# NORTHSTAR SEED

# Native & Reclamation Seed Guide



# Grow with us

#### Native & Reclamation

Northstar Seed offers a full range of native Canadian grasses and legumes for reclamation, native pasture, and commercial agriculture purposes. For expert guidance on your reclamation projects, and new ideas for agricultural production, contact Northstar Seed today and speak to one of our sales agronomist and reclamation specialists.

#### Northstar Seed Distribution

Manitoba Office:

Toll Free: 1-800-430-5955 Local: 1-204-476-5241 Fax: 1-204-476-3773 Email: info@northstarseed.com

#### Alberta Office:

Toll Free: 1-800-805-0765 Local: 1-587-757-8981 Fax: 1-587-757-8986 Email: info@northstarseed.com



# Grow with us

#### **Available Native Species**

Please contact Northstar Seed for more information about native seed species and availability.

Native Species Awned Wheatgrass Alpine Bluegrass **Beaked Sedge Baltic Rush Big Bluestem** Blue Grama **Bluebunch Wheatgrass Bluejoint Reedgrass Canada Bluegrass Common Sedge** Fowl Bluegrass Fringed Brome Fults Alkaligrass **Green Needlegrass** Hairy Wildrye Idaho Fescue Indian Grass Indian Ricegrass Inland Saltgrass Junegrass Little Bluestem Mountain Brome **Needle and Thread** Northern Wheatgrass **Nodding Brome** Prairie Cordgrass Prairie Sandreed Red Top **Rocky Mountain Fescue** Rough Fescue Sand Dropseed Sandberg Bluegrass Side Oats Grama Sheep Fescue Slender Wheatgrass Slough Grass Smooth Wildrye Spike Trisetum Streambank Wheatgrass **Tall Mannagrass** Ticklegrass **Tufted Hairgrass** Violet Wheatgrass Western Porcupine Western Wheatgrass

#### Latin Name

Elymus trachycaulaus ssp subsecundum Poa alpina Carex rostrata Juncus balticus Andropogon gerardii **Bouteloua** gracilis Pseudoroegneria spicata Calamagrostis canadensis Poa compressa Elymus canadensis Carex spp. Poa palustris **Bromus ciliatus** Stipa viridula **Elymus** innovatus Festuca idahoensis Sorghastrum nutans **Orzopsis hymenoides Distichlis spicata** Koeleria macrantha Schizachyrium scoparium **Bromus marginatus** Stipa comata **Elymus lanceolatus Bromus anomalus** Spartina pectinata Calamovilfa longifolia Agrostis gigantea Festuca saximontana Festuca hallii Sporobolus cryptandrus Poa secudra Bouteloua curtipendula Festuca ovina Elymus trachycaulus Beckmannia syzigachne **Elymus glaucus Trisetum** spicatum Agropyron riparium **Glyceria** grandis Agrostis scabra Deschampsia caespitosa **Elymus violaceum** Stipa curtiseta Elymus smithii

Native Legume & Forb	Latin Name
American Vetch	Vicia americana
Canadian Milkvetch	Astragalus can <mark>adensis</mark>
Hairy Vetch	Vicia villosa
Lewis Blue Flax	Linum lewisii
Purple Prairie Clover	Daleia purpurea

#### AWNED WHEATGRASS Agropyron subsecundum



#### Northstar Seed Toll Free

Neepawa, MB Okotoks, AB.

1-800-430-5955 1-800-805-0765

## **Preferred Conditions**

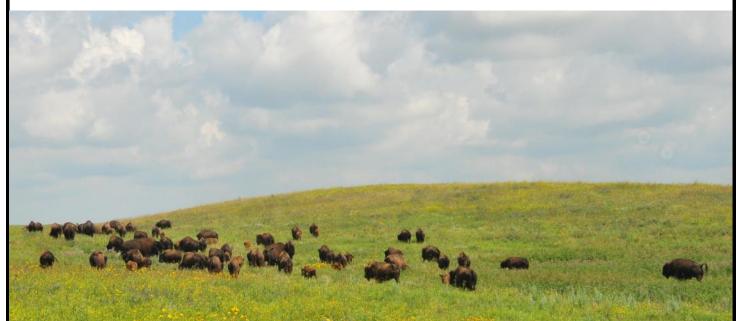
Prefers moderately sandy to loam soils with good moisture and drainage. Found in moist flats, meadows and among low growing bushes.

