

An aerial photograph of a farm or nursery. In the foreground, there are rows of young green plants in a field. A dirt road runs through the middle. In the background, there are several large, arched structures, possibly greenhouses or covered walkways, and a large body of water. The sky is clear and blue.

Pre-vegetated Coir Mats: when, where, and how to use them



NORTH FORK NATIVE PLANTS

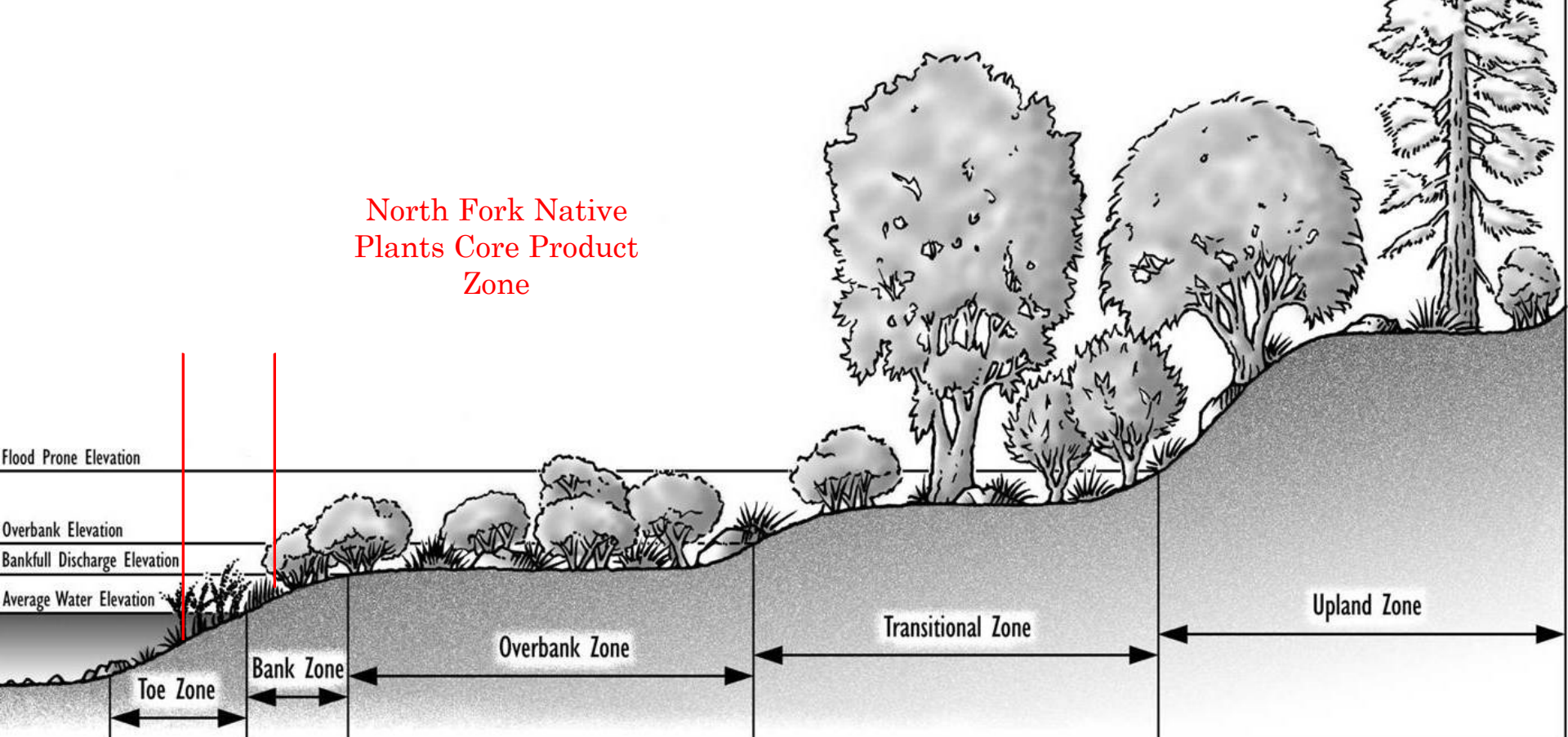
custom growing and restoration services

Rexburg, ID

Est. 2003



North Fork Native
Plants Core Product
Zone



Sedges
Rushes
Bulrushes



Trees
Shrubs
Willows



Sagebrush
Bitterbrush
Rabbitbrush



Stratification



“Many wetland plants are very difficult to seed in the wild. Wetland plant seeds usually need three things to germinate: 1) heat, 2) water, and 3) light.”

J. Chris Hoag, Wetland Plant Ecologist,
USDA - Natural Resources Conservation Service,
Plant Materials Center, Aberdeen, ID

Germination



Why target Sedges and Rushes?



