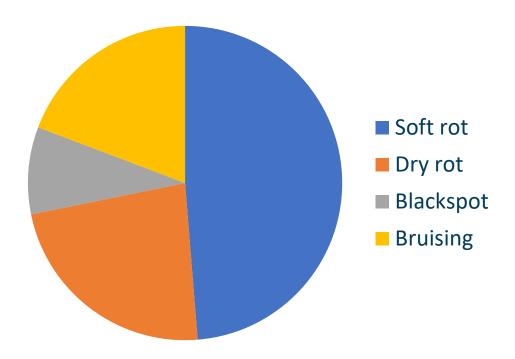
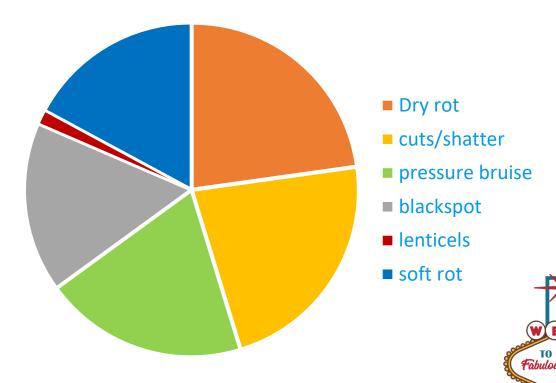
What issues are we dealing with at delivery?

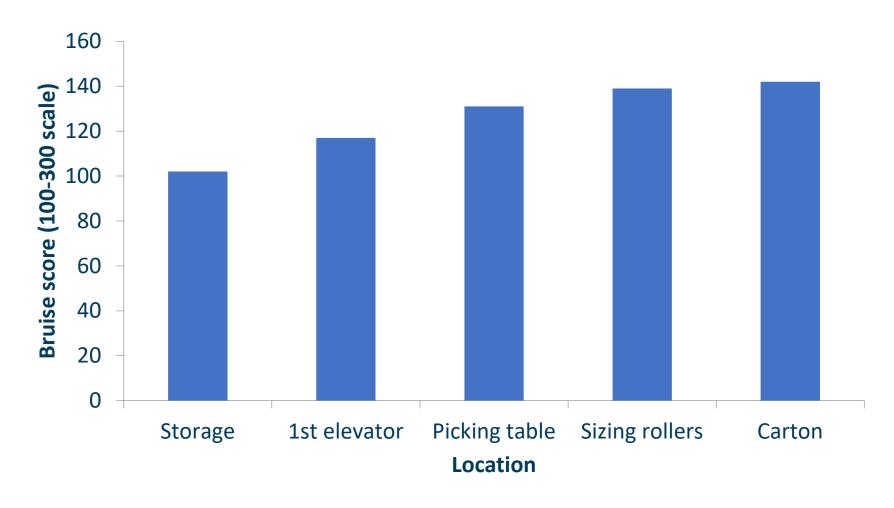
Incidence in shipments to NY between 1972 - 1980



Incidence in shipments in US between 2017 - 2019



Cold chain management starts at the packing operation





Quality of potatoes- blackspot, shatter and dry rot

South Carolina

New York

	Blackspot bruise (%)	Shatter (%)	Dry rot (%)
Packing	58	74	7
Distribution	81	84	36
Center			

	Blackspot bruise (%)	Shatter (%)	Dry rot (%)
Packing	29	52	19
Distribution	84	71	29
Center			





~2 X more potatoes with blackspot bruise Add 2 blackspot bruises per potato from hauling/packing Add ½ to 1 shatter bruise from hauling/packing

Scorable defects same at packing and DC (~4%)









