

by Millsap Farm































Why Do we need to develop resiliency in our farms and gardens (and our lives?)



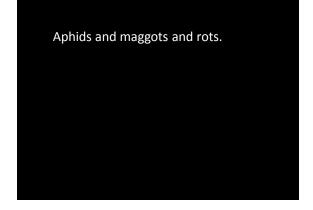












Diversity + Clear Purpose = Resiliency: Lessons from Wilderness Risk Management Risks increases exponentially when: 1. Plans and Criteria for Success are rigid 2. Timelines are unchangeable 3. Conditions are changing, and leadership fails to change with the conditions All of these together mean you are flirting with disaster.

How we built resiliency into our farm:

Starting with a diverse plan which allows for variations

Many Varieties

Successions

Extra seedlings

Use diverse equipment and practices which allow flexibility

Row Covers

Low Tunnels

High Tunnels

Greenhouses

Mixed irrigation options

Plan for diverse

Marketing

Seasons

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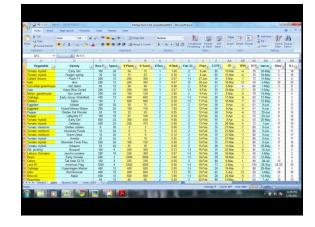
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We grow 100's of varieties, year-round.

Tomatoes Cucumbers Peppers Squash Celery Arugula Lettuce Beets Radishes Eggplant ETC.

For the fullest possible market booth/ CSA basket, we plan for storage and fresh harvest in the winter: Storage: Fresh Harvest: Carrots Lettuce, Head and Leaf Sweet Potatoes Kale Green onions Irish Potatoes Beets Turnips Chard Arugula/ other greens Spinach Garlic Apples Winter Squash Cabbage Beets Cabbage Turnips Kohlrahi Radishes Parsley/Celery/Cilantro Black spanish Radishes









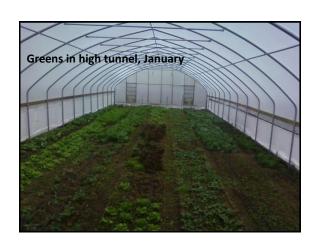






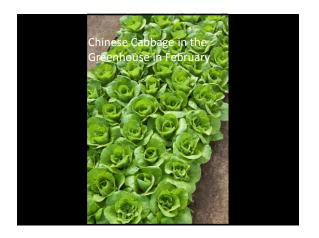


















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Every year the pest and weed challenges change. If you provide a diversity of environments on your farm or garden, you will have increased odds of success.

























Diversifying the environment after planting!



























Resiliency: Good enough is perfect, don't invest too much, and stay flexible.













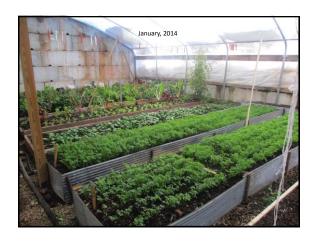








Costs to date for 72'x23' Chinese Earth Tunnel	
Kit from Morgan County Seed:	\$5,000
Concrete blocks purchased and hauled	\$3,800
Excavator with operator	\$2,400
Gravel	\$1,000
Fasteners, insulation, and metal	\$1,000
Engineering	\$700
Compost soxx	\$1,200
Raised beds	\$600
Total to date:	\$13,800
Total	¢12.000
lotal	\$13,800
Square foot cost	\$9/s.f. Without labor



Advantages of High Tunnels in general:

Less pesticide use
Less erosion
Less run-off
Improved income for farmers
Higher yields
Longer growing season (extends the season at least 3-4 weeks on either end)
Less energy use
More localized food source

Advantages of Chinese High Tunnel:

All of the above.
Greater temperature stability,
Better strutural stability
Longer structure lifespan
Extends the season at least 2 months on each end.







5 year learning curve for any enterprise.

Millsap corollary: don't take on too much at a time.