They have incredible sod forming characteristics (enhance their ability to stabilize eroding banks)

What are Pre-vegetated Coir Mats? (aka Wetland Sod)



1m x 5m

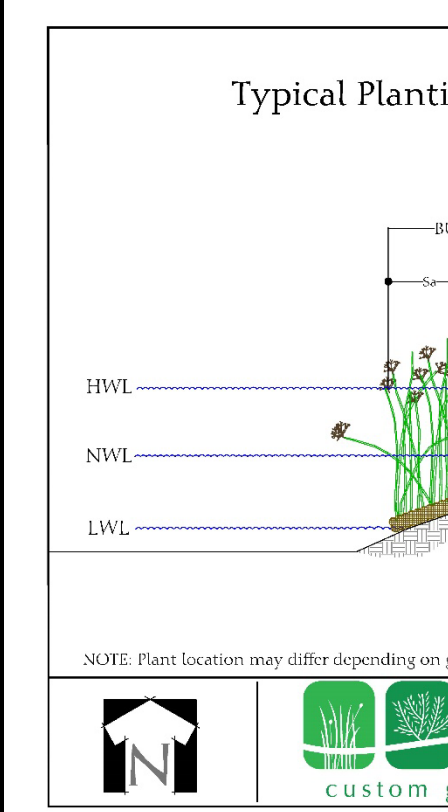


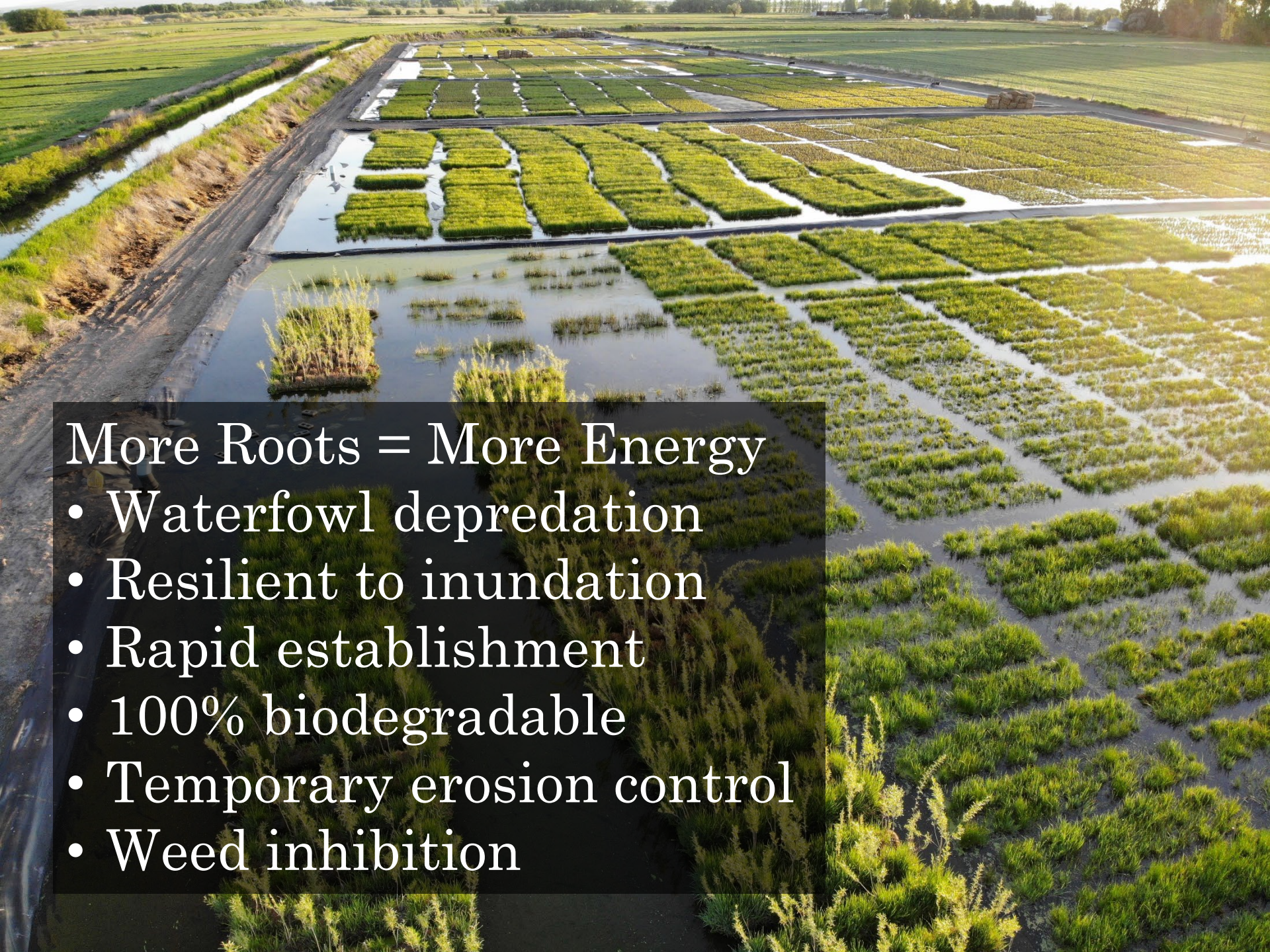
Erosion control
+ Native Plants

What are (aka Wetland

3 way species mix (
OR
1 Bulrush species

Plants?





More Roots = More Energy

- Waterfowl depredation
- Resilient to inundation
- Rapid establishment
- 100% biodegradable
- Temporary erosion control
- Weed inhibition

When to plant Wetland Sod

- During the growing season, 4-6 weeks before you get your first frost in the fall
