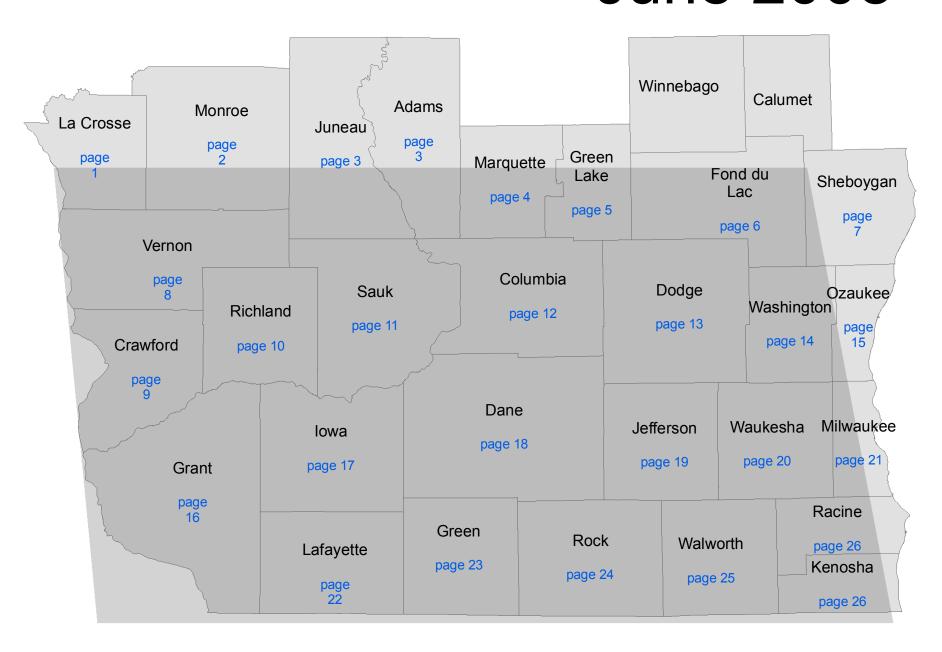
Wisconsin Flood Extent June 2008



Overview

In early June 2008, the state of Wisconsin experienced several large rain events that caused widespread flooding in the southern half of the state. Thirty counties were declared a state of emergency by the Governor. The maps in this atlas depict the approximate extent of flooding in Wisconsin by county caused by this June event.

Image Analysis

The flooded areas were mapped using Radarsat-1 technology provided by the Canadian Space Agency. Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. These 50 meter resolution Radarsat-1 data were collected on June 15, 2008 and processed in a cooperative effort between the University of Wisconsin Environmental Remote Sensing Space Science & Engineering Center (UW ERSC) and Dartmouth College. The data is considered tentative only at this time and does not account for flooded areas underneath the forest canopy. Because of this and other factors, it is estimated that there is a **10-15% underestimation** of flood waters.

Imagery Analysts

Chris Farmer – Dartmouth Floods Oberservatory, Dartmouth College G. Bob Brakenridge - Dartmouth Floods Oberservatory, Dartmouth College Dr. Jonathan Chipman - Dartmouth College Dr. Sam Batzli - WisconsinView Director & UW ERSC

Cartographers

Erik Binnie, Bob Busch, Nick Clemens, Cody Cook, Chris Diller, Brynda Hatch, Raquel Sanchez, Emily Szajna



Area of Satellite Coverage















FLOOD EXTENT La Crosse County Wisconsin



Local Roads County Highways

State Highways

Interstates US Highways

Flood Water Water

As of 6/15/08

City/Village **Flood Water Status**

1:180,990

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.

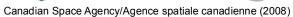






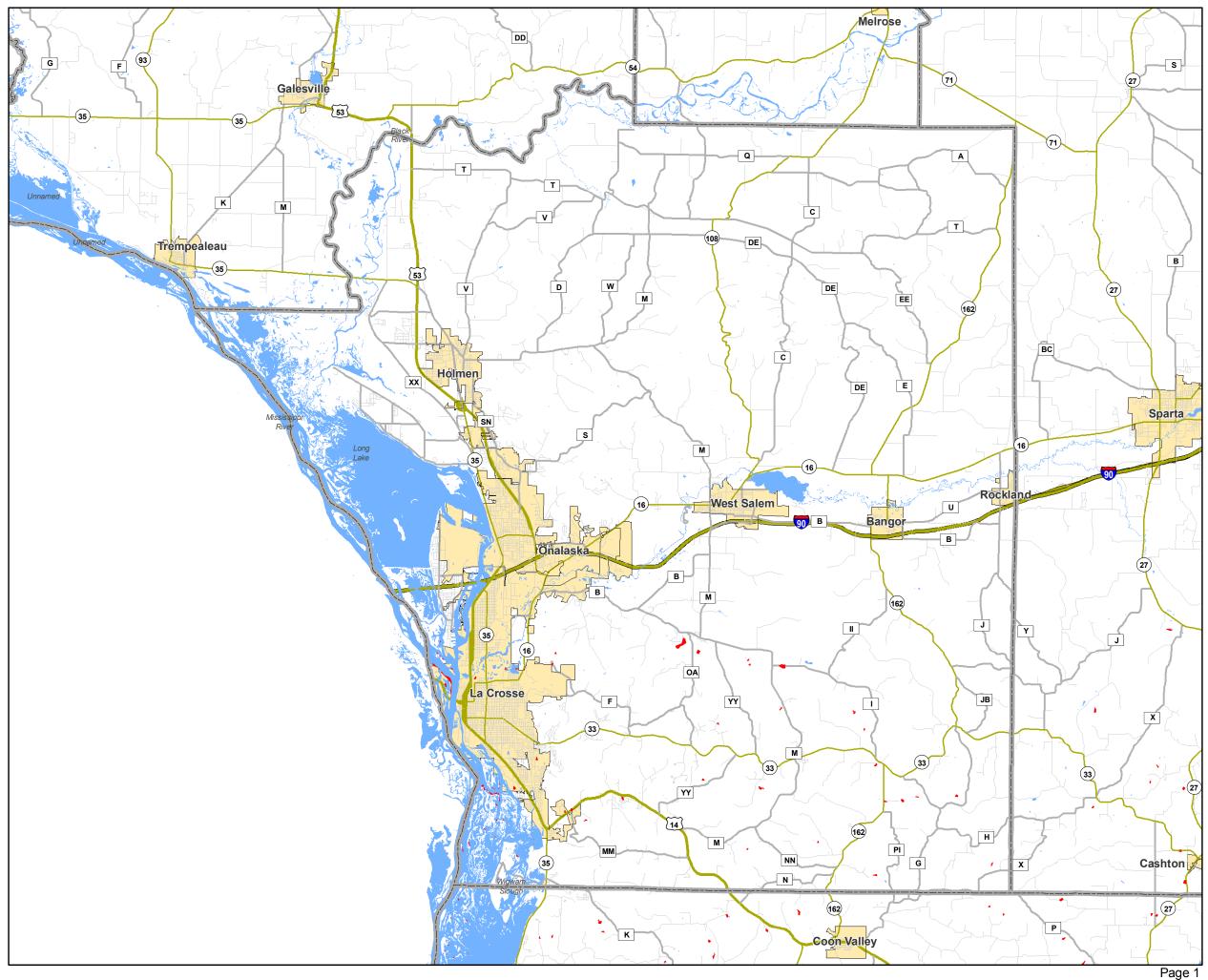






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Wisconsin Emergency Management



FLOOD EXTENT Monroe County Wisconsin



Local Roads County Highways **Flood Water Status**

State Highways Interstates US Highways

1:199,949

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.







Counties

As of 6/15/08

City/Village

Flood Water

Water





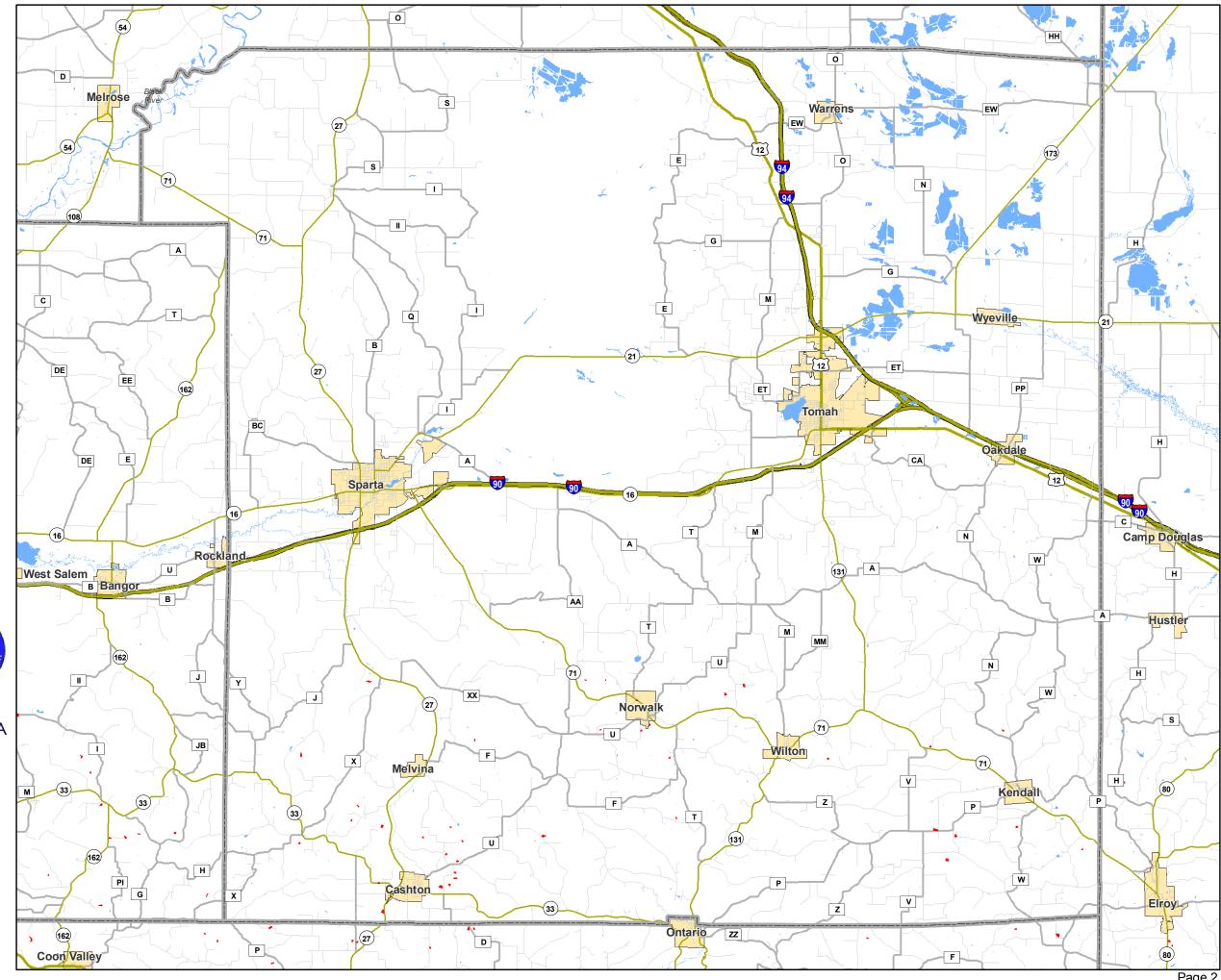


Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management Date: 19 June 08

Time: 0926



FLOOD EXTENT Juneau/Adams County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water US Highways Water

1:279,526

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









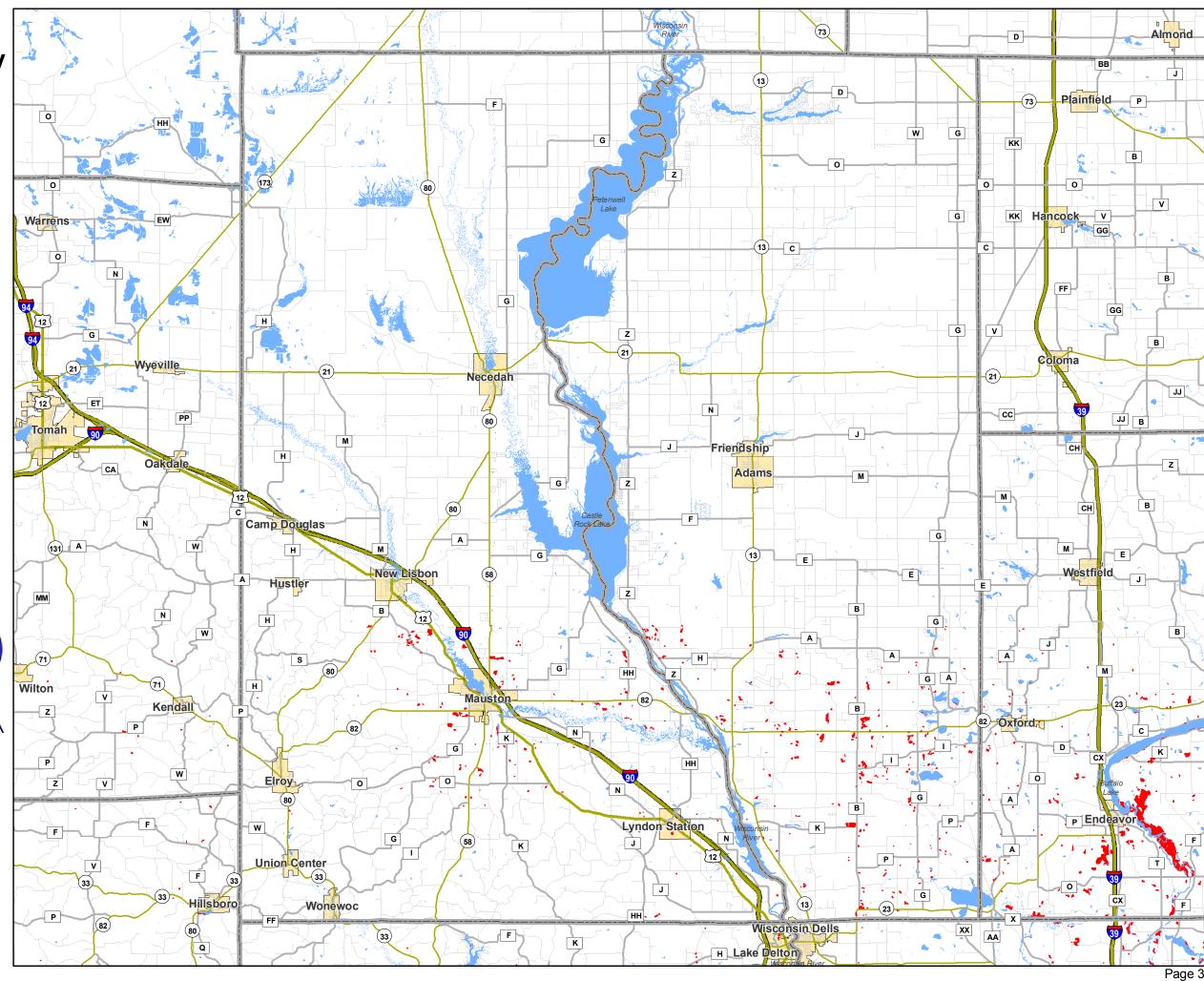




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Marquette County Wisconsin



Local Roads County Highways **Flood Water Status**

State Highways Interstates

US Highways

Water

As of 6/15/08

City/Village

Flood Water

1:157,643

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









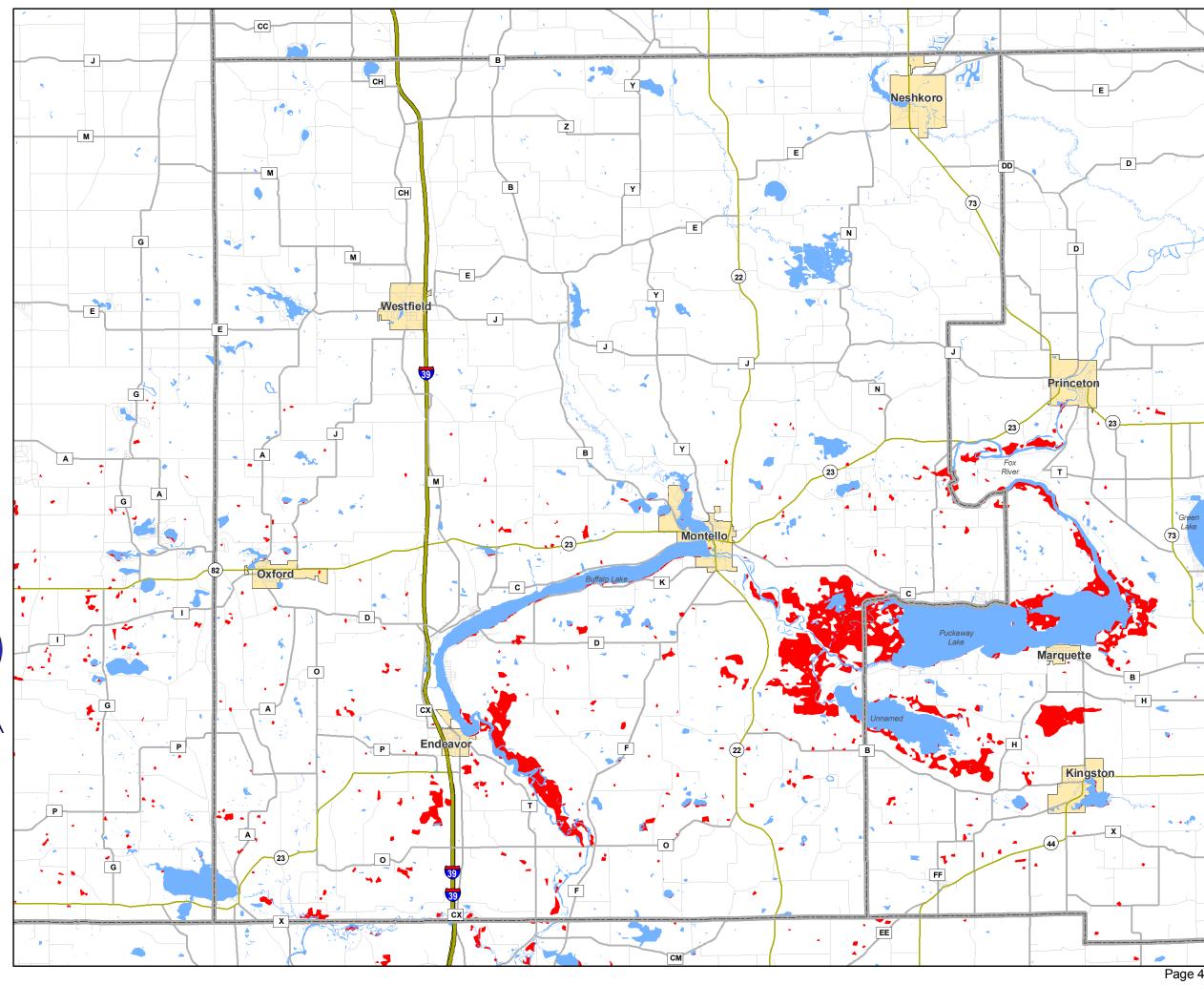




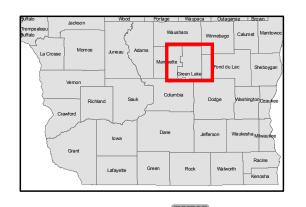
Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Green Lake County Wisconsin



Local Roads

County Highways

State Highways
Interstates

US Highways

1:162,679

Counties

As of 6/15/08

City/Village Flood Water Status

Flood Water

Water

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.







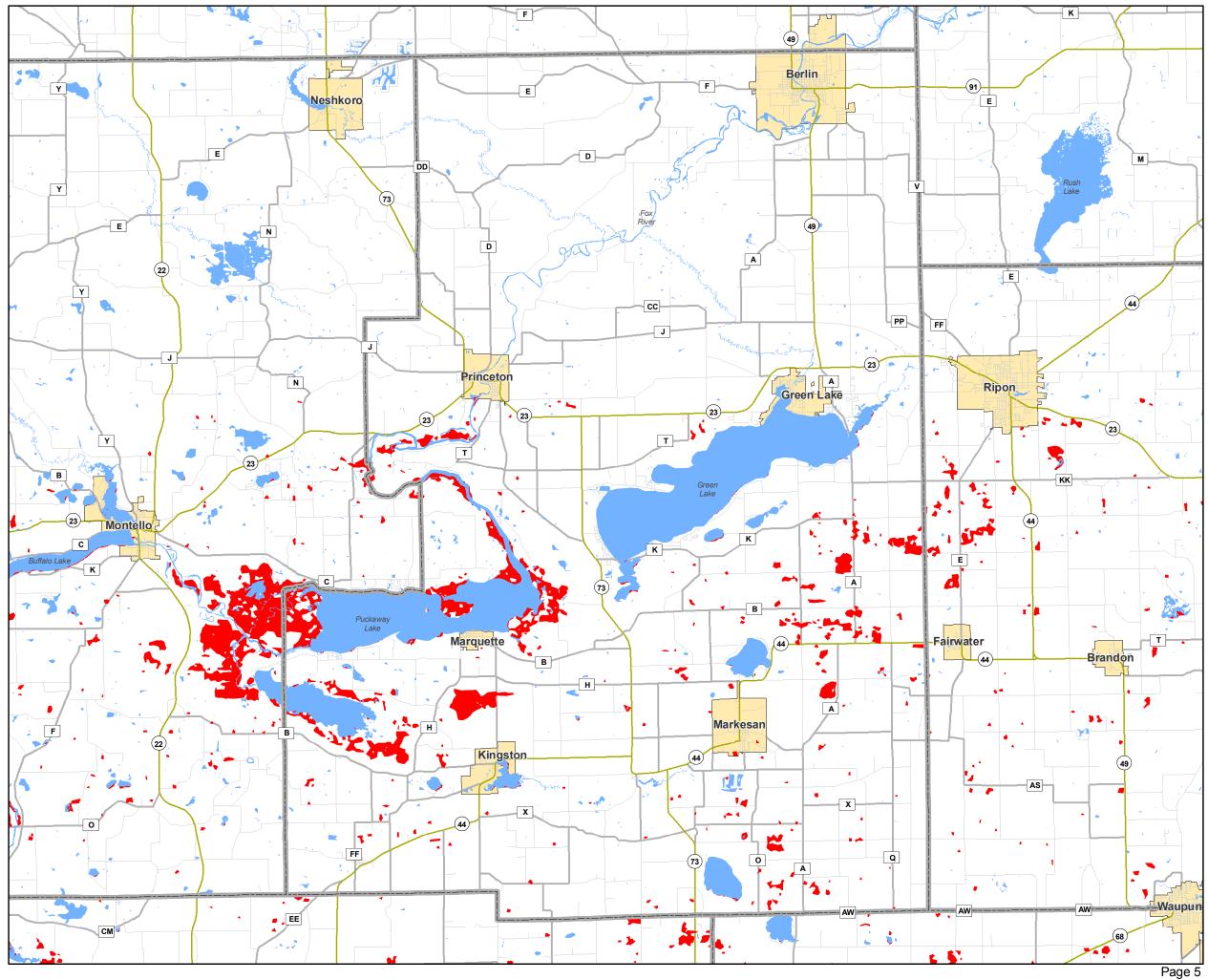






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Wisconsin Emergency Management



FLOOD EXTENT Fond du Lac County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water

US Highways

1:197,935

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.







Water



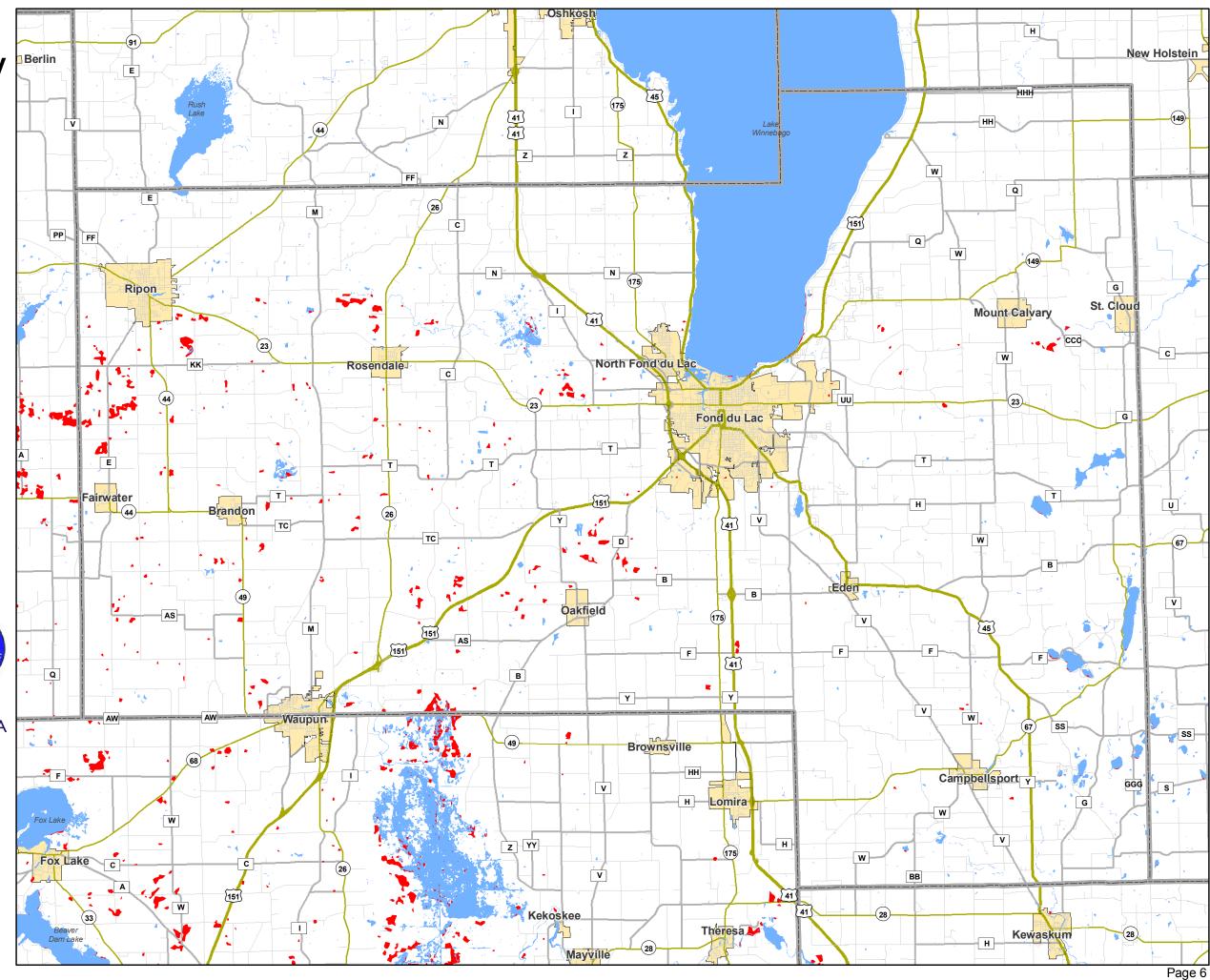




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Sheboygan County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water

US Highways

Water

1:164,017

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









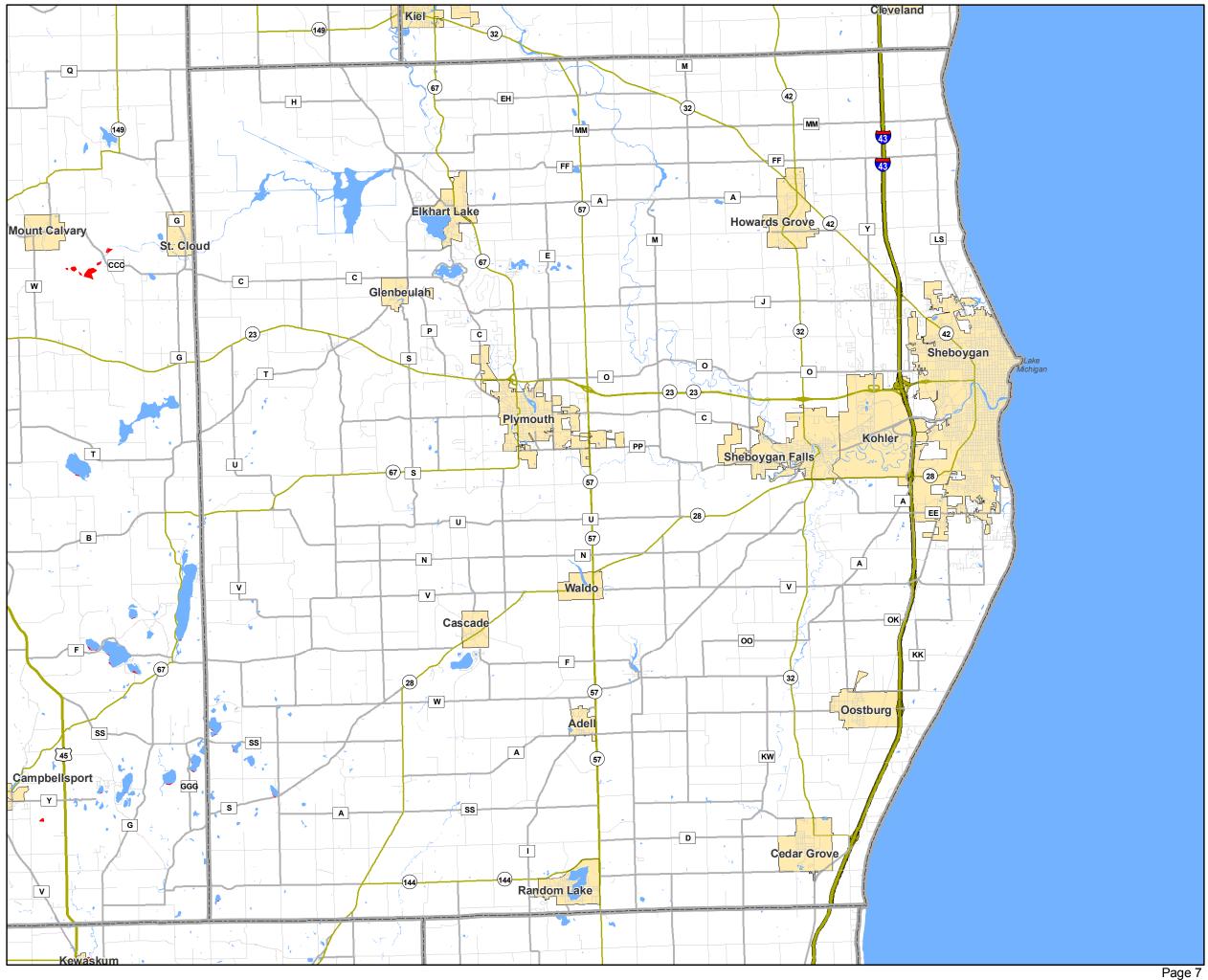




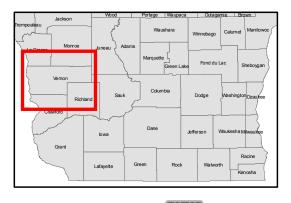
Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Vernon County Wisconsin



Local Roads
Counties
County Highways
State Highways
Interstates
Counties
City/Village
Flood Water Status
As of 6/15/08
Flood Water

1:260,118

US Highways

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.







Water



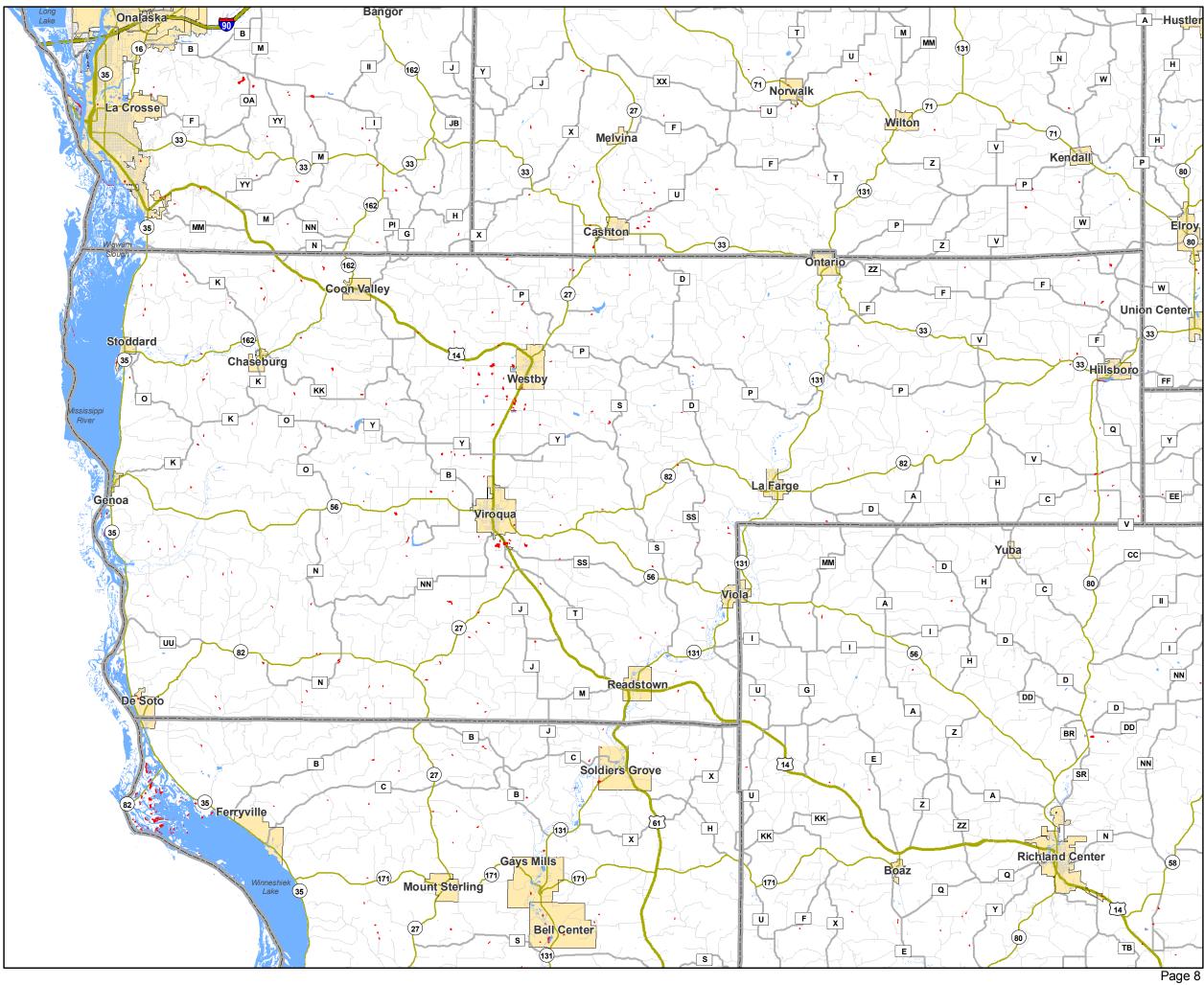




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Crawford County Wisconsin



Local Roads

County Highways **Flood Water Status**

State Highways Interstates

US Highways

City/Village

Flood Water

Water

As of 6/15/08

1:200,129

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









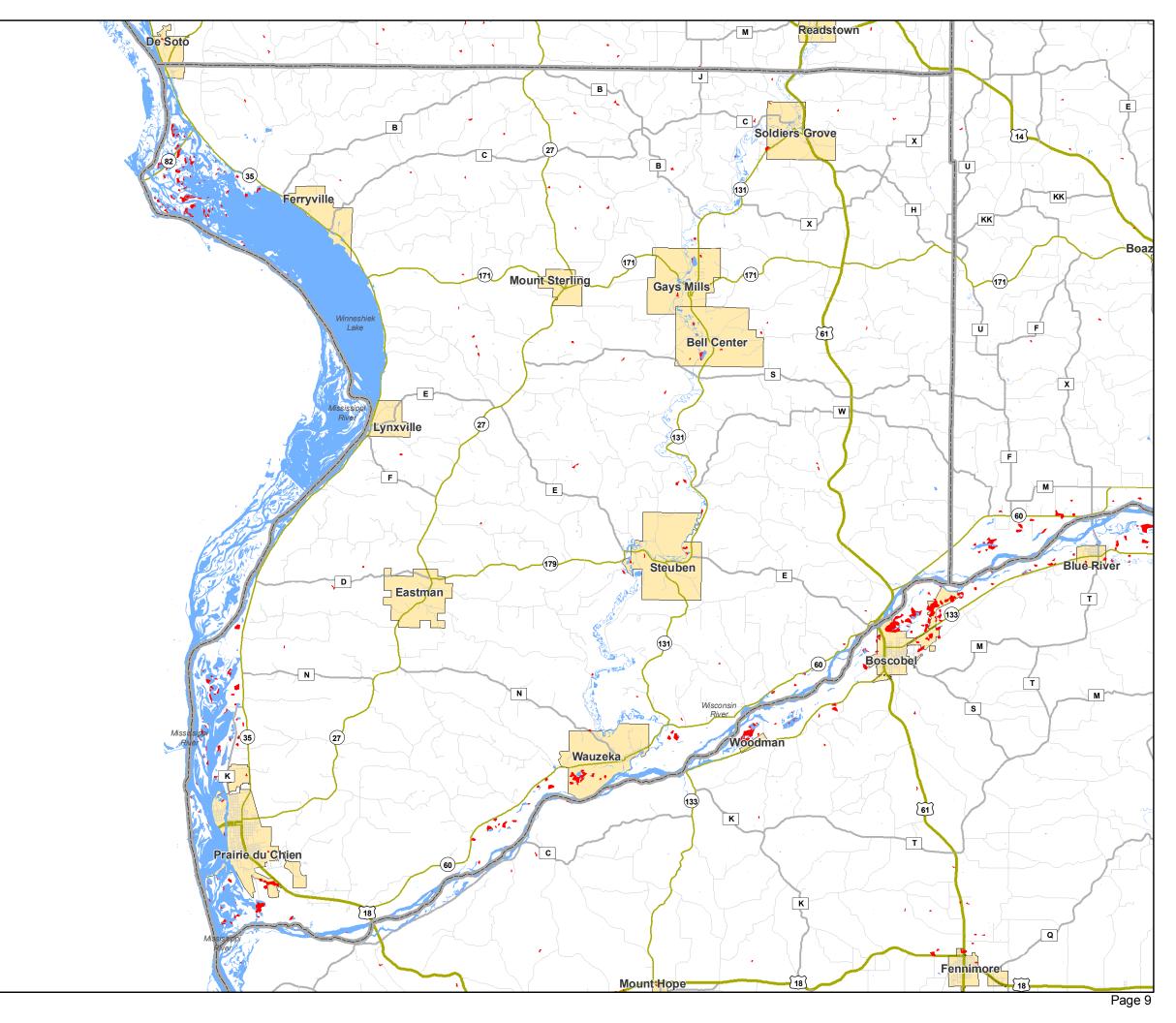




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Richland County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water

US Highways

Water

1:179,461

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









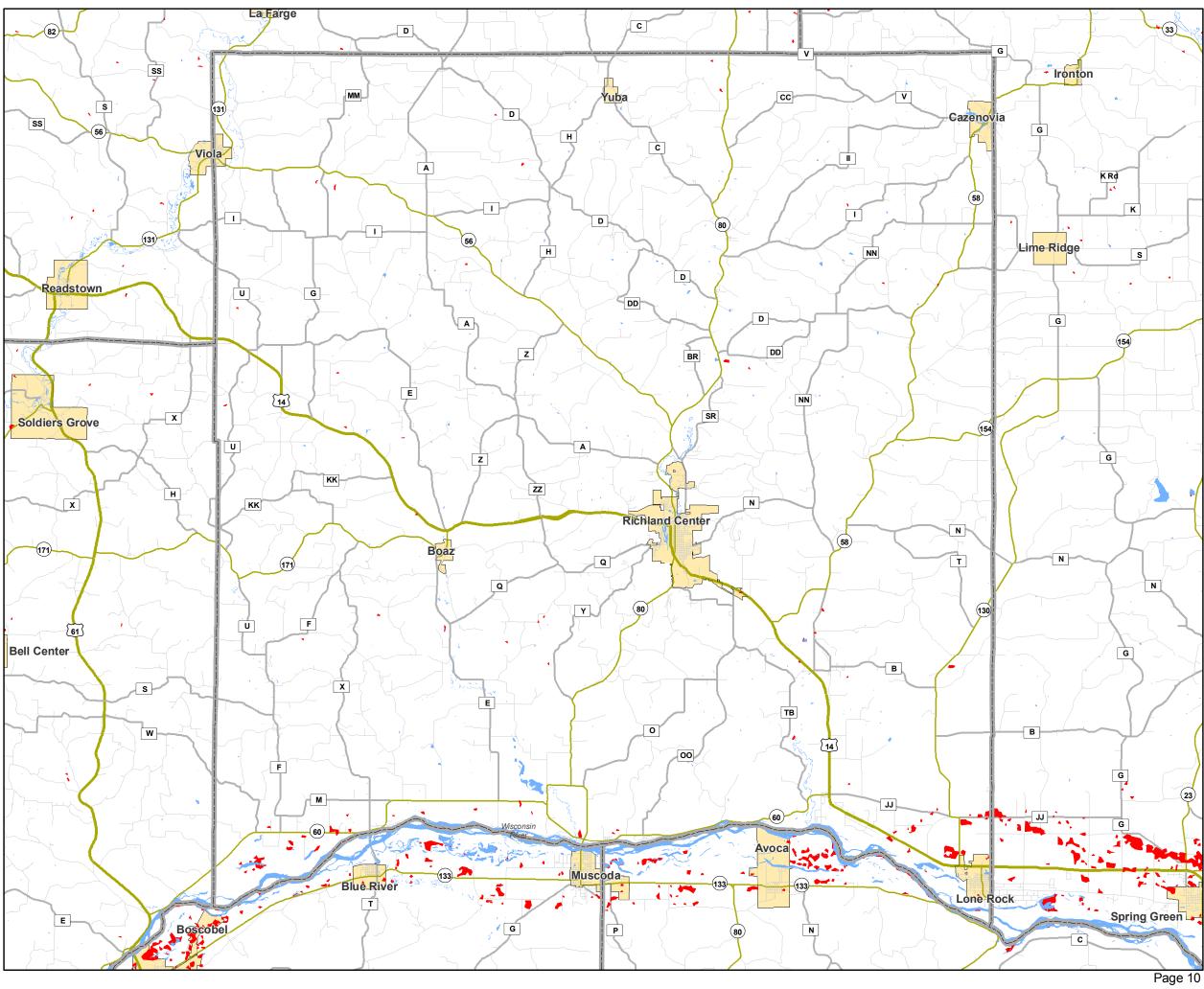




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Sauk County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water

US Highways

1:228,359

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.







Water



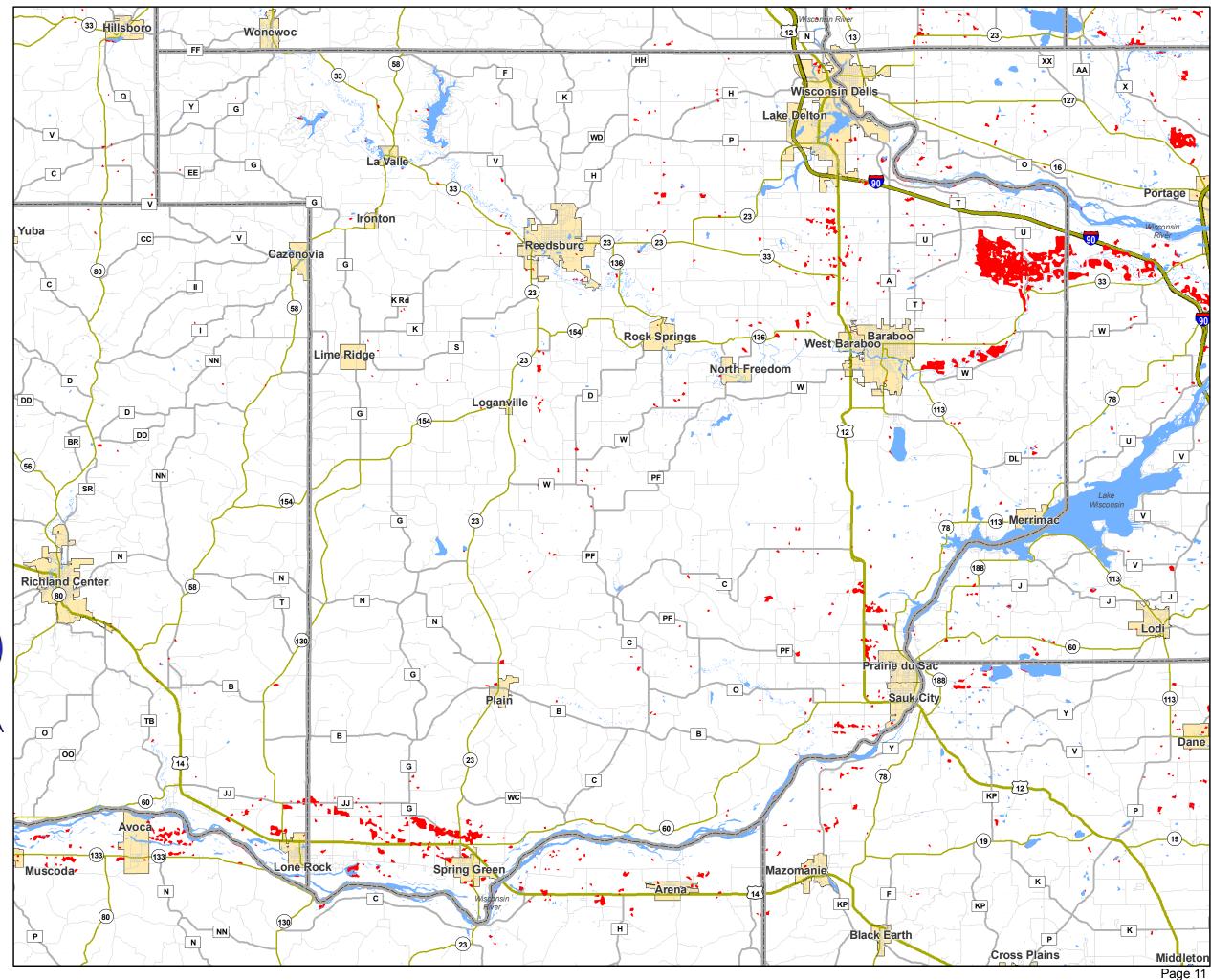




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Columbia County Wisconsin



Local Roads Counties
County Highways City/Village
State Highways Flood Water Status

State HighwaysInterstates

US Highways

Flood Water
Water

As of 6/15/08

1:212,228

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









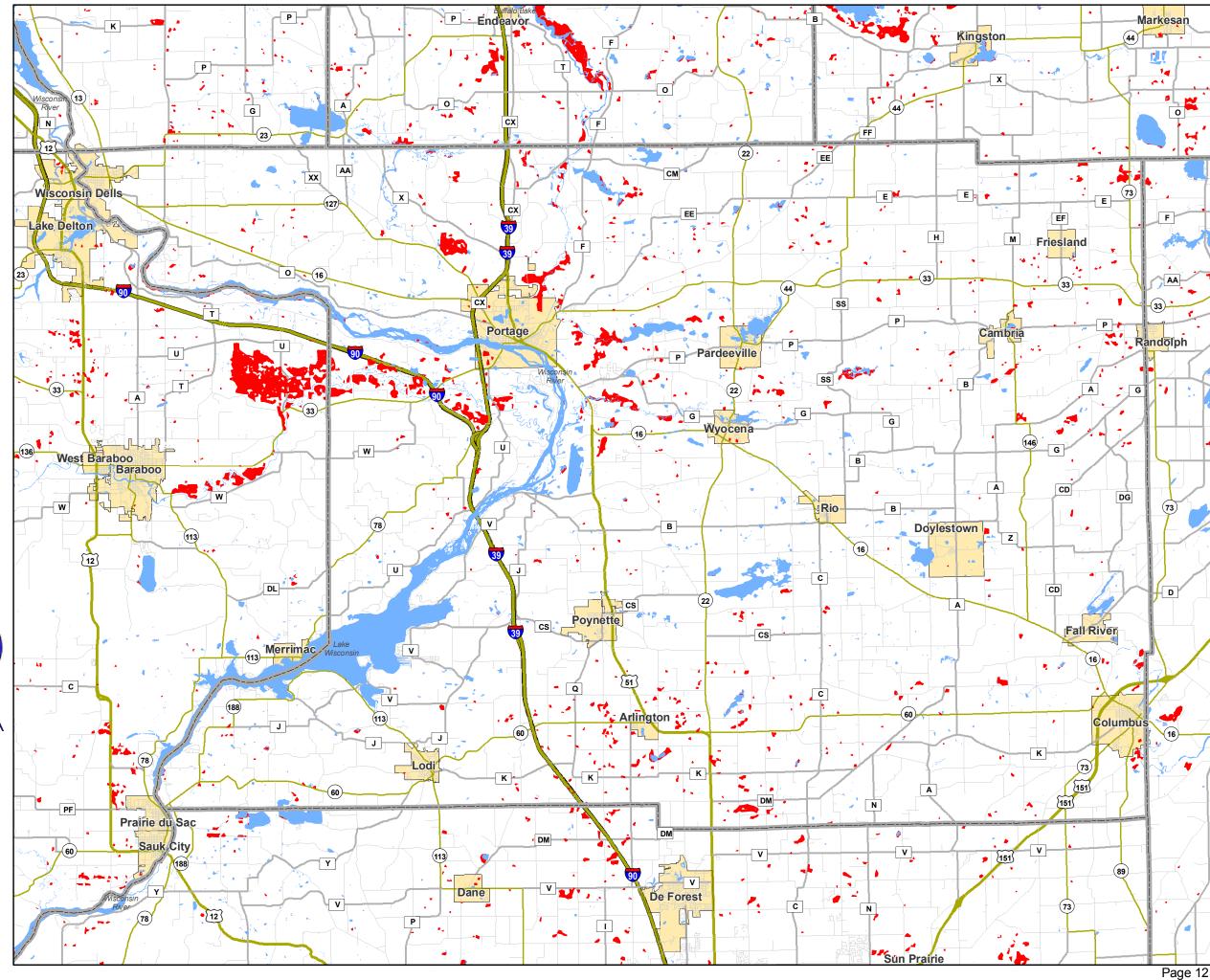




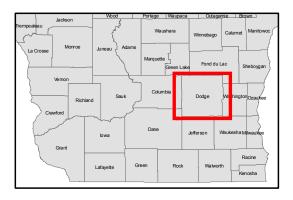
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Wisconsin Emergency Management



FLOOD EXTENT Dodge County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water US Highways Water

