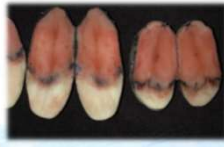


Best Management Practices for Pink Rot

Jeff Miller



1

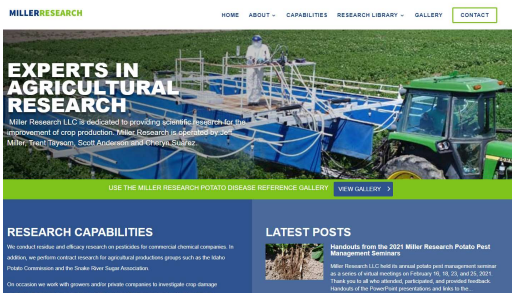
WHEN YOU REALIZE THE NEW GUY
MAY NOT BE AS EXPERIENCED AS
HE SAYS



From "27 Farm memes ideas"

2

Links to handouts and recordings



3

Pythium Leak vs. Pink Rot



Pythium Leak



Pink Rot

4

Pythium Leak vs. Pink Rot



Pythium Leak

Pink Rot

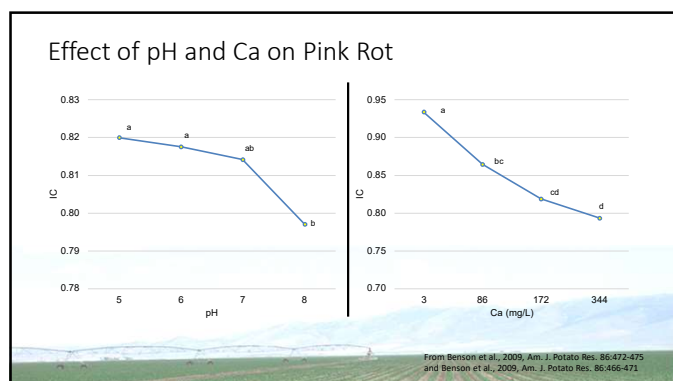
5

Pink Rot Management

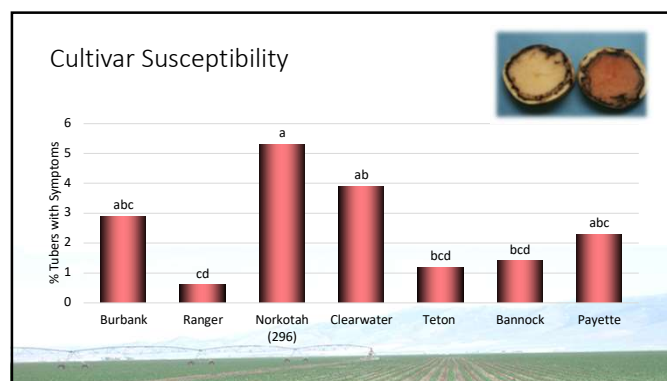
1. Field selection/crop rotation
2. Adjust soil pH by lime application in low pH soils
3. Plant less susceptible varieties
4. Proper irrigation management
5. Use appropriate fungicides
6. Avoid disease-favorable conditions at harvest
7. Apply post-harvest fungicides
8. Grade out infected tubers going into storage
9. Reduce tuber pulp temperatures to 55°F or lower