## **Positive Features**

- Highly nutritious before heading
- Moderate fertility requirements
- Useful for erosion control in reclamation mixes

## **Considerations**

- Awns on seed head can be an irritant when fed to livestock.
- Sensitive to overgrazing.



Use	Hay or Pasture
Longevity	Medium
Winterhardiness	Good
Drought Tolerance	Moderate
Flood Tolerance	Moderate
Salinity Tolerance	Low to Moderate
Alkalinity Tolerance	Low
Acidity Tolerance	Low to Moderate
Bloat Risk	No
Root	Bunch Grass
Seeds per Pound (lb.)	160,000

## Big Bluestem Andropogon gerardi



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## **Preferred Conditions**

Grows under a wide range of conditions. Best suited for fertile, moist but well drained loam soil.

## **Positive Features**

- Good mid-summer growth as cool season grasses go dormant.
- Highly nutritious when vegetative
- Crude protein levels of 7-12% during summer

# Considerations

- Light, fluffy seed
- Becomes unpalatable in the fall

Use	Pasture and reclamation
Longevity	Long-lived
Winterhardiness	Good
Drought Tolerance	Low to Moderate
Flood Tolerance	Moderate
Salinity Tolerance	Low to Moderate
Alkalinity Tolerance	Low to Moderate
Acidity Tolerance	Tolerates ph as low as 6
Bloat Risk	No
Root	Weakly sod forming
Seeds per Pound (lb.)	165,000

## Blue Grama Bouteloua gracilis



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## **Preferred Conditions**

Blue grama is suited to well drained sandy to clay soils in the Brown and Dark Brown soil zones. Blue grama is found in native pastures on well drained and dry soils on hillsides and hill tops and south facing slopes.

## **Positive Features**

- Stabilizes soil with thick, sod forming root structure
- Very drought tolerant
- Digestibility of 50-40% July to October
- Cures well for winter grazing

## Considerations

- Slower establishment
- Takes 14 months to recover from grazing

Use	Reclamation and pasture
Longevity	Long-lived
Winterhardiness	High
Drought Tolerance	Very High
Flood Tolerance	Tolerates one week of flooding in spring
Salinity Tolerance	Low
Alkalinity Tolerance	Moderate
Acidity Tolerance	Tolerates soil pH as low as 6.6
Bloat Risk	No
Root	Sod forming
Seeds per Pound (lb.)	750,000

# **Creeping Foxtail**

Alopecurus arunidinaceus NORTHSTAR



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## **Preferred Conditions**

Creeping foxtail is adapted to sandy, loamy, clay, peat or muskeg soils that remain moist or wet throughout the growing season.

## **Positive Features**

- Quick regrowth
- Very competitive once established
- Thrives in wet conditions
- Able to displace foxtail barley in wet areas
- Becomes sod-bound as stand ages

## Considerations

- Slower establishment
- Requires wet or water-logged soil year-round



Use	Reclamation, hay or pasture
Longevity	Long-lived
Winterhardiness	Good
Drought Tolerance	Low
Flood Tolerance	Tolerates four weeks of flooding in spring
Salinity Tolerance	Moderate
Alkalinity Tolerance	Moderate
Acidity Tolerance	Tolerates soil pH as low as 5.1
Bloat Risk	No
Root	Rhizomatous root system
Seeds per Pound (lb.)	750,000

# Green Needlegrass

Stipa viridula



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## **Preferred Conditions**

Performs best on medium to heavy textured soils. Prefers moist sites with good drainage. Requires 12-18 inches of precipitation per year.