1:202,146

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









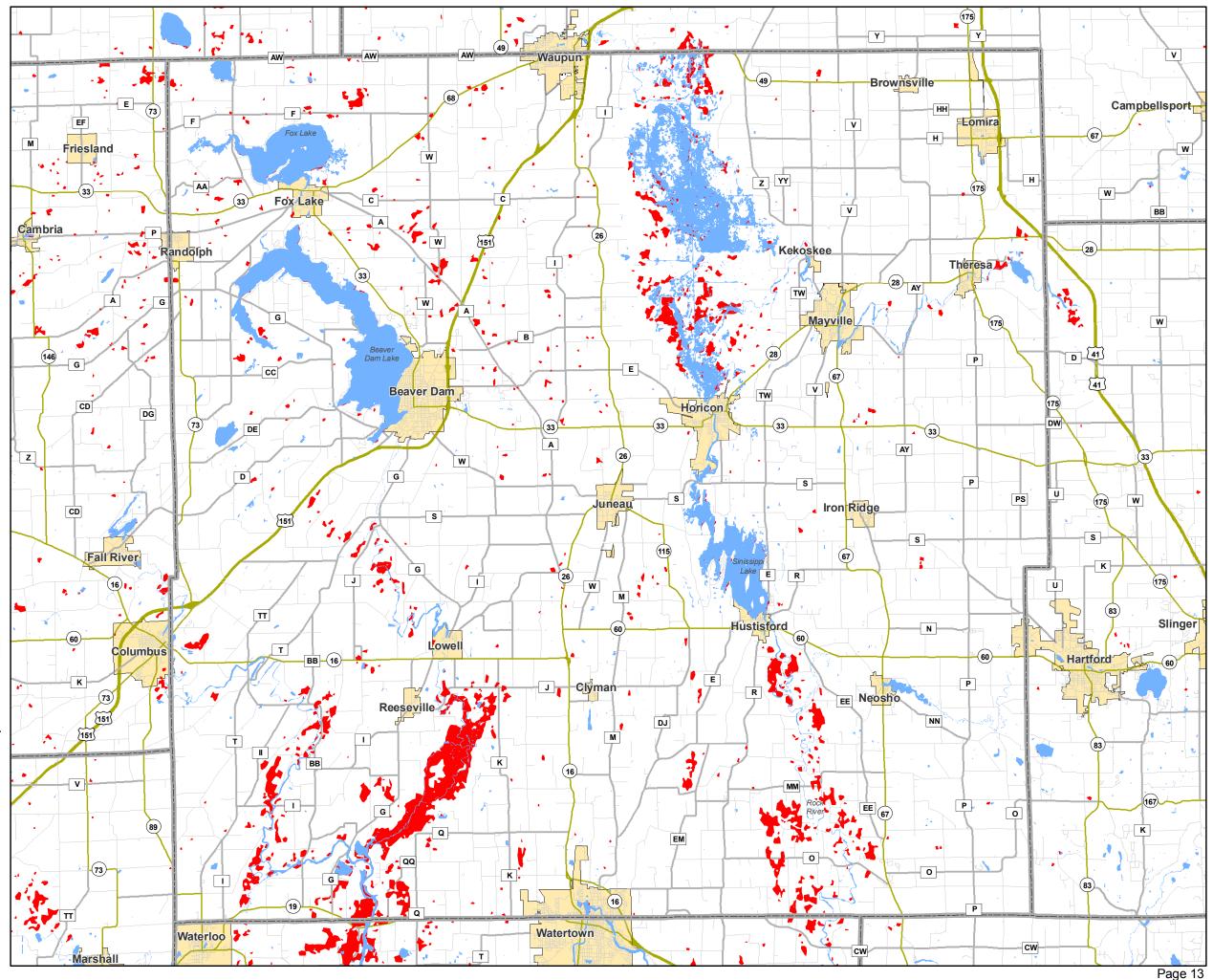




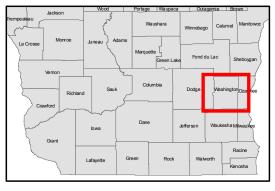
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Wisconsin Emergency Management



FLOOD EXTENT Washington County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water US Highways Water

1:162,826

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









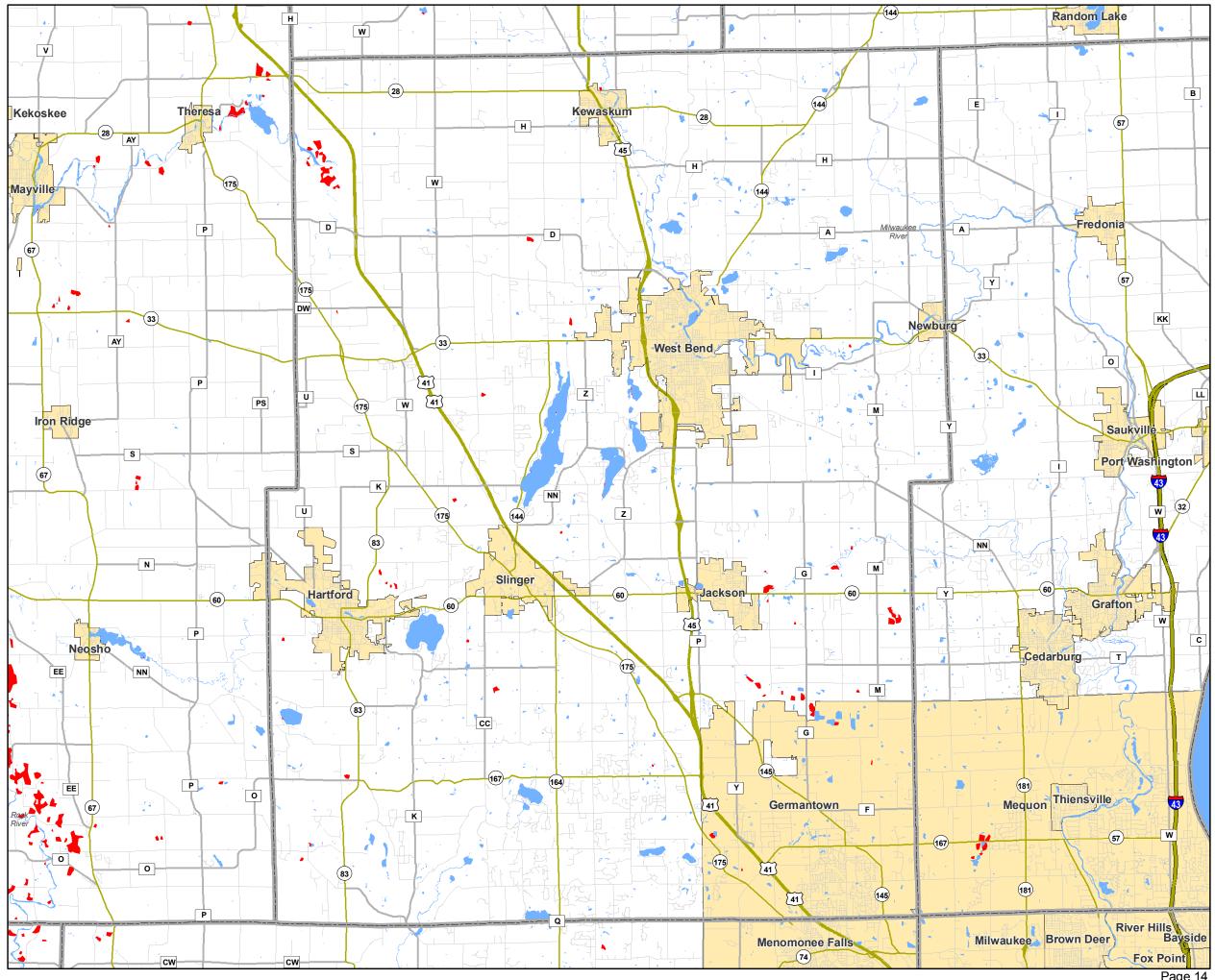




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Wisconsin Emergency Management



FLOOD EXTENT Ozaukee County Wisconsin



1:163,834

State Highways

US Highways

Interstates

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.