- Preferably right after spring run off
- Can plant later IF water levels can be controlled

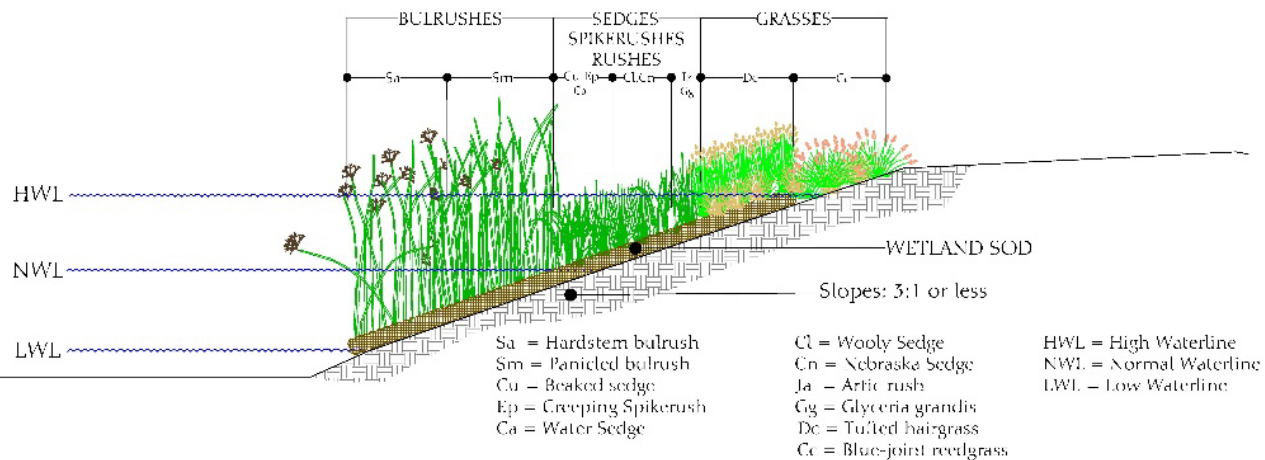




Where to plant Wetland Sod

- Ponds, streams, rivers, wetlands, stormwater basins, etc. (wherever hydrology is appropriate)
- Hydrology will determine appropriate species mix

Typical Planting Zones for Common Wetland Plants



NOTE: Plant location may differ depending on geographic region and specific hydrologic characteristics.



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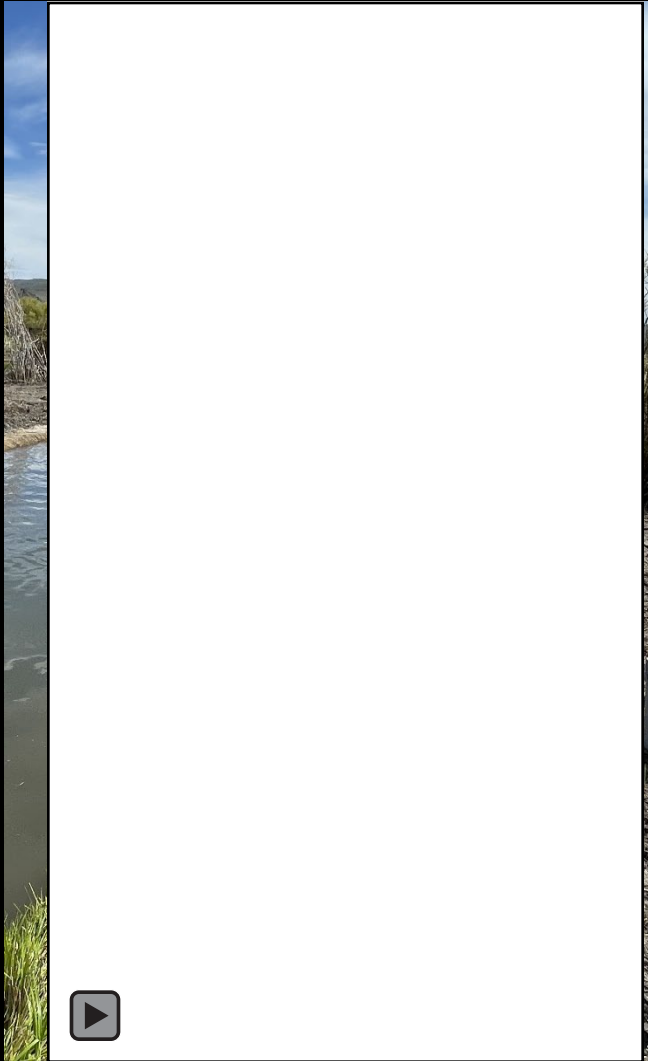
Scale: Not to Scale

