></div></div>



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Planting and Growth Windows



Extended Comments

Basic Agronomics: Dry matter highly dependent on planting and termination date and precipitation. Prone to lodging in N-rich soil; decomposition depends on maturity at kill. When planted in September will grow faster than rye. If planted early enough (e.g. after peas), it creates a very good lasting residue. Bloat potential that is easily managed. Nitrate testing of forage is recommended.

Forage and Grazing: Bears traffic very well when drilled.

Disease: Information too limited to rate P and K effect. Cleaned, bin-run seed will suffice; Non host for soybean cyst nematode and root knot nematode. Bears traffic very well when drilled. Some data suggest that oats were less effective at reducing marestalk than barley or cereal rye.

Nematodes: Non host for soybean cyst nematode and root knot nematode.

References & Resources

Multiple Purpose Cover Crops, Northeast Organic Farming Association of Connecticut

Fall Cover Crops, University of Delaware Cooperative Extension

Spring Planted Cover Crops for Vegetable Rotations, University of Delaware Cooperative Extension