## **Positive Features**

- Palatable and nutritious
- Very good longevity
- Tolerant to drought and grasshopper damage
- Average digestibility of 52% in May to 45% in September
- Crude protein levels ranging from 11 to 7%
- Good for erosion control once established

## Considerations

- Seed has high level of dormancy
- Easily overgrazed



Use	Pasture, reclamation and stockpiling– should be grazed between early summer and fall	
Longevity	Long	
Winterhardiness	Good	
Drought Tolerance	High	
Flood Tolerance	Low, takes saturated soils for 1 week in spring	
Salinity Tolerance	Low to moderate	
Alkalinity Tolerance	Low to moderate	
Acidity Tolerance	Tolerates pH as low as 6.6	
Bloat Risk	No	
Root	Bunch grass	
Seeds per Pound (lb.)	180,000	
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## June Grass Koeleria gracilis



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## **Preferred Conditions**

June grass is suited to a wide range of soils (sandy through clay). It thrives on dry, well drained upland areas.

## **Positive Features**

- Grows quickly in spring
- Has fair competitive ability
- Attractive and used as an ornamental

## Considerations

- Requires full season to recover from grazing
- Low germination and weak seedlings when they emerge
- Low forage production



Use	Reclamation or pasture
Longevity	Long-lived
Winterhardiness	Good
Drought Tolerance	Very high
Flood Tolerance	Withstands 1-2 weeks of saturated soil in spring
Salinity Tolerance	Moderate
Alkalinity Tolerance	Low to moderate
Acidity Tolerance	Tolerates soil pH as low as 6.0
Bloat Risk	No
Root	Bunch grass
Seeds per Pound (lb.)	2,300,000

## **Little Bluestem**

Andropogon scoparius



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## **Preferred Conditions**

Sandy, gravelly soil with shallow water table or where no snow accumulates. Common on prairie upland.

## **Positive Features**

- Highly nutritious and palatable in early stages
- Deep rooted
- Can grow in thin and gravelly soils
- Yields approximately 1,500 lbs./acre

## Considerations

- Poor competitor
- Unpalatable when mature
- Prone to becoming wolf plants
- Seedlings have low vigour

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Use	Pasture and reclamation	
Longevity	Long	
Winterhardiness	Good	
Drought Tolerance	High	
Flood Tolerance	Low	
Salinity Tolerance	Moderate	
Alkalinity Tolerance	Low to Moderate	
Acidity Tolerance	Tolerates pH as low as 5.5	
Bloat Risk	No	
Root	Bunch grass	
Seeds per Pound (lb.)	255,000	

# **Meadow Foxtail**

Alopecurus pratensis



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## **Preferred Conditions**

Meadow foxtail is best suited to wet areas with heavy textured soils (clay-loam and clay soils). Ideal areas to seed meadow foxtail include peat and muskeg sites, sloughs, flood plains with very high water tables and other wet areas.

## **Positive Features**

- Useful for stabilizing waterways and banks
- Very competitive and strongly creeping rooted
- Excellent recovery, can graze or hay two times per season
- Average digestibility of 70%

## Considerations

- Poor drought tolerance
- Plant nutrition declines as it matures



Use	Reclamation, hay or pasture
Longevity	10 to 20 years
Winterhardiness	Good
Drought Tolerance	Poor
Flood Tolerance	Withstands 2-5 weeks of spring flooding
Salinity Tolerance	Low
Alkalinity Tolerance	Moderate
Acidity Tolerance	Tolerates soil pH as low as 5.0
Bloat Risk	No
Root	Fibrous root system
Seeds per Pound (lb.)	490,000

## Needle & Thread Grass Stipa comata



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## **Preferred Conditions**

Needle-and-thread grass is suited to coarse sandy to loamy soils. It grows best on dry, well drained sites.

## **Positive Features**

- Excellent winterhardiness and drought tolerance
- Can help with erosion control
- 40-50% average digestibility
- Crude protein of 6-10% during grazing season

## Considerations

- Low seedling vigour
- Needs up to two years for full establishment



Use	Reclamation or pasture
Longevity	Long-lived
Winterhardiness	Excellent
Drought Tolerance	Excellent
Flood Tolerance	Withstands saturated soil for 1 week in spring
Salinity Tolerance	Not tolerant
Alkalinity Tolerance	Low
Acidity Tolerance	Tolerates soil pH as low as 6.6
Bloat Risk	No
Root	Bunch grass
Seeds per Pound (lb.)	115,000

# **Northern Wheatgrass** *Agropyron dasystachyum*



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## **Preferred Conditions**

Prefers medium to course textured soils.

