

Tyler Williams Nebraska Extension Educator

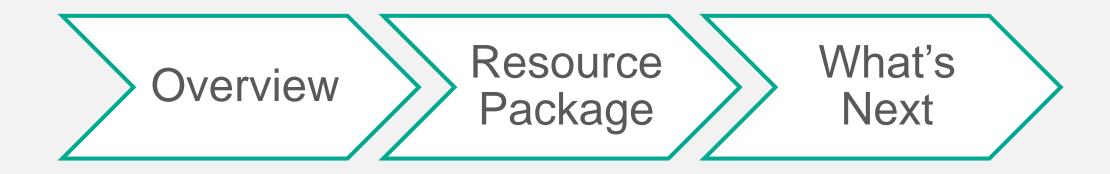
> cropwatch.unl.edu/hailknow @HailKnowUNL



Corn Expo January 3rd, 2019



Hail Know: A New Resource Package





Overview



Meet the Team





Meet the Team



June 2014 hail event was the catalyst for this project

Challenge: Nebraska Extension has hail information, but it's located in many places

Opportunity: Repackage the information to make it appealing, accessible, and shareable

USDA NIFA funded the project for \$41,000 from September 2015 to August 2018





United States Department of Agriculture National Institute of Food and Agriculture



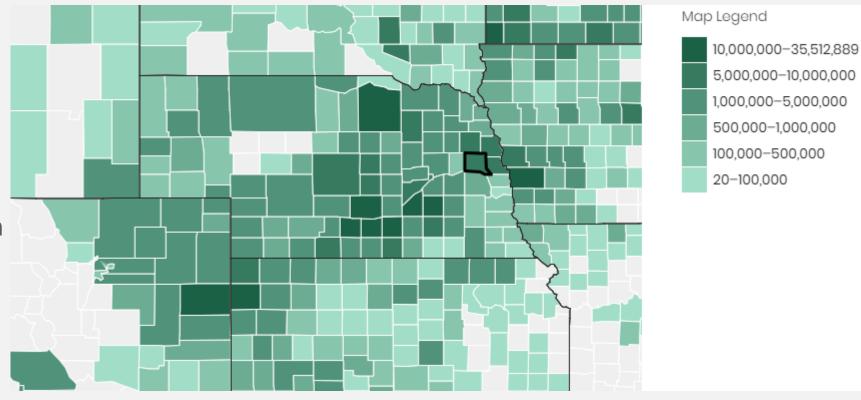
Nebraska has one hail of a problem...

2014	2015	2016	2017	2018	
 624	 458	 376	 420	 309	
events #1	events #3	events #3	events #3	events #4	
rank	rank	rank	rank	rank	

NOAA National Storm Prediction Center, 2018

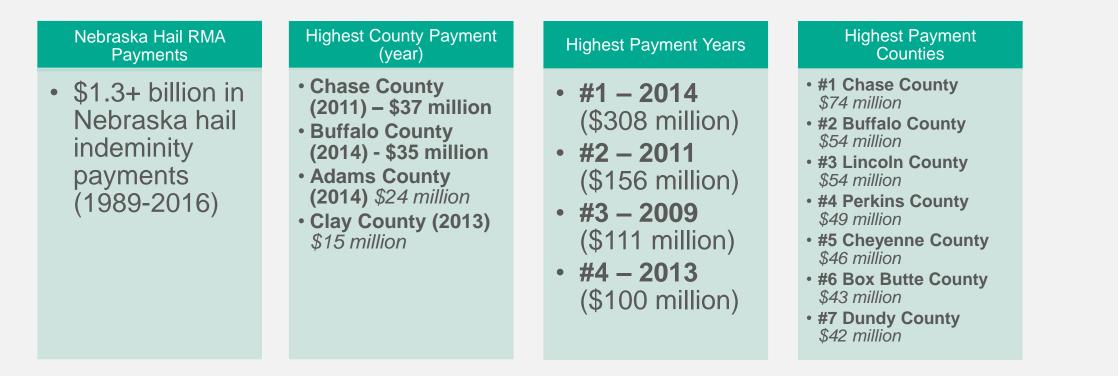


- 2014 Hail Indemnity Payments:
 - Dodge County: \$7.9 million
 - Washington County: \$5.6
 million
 - Cuming County: \$9.5 million
 - Burt County: \$8.9 million
- USDA Southwest Climate Hub AgRisk Viewer USDA Risk Management Agency



Nebraska hail loss payments.....