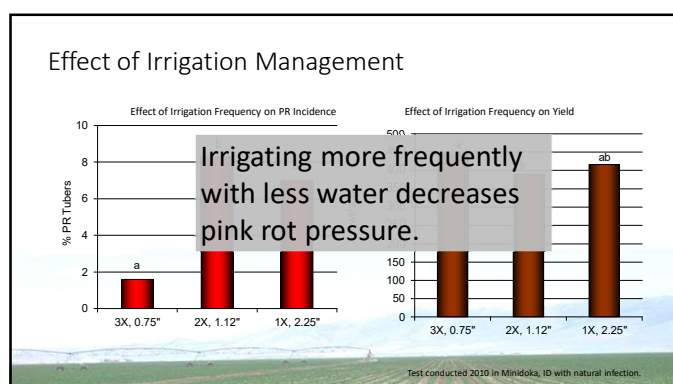
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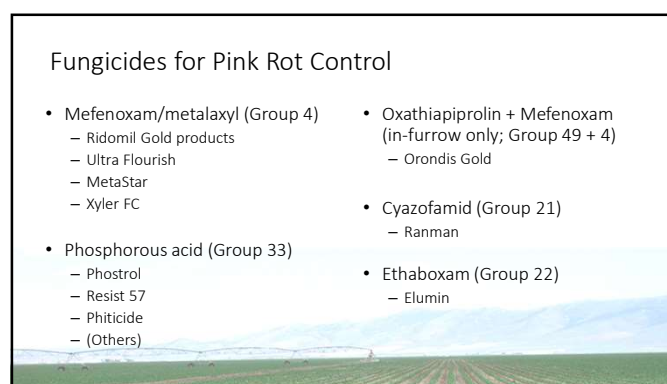
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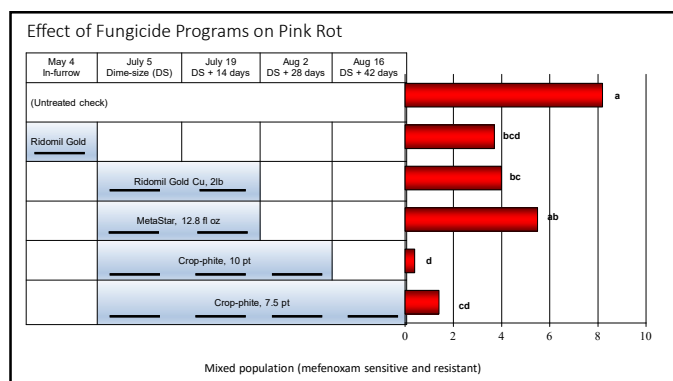
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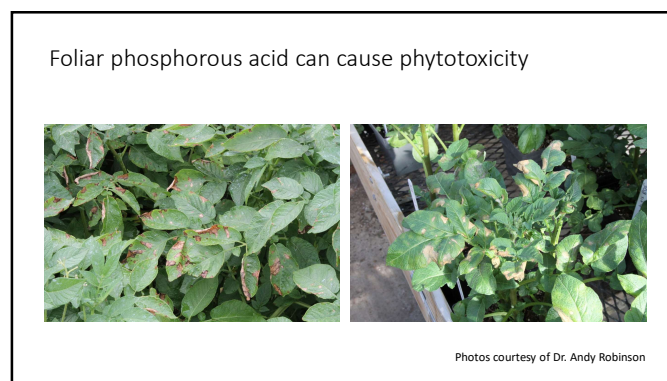
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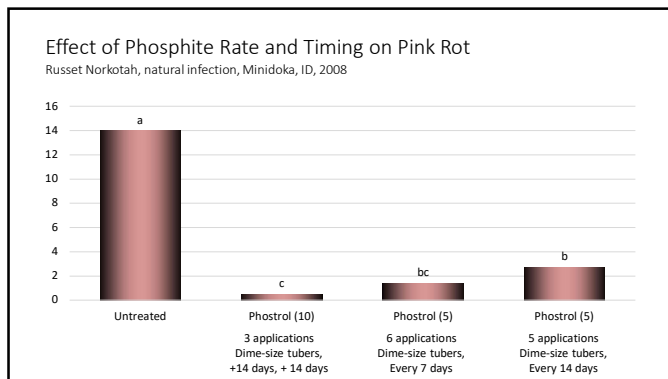
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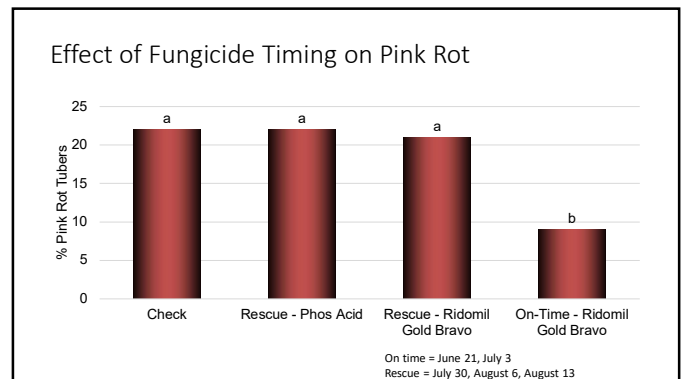
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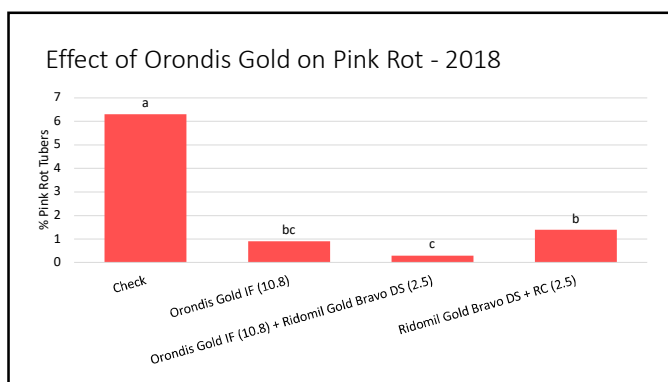
12