## **Positive Features**

- Easy to establish
- Produces good ground cover
- Extensive root system
- Suitable for erosion control
- 45% digestibility year round
- 20% crude protein in May, but drops to 4% in September

## Considerations

- Tends to get sod bound
- Wiry and unpalatable in the fall

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	1200 Mark all 19	
Use	Pasture, hay and reclamation	
Longevity	Long	
Winterhardiness	Good	
Drought Tolerance	Very high	
Flood Tolerance	Moderate	
Salinity Tolerance	Moderate	
Alkalinity Tolerance	Moderate	
Acidity Tolerance	Low	
Bloat Risk	No	
Root	Sod forming	
Seeds per Pound (lb.)	155,000	
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## Prairie Cordgrass Spartina pectinata



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## **Preferred Conditions**

Wide range of soils, sandy to clay. Does best on seasonally dry areas such as marsh edges, wet meadows, and drainage ways.

## **Positive Features**

- Useful for wetland restoration and enhancement, streambank stabilization or wind strip barrier.
- Excellent flooding tolerance
- Moderate fertility requirements

## Considerations

- Poor palatability and feed value after spring
- Less drought tolerant than big bluestem
- Intolerant of prolonged flooding
- Not very competitive



Use	Hay, riparian and reclamation
Longevity	Long
Winterhardiness	Good
Drought Tolerance	Low to moderate
Flood Tolerance	High
Salinity Tolerance	Low to moderate
Alkalinity Tolerance	Low to moderate
Acidity Tolerance	Low
Bloat Risk	No
Root	Sod forming
Seeds per Pound (lb.)	183,000

# Pubescent Wheatgrass Agropyron trichophorum



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## **Preferred Conditions**

Pubescent wheatgrass requires at least 12 inches (300 mm) of annual precipitation for productivity and longevity. It is suited to all soil textures and has lower fertility and moisture requirements than intermediate wheatgrass.

## **Positive Features**

- Easy to establish
- Dense basal leaves, excellent hay when combined with alfalfa
- Competitive, high yielding
- Average of 57% digestibility

## Considerations

- Needs higher levels of annual precipitation to remain productive
- Very low tolerance to acidic soil



Use	Reclamation, hay or pasture
Longevity	4 to 10 years
Winterhardiness	Good. Better than intermediate wheatgrass.
Drought Tolerance	Good. Better than intermediate wheatgrass
Flood Tolerance	Withstands saturated soil for about 1 week
Salinity Tolerance	Moderate
Alkalinity Tolerance	Moderate
Acidity Tolerance	Low. Tolerates soil pH as low as 6.5 to 7
Bloat Risk	No
Root	Sod forming
Seeds per Pound (lb.)	95,000

## Purple Prairie Clover dalea purpurea



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# **Preferred Conditions**

Is adaptable to a wide range of soil types, including sandy, sandy loam and other moderately drained soils.

## **Positive Features**

- Highly palatable and nutritious
- Fixes nitrogen
- Soil stabilizer
- Adapted to slopes along hillsides, prairies and plains
- Attracts pollinators

## Consideration

- Stand should be well established before livestock grazing
- Does not tolerate continuous grazing or heavy overuse



Use	Pasture and reclamation
Longevity	Long
Winterhardiness	Good
Drought Tolerance	High
Flood Tolerance	Low
Preferred pH levels	Prefers pH 6.2-7.5
Bloat Risk	No
Root	Tap root with branches near the surface
Seeds per Pound (lb.)	292,000

## Sheep Fescue Festuca ovina



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## **Preferred Conditions**

Sheep fescue is suited to all soil textures in well drained areas but produces especially well in sand or other coarsely textured soils. Sheep fescue requires approximately 12 inches (30 cm) of annual precipitation.

