

Today's Presenters

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- Name
- Have you implemented season extension infrastructure in your garden? YES / NO
- What are you most interested in learning about?

Introduction



“Low tech” Solutions

- Wall-o-waters
- Cloches
- Floating row covers
- Raised beds



Raised beds

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Floating Row Cover



Transparency of
row cover / frost
cloth is
important!



What is what?

Cold frame


Low tunnel

High tunnel

Greenhouse



“Medium tech” Solutions

- 
- A photograph of a garden. In the foreground, there is a large, healthy green plant with broad leaves, possibly a squash or pumpkin, growing in a bed covered with red mulch. A metal trellis structure is visible behind the plant. In the background, a white polytunnel (hoop house) is set up on a grassy area. The polytunnel is covered in clear plastic and supported by a wooden frame. The background shows a line of trees with green and yellowing leaves, suggesting an autumn setting.
- Cold frame
 - Mulches
 - Hot beds
 - Hoop houses (low and high tunnels)



Cold frames can be semi-permanent or temporary structures



Hot Beds

- Compost & electric

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Mulches

plastic or vegetative



—

Raised bed,
with low tunnel



Steel electric conduit is great for low tunnels





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High Tunnel, DIY, 8x7, hog panel,
6mm UV treated polyethylene
plastic







“High tech”
Solutions



High Tunnels



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Hoop Houses – High Tunnel

USDA NRCS-EQIP high tunnels: cost-share program

- <https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/eqip/>

- Apply by mid-Dec.
- Contact local NRCS office



Photo credit: www.nrcs.usda.gov



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Calgary, Canada
Rob Avis –
Verge
Permaculture



Passive Cooling Keeweenaw, MI





Walipini's/
underground
greenhouses



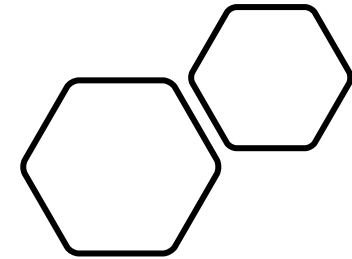
Glazing

- Ultraviolet-stabilized polyethylene
- Acrylic or polycarbonate double-layer structured panels
- Glass

Greenhouse Glazing Extension Publication:
https://digitalcommons.usu.edu/cgi/viewcontent.cgi?article=1007&context=extension_histgarden

COLD-CLIMATE GREENHOUSE RESOURCE

A guidebook for
designing and building a
cold-climate greenhouse



Southeast Regional Sustainable
Development Partnership

UNIVERSITY OF MINNESOTA
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CSBR
Center for Sustainable Building Research

Eagle
Bluff
Environmental

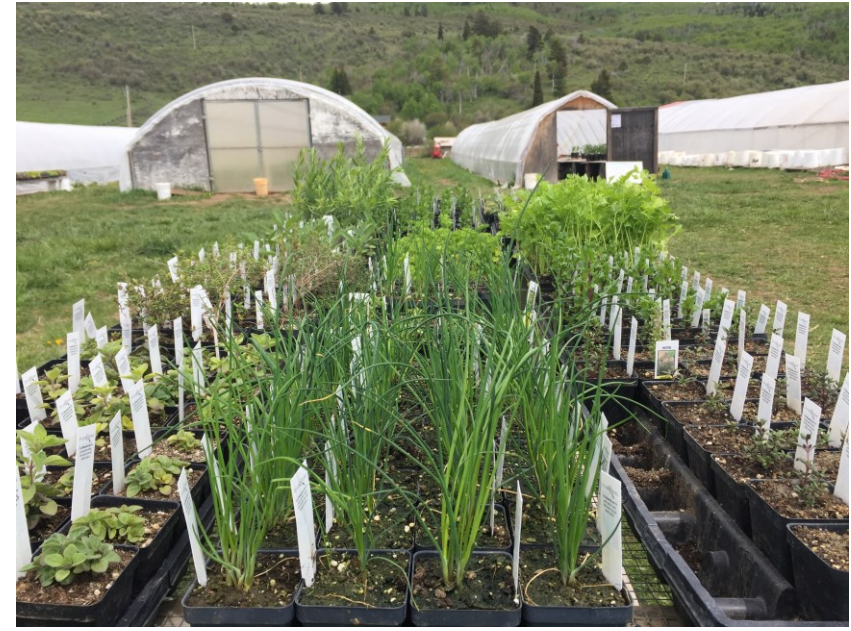
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Regional Affairs
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Resources



- NRCS High Tunnel Grant Opportunity:
 - <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/id/programs/financial/equip/>
- SARE:
 - <https://www.sare.org/resources/high-tunnels-and-other-season-extension-techniques/>
- UI Extension Short-Season, High-Altitude Gardening:
 - <https://www.extension.uidaho.edu/resources2.aspx?title=Gardens%20and%20Landscapes&category1=Gardening&category2=Short-Season,%20High-Altitude%20Gardening>



Questions?

