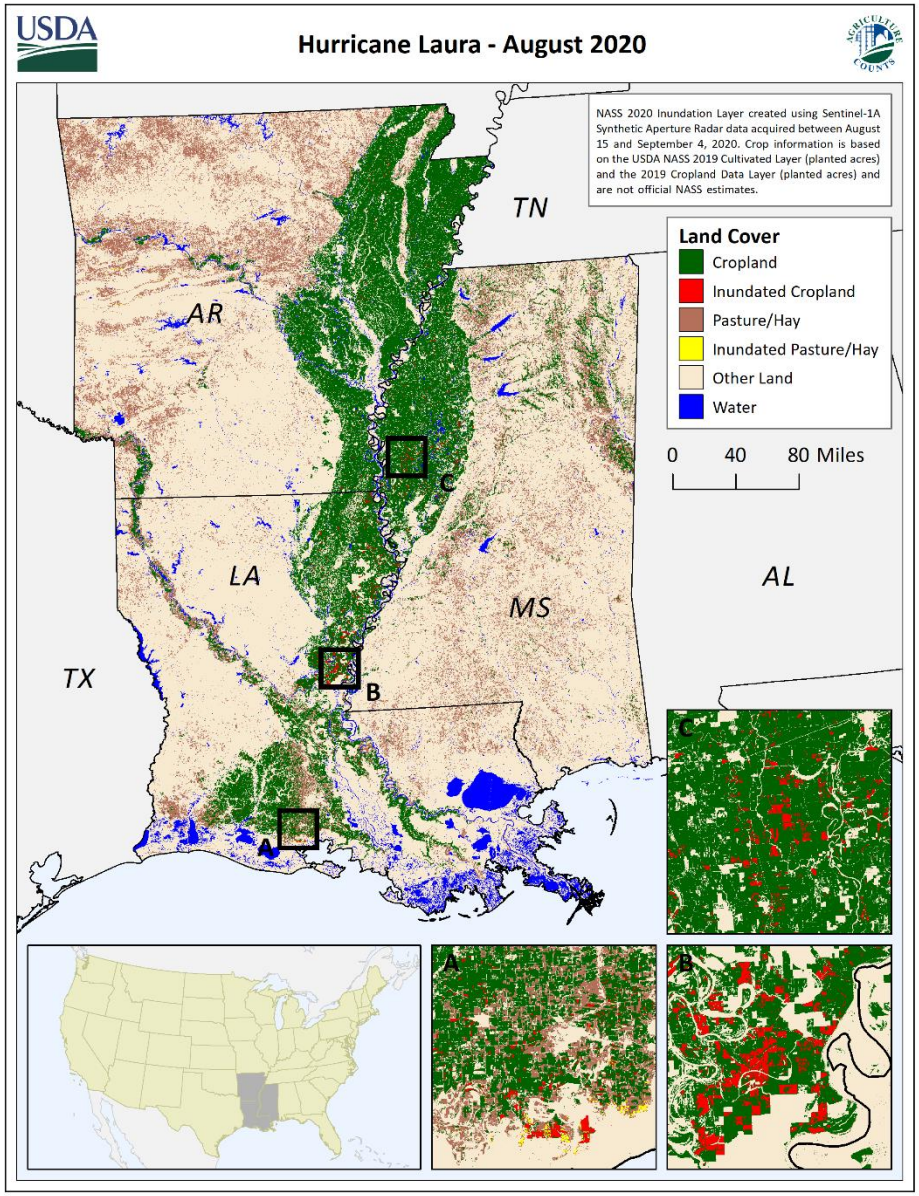
Hurricane Laura

NASS Flood Assessment Report

Incident Overview

- **Event Dates:** 8/27/20 – 8/29/20
- **Areas Affected:** Louisiana, Western Mississippi, Southern Arkansas
- **Major Crops in the Study Area:** Aquaculture, Corn, Cotton, Rice, Soybeans, Sugarcane
- **Pre-Flood Imagery Acquisitions:** 8/15/20, 8/16/20, 8/20/20, 8/22/20
- **Post-Flood Imagery Acquisitions:** 9/1/20, 9/2/20, 9/3/20, 9/4/20



Study Area

State	Crop Type	Total Statewide Acres	Percent of Inundated Acres
Arkansas	Corn	770,000	0.16%
	Cotton	620,000	0.00%
	Rice	1,156,000	0.95%
	Soybeans	2,650,000	0.44%
	Aquaculture	-	0.18%
	Pasture/Hay	-	0.21%
Louisiana	Corn	570,000	5.97%
	Cotton	280,000	1.49%
	Rice	425,000	4.89%
	Soybeans	890,000	7.27%
	Sugarcane	469,000	3.74%
	Aquaculture	-	1.94%
	Pasture/Hay	-	0.34%
Mississippi	Corn	660,000	3.07%
	Cotton	710,000	0.00%
	Rice	117,000	0.67%
	Soybeans	1,660,000	2.59%
	Aquaculture	-	0.24%
	Pasture/Hay	-	0.18%