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14



15

Phosphites not working as well as expected?

- Is resistance developing to the phosphites?
- Is irrigation interfering with product uptake?
- Is the timing of application optimal?



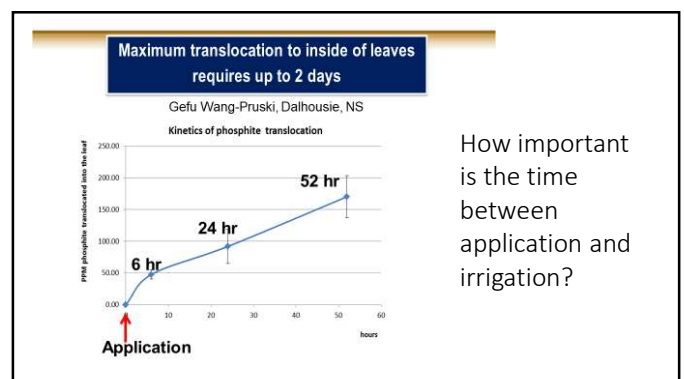
16

Phosphites not working as well as expected?

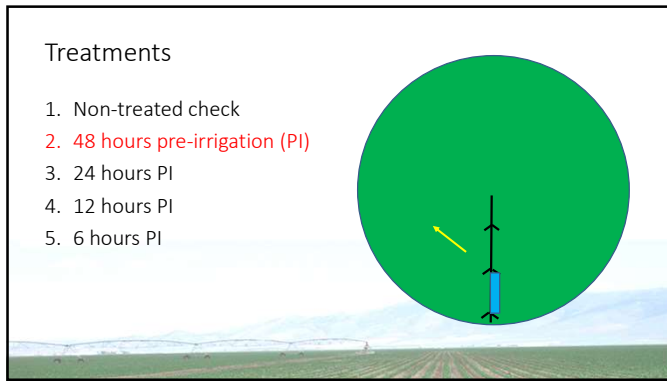
- Is resistance developing to the phosphites? **No**
- Is irrigation interfering with product uptake?
- Is the timing of application optimal?



