

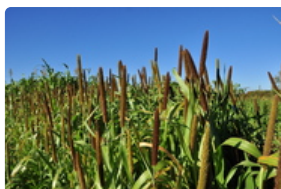
Grass
Millet, Pearl
Pennisetum glaucum



PLANT HARDINESS ZONE 6 DATASET

COVER CROP DESCRIPTION

Tall summer annual grass. Does best under hot conditions. Fast growing. Has regrowth potential, particularly when mowed/grazed high. Improved forage types available, cultivars may vary widely. Mix with cowpea, sunflower, and sunn hemp for a diverse summer mix. Tall varieties are very similar to sorghum-sudangrass except slightly lower biomass potential but still a good smother crop; better on acid and droughty soils; less allelopathy potential; less reputation for subsoiling; no prussic acid forage toxicity (but nitrates still a concern).

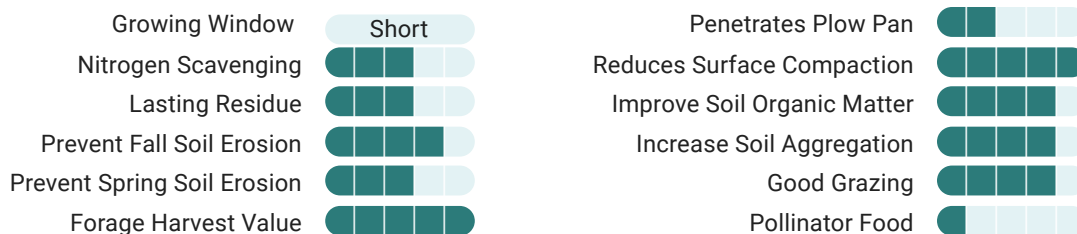


Millet, Pearl - Larson [2020]

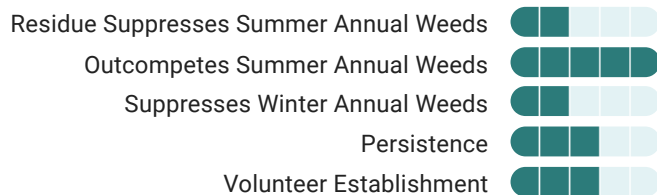


Millet, Pearl - Salon [2020]

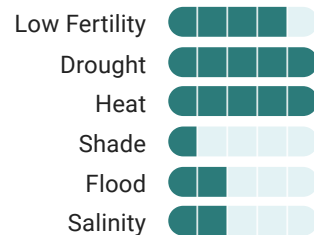
GOALS



WEEDS



ENVIRONMENTAL TOLERANCES



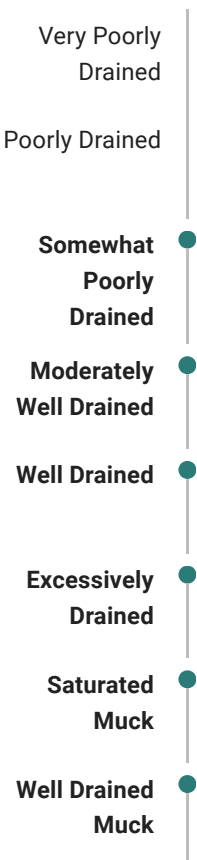


PLANT HARDINESS ZONE 6 DATASET

Growth Traits

Duration	Annual
Zone Use	Common
Shape And Orientation	Erect
Dry Matter (Lbs/A/Yr)	3000 - 7000
Soil Texture	Coarse
	Medium
Soil pH	5.5 - 6.8
Soil Moisture Use	Low
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	Light
	Shortest day
Root Depth	Medium

Soil Drainage



Planting

Seeds Per Lb	82300
Seed Price Per Lb	<div><div></div><div></div><div></div></div>
Base Seeding Rate (Lbs/A)	10 - 15
Drilled Depth	0.5" - 1"
Can Aerial Seed?	No
Can Frost Seed?	No
Min Germination Temp (°F)	65

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

Frost Seeding	N/A
Reliable Establishment	05/01 - 07/15
Temperature/Moisture Risk	N/A
Active Growth Period	Summer
Winter Survival	Never
Can Interseed	N/A



Extended Comments

Taxonomy: ITIS name conflict: Cenchrus americanus Use BMR forage varieteis for grazing or baleage, use cheaper non-BMR varieties (slightly more lignified) for cover crop use.

Environmental Tolerances: Moving to the north during the summers pearl millet grows better in wet and acidic soils and cooler environments compared to sorghum-sudan or sudan grass.

Forage and Grazing: Used as a summer forage cut to make baleage, or used for grazing. Use BMR forage varieteis for grazing or baleage.

Nematodes: Moderately resistant to root-knot nematode.

Insects: Proso millet (Panicum miliaceum L.) can attract the parasitoids Trichogrammatidae, Scelionidae, Ceraphronidae

References & Resources

Summer Cover Crops, Penn State Extension