A vision for a more resilient Iowa

The Iowa Watershed Approach

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Flood-related FEMA Disaster Declarations 1988-2016

Declarations

- 0 - 5
- 6 - 10
- 11 - 15
- Above 15

1. Texas 1765
2. Missouri 1347
3. Kentucky 1242
4. Iowa 951
5. Virginia 948
6. Louisiana 889
7. North Carolina 824
8. Tennessee 787
9. Florida 762
10. Oklahoma 736

Raw data source: https://www.fema.gov/
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Counties: Des Moines, Buchanan, Butler, Howard, Muscatine, Louisa, Montgomery, Chickasaw, and Wapello

Flood-related FEMA Disaster Declarations 1988-2016

Counties with the highest number of disasters per square mile

Counties in Iowa: 9

Top 15%

Raw data source: https://www.fema.gov/
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Flood-related FEMA Disaster Declarations 1988-2016

Counties with the highest number of disasters per square mile

Counties in Iowa: 49
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Flood-related FEMA Disaster Declarations 1988-2016

Counties with the highest number of disasters per square mile

Counties in Iowa: 79

Raw data source: https://www.fema.gov/
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Flood-related FEMA Disaster Declarations 1988-2016

Total: 951

Declarations
- 4 - 8
- 9 - 12
- 13 - 17

Raw data source: https://www.fema.gov/
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Flood-related Disaster Declarations in Iowa

- 1993 (114)
- 2005 (99)*
- 2008 (85)


Flood-related Disaster Declarations in Iowa

Raw data source: https://www.fema.gov/
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FEMA provides supplemental Federal disaster grant assistance for debris removal, emergency protective measures, and the repair, replacement, or restoration of disaster-damaged, publicly owned facilities and the facilities of certain Private Non-Profit (PNP) organizations through the Public Assistance (PA) Program (CDFA Number 97.036).

Raw data source: https://www.fema.gov/
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Crop Indemnity Payment 1999-2016 (ADJ $2016)

<table>
<thead>
<tr>
<th>State</th>
<th>*Flood</th>
<th>Drought</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Dakota</td>
<td>6.4</td>
<td>1.5</td>
<td>9.5</td>
</tr>
<tr>
<td>Minnesota</td>
<td>2.9</td>
<td>1.5</td>
<td>5.4</td>
</tr>
<tr>
<td>Iowa</td>
<td>2.7</td>
<td>3.7</td>
<td>7.0</td>
</tr>
<tr>
<td>South Dakota</td>
<td>2.1</td>
<td>2.9</td>
<td>6.0</td>
</tr>
<tr>
<td>Missouri</td>
<td>1.9</td>
<td>2.0</td>
<td>4.1</td>
</tr>
<tr>
<td>Illinois</td>
<td>1.9</td>
<td>4.0</td>
<td>6.1</td>
</tr>
<tr>
<td>Texas</td>
<td>1.4</td>
<td>7.3</td>
<td>13.1</td>
</tr>
</tbody>
</table>

*Flood includes:
- Excess Moisture/Precipitation/Rain
- Hurricane/Tropical Depression

Raw data source: [http://hvri.geog.sc.edu/SHELDUS/](http://hvri.geog.sc.edu/SHELDUS/)
[https://www.rma.usda.gov/data/cause.html](https://www.rma.usda.gov/data/cause.html)

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Crop Indemnity Payments (Adj. $2016)

Iowa. USDA Payments. Damage Description: *Excess Moisture/Precipitation/Rain
Hurricane/Tropical Depression*

Total: $2.7 Billion


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Total: $13.5 Billion

 Millions of $

- 10 - 20
- 20 - 50
- 50 - 100
- Above 100

Raw data source: http://hvri.geog.sc.edu/SHELDUS/

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Total: $4.1 Billion

 Millions of $
- 8 - 20
- 20 - 50
- 50 - 100
- Above 100

Raw data source: http://hvri.geog.sc.edu/SHELDUS/
https://www.rma.usda.gov/data/cause.html
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Direct Losses from Flooding in Iowa (Crop and Property)

Total (1988-2015): $17.5 Billion

Raw data source: http://hvri.geog.sc.edu/SHELDUS/
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