

Interactive storage disease diagnosis workshop

## Jeff Miller and Nora Olsen



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\text { disease? }
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## \#5




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## \#14


\#15


## \#16



## \#17



## \#18





## PINK ROT TIMELAPSE






## \#2



## White Mold (Sclerotinia sclerotiorum)



White Mold



Pink eye or now called Periderm Disorder Syndrome



Clearwater Russet: Pink eye followed by dry rot

Silver Scurf

(Helminthosporium solani)

## \#5

## Late Blight (Phytophthora infestans)




## Powdery Scab vs. Common Scab







Day 1


Day 2


Day 4

## Cultivar and storage temperature on leak



Incidence of Pythium Leak Pulp at Early Storage Temperatures


## PINK ROT VERSUS LEAK



## Blackheart <br> (Physiological - low O2, high CO 2 )





Ranger Russet - black dot - "Bumpy Ranger Syndrome"


## \#10




Early Blight/Brown Spot (Alternaria species)






## \#13

## Bacterial Ring Rot

(Clavibacter sepedonicus)



Red variety -- BRR


Ranger Russet NOT BRR


Alturas- YES BRR

## Anthocyanin Development (Physiological)




Russet Norkotah - Zebra chip

Zebra chip


Russet Norkotah Zebra chip, PVY Nwi, PVS


Russet Burbank- steamed peeled Zebra chip


## \#17





Russet Norkotah - PVY NTN and NWi


Alturas --PVY NWi


Alturas --PVY NWi


Ranger Russet --PVY NTN

Hey, I found this today... What is it?


Looks like PVY. Get us a sample so we can submit it for verification and strain



Ranger Russet - Tobacco Rattle Virus (TRV)

Do some of the different viruses cause similar symptoms?

Can more than one virus be in a tuber at a time?



Clearwater Russet -- PMTV, PVY N-Wi, PVS and PVX


Russet Norkotah TRV
Clearwater Russet TRV, PVY NTN, PVS





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3. After a moment, a web link will appear on the phone screen, usually near the top.
