

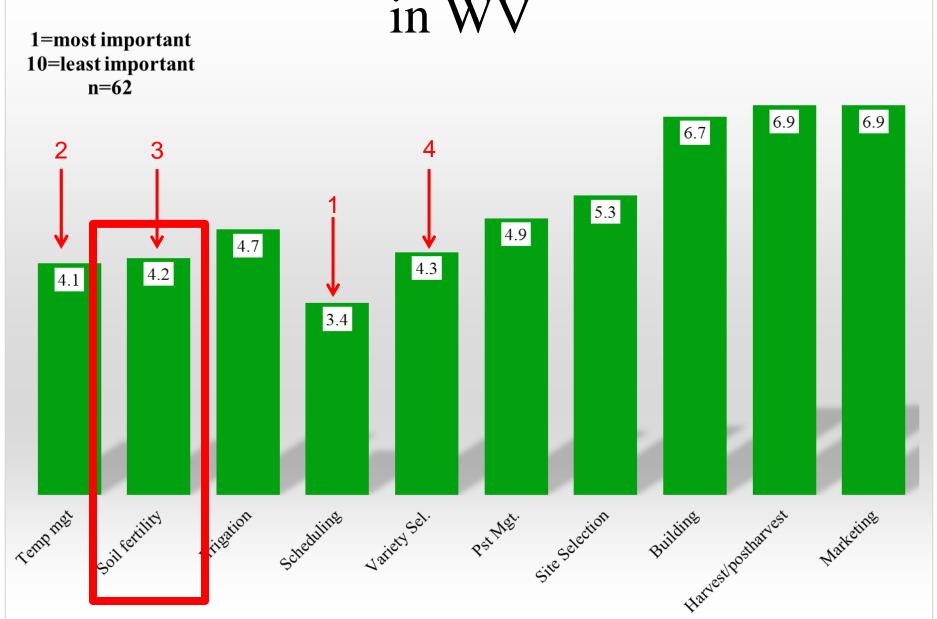


- 800 USDA-NRCS-cost share high tunnels in West Virginia.
- 150 independently-funded high tunnels in West Virginia.
- Total of \approx 1000 high tunnels by 2020.

Important issues for new HT Growers in WV



Important issues for new HT Growers in WV











- · Lack of crop rotations.
- · High temperatures favoring organic
- matter decomposition.
- · Intensive traffic in the tunnel.











Sustainable Agriculture Research & Education

Evaluating Cover Crops for High Tunnel & Field Production



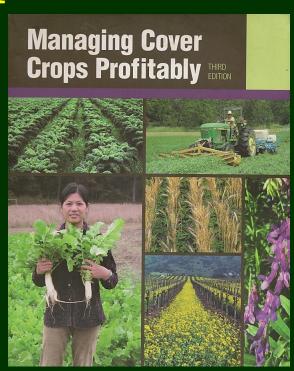






Cover Crops:

- Improve long-term soil health
- Provide nutrients
- Increase organic matter
- Reduce nutrient leaching
- Reduce weed populations
- Increase populations of beneficial insects









A collaboration between the WVU Davis College - Plant and Soil Sciences and the

WVU Extension Service - Agriculture and Natural Resources

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Customer ID: HOMETOWN GBL HT

LAB ID: 19-0110

Date Sampled: 11/15/2018

Date of report: 2/04/2019

Date Received: 1/18/2019

Date of report: 2/04/2019

Date Reserved: 17 10/2010

Previous Management: GARDEN

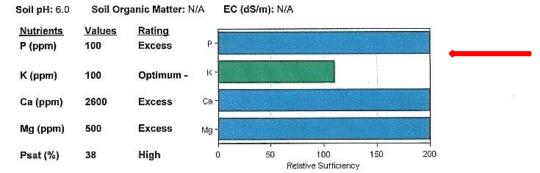
Area Sampled: 384 sq ft

Predominant Soil Series: Unknown

Tillage Method: Conventional

Soil Texture: Manufactured

LAB TEST RESULTS



V. High P

Fertilizer recommendation for H01: Home Vegetable Garden having an expected yield of N/A

	A) Crop Sufficiency Rate	B) Build to Optimum Rate
N (Oz./100 sq. ft.)	0-7	0-7
P ₂ O ₅ (Oz./100 sq. ft.)	0	0
K ₂ O (Oz./100 sq. ft.)	2	2
Ag Lime	9.0 lbs./100 sq. ft. 100% ENV Limestone	

Recommendation Notes are provided on the following page.





