

Midwest Disasters: What You Can Do

May 30, 2019



Center for Disaster Philanthropy

The when, where and how of informed disaster giving

Moderator

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Regine A. Webster

Vice President

Center for Disaster Philanthropy

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- Use **#CDP4Recovery** to tweet along during the webinar
- Submit questions using Q & A box at the bottom of your screen.
- Look for webinar recording and summary at disasterphilanthropy.org

Midwest Disasters

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- There have been 500 tornadoes in a 30-day period.
- Rivers are extremely high and several have flooded or are currently flooding.
- This spring has been a season of record-breaking floods across the Midwest.



Speakers

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Dennis Todey

Director, Midwest Climate Hub
USDA-ARS NLAE Ames, IA



John Pyron

Director of Disaster
Services,
*Lutheran Social Services of
Central Ohio*



Nancy Beers

Director, Midwest
Early Recovery Fund,
*Center for Disaster
Philanthropy*



Phil Lakin, Jr.

Chief Executive Officer,
Tulsa Community Foundation

USDA Midwest Climate Hub

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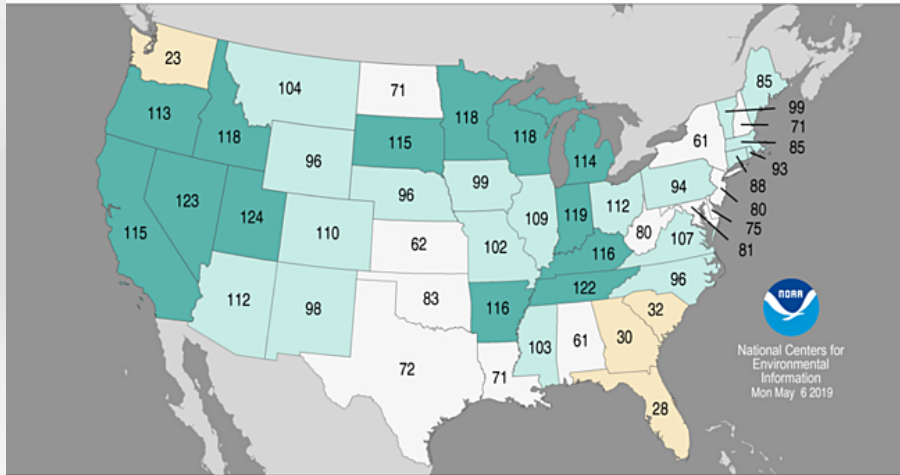


