



Characteristics

Conservation Plant Characteristics

Lolium perenne L.
 perennial ryegrass
 LOPE

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring and Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Moderate	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	3.5
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Short
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	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5
Adapted To Fine Textured Soils	Yes	pH, Maximum	8
Anaerobic Tolerance	Low	Planting Density Per Acre, Minimum	
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Medium
Frost Free Days, Minimum	100	Shade Tolerance	Intolerant

Hedge Tolerance	None	Temperature, Minimum (°F)	-18
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Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	No
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
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	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: All*Star

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate

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	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	110	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-53

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
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	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**

perennial ryegrass
LOPE
Cultivar: Assure

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Dark Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	145	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-43

Reproduction

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

Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Calypso

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Dark Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO ₃ Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	130	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-53

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Cowboy

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC

U.S. Nativity

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Porous	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	145	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-33

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
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	None

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Cutless

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	1.9
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Dark Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560

Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	160	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-28

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Dandy

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid

C: N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Porous	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	110	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-43

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
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	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Darby Supreme

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Porous	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	160	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-28

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
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	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Envy

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	1.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
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	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	130	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-43

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass

LOPE
Cultivar: Gettysburg

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	1.5
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Dark Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	100	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-28

Reproduction

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

Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Goalie

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	1.9
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Dark Green	Nitrogen Fixation	
Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	100	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-28

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Linn

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring and Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Moderate	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	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	Short
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	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	25
Drought Tolerance	Low	Precipitation, Maximum	60
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Medium
Frost Free Days, Minimum	120	Shade Tolerance	Intermediate
Hedge Tolerance	None	Temperature, Minimum (°F)	-18

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	No
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Manhattan II

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring and Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.5
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
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	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	Medium
Adapted To Medium Textured Soils	Yes	pH, Minimum	5
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30

Drought Tolerance	Medium	Precipitation, Maximum	60
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	120	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-18

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Norlea

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Moderate	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	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	Moderate
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	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	100	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-43

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	No
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Pennfine

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Green	Nitrogen Fixation	
Foliage Porosity Summer	Porous	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	32
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	160	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-23

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
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	None

Suitability/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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

***Lolium perenne* L.**
perennial ryegrass
LOPE
Cultivar: Regency

Summary

Duration	Perennial, Annual	Federal T/E Status	
Growth Habit	Graminoid	National Wetland Indicator	FACU-, FAC
U.S. Nativity			

Morphology/Physiology

Active Growth Period	Spring, Summer, Fall	Fruit/Seed Conspicuous	No
After Harvest Regrowth Rate	Rapid	Growth Form	Bunch
Bloat	None	Growth Rate	Rapid
C:N Ratio	Low	Height at Base Age, Maximum	
Coppice Potential	No	Height at Maturity	2.3
Fall Conspicuous	No	Known Allelopath	No
Fire Resistant	No	Leaf Retention	No
Flower Color	Yellow	Lifespan	Moderate
Flower Conspicuous	No	Low Growing Grass	No
Foliage Color	Dark Green	Nitrogen Fixation	

Foliage Porosity Summer	Dense	Resprout Ability	No
Foliage Porosity Winter	Porous	Shape and Orientation	Erect
Foliage Texture	Fine	Toxicity	None
Fruit/Seed Color	Brown		

Growth Requirements

Adapted To Coarse Textured Soils	No	Moisture Use	High
Adapted To Medium Textured Soils	Yes	pH, Minimum	5.2
Adapted To Fine Textured Soils	Yes	pH, Maximum	7.5
Anaerobic Tolerance	None	Planting Density Per Acre, Minimum	43560
CaCO3 Tolerance	Medium	Planting Density Per Acre, Maximum	43560
Cold Stratification Required	No	Precipitation, Minimum	30
Drought Tolerance	Low	Precipitation, Maximum	65
Fertility Requirement	High	Root Depth, Minimum	10
Fire Tolerance	Low	Salinity Tolerance	Low
Frost Free Days, Minimum	115	Shade Tolerance	Intolerant
Hedge Tolerance	None	Temperature, Minimum (°F)	-43

Reproduction

Bloom Period	Mid Spring	Propagated By Cuttings	No
Commercial Availability	Routinely Available	Propagated By Seed	Yes
Fruit/Seed Abundance	High	Propagated By Sod	Yes
Fruit/Seed Period Begin	Spring	Propagated By Sprigs	No
Fruit/Seed Period End	Summer	Propagated By Tubers	No
Fruit/Seed Persistence	No	Seed Per Pound	240400
Propagated By Bare Root	No	Seed Spread Rate	Slow
Propagated By Bulbs	No	Seedling Vigor	High
Propagated By Container	No	Small Grain	No
Propagated By Corms	No	Vegetative Spread Rate	None

Suitibility/Use

Berry/Nut/Seed Product	No	Palatable Browse Animal	Low
Christmas Tree Product	No	Palatable Graze Animal	High
Fodder Product	No	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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