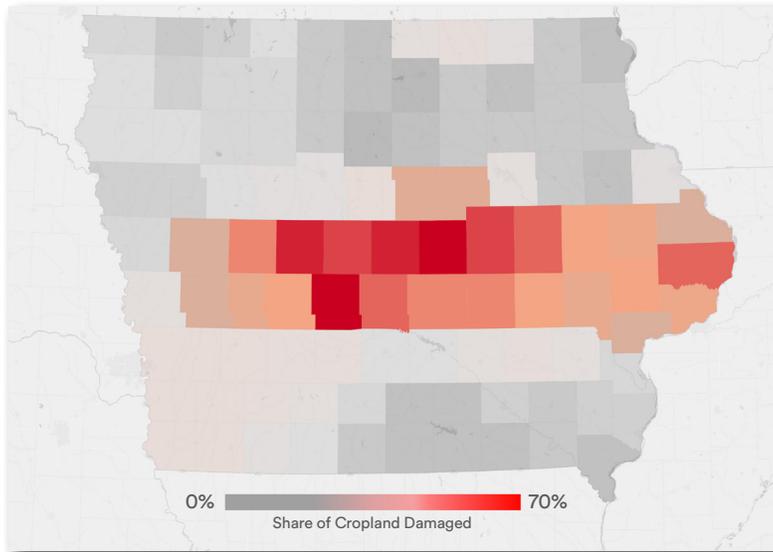


Indigo estimates approximately 3.5 million acres of corn and soybeans were damaged in Iowa. This represents 85% of the total damage across the Heartland.

Crop Damage by County



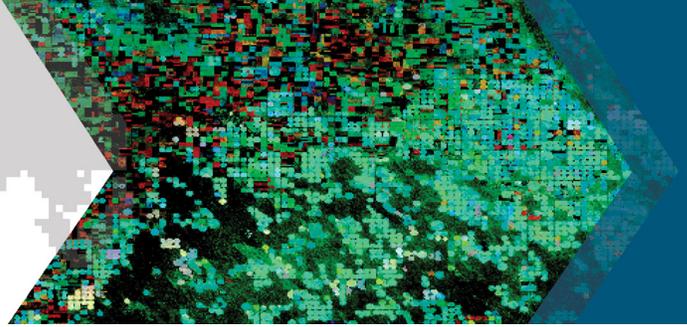
- Indigo’s county-by-county assessment of Iowa’s crop damage found 3.5 million acres sustaining light to severe damage.
- Of that total, corn accounted for 2.1 million acres and soybeans 1.4 million acres. 80% of the damage was concentrated in a strip of 27 counties across Iowa.
- A detailed county analysis is available on page 3.

Estimated Corn and Soybean Losses

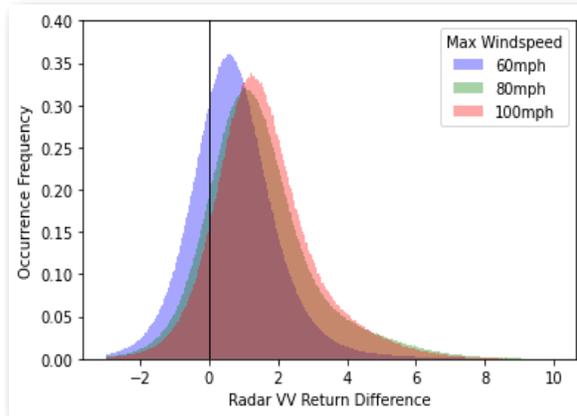
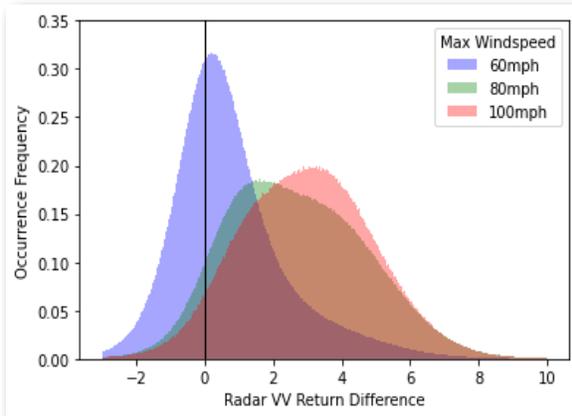
Crop Damage (% loss low/high)		Damaged Acres (million)	Production Loss	
			Low (million bushels)	High
Light: (10%-30%)		0.9	18.9	56.6
Moderate: (40%-60%)		0.6	45.7	68.6
Severe: (80%-100%)		0.6	94.9	118.7
Total Damage/Losses		2.1	159.5	243.8

Crop Damage (% loss low/high)		Damaged Acres (million)	Production Loss	
			Low (million bushels)	High
Light: (10%-30%)		1.1	6.1	18.2
Moderate: (40%-60%)		0.2	4.5	6.7
Severe: (80%-100%)		0.1	4.8	6.0
Total Damage/Losses		1.4	15.4	30.9

Damage estimates are based upon the correlation of dozens of in-field observations, drone and airplane imagery taken after the event with before-and-after satellite imagery. Categories are based upon a rubric that severely damaged fields are unlikely to be harvested, moderate damage harvested at a reduced speed and light damage harvested normally.



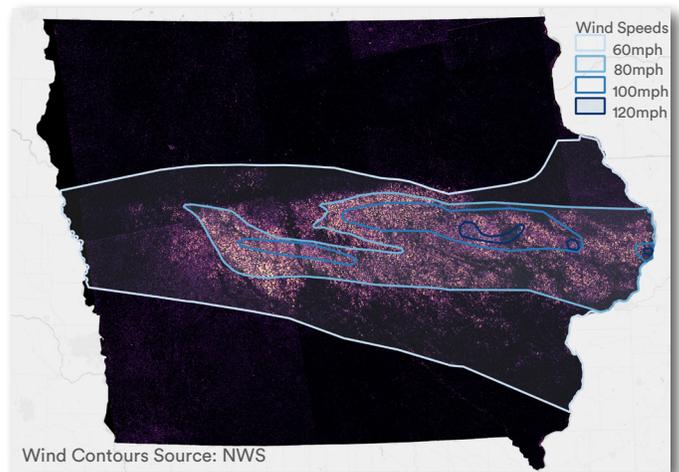
Satellite Radar Detection of Derecho Related Changes



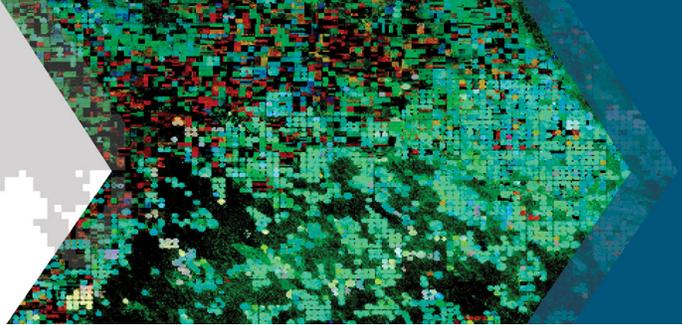
Extremely high winds of 80-100+ miles per hour disproportionately harmed corn. In contrast, there was a relatively small difference in the before-and-after microwave reflectance for corn exposed to wind speeds 60 MPH and below, as well as soybeans, even at extremely high sustained wind speeds.

Radar Imagery of Damaged Croplands

Wind Overlay on Radar Imagery



When tracking crop health and canopy greenness, we typically rely on satellites that record light from the spectrum visible to the human eye. High winds, however, cause lodging, which damaged the structure of the canopy, while the canopy remained green in the storm's immediate aftermath. Satellite radar uses microwaves that can detect the structural changes caused by the derecho event. In the yellow-to-black gradient, bright yellow indicates the most damaged fields, which roughly correlates with areas struck by the highest sustained wind speeds that struck more than a third of Iowa's counties.



Estimated Crop Loss for 27 Most Impacted Counties

County	Corn		Soybeans	
	Acres (,000)	% Moderate & Severe	Acres (,000)	% Moderate & Severe
Greene	125.3	67	75.4	29
Benton	116.3	60	64.2	29
Marshall	122.8	67	53.8	31
Story	119.9	65	52.8	36
Boone	109.4	59	59.3	33
Tama	118.2	63	50.2	31
Clinton	122.7	55	39.6	39
Carroll	102.9	54	57.6	25
Dallas	105.1	74	47.7	30
Jasper	101.8	56	44.3	23
Cedar	85.4	54	33.6	30
Poweshiek	84.4	56	33.9	33
Linn	69.1	63	35.0	35
Guthrie	55.1	60	42.1	22
Iowa	60.7	55	22.0	34
Polk	51.4	66	23.5	28
Hardin	49.3	61	23.0	36
Grundy	45.4	65	24.1	26
Jones	53.5	50	15.8	34
Audubon	27.9	27	40.4	12
Crawford	33.6	30	33.3	17
Scott	46.2	45	17.0	28
Next 5	99.9	40	112.2	12

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