Dennis Todey

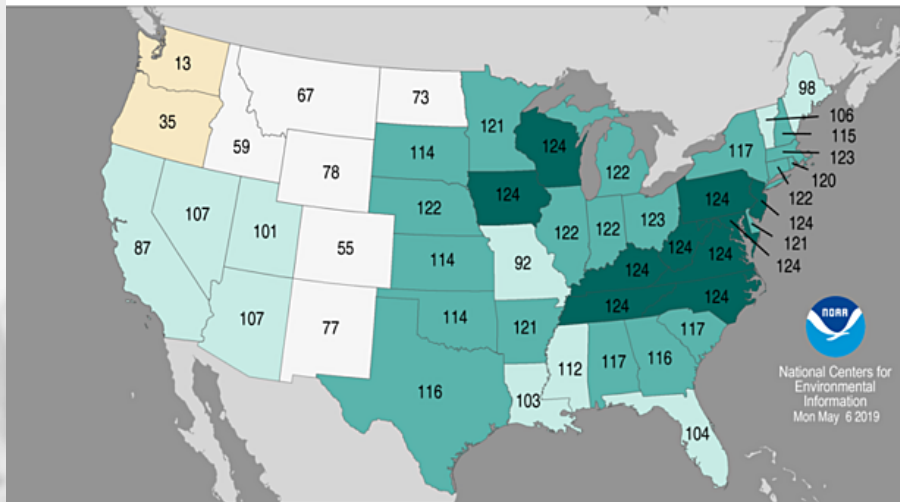
Director, Midwest Climate Hub

USDA-ARS NLAE Ames, IA

Statewide Precipitation Ranks
February–April 2019
Period: 1895–2019

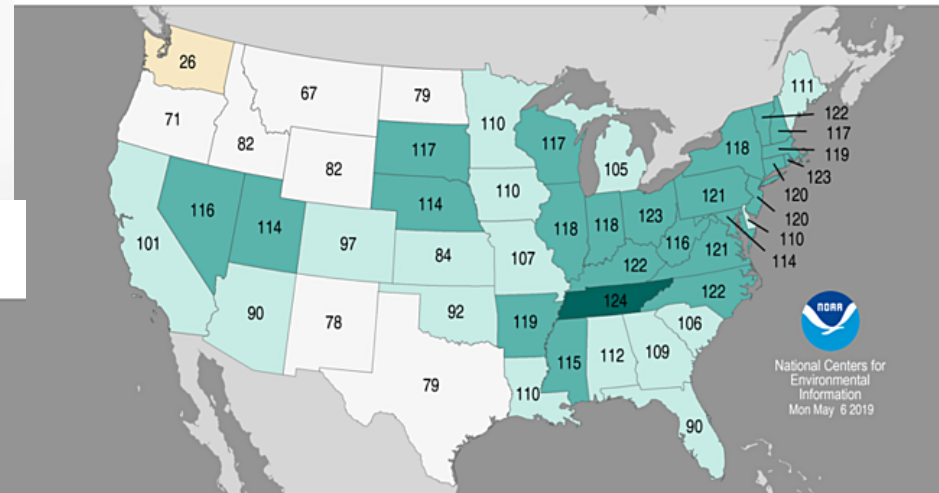


Statewide Precipitation Ranks
May 2018–April 2019
Period: 1895–2019



Precipitation rankings 3, 6, 12 month

Statewide Precipitation Ranks
November 2018–April 2019
Period: 1895–2019



Wet all time scales in region
Moderate in MO and wrn plains

7-Day Average Streamflow

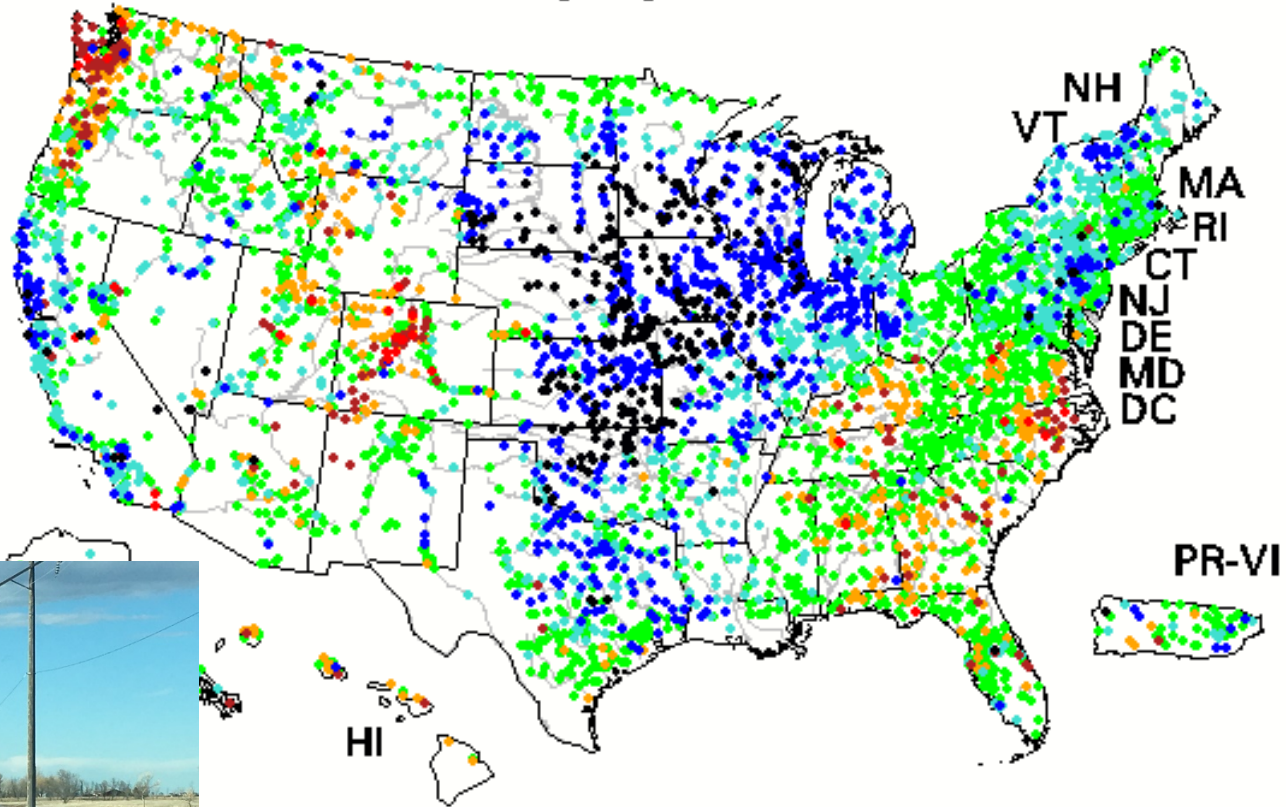
Wednesday, May 29, 2019

Thursday, 30 May 2019

- Widespread wet
- Record flows

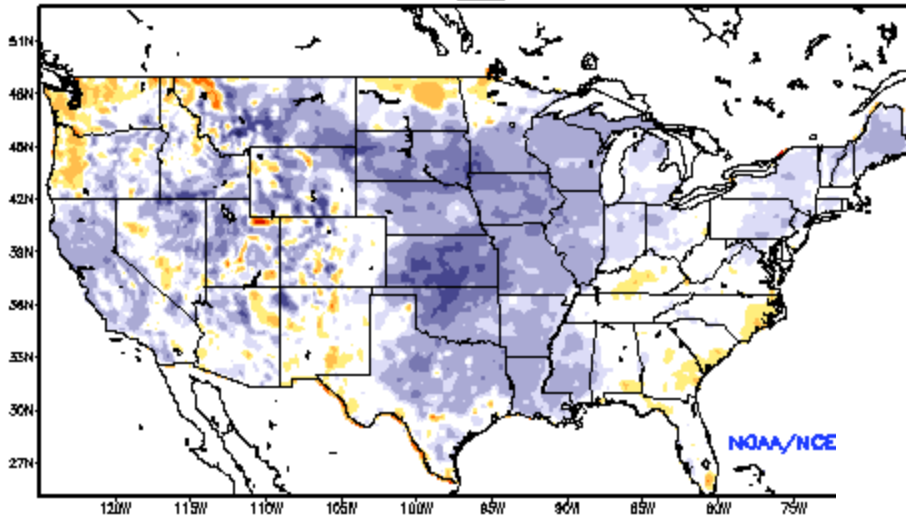
SD Flooding

Photo: Laura Edwards
SD Climatologist

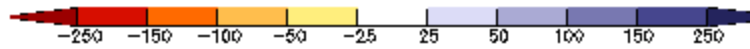


Explanation - Percentile classes						
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High

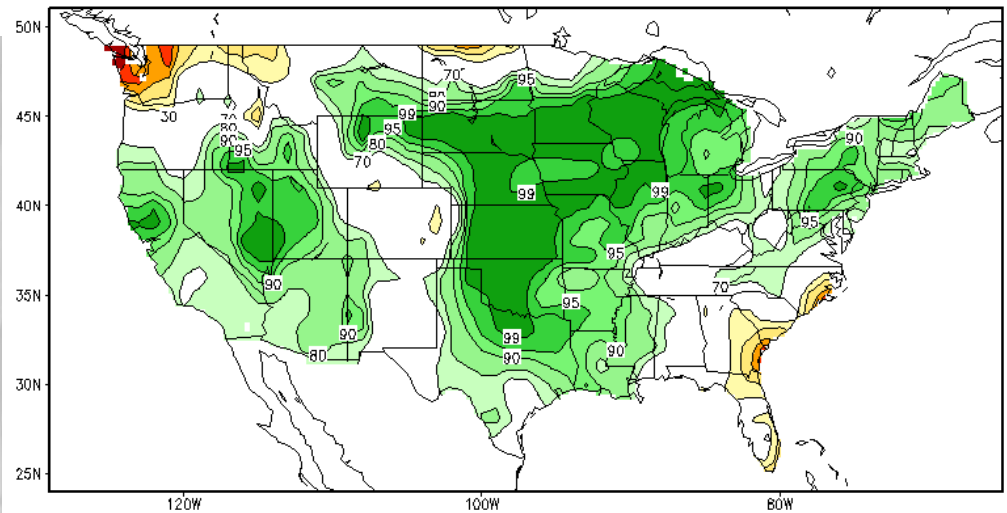
Ensemble-Mean - Current Total Column Soil Moisture Anomaly (mm)
NCEP NLDAS Products Valid: MAY 25, 2019



Soil Moisture



Calculated Soil Moisture Ranking Percentile
MAY 29, 2019



<http://www.emc.ncep.noaa.gov/mm/b/nldas/drought/>

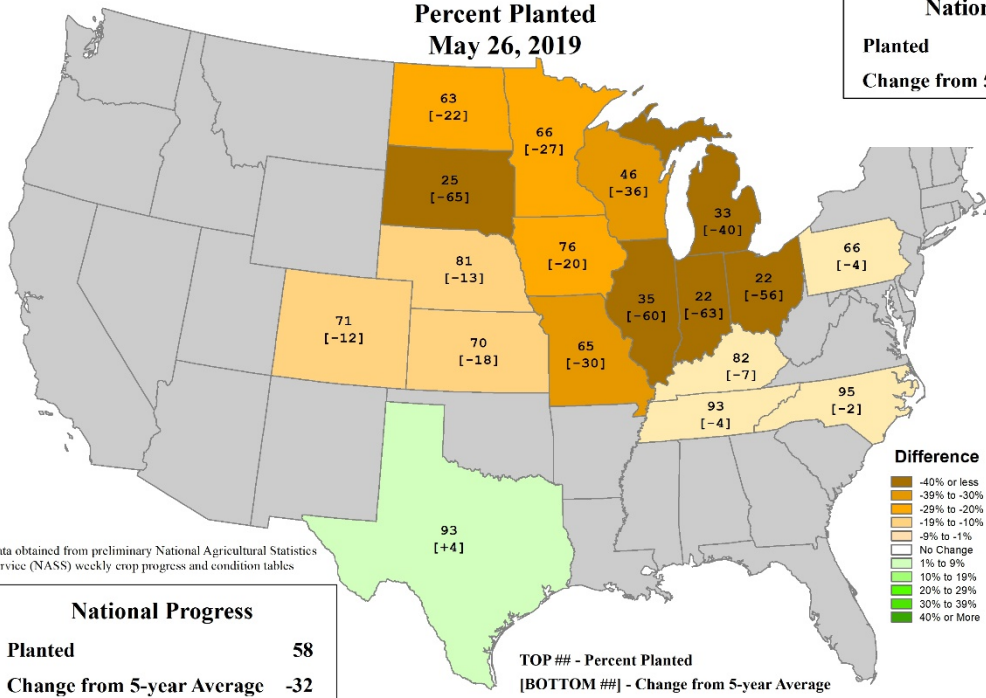
https://www.cpc.ncep.noaa.gov/products/S/mst_Monitoring/US/Soilmst/Soilmst.shtml