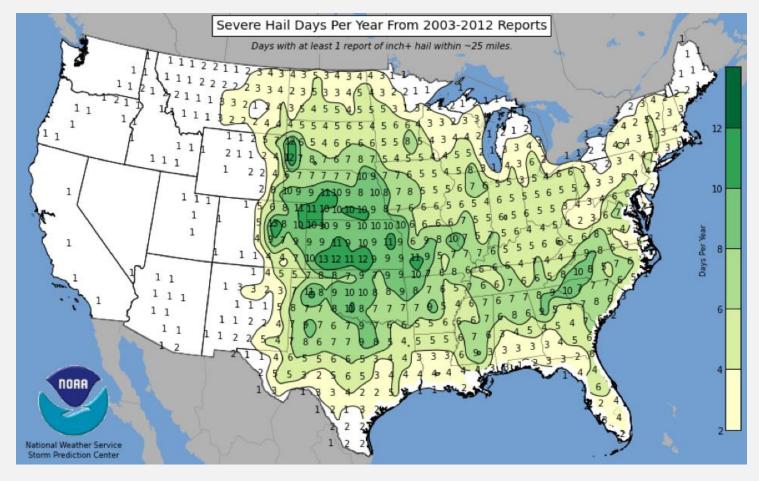
XTENSIO



USDA Southwest Climate Hub – AgRisk Viewer USDA Risk Management Agency

- June is most active month (Sept. avg. 25 reports from 2010-18)
- ~34% of reports are dime (3/4") size
- <10% are 2" or greater
- Future: Fewer hail days expected, but 40% increase in damage due to larger hail in spring by mid-century

- 4th National Climate Assessment



• 1920 Journal – Hailstorms in Nebraska

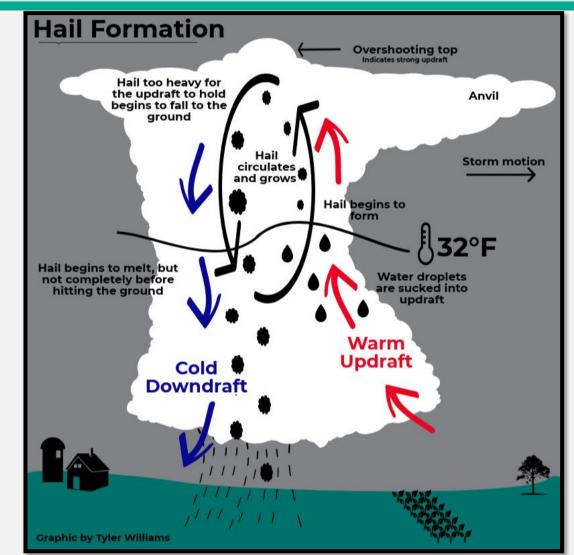
A hailstone "71 inches in circumference" was reported at Hebron April 18, 1893, and one "71 inches in circumference" at Nebraska City on September 5, 1898. Average number of hailstorms each month.

Stations.	April.	Мау.	June.	July.	August.	Sep- tem- ber.	Sea- sonal.
Allower Older Town		1.0			•		
Sioux City, Iowa		1.0	0.6	0.2	0.1	0.3 0.4	2.7
Omaha	0.8	1.1	0.5	0.2	0.1	0.3	3.1
Lincoln	0.8	0.7	0.5	0.4	0.4	0.3	3.1
York.	0.8	1.1	0.6	0.2	0.2	0.2	8.1
Marquette	0.4	0.5	0.7	0.5	0.4	0.2	2.7
Genoa	0.4	0.8	0.5	0.4	0.2	0.1	2.5
Oakdale	0.4	0.9	1.2	0.4	0.3	0.4	3.6
Valentine	0.3	0.8	0.6	0.5	0.5	0.0	2.7
North Platte	0.4	0.8	0.5	0.6	0.5	0.1	2.9
Imperial	0.5	1.5	0.5	0.7	0.5	0.1	3.8
Kimball		0.7	1.9	0.9	0.8	0.2	4.6
Cheyenne, Wyo	0.5	1.5	2.6	1.3	1.2	0.9	8.0
Means	0.5	0.9	0.7	0.5	0.4	0.2	• 3.2



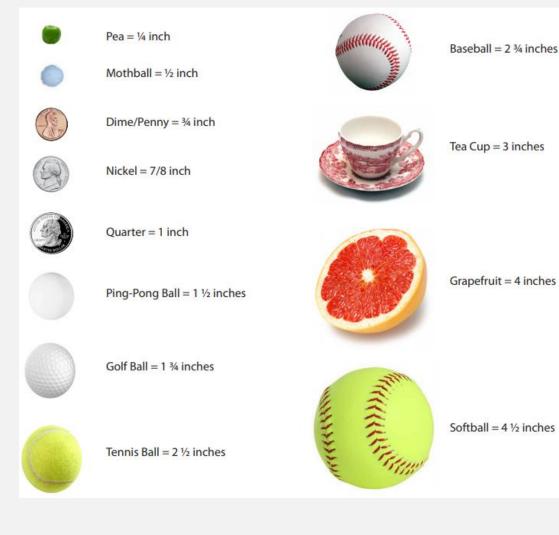
- Great Plains
- Highly variable
- Winds enhance damage
- 1-2" fall at 80 mph





 Largest stone: 7"diameter (18.75" circumference) in Aurora (2003)

EXTENSION



Hail Know addresses six topic areas



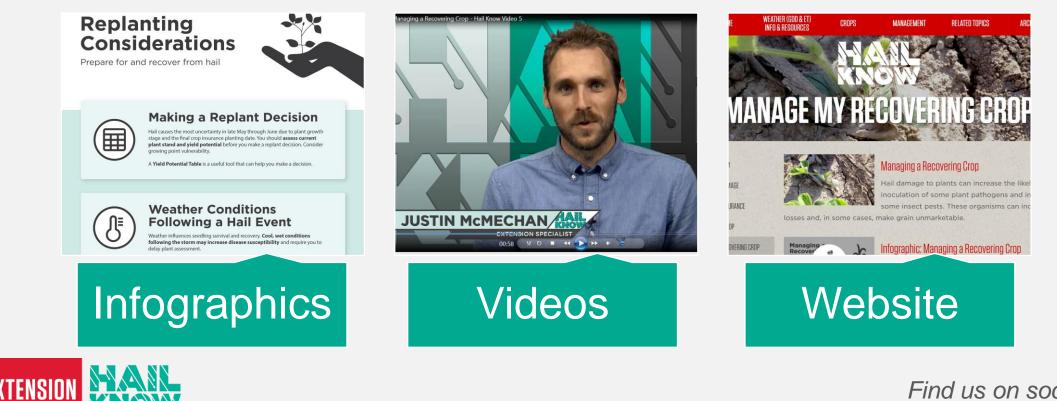


Resource Package



Hail Know Resource Package

- This is a three-part project
- Each part is designed for different learning styles



Resource Package: Infographics

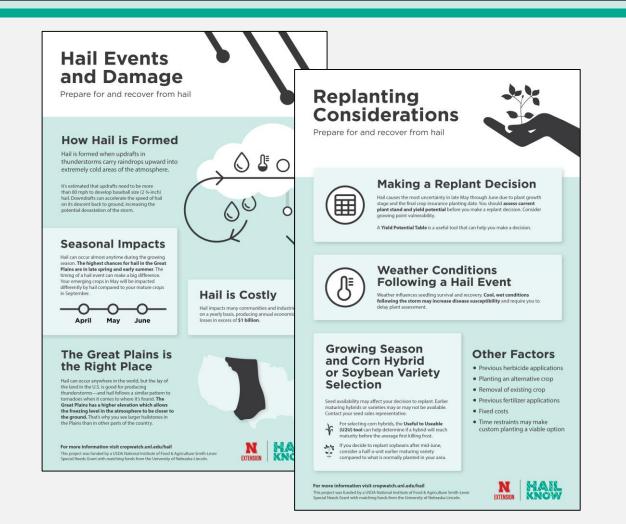
Infographic: a visual image to represent information or data that appeals to visual and verbal learners

Appealing and ready to share

Easy to read and understand

One infographic for each topic

EXTENSION



Resource Package: Videos

Video: a recording of images that appeals to visual and auditory learners

Each video is 3-4 minutes in length

Contain expert interviews and relevant footage

One or more videos for each topic





Resource Package: Website

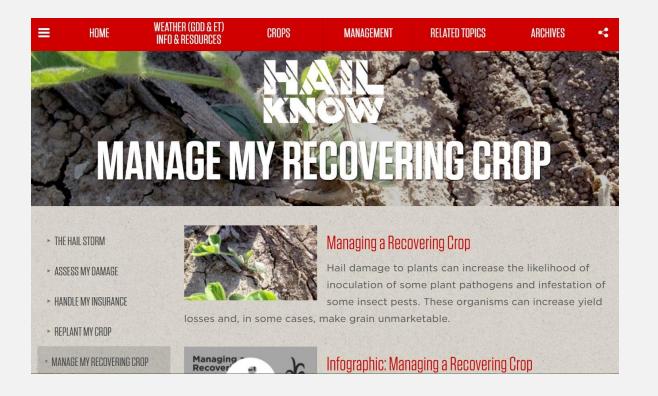
Website: a sister website to CropWatch that appeals to many learning styles

Connects content, infographics, and videos

Incorporates timeless information

One page for each topic

cropwatch.unl.edu/hailknow

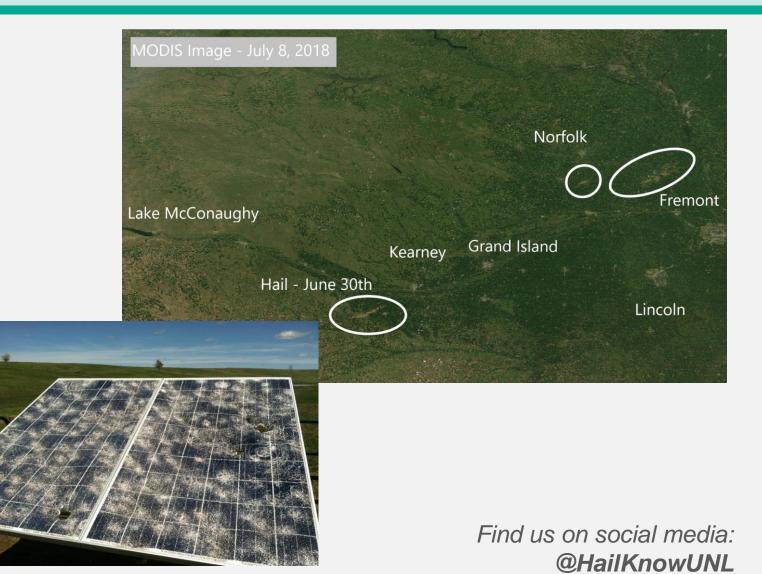


Resource Package: *In-Season Response

Meetings: Held three meetings in hard hit areas of Nebraska in 2018

Articles: Wrote articles on recovery options, forage considerations, weed management, etc.

Videos: Added four new lateseason hail videos in August 2018



Feedback



Gathering Feedback

We want our resource package to be useful and valuable

Your feedback will allow us to refine the package *and* develop new resources for you

cropwatch.unl.edu/hailknow







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