Date: March 15, 2009
 Location: KS
 Designer: KS

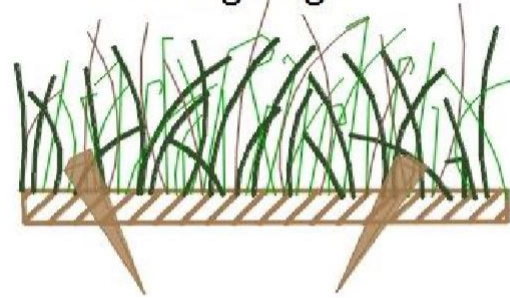
How to install Wetland Sod



How to plant Wetland Sod

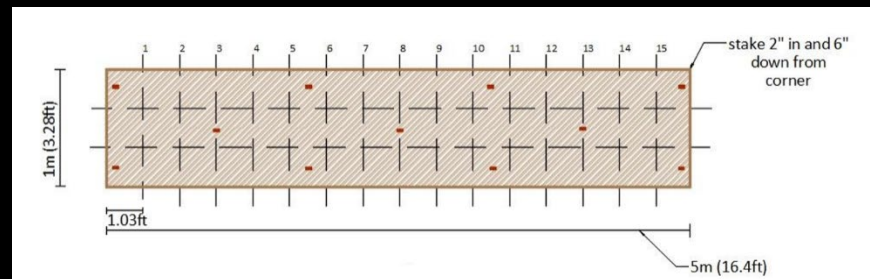


Staking Angle



Stakes should be inserted at an angle to pin coir fabric tightly to the ground until plants can root. Angles can be adjusted depending on substrate.

*drawing not to scale



Hancock Springs Channel Reconstruction Winthrop, WA

Customer: Yakama Nation Fisheries Dept

- Project goal to restore channel function for native salmonids.
- Wetland Sod and source identified, site adapted native plants were used to restore channel morphology and floodplain function.









Stapleton Airport Redevelopment Denver, Colorado

Customer:

- 148 – Pre-vegetated coir mats
- Wetland Sod was used to secure highly erosive soils in stormwater detention basin





Before: June



Install: June



1 Year After Install: June



2 Years After Install: June

Sanderson Gulch Bank Stabilization

Denver, Colorado

Customer: Urban Drainage

- 90 - Pre-vegetated Coir Logs
- 153 – Pre-vegetated Coir Mats
- Bio-logs were installed at toe of bank on lower reach
- Two different mixes of Wetland Sod to match anticipated site hydrology.





Construction: April



Site Preparation: May



Post Install: June



3 Months: August

Lesson's Learned



Time is of the essence!

Reach out in advance

Standard Mix	
YEAR 1	
Jan-Apr	May-Sep
30% Deposit Accepted to Reserve Material	Delivery Season

Custom Mix - Produced from Sourced Plant Materials or NFNP Bare Root Stock					
YEAR 1			YEAR 2		
Jan-Apr	May-Sep	Oct-Dec	Jan-Apr	May - June	Jun-Sep
50% Deposit Accepted to Reserve Grow Space	Plant Mats/ 1st Grow Season (Possible Fall Delivery)	Dormant	Dormant	Final Grow To Meet Spec	Delivery

Custom Mix - Grown from Site Collected or Commercial Seed							
YEAR 1			YEAR 2			YEAR 3	
May-Sep	Oct-Dec	Jan-Apr	May-Sep	Oct-Dec	Jan-Apr	May - June	Jun-Sep
Seed Collection - Seed Sourcing	Seed Cleaning - Stratification	50% Deposit Accepted Started Plugs Greenhouse Grow	Plant Mats/ 1st Grow Season (Possible Fall Delivery)	Dormant	Dormant	Final Grow To Meet Spec	Delivery





Questions?

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