USDA - NASS

Planting Progress

U.S. Corn Progress

Percent Planted
May 26, 2019



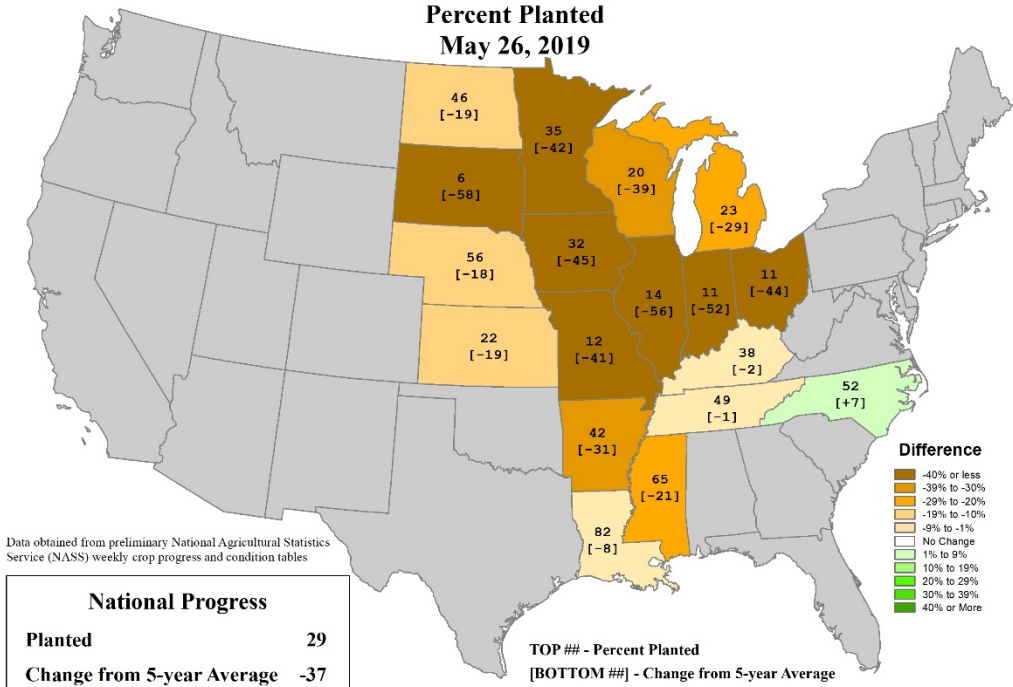
Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Progress	
Planted	58
Change from 5-year Average	-32

TOP ## - Percent Planted
[BOTTOM ##] - Change from 5-year Average

U.S. Soybeans Progress

Percent Planted
May 26, 2019



Data obtained from preliminary National Agricultural Statistics Service (NASS) weekly crop progress and condition tables