Fertilizer

SO Ib kg

net weight

46-0-U

Total Miropen (N) -

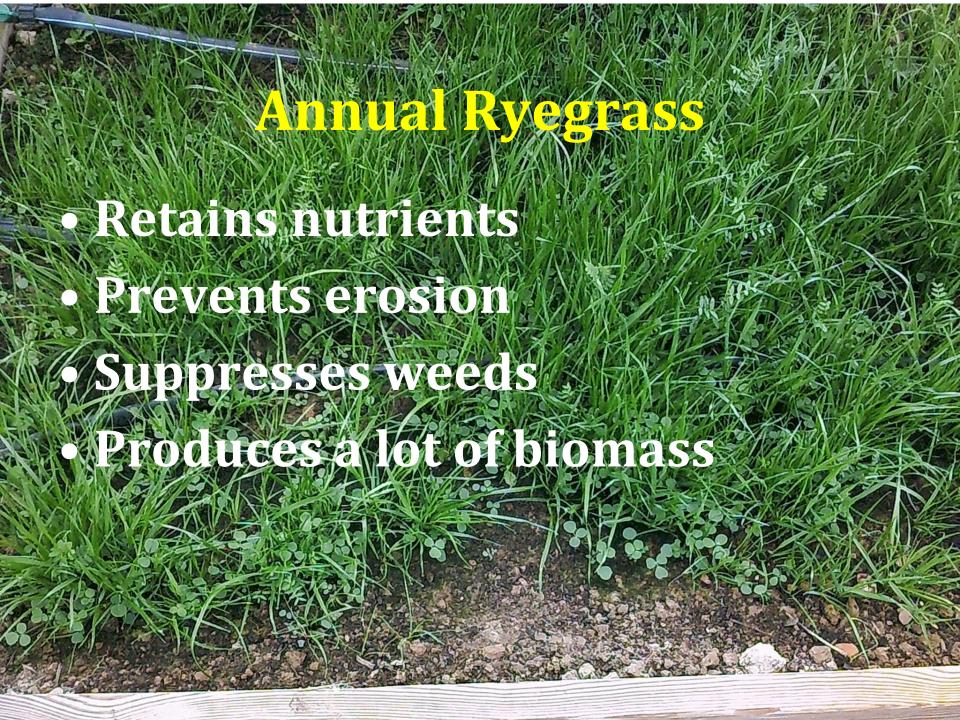












































2 systems for cover crops in high tunnels:

• **Green manure:** The cover crop is turned into the soil to increase nutrients, "fumigate", and increase organic matter.

 No-till: The cover crop residue remains on the soil surface and the crop is planted in the mulch.





High Tunnel Green Manure Cover Crops:

Annual Ryegrass
Mustards
Red Clover
White Clover
Sweet Clover
Berseem Clover

Hairy Vetch Woolypod Vetch































































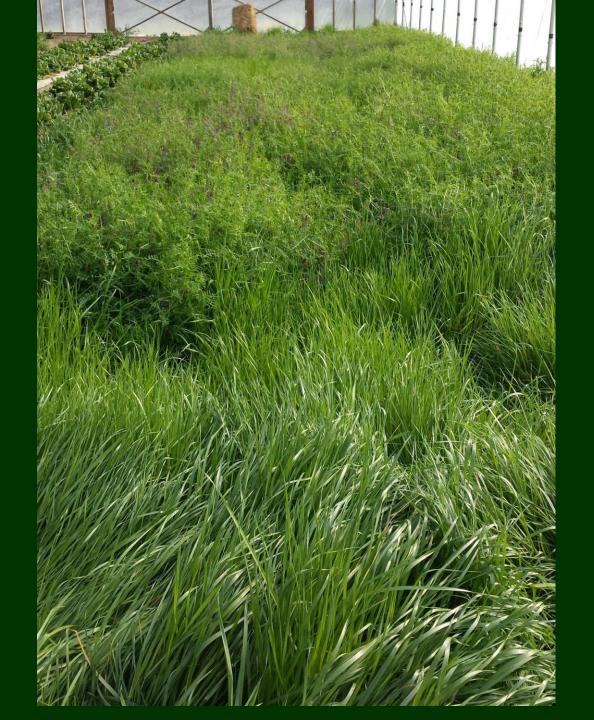














A useful reference:

