

# **Herbicide Injury in Potatoes**

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@spudology

**NDSU**

EXTENSION

# New Potato Herbicides

- Zidua (pyroxasulfone)
  - PRE
- League (imazosulfuron)
  - PRE and POST
  - Plant back restrictions

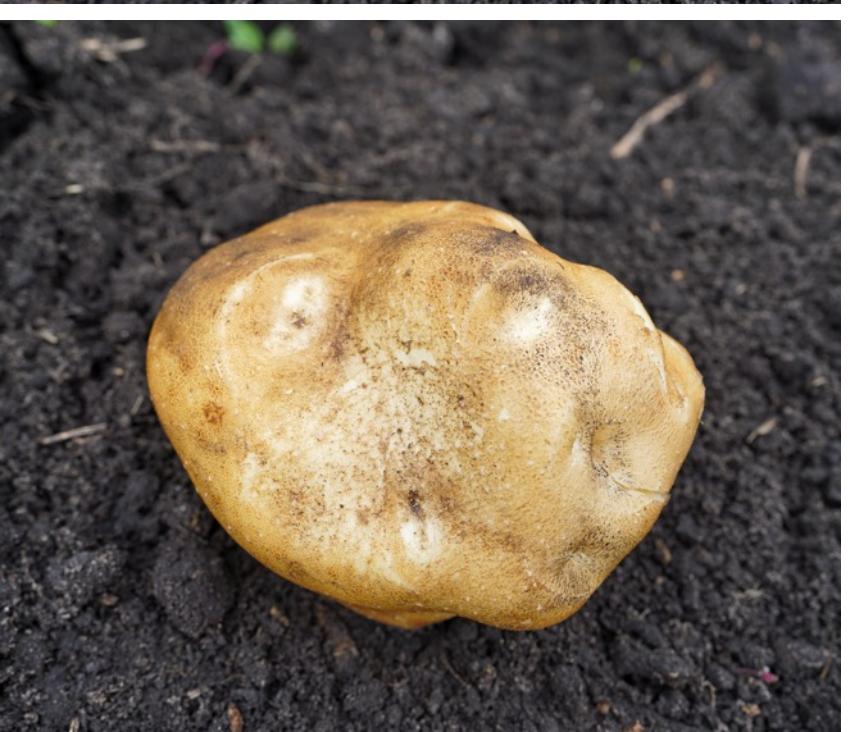


# Happy Potatoes



# Focus areas

1. Soil carryover
2. Foliar exposure
3. Seed contamination



A photograph of a vast agricultural field filled with lush, green potato plants. The plants are arranged in distinct, parallel rows that recede towards a dense line of tall, dark green trees at the horizon. The sky above is a clear, pale blue.

