



Characteristics

Conservation Plant Characteristics

Pennisetum ciliare (L.) Link
buffelgrass
PECI

Summary

Duration	Perennial	Federal T/E Status
Growth Habit	Graminoid	National Wetland Indicator
U.S. Nativity		

Morphology/Physiology

Active Growth Period	Summer and Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Medium	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Long
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Moderate	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Coarse	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	Yes	Moisture Use	Low
Adapted To Medium Textured Soils	Yes	pH, Minimum	6
Adapted To Fine Textured Soils	Yes	pH, Maximum	8.5
Anaerobic Tolerance	Low	Planting Density Per Acre, Minimum	
CaCO ₃ Tolerance	Medium	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	14
Drought Tolerance	High	Precipitation, Maximum	35
Fertility Requirement	Low	Root Depth, Minimum	20
Fire Tolerance	Medium	Salinity Tolerance	Medium
Frost Free Days, Minimum	240	Shade Tolerance	Intolerant

Hedge Tolerance	None	Temperature, Minimum (°F)	7
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Reproduction

Bloom Period	Mid Summer	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	No
Fruit/Seed Period Begin	Summer	Propagated By Sprigs	No
Fruit/Seed Period End	Fall	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	260000
Propagated By Bare Root	No	Seed Spread Rate	Moderate
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	Slow

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	High
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	Yes	Palatable Human	No
Fuelwood Product	None	Post Product	No
Lumber Product	No	Protein Potential	Medium
Naval Store Product	No	Pulpwood Product	No
Nursery Stock Product	No	Veneer Product	No

***Pennisetum ciliare* (L.) Link**
buffelgrass
PECI
Cultivar: Llano

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U.S. Nativity		

Morphology/Physiology

Active Growth Period	Summer and Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Medium	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Long

Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Medium	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	Yes	Moisture Use	Low
Adapted To Medium Textured Soils	Yes	pH, Minimum	6
Adapted To Fine Textured Soils	Yes	pH, Maximum	8.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	
CaCO ₃ Tolerance	High	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	14
Drought Tolerance	High	Precipitation, Maximum	25
Fertility Requirement	Low	Root Depth, Minimum	20
Fire Tolerance	Medium	Salinity Tolerance	Medium
Frost Free Days, Minimum	240	Shade Tolerance	Intolerant
Hedge Tolerance		Temperature, Minimum (°F)	-3

Reproduction

Bloom Period	Late Summer	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	No
Fruit/Seed Period Begin	Summer	Propagated By Sprigs	No
Fruit/Seed Period End	Fall	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	260000
Propagated By Bare Root	No	Seed Spread Rate	Moderate
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	Slow

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	High
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	Yes	Palatable Human	No
Fuelwood Product	None	Post Product	No
Lumber Product	No	Protein Potential	Medium
Naval Store Product	No	Pulpwood Product	No
Nursery Stock Product	No	Veneer Product	No

***Pennisetum ciliare* (L.) Link**

buffelgrass
PECI
Cultivar: Nueces

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U.S. Nativity		

Morphology/Physiology

Active Growth Period	Summer and Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Medium	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Long
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Medium	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	Yes	Moisture Use	Low
Adapted To Medium Textured Soils	Yes	pH, Minimum	6
Adapted To Fine Textured Soils	Yes	pH, Maximum	8.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	
CaCO ₃ Tolerance	High	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	14
Drought Tolerance	High	Precipitation, Maximum	25
Fertility Requirement	Low	Root Depth, Minimum	20
Fire Tolerance	Medium	Salinity Tolerance	Medium
Frost Free Days, Minimum	260	Shade Tolerance	Intolerant
Hedge Tolerance		Temperature, Minimum (°F)	2

Reproduction

Bloom Period	Late Summer	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	No
Fruit/Seed Period Begin	Summer	Propagated By Sprigs	No

Fruit/Seed Period End	Fall	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	260000
Propagated By Bare Root	No	Seed Spread Rate	Moderate
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	Slow

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	High
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	Yes	Palatable Human	No
Fuelwood Product	None	Post Product	No
Lumber Product	No	Protein Potential	Medium
Naval Store Product	No	Pulpwood Product	No
Nursery Stock Product	No	Veneer Product	No

***Pennisetum ciliare* (L.) Link**
buffelgrass
PECI
Cultivar: T4464

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Bloat	None	Growth Rate	Rapid
C:N Ratio	Medium	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Long
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Coarse	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	Low
Adapted To Medium Textured Soils	Yes	pH, Minimum	6.5
Adapted To Fine Textured Soils	Yes	pH, Maximum	8.5
Anaerobic Tolerance	Low	Planting Density Per Acre, Minimum	
CaCO ₃ Tolerance	Medium	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	14
Drought Tolerance	High	Precipitation, Maximum	32
Fertility Requirement	Low	Root Depth, Minimum	20
Fire Tolerance	Medium	Salinity Tolerance	Medium
Frost Free Days, Minimum	240	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	7

Reproduction

Bloom Period	Mid Summer	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
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Propagated By Container	No	Small Grain	No
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Berry/Nut/Seed Product	No	Palatable Browse Animal	High
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	Yes	Palatable Human	No
Fuelwood Product	None	Post Product	No
Lumber Product	No	Protein Potential	Medium
Naval Store Product	No	Pulpwood Product	No
Nursery Stock Product	No	Veneer Product	No

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