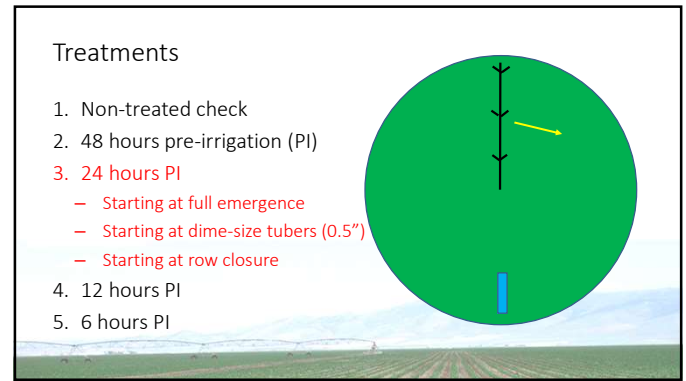
17



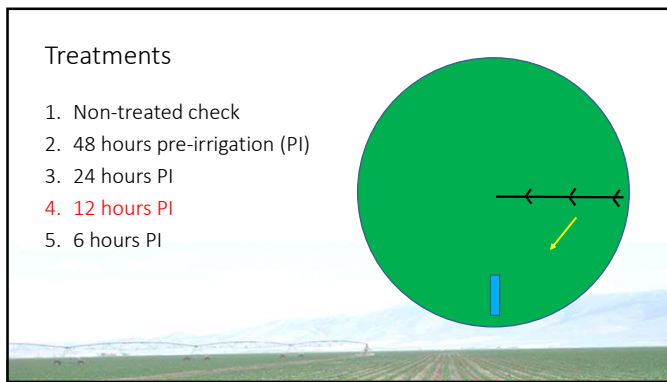
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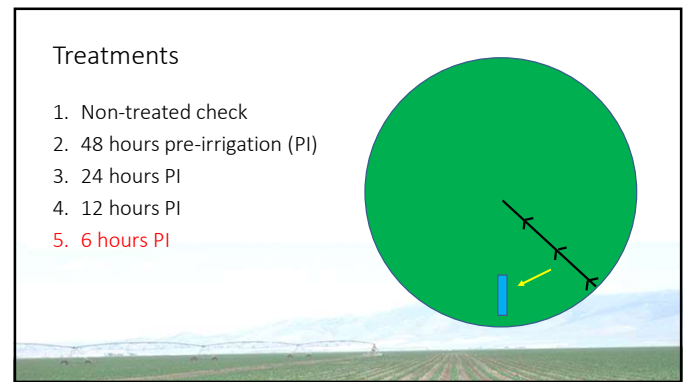
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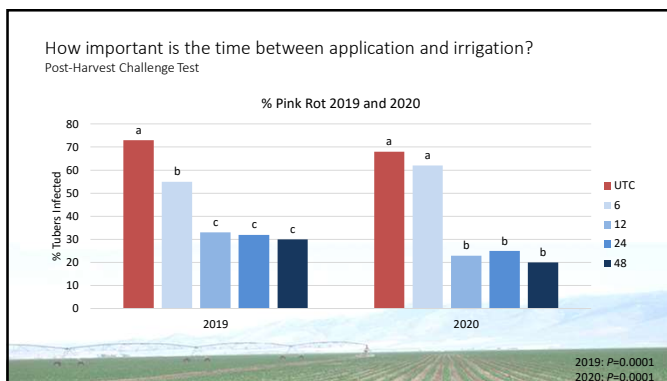
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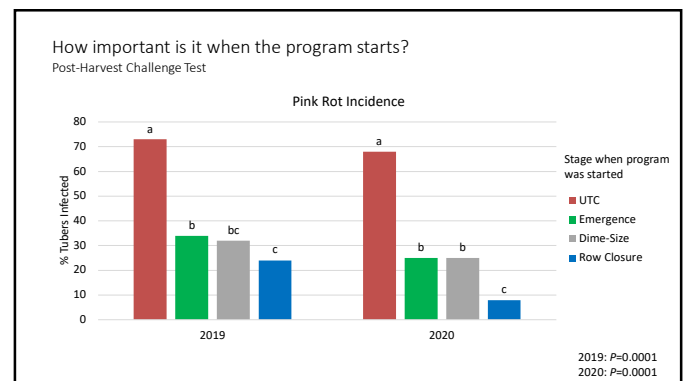
21



22



23



24

Phosphites not working as well as expected?