Flood Water Status

Water

Flood Water

As of 6/15/08



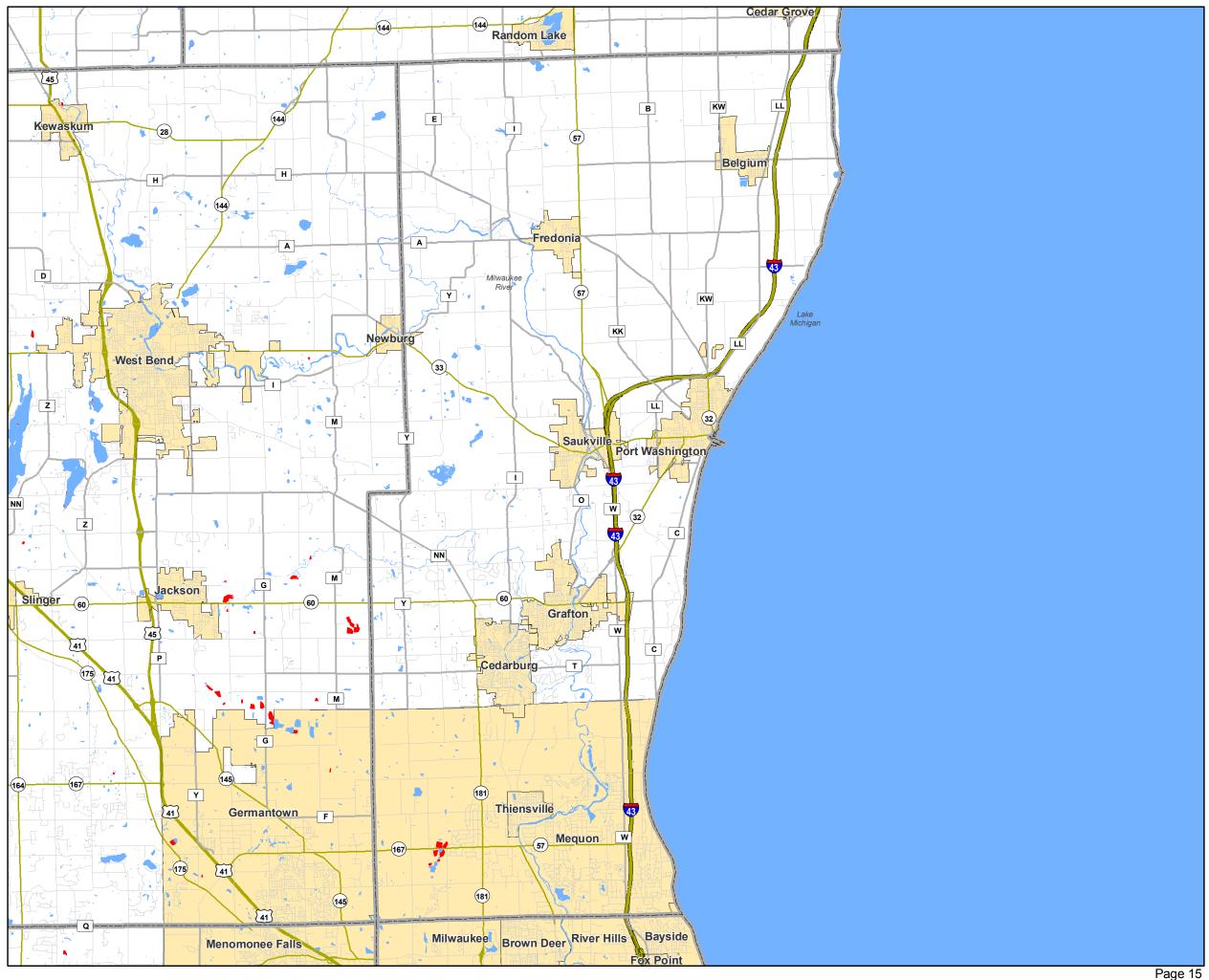




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Grant County Wisconsin



County Highways

State Highways

Interstates
US Highways

City/Village

Flood Water

Flood Water Status

Water

As of 6/15/08

1:324,284

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









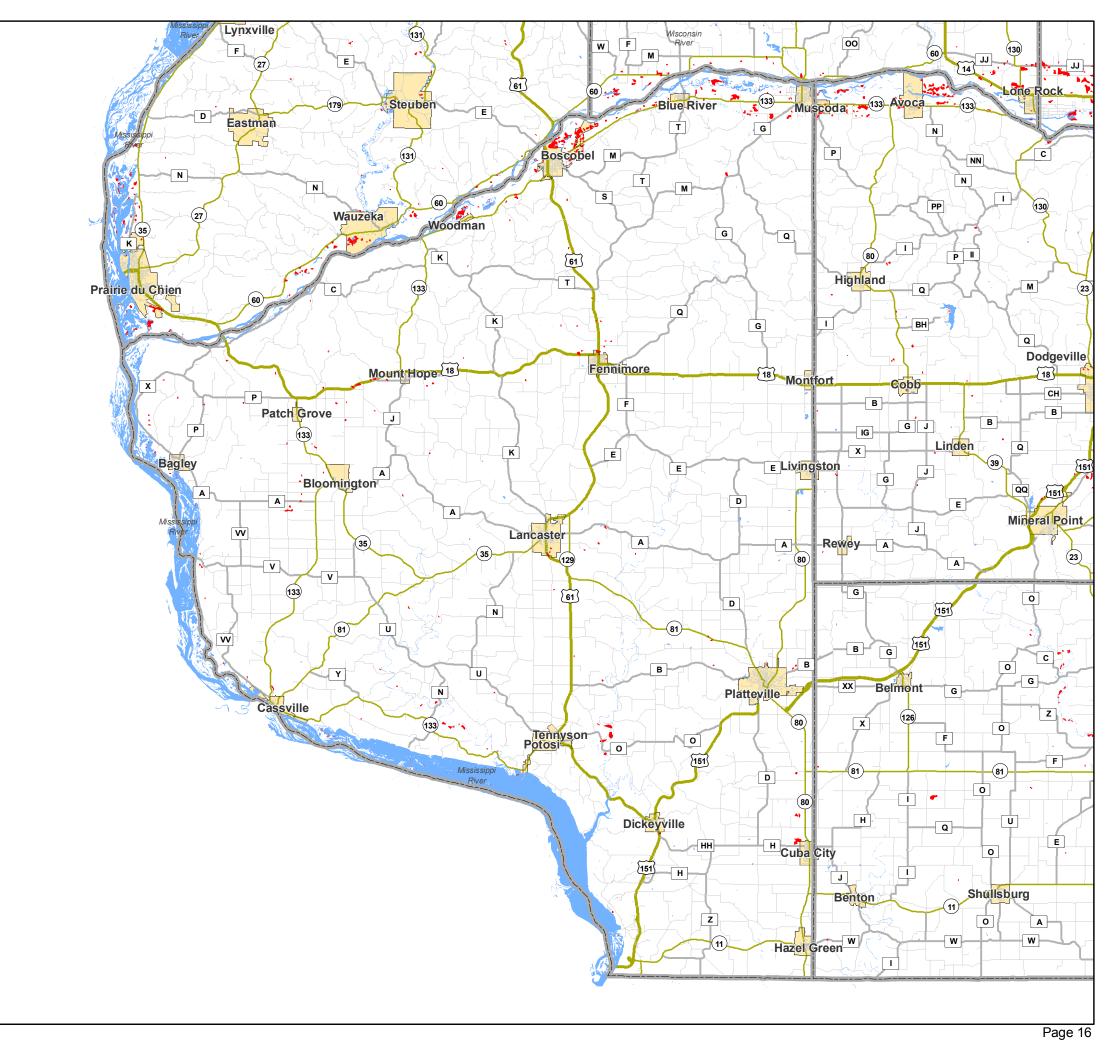




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Iowa County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water

US Highways

Water

1:182,486

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









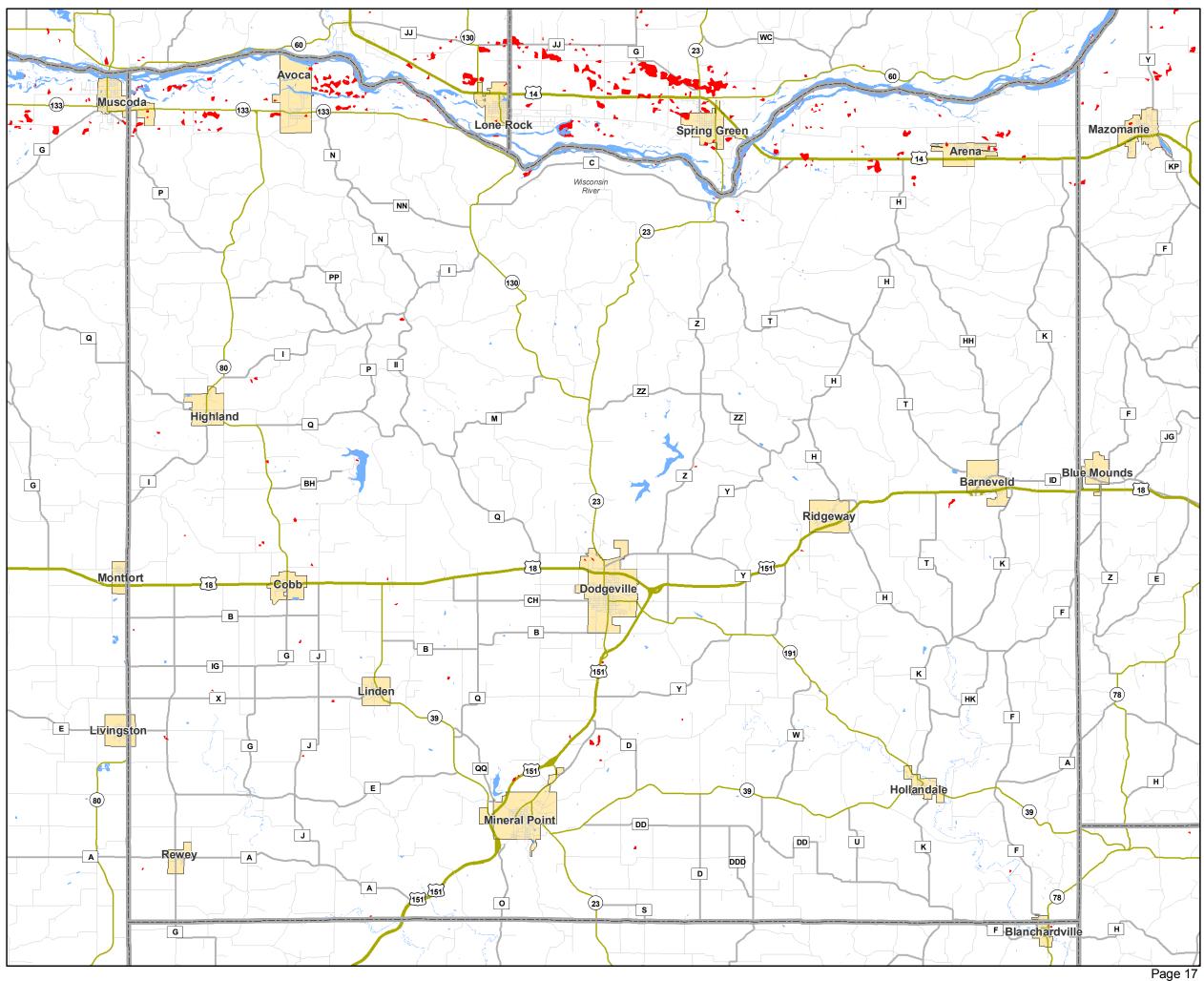




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Dane County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water **US Highways** Water

1:226,643

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









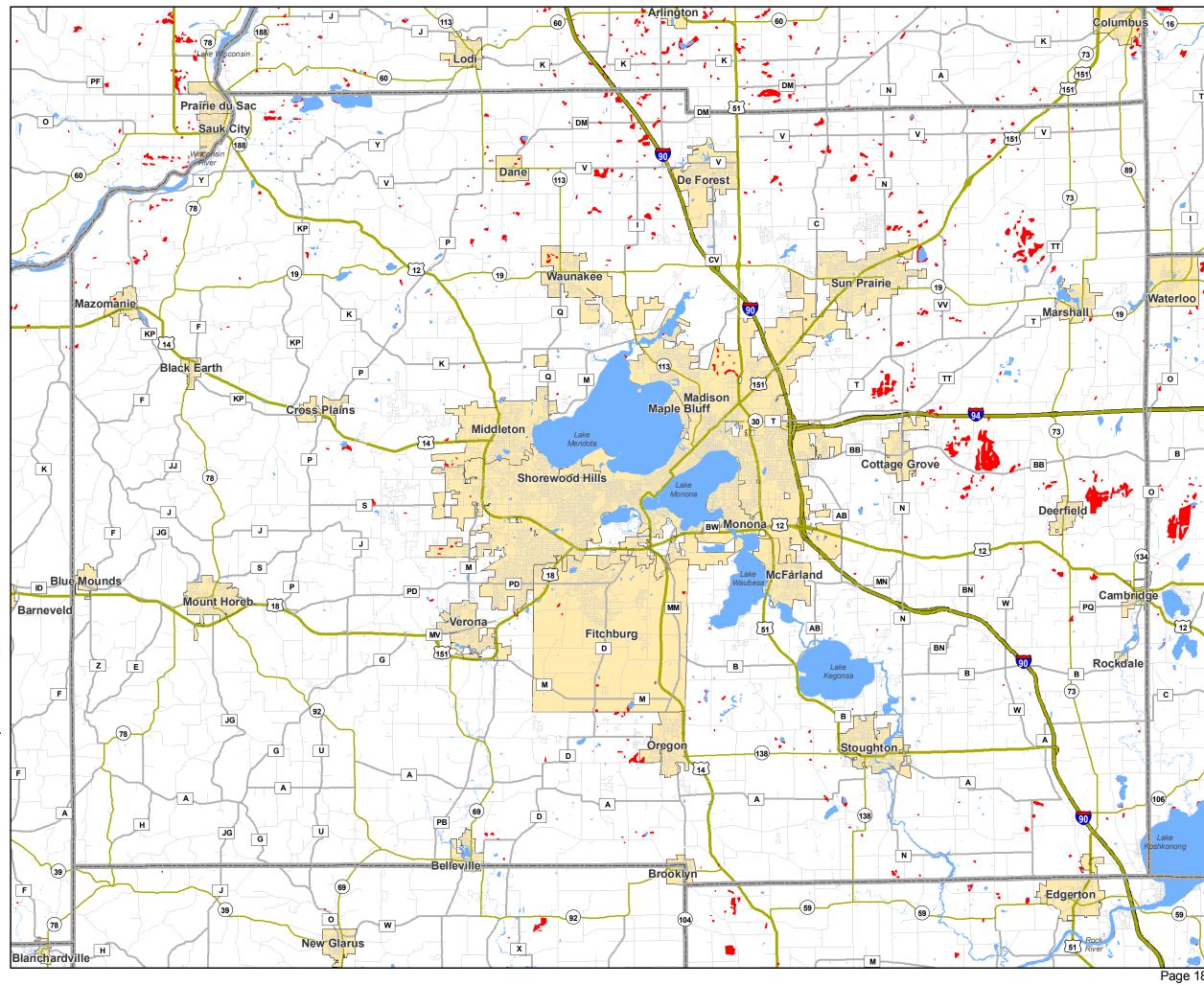




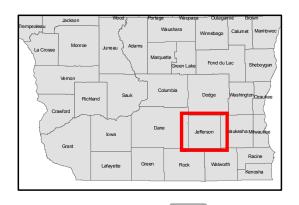
Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Jefferson County Wisconsin



Local Roads
County Highways

State HighwaysInterstates

US Highways

Water

As of 6/15/08

Counties

City/Village Flood Water Status

Flood Water

1:163,834

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.









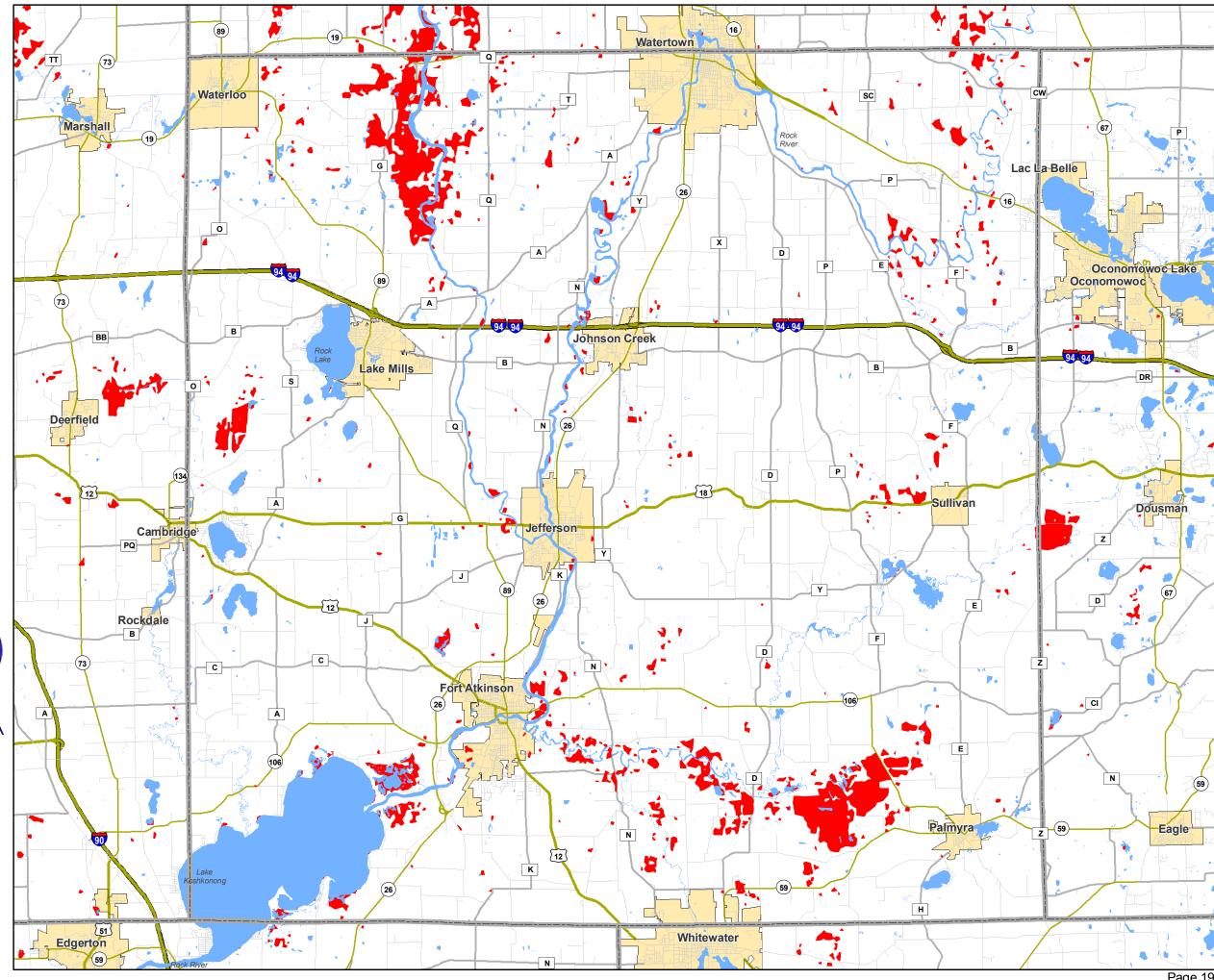


Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management Date: 19 June 08

Time: 0926



FLOOD EXTENT Waukesha County Wisconsin



1:163,687

County Highways

State Highways

Interstates

US Highways

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City/Village **Flood Water Status**