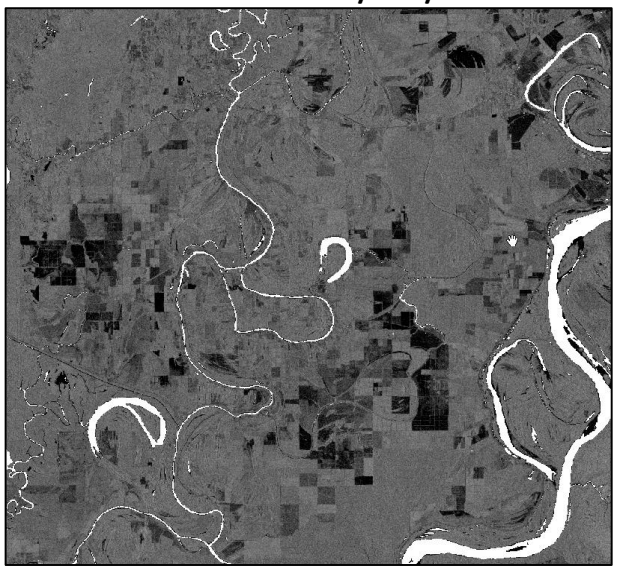
NASS Inundation Layer created using Sentinel-1A Synthetic Aperture Radar data acquired between August 15, 2020 and September 4, 2020. Cropland is based on the 2019 Cultivated Layer (planted acres) and pasture/hay is based on the 2019 Cropland Data Layer (planted acres) and the 2016 National Land Cover Database. Total study area represents approximately 94,460,533 acres.

These are not official NASS estimates.

Example: Concordia Parish, Louisiana

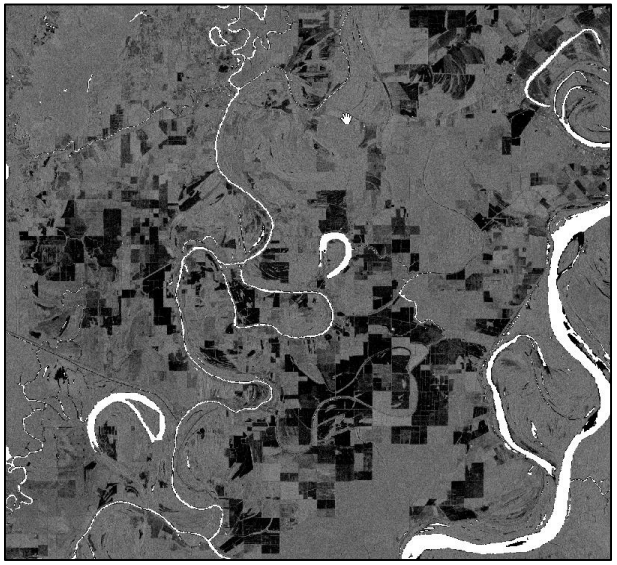
Copernicus Sentinel-1A Synthetic Aperture Radar (SAR)

Pre-Flood: 8/15/20



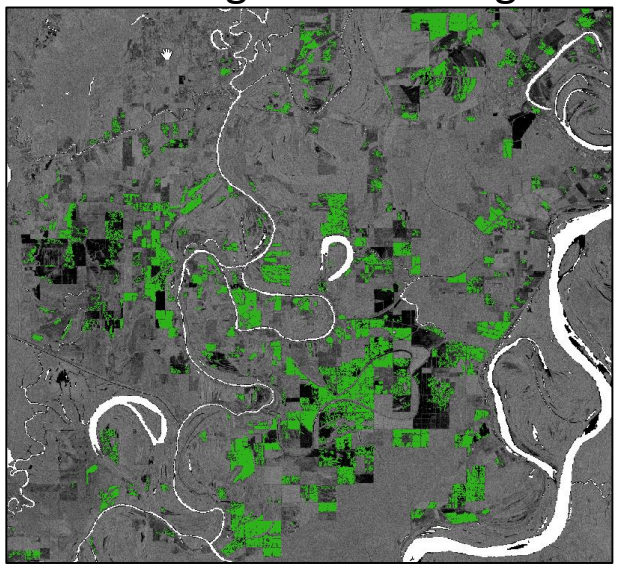
Water
Other

Post Flood: 9/2/20



Water
Other

Image Differencing



Inundated Cropland

Example: East Carroll Parish, Louisiana

Copernicus Sentinel-1A Synthetic Aperture Radar (SAR)

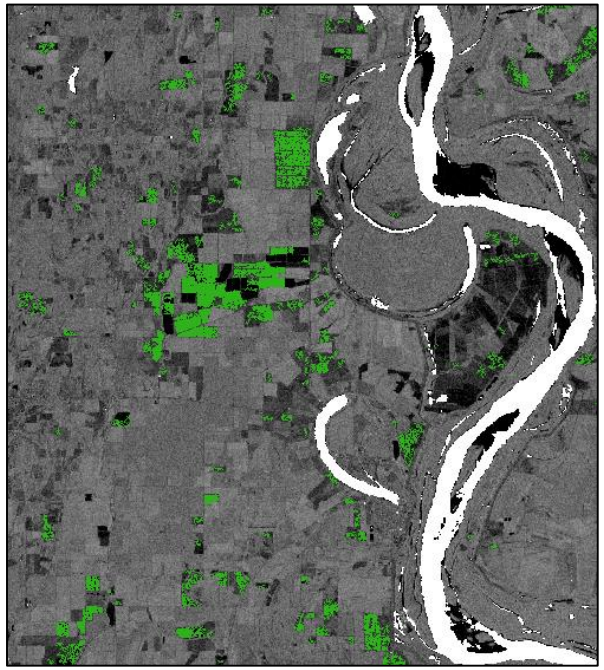
Pre-Flood: 8/22/20

Water
Other

Post Flood: 9/3/20

Water
Other

Image Differencing



Inundated Cropland