Soil carryover





Imazapyr

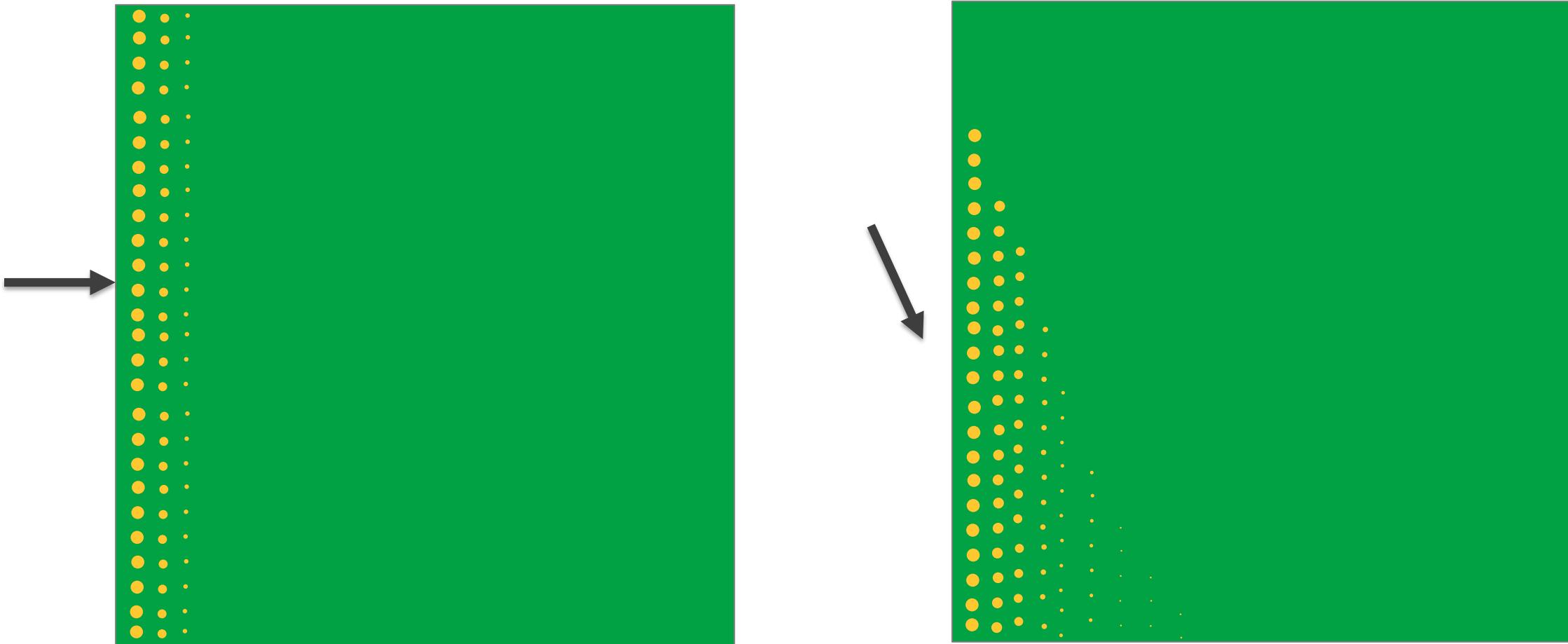


Imazapyr

A close-up photograph of a dense field of potato plants. The plants have large, dark green leaves with prominent veins and some smaller, lighter green leaves. The stems are thick and green. The plants are growing closely together, filling the frame.