Flood Water

Water

As of 6/15/08



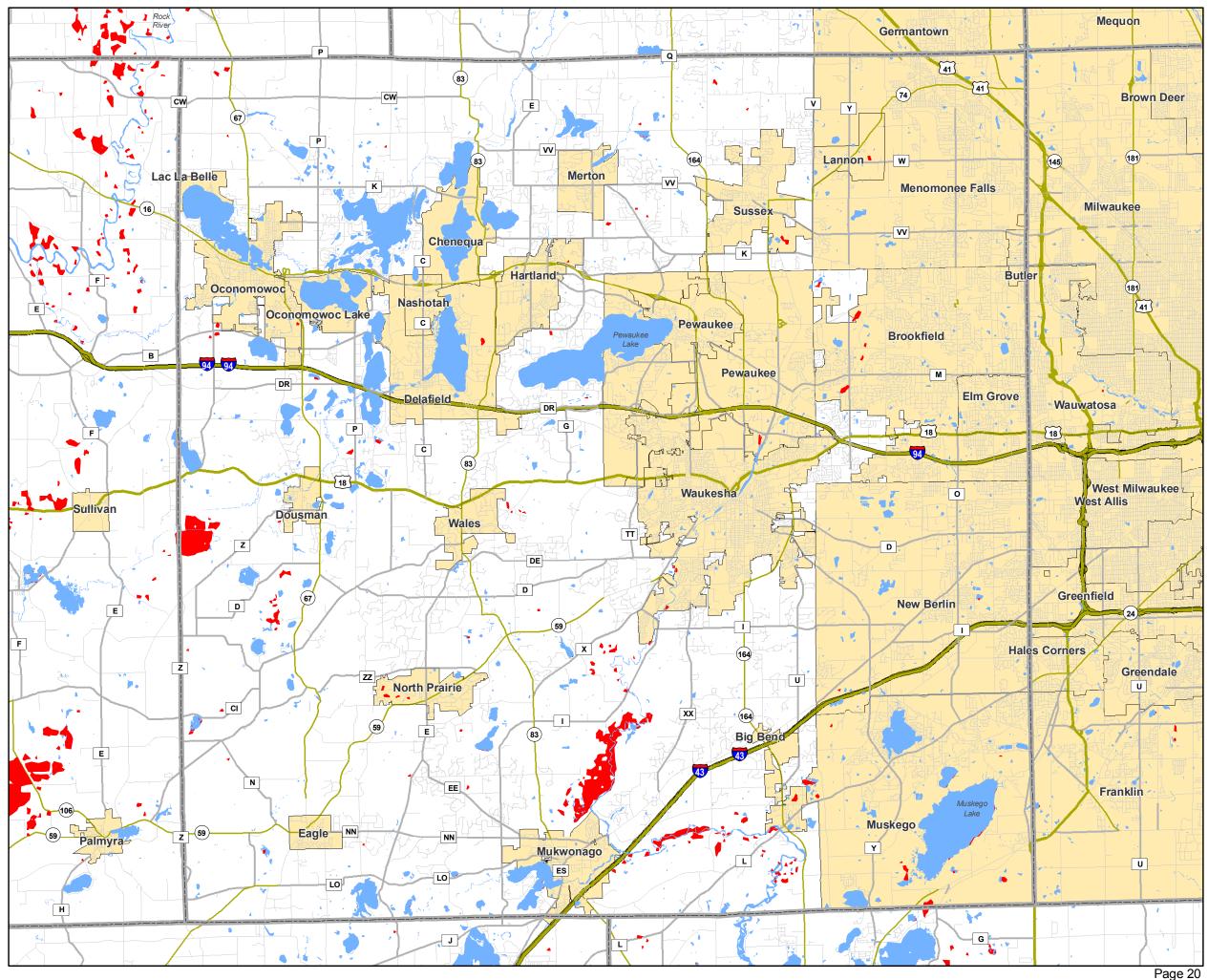




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Wisconsin Emergency Management



FLOOD EXTENT Milwaukee County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways

Interstates US Highways

As of 6/15/08

Flood Water

Water



1:161,879

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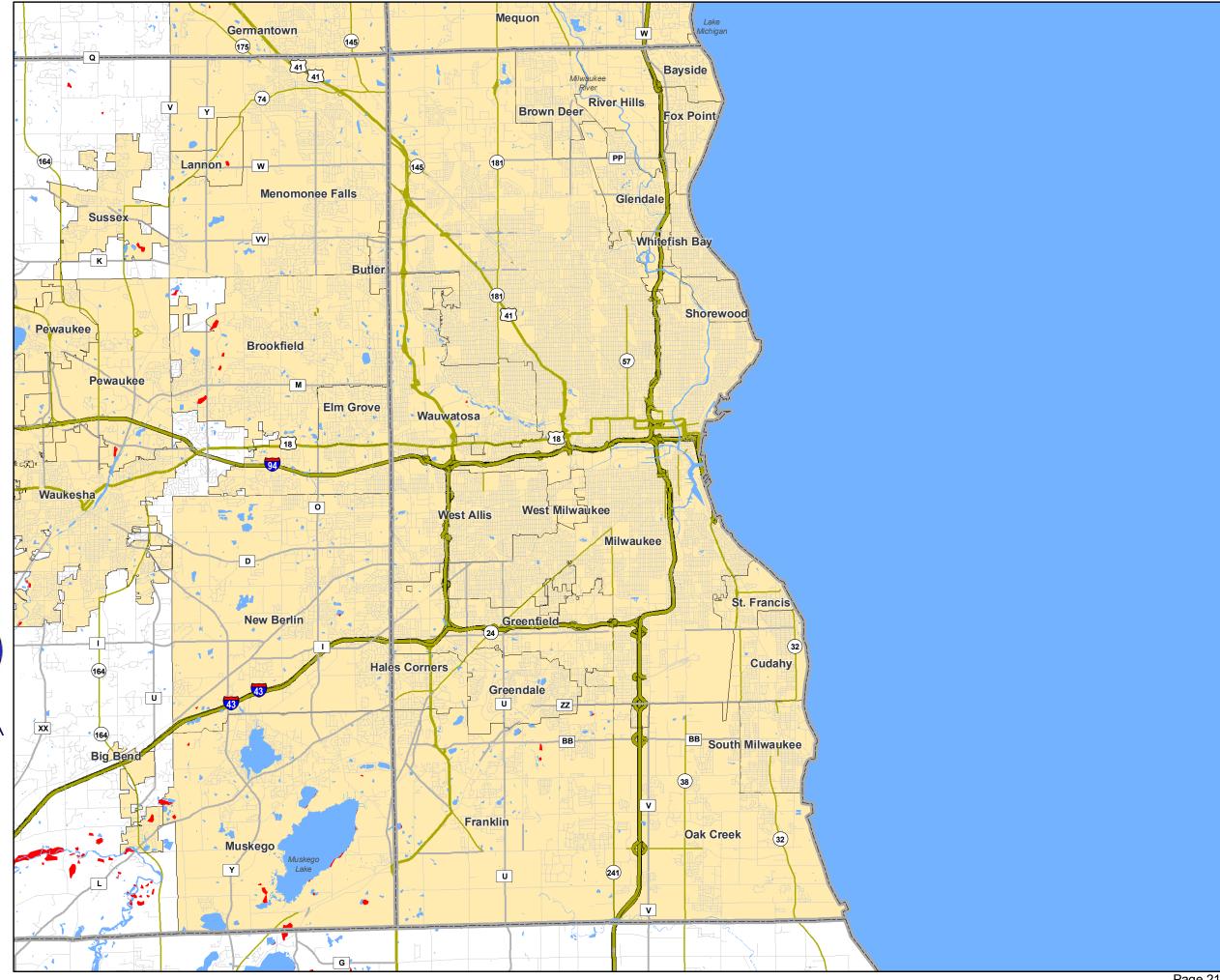


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Wisconsin Emergency Management Date: 19 June 08

Time: 0926



FLOOD EXTENT Lafayette County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water US Highways Water

1:161,817

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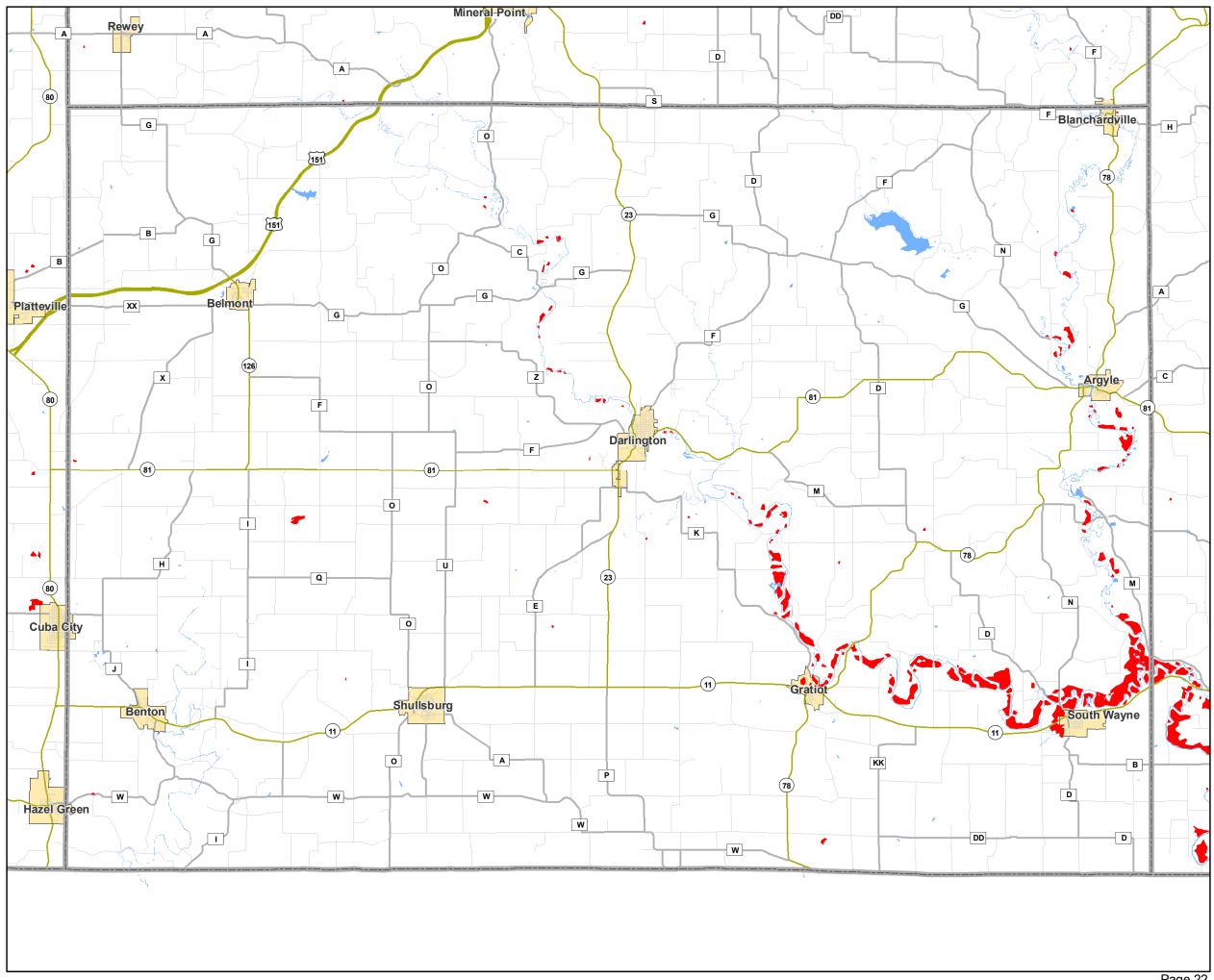




