Hurricane Dorian
NASS Flood Assessment Report
Incident Overview

• **Event Dates:** 9/3/19 – 9/7/19

• **Areas Affected:** Eastern North Carolina, Eastern South Carolina, Southeast Georgia, Southeast Virginia, Eastern Florida

• **Major Crops in the Study Area:** Corn, Soybeans, Peanuts, Cotton, Tobacco, Citrus, Sugarcane

• **Pre-Flood Imagery Acquisitions:** 8/21/19, 8/26/19, 8/28/19

• **Post-Flood Imagery Acquisitions:** 9/7/19, 9/8/19, 9/9/19
### Study Area

**Cropland**

<table>
<thead>
<tr>
<th>State</th>
<th>Total Acres</th>
<th>Inundated Acres</th>
<th>Percent Inundated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia</td>
<td>43,382</td>
<td>1,156</td>
<td>2.66%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>3,920,753</td>
<td>111,613</td>
<td>2.85%</td>
</tr>
<tr>
<td>South Carolina</td>
<td>1,732,899</td>
<td>86,052</td>
<td>4.97%</td>
</tr>
<tr>
<td>Georgia</td>
<td>629,768</td>
<td>18,558</td>
<td>2.95%</td>
</tr>
</tbody>
</table>

**Pasture/Hay**

<table>
<thead>
<tr>
<th>State</th>
<th>Total Acres</th>
<th>Inundated Acres</th>
<th>Percent Inundated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virginia</td>
<td>10,090</td>
<td>566</td>
<td>5.61%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>665,280</td>
<td>28,557</td>
<td>4.29%</td>
</tr>
<tr>
<td>South Carolina</td>
<td>597,877</td>
<td>41,726</td>
<td>6.98%</td>
</tr>
<tr>
<td>Georgia</td>
<td>158,210</td>
<td>5,296</td>
<td>3.35%</td>
</tr>
</tbody>
</table>

NASS 2019 Inundation Layer created using Sentinel-1A Synthetic Aperture Radar data acquired between August 21, 2019 and September 9, 2019. Cropland is based on the 2018 Cultivated Layer (planted acres) and pasture/hay is based on the 2018 Cropland Data Layer (planted acres) and the 2016 National Land Cover Database and these are not official NASS estimates. Total study area represents approximately 39,551,646 acres.
Example: Dillon County, South Carolina

Pre-Flood: 8/21/19

Copernicus Sentinel-1A
Synthetic Aperture Radar (SAR)

Post Flood: 9/8/19

Land Cover
- Cropland
- Inundated Cropland
- Pasture/Hay
- Inundated Pasture/Hay
- Other Land
- Water

United States Department of Agriculture
National Agricultural Statistics Service
Example: Wilson County, North Carolina

Pre-Flood: 8/21/19

Post Flood: 9/8/19

Copernicus Sentinel-1A Synthetic Aperture Radar (SAR)

Land Cover
- Cropland
- Inundated Cropland
- Pasture/Hay
- Inundated Pasture/Hay
- Other Land
- Water