## **Positive Features**

- Very effective for erosion control
- Withstands high degree of animal traffic
- Very competitive with weeds
- Stabilizes eroding soil and cutbanks with dense root system

## Considerations

- Seldom selected by cattle or horses
- Will not tolerate flooding

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Use	Reclamation or pasture
Longevity	10 to 20 years
Winterhardiness	Good
Drought Tolerance	Good once established
Flood Tolerance	Not recommended for areas of water saturation
Salinity Tolerance	Low
Alkalinity Tolerance	Moderate
Acidity Tolerance	Tolerates soil pH as low as 5.5
Bloat Risk	No
Root	Dense, bunch roots
Seeds per Pound (lb.)	680,000

# Side Oats Grama

Bouteloua curtipendula



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## **Preferred Conditions**

Adapted to a range of soils. Performs best on fine textured soils. Found on rocky ridges, open grasslands and hillsides.

## **Positive Features**

- Vigorous seedlings
- Very palatable and nutritious all season
- Cures well on stem
- Good for winter grazing
- Low to moderate fertility required

## Considerations

- Less palatable than blue grama
- Sensitive to overgrazing
- Best not to graze until second growing season.



Use	Hay or pasture, reclamation	
Longevity	Long	
Winterhardiness	Good	
Drought Tolerance	Moderate to high	
Flood Tolerance	Low	
Salinity Tolerance	Low to moderate	
Alkalinity Tolerance	Low to moderate	
Acidity Tolerance	Low	
Bloat Risk	No	
Root	Bunch grass	
Seeds per Pound (lb.)	191,000	

# Slender Wheatgrass

Agropyron trachycaulum



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## **Preferred Conditions**

Adapted to a wide range of soils but prefers sandy loams.

## **Positive Features**

- Vigorous seedlings and fast establishment
- High salinity tolerance
- Cures well on stem
- Yields 3,290 to 4,550 lbs./acre
- Effective erosion control due to rapid establishment
- Average digestibility of 55%

## Considerations

- Less competitive and persistent than other wheatgrasses
- Easier to overgraze



Use	Hay or pasture, reclamation
Longevity	3 to 4 years
Winterhardiness	Good
Drought Tolerance	Moderate
Flood Tolerance	Moderate
Salinity Tolerance	High
Alkalinity Tolerance	High
Acidity Tolerance	Low to moderate, tolerates as low as pH 5.6
Bloat Risk	No
Root	Bunch grass
Seeds per Pound (lb.)	160,000

## Switchgrass Panicum virgatum



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## **Preferred Conditions**

Grows best on loam and sandy soils. Potential for good summer pasture with sufficient moisture.

## **Positive Features**

- Can be used for summer pasture when cool grasses go dormant
- A hardy, deep-rooted, perennial rhizomatous grass
- Often used as an ornamental grass

## Considerations

Slower establishment

Root

Seeds per Pound (lb.)

- Shouldn't be harvested the first year
- Unpalatable after maturity

Use	Pasture or reclamation
Longevity	Medium
Winterhardiness	Fair
Drought Tolerance	Low
Flood Tolerance	Moderate
Salinity Tolerance	Moderate
Alkalinity Tolerance	Moderate
Acidity Tolerance	Low
Bloat Risk	No

Bunch grass

#### 389,000

## Western Wheatgrass Agropyron smithii



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## **Preferred Conditions**

Widely adapted and tolerates periodic flooding. Prefers moderately alkaline heavy soils.

## **Positive Features**

- Salt tolerant and long lived
- Nutritious, productive and increases under moderate grazing
- Good for erosion control

## Considerations

Slower establishment

Root

Seeds per Pound (lb.)

Sensitive to overgrazing

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Use	Pasture, hay or reclamation
Longevity	Long
Winterhardiness	Excellent
Drought Tolerance	High
Flood Tolerance	Moderate to high
Salinity Tolerance	High
Alkalinity Tolerance	High
Acidity Tolerance	Low
Bloat Risk	No

Sod forming \_\_\_\_\_ 110,000

#### Northstar Seed

#### **Sample Native Seed Blends**

Neepawa, MB-Ph: 1-800-430-5955 Fax: 1-204-476-3773 Okotoks, AB-Ph: 1-800-805-0765 Fax: 1-403-236-0688

#### Northstar Seed offers a complete line-up of Native Seeds and Blends. Contact Northstar Seed for a current product list and prices.