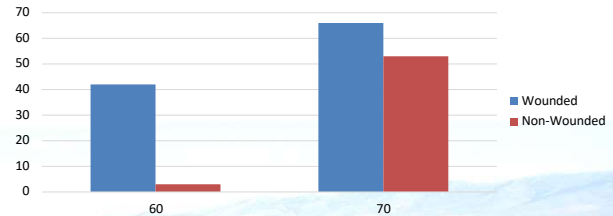
- Is resistance developing to the phosphites? **No**
- Is irrigation interfering with product uptake?
 - Wait at least 12 hours between application and irrigation, if possible.
- Is the timing of application optimal?
 - Going at emergence gave no benefit
 - Program start time can be at row closure.
 - Coincides with early blight/white mold program.



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Avoid Disease Favorable Conditions at Harvest

Effect of Wounding and Pulp Temperature on Pink Rot



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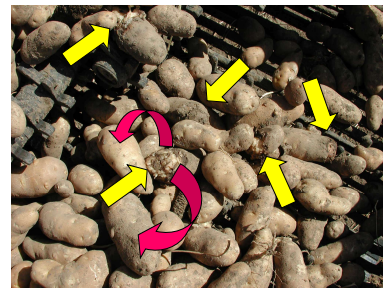
If I have a good foliar fungicide program, do I need to worry about a post-harvest application?

- Was the field program sufficient?
 - Environment, application problems, short rotation, over-irrigation
- Is disease present in the field prior to harvest?
 - Some pink rot may develop even with a good program.



27

Apply Post-Harvest Fungicides



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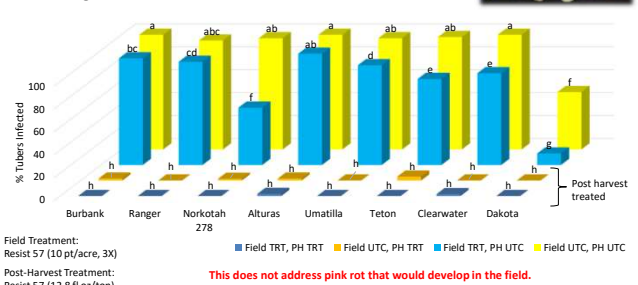
Apply Post-Harvest Fungicides

- Phosphorous acid:
 - 12.8 fl oz/ton tubers
 - Apply in 0.5 gal water/ton tubers

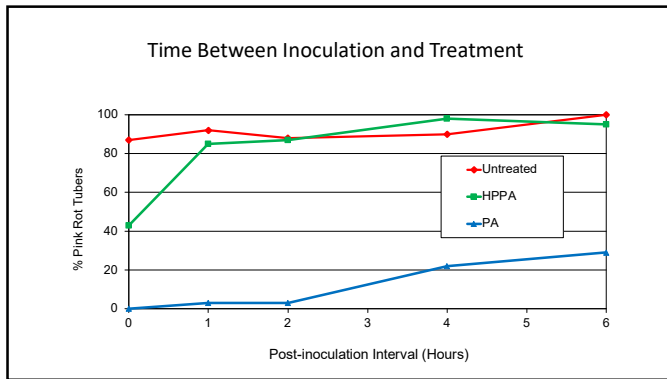


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Post-Harvest Pink Rot Challenge Inoculation




30



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Pink Rot Management

1. Field selection/crop rotation
2. Adjust soil pH by lime application in low pH soils
3. Plant less susceptible varieties
4. Proper irrigation management
 - Ensure 12 hours between phosphite application and irrigation
5. Use appropriate fungicides
 - Can start phosphite program at row closure
6. Avoid “disease-favorable” conditions at harvest
7. Apply post-harvest fungicides
8. Grade out infected tubers going into storage
9. Reduce tuber pulp temperatures to 55°F or lower



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Thank You!





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