National Progress	
Planted	29
Change from 5-year Average	-37

TOP ## - Percent Planted
[BOTTOM ##] - Change from 5-year Average

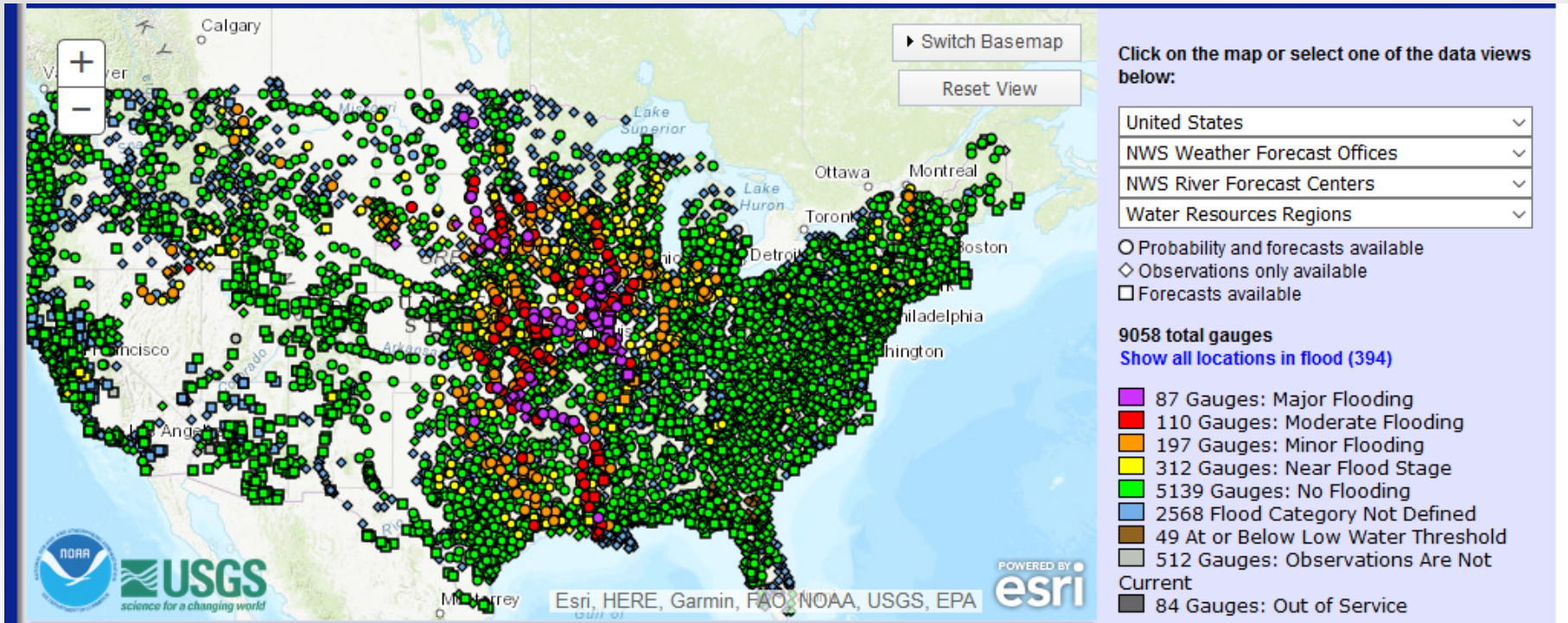
- Difference**
- Dark Brown: -40% or less
 - Brown: -39% to -30%
 - Orange-Brown: -29% to -20%
 - Orange: -19% to -10%
 - Light Orange: -9% to -1%
 - White: No Change
 - Light Green: 1% to 9%
 - Green: 10% to 19%
 - Dark Green: 20% to 29%
 - Very Dark Green: 30% to 39%
 - Black: 40% or More

Slowest corn planting on record
2nd slowest soybeans

Widespread wetness keeping
from progress

Getting late to plant and be able
to expect a decent crop
(possible prevent plant)

River Flooding



- Major flooding on many rivers (including major rivers) across the middle US)
- Flooding occurring since March (various storms and snowmelt)
- Set several all time record flows/length of time at major flood stage

Impact Issues

- Many ag acres will not be planted this year due to:
 - Excess wetness (prevent plant)
 - Trash/sand coverage
 - Field access by road
- Will require additional work to maintain soils

Lake Andes, SD

Steven Stluka, via NWS
Sioux Falls



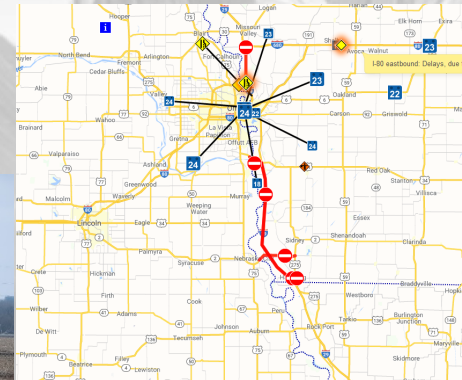
Mental health
issues ongoing due
to several
weather/climate
events and larger
issues

Impact Issues

- Road damage (numerous minor – some major I-29 may not open until June)
- Railroad lines still not reopened
- Road repair budgets/materials being stretched
 - Pavement
 - Gravel
- Damaged levee systems – Missouri R.

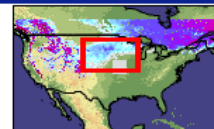
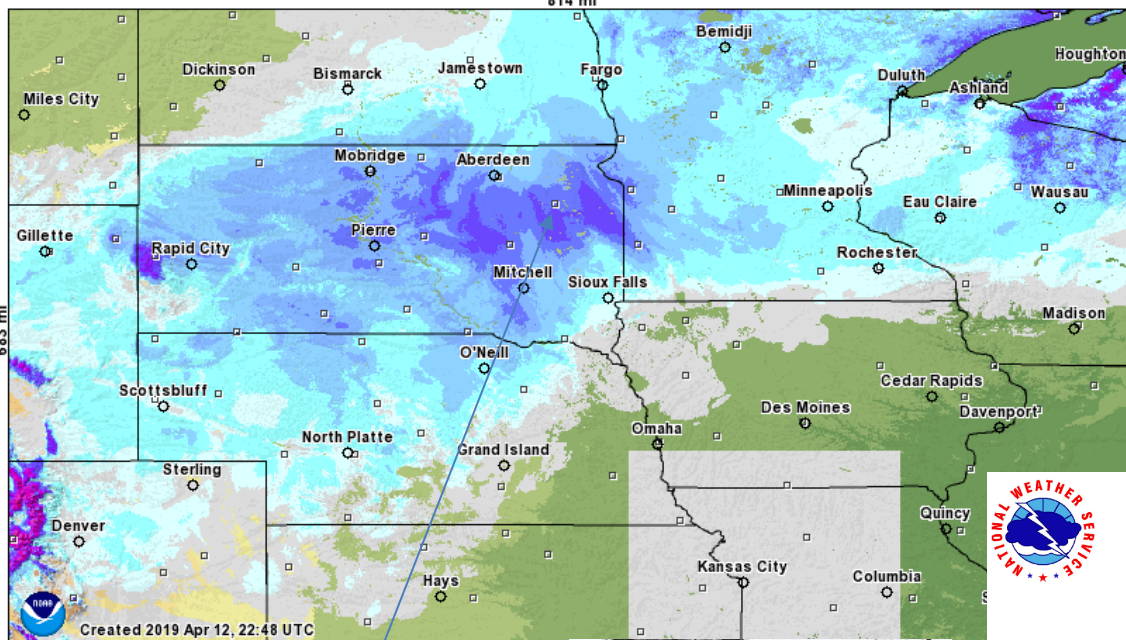
Road near West Point, NE

Al Dutcher, UNL Extension
Climate

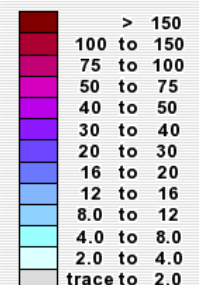


April 9-12 Blizzard

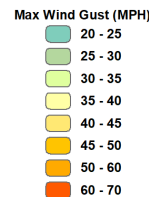
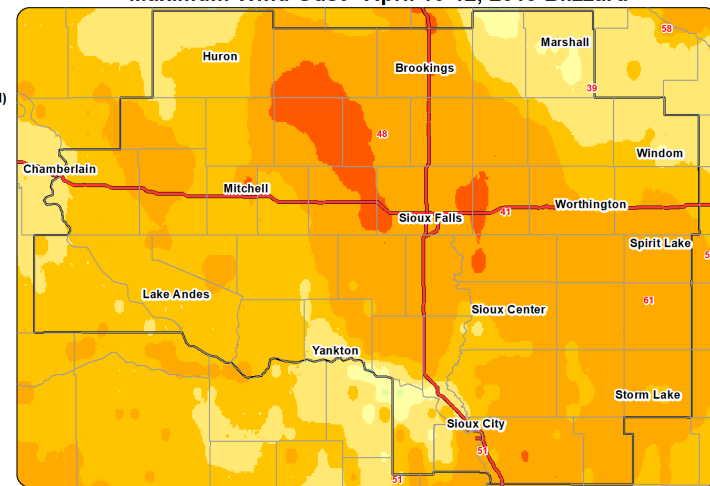
Modeled Snow Depth for 2019 April 12, 12:00 UTC



Inches of depth



National Weather Service
Sioux Falls South Dakota
Maximum Wind Gust - April 10-12, 2019 Blizzard



20-30" amounts

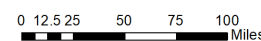
Clark, SD

Rae Jean Flora, via NWS
Sioux Falls



This map is an interpolation of actual reported values, but should be considered an estimation only. Not all reports used in the analysis will be displayed due to space constraints. Reports are max wind gust through the above mentioned period.

Data Sources: NWS COOP ASOS/AWOS Mesonet CoCoRaHS Miscellaneous



April 9-12 Issues

- Livestock losses (numbers still being accumulated)
- Additional flooding (snowmelt)
- Transportation
- Infrastructure
 - Power lines
 - Trees

Fostoria, IA

Jewlie Secord, via NWS
Sioux Falls



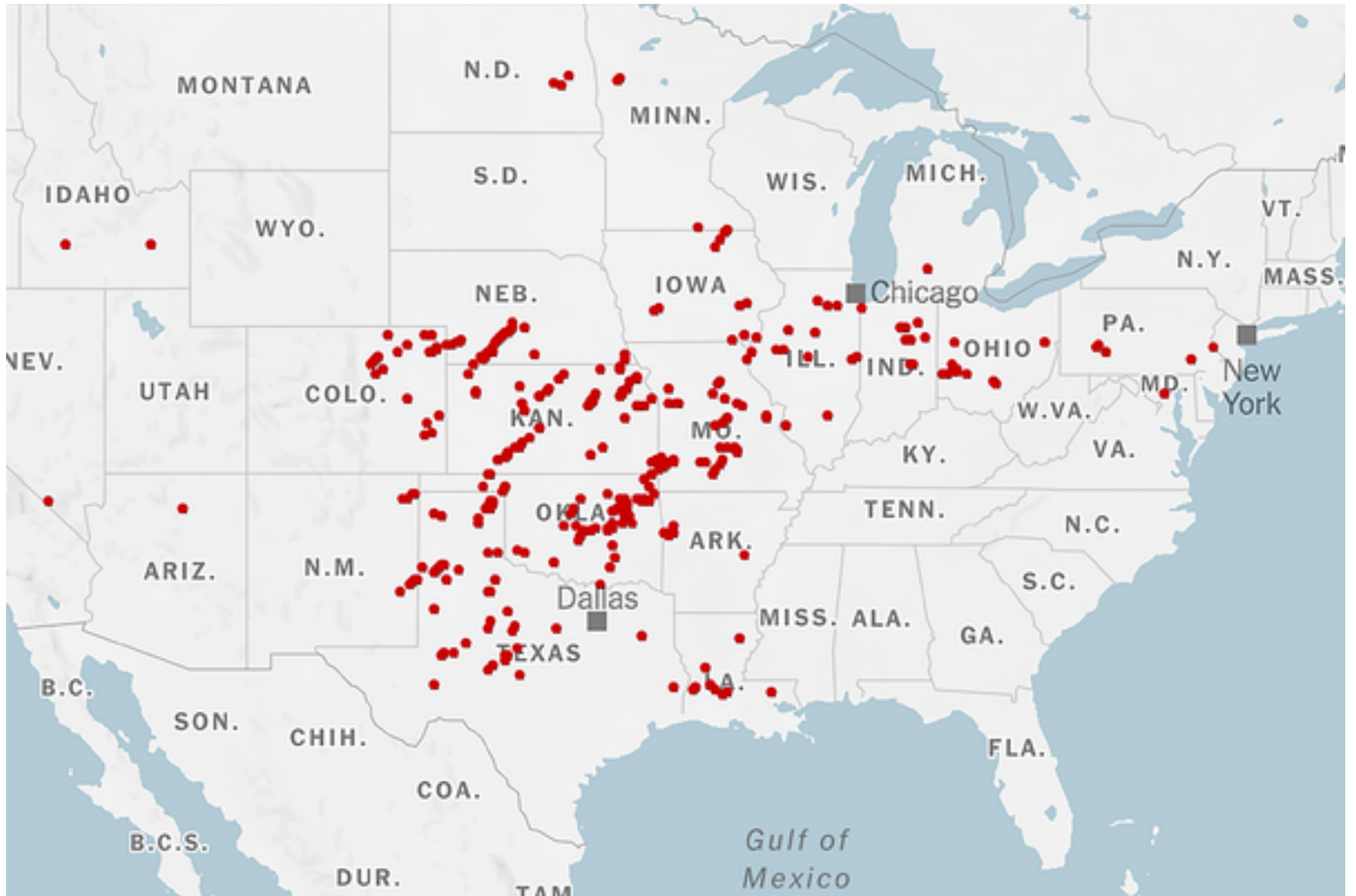
Midwest Early Recovery Fund

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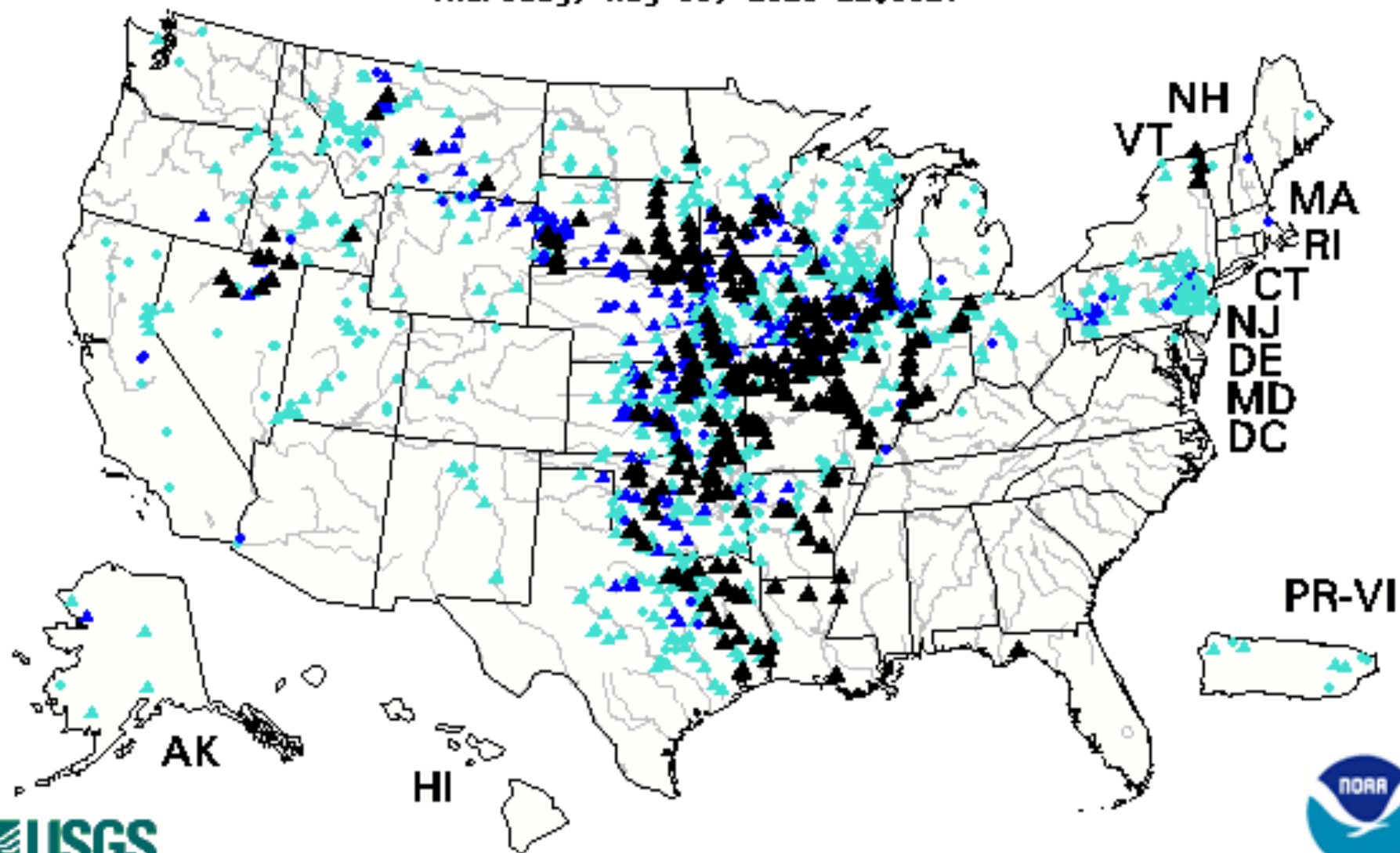