#### Foothills Native Blend

Suitable for upland areas along the Rocky Mountain Foothills

30% Rocky Mountain Fescue25% Foothills Rough Fescue15% Mountain Brome Grass10% June Grass10% Awned Wheat Grass10% Alpine Blue Grass

#### Southern Prairies Native Blend

Suitable for upland areas in southern Alberta and Saskatchewan

20% Plains Rough Fescue 20% Green Needle Grass 15% Slender Wheat Grass 15% Western Wheat Grass 15% June Grass 10% Blue Grama 5% Needle & Thread

#### Sandy Soils Native Blend

Suitable for dry sandy locations

30% Prairie Sand Reed
15% Slender Wheat Grass
15% Blue Grama
15% Green Needle Grass
15% Indian Rice Grass
10% Needle and Thread

#### North/Central Parkland Native Blend

Suitable for upland Loamy soils in the North/Central prairies.

20% Northern Wheat Grass 20% Canada Wild Rye 15% Fringed Brome Grass 15% Rocky Mountain Fescue 15% Slender Wheat Grass 10% Green Needle Grass 5% June Grass

#### Wetland Native Blend

Suitable for lowland areas or margins of ponds and sloughs.

- 20% Tufted Hair Grass 20% Fowl Blue Grass
- 20% Canada Wild Rye
- 20% Callaud Wild Rye
- 15% Beckman's Slough Grass
- 15% Slender Wheat Grass
- 10% Tickle Grass

#### Slope Stabilization Native Blend

Suitable for stabilizing soils on slopes with marginal soils.

40% Rocky Mountain Fescue 20% Streambank Wheat Grass 20% Slender Wheat Grass 20% Canada Wild Rye

#### Native Seed

Additional Species and Custom Blending available. Please ask for a price quote today.

Awned Wheatgrass, Alpine Bluegrass, Big Bluestem, Blue Grama, Bluebunch Wheatgrass, Canada Wildrye, Fowl Bluegrass, Fringed Brome (Coated or Bare), Green Needlegrass, Hairy Wildrye, Idaho Fescue, Indian Grass, Indian Ricegrass, Junegrass, Little Bluestem, Mountain Brome, Needle and Thread, Northern Wheatgrass, Salty Alkaligrass, Prairie Sandreed, Purple Prairie Clover, Rocky Mountain Fescue, Rough Fescue, Sand Dropseed, Sandberg Bluegrass, Side Oats Grama, Sheep Fescue, Slender Wheatgrass, Spike Trisetum, Streambank Wheatgrass, Ticklegrass, Nortran Tufted Hairgrass, Western Porcupine, Western Wheatgrass, American Vetch, Nodding Brome, Canada Bluegrass, Sloughgrass, Hairy Vetch, and Red Top.

#### Hydro-Mulching with FIBRAMULCH - An Overview

#### Hydro Seeding is ...

... A way to plant sood using wator as a carrior ... A way to use wator to disburse small soods evenly over large areas

#### When is Hydro - seeding used? When is it appropriate?

- ... Frequently used to plant large areas
- ... Frequently used to plant hard to get areas ... Used for fine turf establishment when irrigation is available
- ... Used for reclamation and erosion control under diverse climatic conditions

#### What is the value of adding Fibramulch & Tackifiers

- ... FIBRAMULCH provides moisture retention needed for seed germination
- ... FIBRAMULCH provides erosion resistance which reduces seed wash out
- .. FIBRAMULCH with Tackifiers provide better erosion resistance

#### Cost Comparison Hydro - seeding vs. SOD

HYDROSEEDING - .02 ( sq. ft.

Example: For one Aere (43,560 Sq. Ft.)	
HYDROSEEDING	
43,560	
X.02	
Total Cost = \$871.20	ŝ

X.13 \$5,662.00

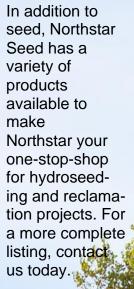
#### Projected Soll Price: HYDROSEEDING ~ \$871.20

400% m.u. - \$3,484.00 Total = \$4,355.20 900 ~ \$5,662.80 33% m.u. ~ \$1,868.72 Total = \$7,531.52

CONCLUSION: Maximize your profit potential by Hydro - Seeding with FIBRAMULCH



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Grow with us

Manitoba Office & Distribution Warehouse

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