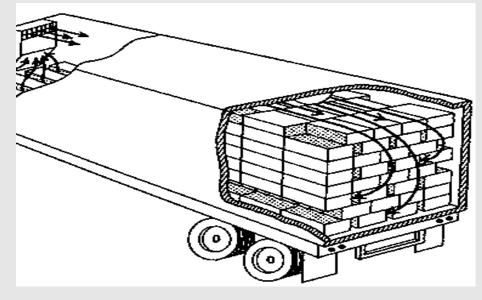






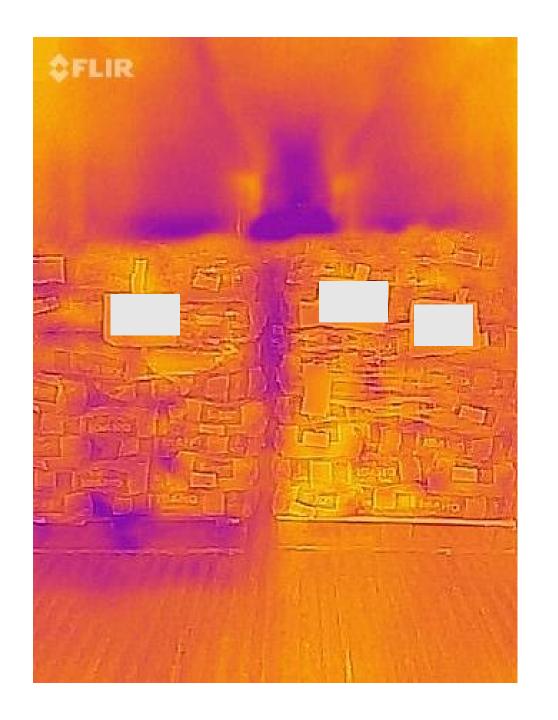
www.uidaho.edu/potatoes





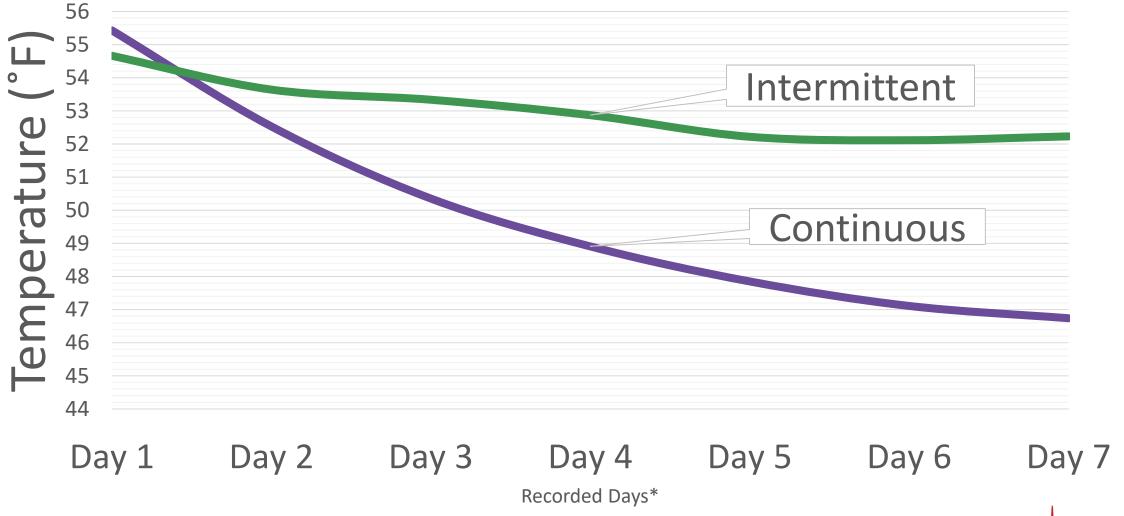




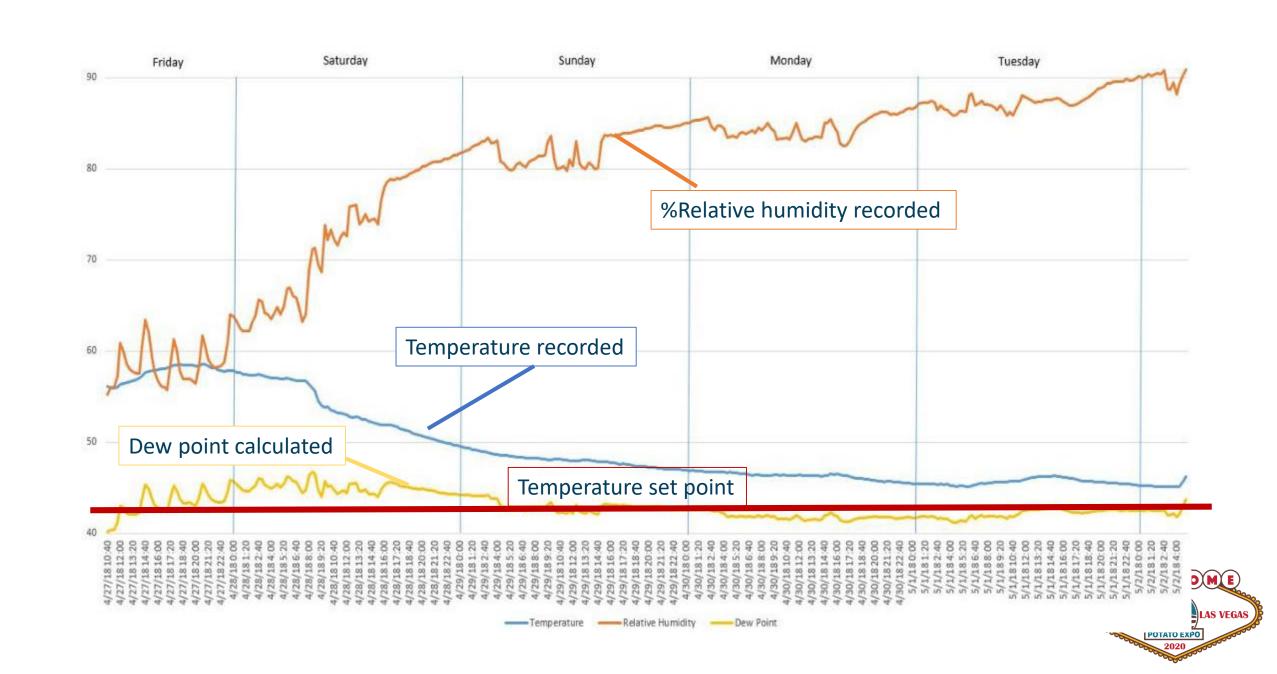




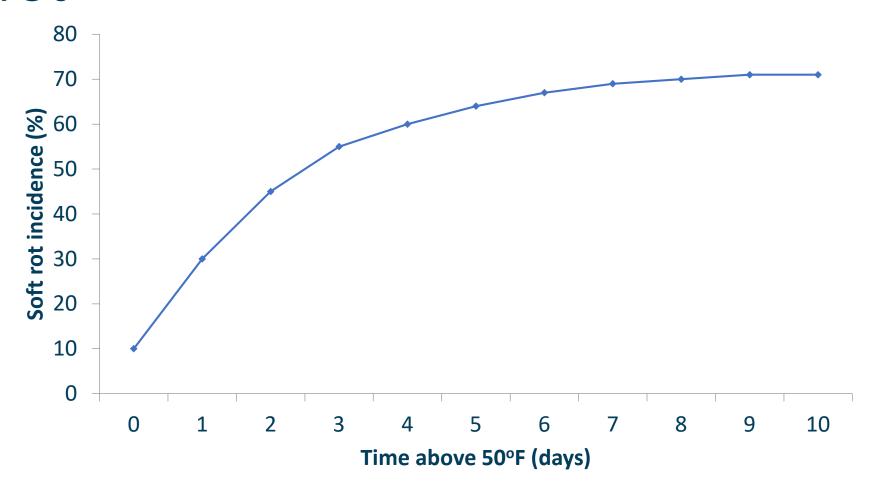
Average Pallet Temperatures for 2 shipments



WELCOME
TO
LAS VEGAS
POTATO EXPO
2020



Relationship between pulp temperature and soft rot





Source: Shetty et al., 1998

Packaging and truck conditions



Poly or Paper Bale

Solid or Mesh Wrap



Quality of potatoes – pressure bruise cutting black

South Carolina

New York

		INCW IC	TOTK	
	Pre		Pressure Bruise Cutting Black (%)	
Poly in poly			19	
Poly in paper			26	
Mesh wrap	<u> </u>		24	
Solid wrap			20	
Front of truck			11 (50 F)	
Middle			23 (52 F)	
Back			33 (48 F)	

- 3 x more pressure bruise cutting black at DC compared to packing
- Placement in truck and setting greater factor than packaging
- Cutting black similar to packing when stored instead of shipped



Packing shed

Go-no-go

- In quality control, 'go' denotes that a product conforms to the specifications; when it does not, it is 'no go.'
- Each shed needs own quality risk assessment
 - Incorporate transit duration and DC location
 - Type of quality concerns

