# Making the most of a hoophouse





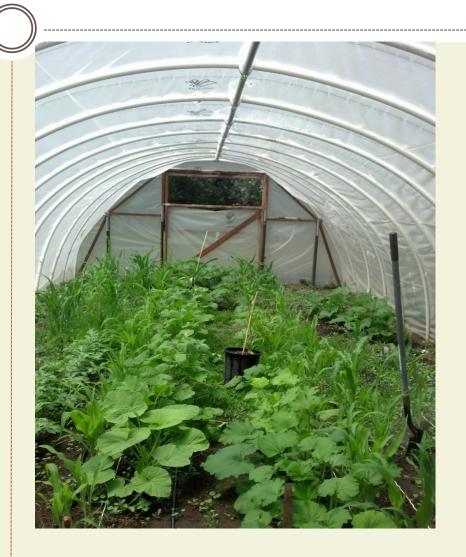




Supported by funding from:

# Why use a hoophouse?

- Long Season
- Start earlier



#### How Cold is it here?

- For Owyhee, NV, average last frost is June 1-10
- Average first frost is September 11-20
- Your frost-free growing season is between 90 and 120 days.
- Most warm-season crops require at least 75 frost-free days to begin producing.

# How is a hoophouse different from an outdoor garden?

- "high rent district"
- Closer spacing
- Vertical space.
- Need good soil
- Problems with pests, diseases, and pollination.
- Fast turnaround crops

# What to plant? Cool season crops.

- What do you want to eat?
- What will your customers want to eat?
- Lettuce mixes, spinach, arugula and other greens can be harvested and will regrow several times in warmer months.
- These are high-value crops in urban areas.





# What to plant? Cool season crops.

- Many root crops are cool season crops.
- Garlic and onions can be planted in the late summer or fall and will overwinter.
- Carrots, beets, and radishes can be sweeter and more delicious in cooler months.
- Generally lower in value than greens.



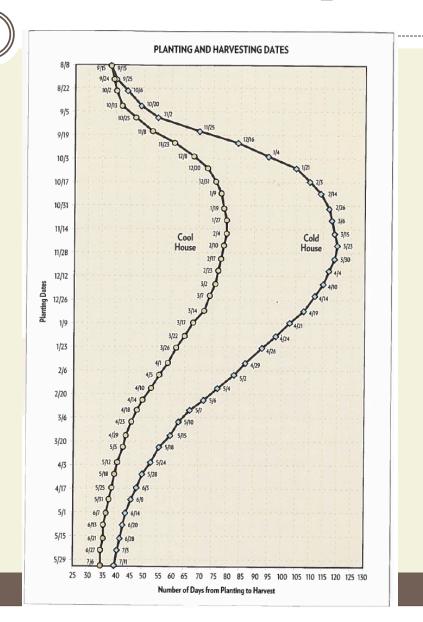
# Other Cold Season Crops

- Peas
- Cilantro
- Potatoes
- Strawberries
- Cabbage, broccoli, cauliflower, kohlrabi
- Herbs like parsley, sage, rosemary, lavender, are perennials and can be harvested for much of the year.



# Planting schedule for cool season crops.

- Both temperature and day length effect plant growth.
- While crops may survive the winter, they may not grow very much.
- Adding additional cold protection can help.



# Other ways to protect crops.

- Row cover
- "Quick Hoops"





# What to plant? Warm Season Crops

- Tomatoes and peppers are high value crops that take a long time to mature.
- Cucumbers are high value, high production, and can be grown vertically.
- Basil is a high-value crop and won't take much space in the hoophouse.



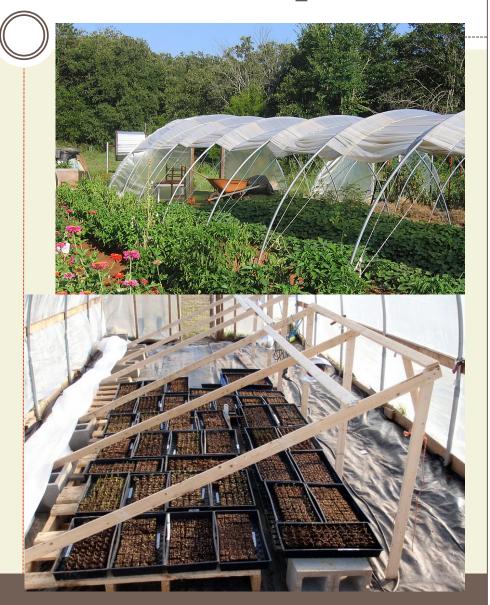
#### What to plant? Other warm season crops.

- Corn
- Melons
- Tomatillos
- Zucchini
- Winter Squashes
- Flowers
- You can start some of these in your hoophouse and then move them outside.

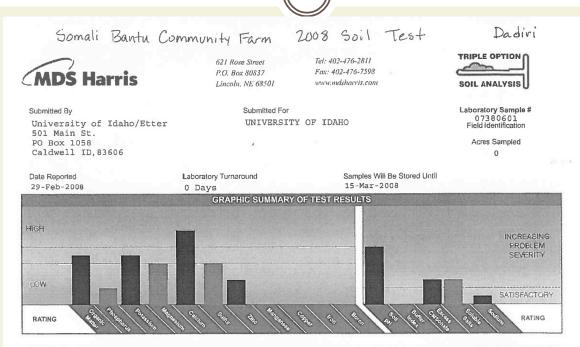


# More about Warm Season Crops

- In the summer, it can get TOO HOT for the crops in your greenhouse. You will need some ventilation.
- Tomatoes and peppers are planted from seedlings. You will have to either grow them or buy them. You will probably need supplemental heat to grow them.



# Soil in your Hoophouse – Get a Soil Test!



REPOR		<b>建筑</b>	FE	RTILIZER GUI	DELINES IN IN	LBS. PER 1000	SQ. FT.			
YÖÜR SAMPLE NUMBER		1st Option Intended Crop			2nd Option	3rd	3rd Option Intended Crop			
C2	8	GARDEN								
Soil pH	8.1	Yield Goal			Yie		Yield Goal			
Buffer Index										
Excess Carbonate	L	Preceding Crop			Preceding Crop			Preceding Crop		
Sclüble Sats (mmhos/cm)	0.48								ČROP	
Sodium ppm	89.0	PLANT FOOD GUIDELINE RANGES		REMOVAL RATES	PLANT FOO GUIDELINE RA			PLANT FOOD QUIDELINE RANGES		
% Organic Matter	2.8	N	3		N		N		REMOVAL RATES	
ANALYSIS OF BUTRIENT ELEMENTS IS IN PARTS PER MILLION (ppm)		P <sub>2</sub> O <sub>5</sub>	1		P <sub>2</sub> O <sub>5</sub>		P <sub>2</sub> O <sub>5</sub>			
		K <sub>2</sub> O	0		K <sub>2</sub> O		K <sub>2</sub> O			
Nurate N	15.0	MgO	0		MgO		MgO		ESSE	
Phosphorus Bray I Oiseo	11	S	0		S		S			
Potassium	. 275	Zn	0.1		Zn		Zn			

# How to improve soil quality organically

- Add compost or manure.
- Grow a cover crop.
- Practice home composting.
- Use good crop rotation practices.
- Move the hoophouse, so that the same soil isn't used over and over again for the same crops.
- Prepare the soil well.





# Plant spacing in the hoophouse.

- Vertical trellising for cucumbers and tomatoes.
- Tight rows for lettuce and root crops.
- Planting tools can help achieve good spacing.