Canadian Space Agency/Agence spatiale canadienne (2008)

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Wisconsin Emergency Management



FLOOD EXTENT Green County Wisconsin



Local Roads County Highways

State Highways Interstates

US Highways

Water

As of 6/15/08

City/Village **Flood Water Status**

Flood Water

1:163,834

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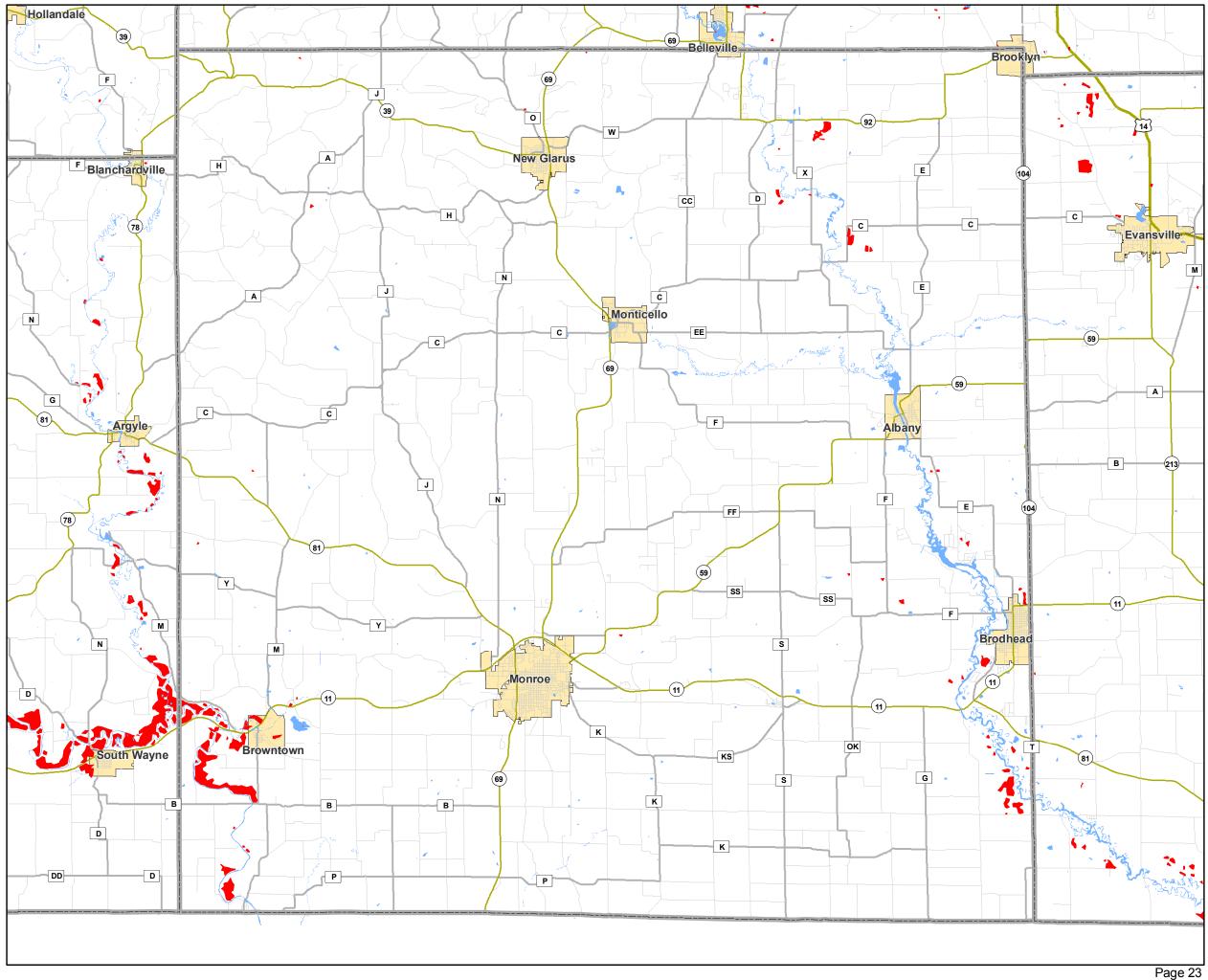




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Wisconsin Emergency Management



FLOOD EXTENT Rock County Wisconsin



Local Roads Counties County Highways City/Village **Flood Water Status** State Highways As of 6/15/08 Interstates Flood Water US Highways

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1:164,338







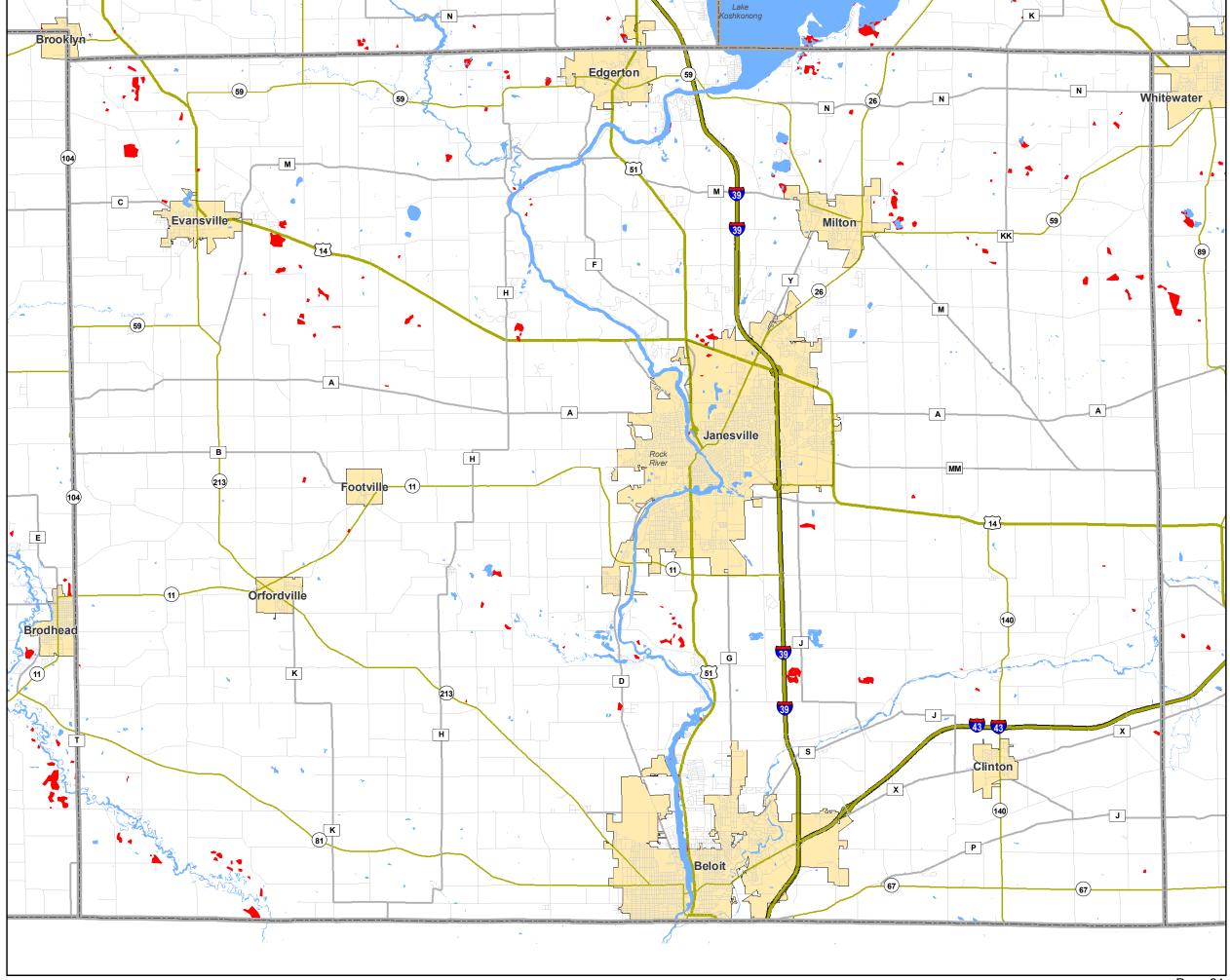
Water





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Wisconsin Emergency Management



FLOOD EXTENT Walworth County Wisconsin



Local Roads Counties County Highways City/Village Flood Water Status State Highways As of 6/15/08 Interstates Flood Water US Highways

1:163,834

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Water



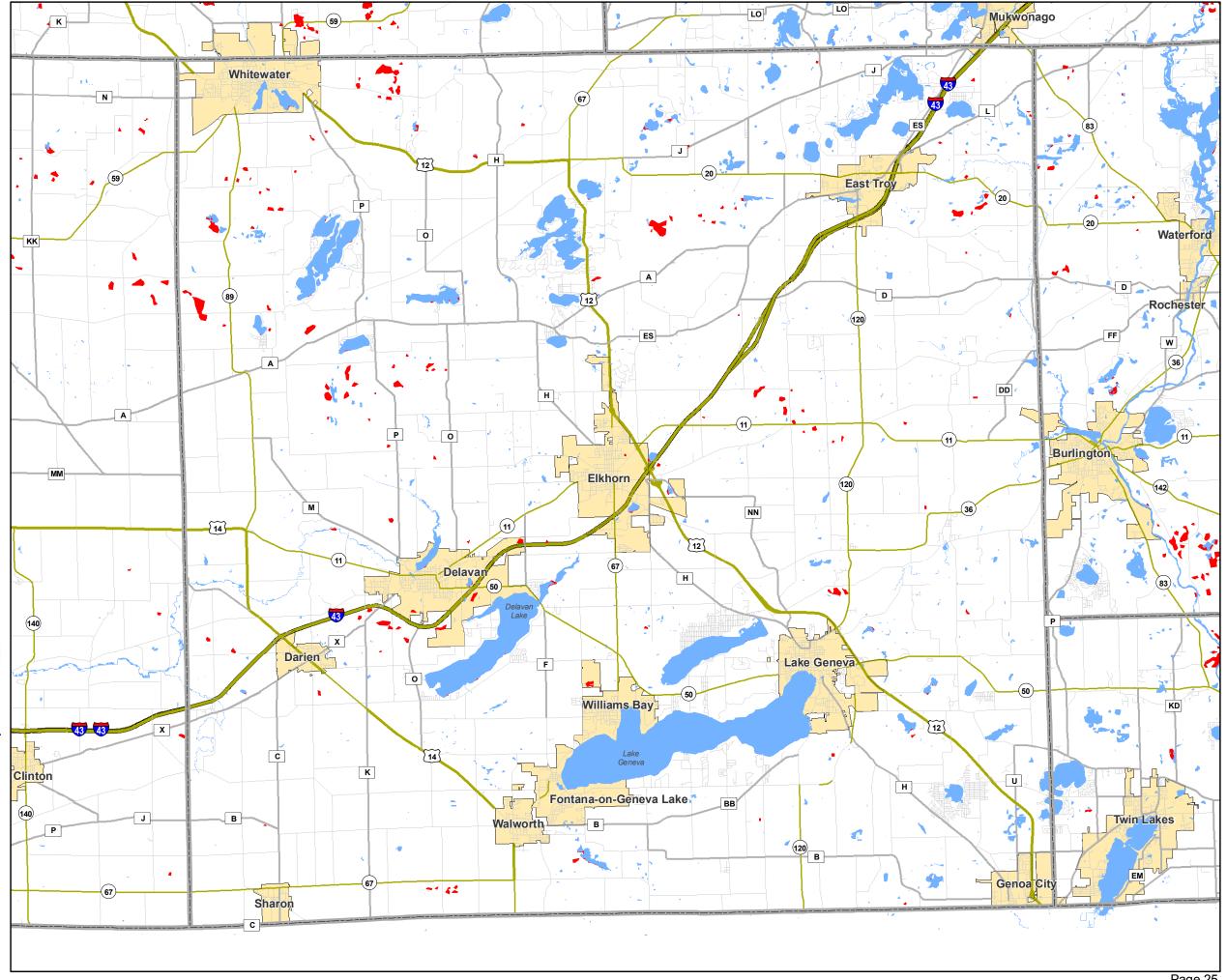




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Wisconsin Emergency Management



FLOOD EXTENT Racine/Kenosha County Wisconsin



County Highways State Highways

Interstates

US Highways

Flood Water Water

As of 6/15/08

City/Village **Flood Water Status**

1:163,330

The red patches on this map were collected with Radarsat-1 and indicate areas of potential flooding. Unlike optical satellites that sense reflected sunlight, Radarsat-1 uses a radar sensor to transmit microwave energy and record the reflected energy. It can image the earth day or night, in any atmospheric condition, such as cloud cover, rain, snow, dust or haze. TheseRadarsat-1 data have a 50 meter resolution and were collected on 6/15/2008.













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