Nancy Beers

Director, Midwest Early Recovery Fund
Center for Disaster Philanthropy



Thursday, May 30, 2019 12:30ET



Lutheran Social Services of Central Ohio

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John Pyron

Director of Disaster Services,
Lutheran Social Services of Central Ohio

Tulsa Community Foundation

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Phil Lakin, Jr.
Chief Executive Officer,
Tulsa Community Foundation

Q & A

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- Submit questions using the Q & A box at the bottom of your screen.
- Use **#CDP4Recovery** to tweet insights.



CDP 2019 Midwest Disaster Recovery Fund

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- The Center for Disaster Philanthropy launched the 2019 Midwest Disaster Recovery Fund in response to the needs that will arise following the flooding and tornadoes throughout the Midwest.
- Dollars will be ready to be invested shortly, to ensure recovery begins in a timely manner. For more, visit www.disasterphilanthropy.org.



DISASTER PHILANTHROPY **PLAYBOOK**

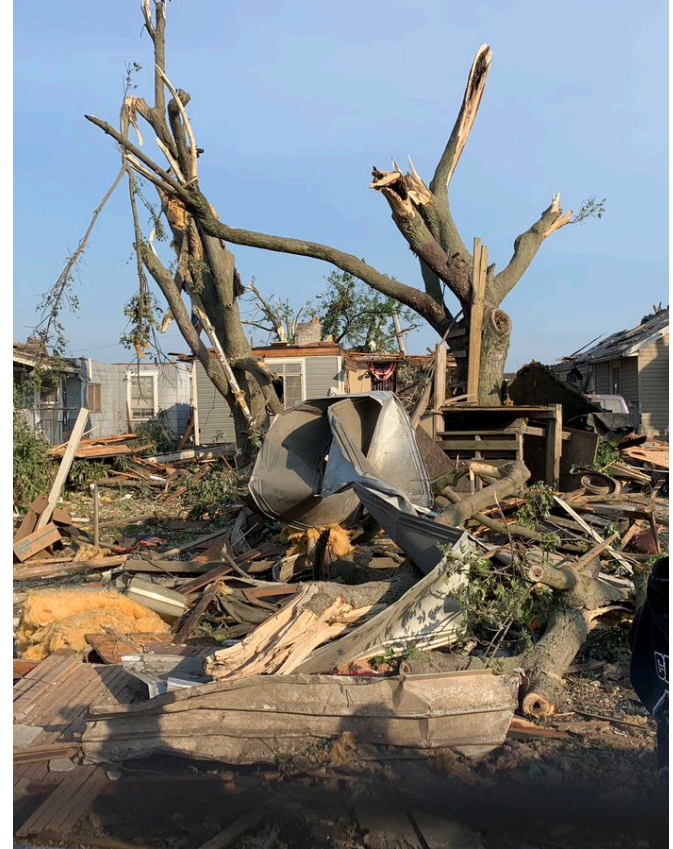
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- The Disaster Playbook has a number of toolkits and resources to guide the philanthropic community in responding to future disasters.
- Learn more at www.disasterplaybook.org

Key Takeaways

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- Take the long view
- Recognize there are places private philanthropy can help that government agencies might not
- All funders are disaster philanthropists
- Ask the experts
- Learn more:
<http://disasterphilanthropy.org/resources-2/basic-tips-for-disaster-giving/>



Questions?

Mission: Transform the field of disaster philanthropy to increase donor effectiveness throughout the lifecycle of disasters through our educational resources, fund opportunities and strategic guidance.

For additional information, contact:

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Vice President

regine.webster@disasterphilanthropy.org



Center for Disaster Philanthropy

The when, where and how of informed disaster giving