# Plant exposure

# Physical drift





Tank contamination



# Glyphosate



# Picloram



Dicamba



Imazamox



Rimsulfuron



Metribuzin



Linuron



Seed contamination



Dicamba seed contamination



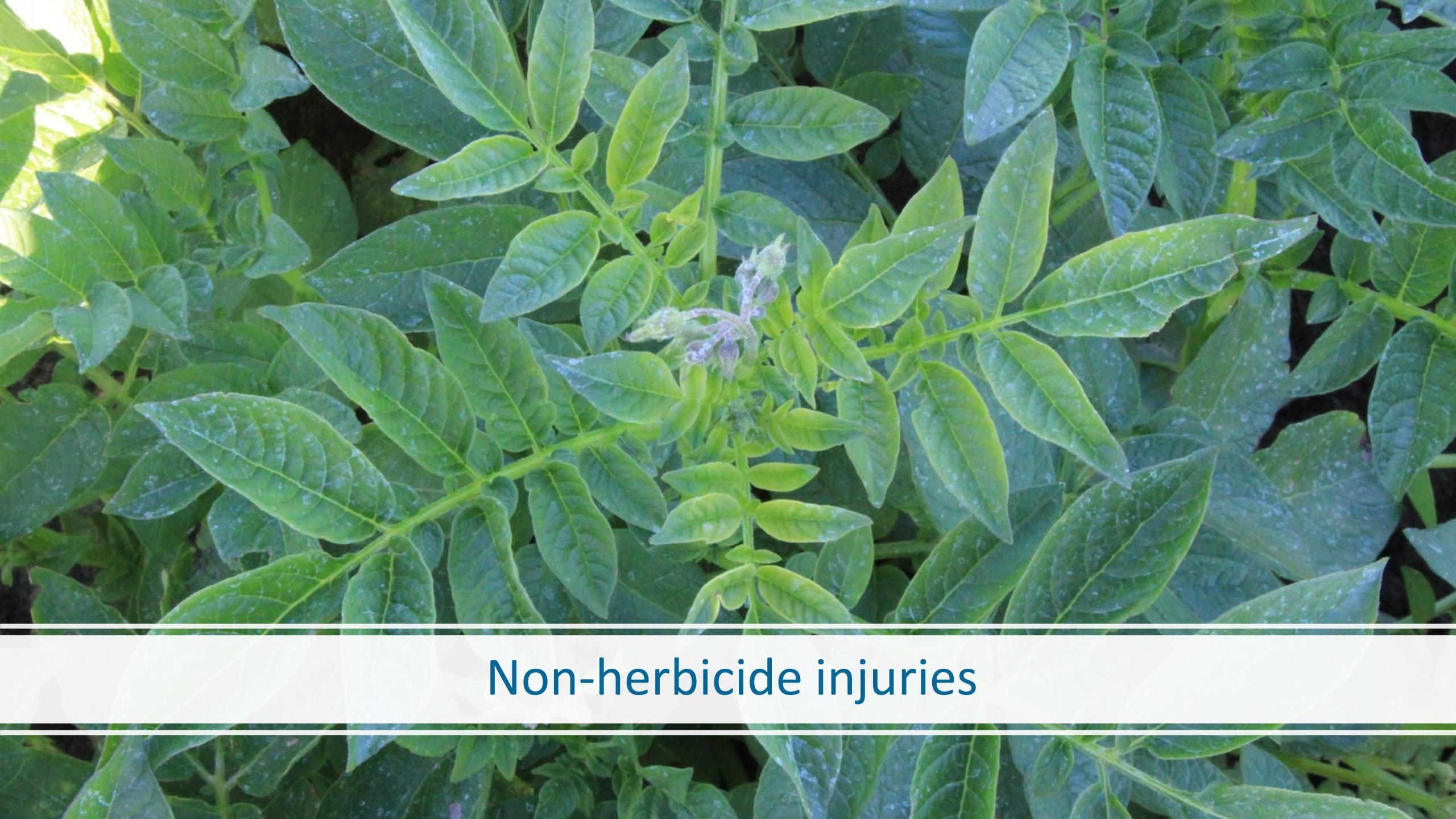
Dicamba seed contamination



Glyphosate seed contamination



# Glyphosate seed contamination



## Non-herbicide injuries



Fertility stress



**PVY**



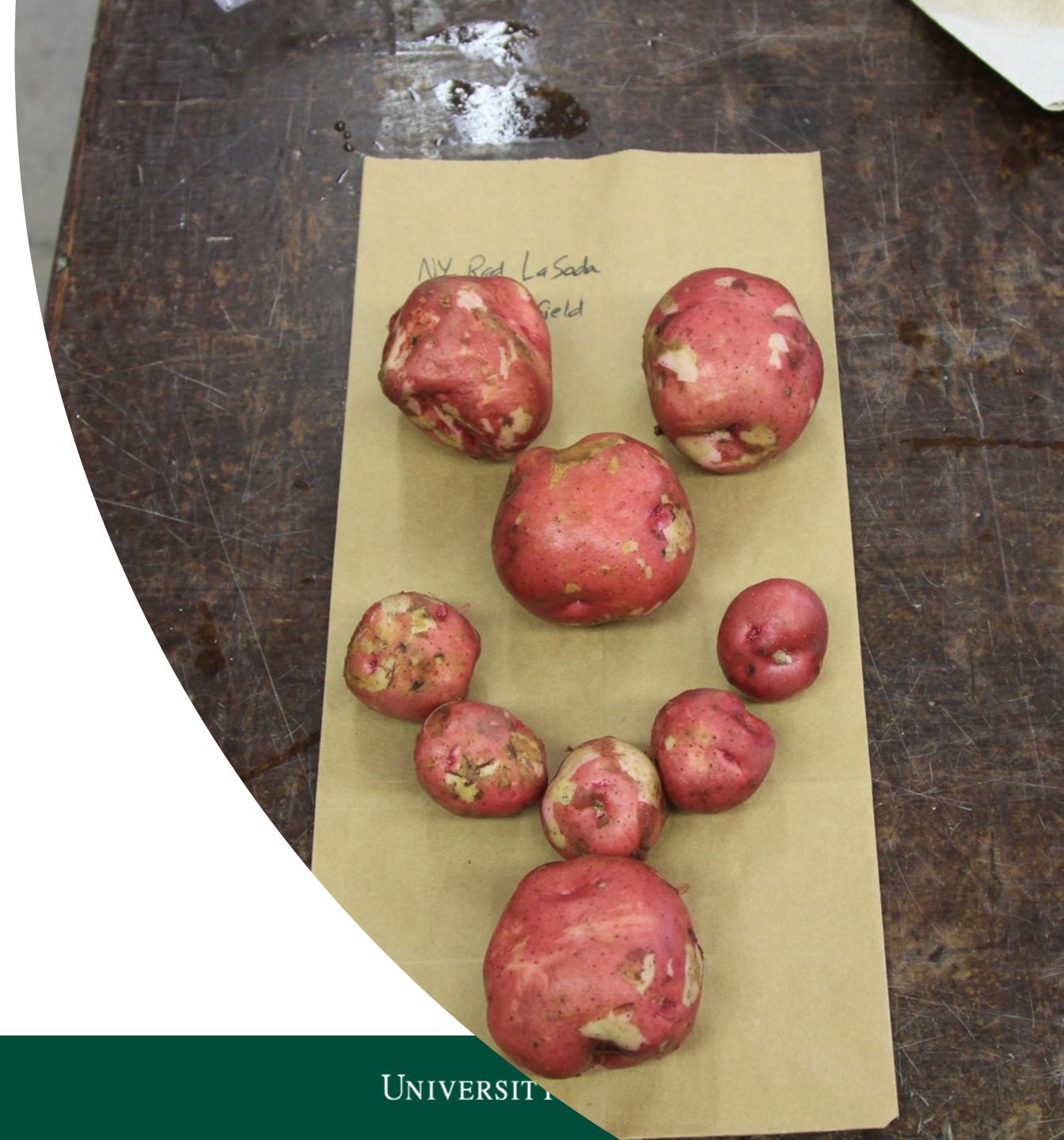
# Tuber Cracking



Heat crinkle

# Testing

- Clean gloves/bag
- Representative sample
- Wash tubers
- Take pictures
- Ship overnight



# Herbicide Injury on Potatoes

Amino Acid Synthesis Inhibitors 2, 9					Growth Regulators 4				Cell Membrane Disruptors 14							
Halosulfuron	Imazamox	Imazapyr	Flumetsulam	Glyphosate	Picloram	Dicamba	2, 4-D	Clopyralid	Saflufenacil	Flumioxazin	Fomesafen	Fomesafen				
																
																
																

Photo System II Inhibitors 5, 6, 7			Long Chain Fatty Acid Inhibitor 15		Pigment Inhibitors 13, 27		Nitrogen Metabolism 10	
Bromoxynil	Linuron	Metribuzin	Sonalan	Metolachlor	Clomazone	Mesotrione	Glufosinate	
								

**Thank you!**  
Get some weeds!

