

# 2015-2016 AIS Monitoring Report



## Southwest Badger RC&D (Southern Region) Aquatic Invasive Species Project

AIS Control Grant #AEPP-449-15

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*Codes: RCG-Reed Canary Grass, JH-Japanese Hop, JK-Japanese Knotweed, PL-Purple Loosestrife, CMS-Chinese Mystery Snail, EWM-Eurasian watermilfoil, CLP-Curly leaf pondweed, PH-Non-native Phragmites, RC-Rusty Crayfish, ZM-Zebra Mussel*

### *Annual Monitoring Summary*

Southwest Badger RC&D monitored a total of 97 stream/river/lake sites in the Southern region for the presence of aquatic invasive species (AIS) in 2015. Discrete water bodies such as backwater streams and ponds throughout the five-county region were also monitored for the presence of AIS. Monitoring in 2015 resulted in the writing of one AIS Rapid Response Grant and the identification of at least five priority waterways requiring future attention.

AIS monitoring followed the River Alliance of Wisconsin's Project RED Protocols for "Wet" and "Dry" monitoring. A minimum of five (5) wet sites were completed in each county, and a minimum of ten (10) dry sites were completed per county. Monitoring was conducted by the AIS coordinator with assistance from student volunteers, community members and county conservationists. Locations of monitoring sites were coordinated when possible with DNR long term monitoring sites..

Each county in the Southern region of Southwest Badger's service area will be summarized individually in the following report. The detections reported may or may not describe previously

known AIS in each county. Maps were created using the Wisconsin Department of Natural Resources Surface Water Data Viewer.

### Grant County

In 2015, 17 stream/river sites were monitored in Grant County using “Wet” and “Dry” methods, as outlined by the River Alliance’s Project RED protocols. AIS populations were discovered in sixteen of the 17 waterways (94%), and several sites had more than one aquatic invasive species present. The most common species found was curly leaf pondweed (*Potamogeton crispus*) (detected in 11 waterways), which is listed as an NR 40 restricted species.

Japanese hops (*Humulus japonicus*) was discovered in three watersheds and has been reported in many more. Eurasian watermilfoil was discovered in one, also discovered at seven sites was Reed Canary Grass. There was only two watersheds where no AIS were discovered. Other terrestrial invasive species were also discovered and documented when found as well such as the Aquatic Invasive species Japanese Knotweed.

Work is currently underway to address the Japanese Hops issues in Grant County.

Table 1. 2015 AIS monitoring results for Grant County, WI.

Name	Species Present	Public Fishing Area	Wader Wash Station Present
Platte River	CLP, EWM, RCG	No	No
Crooked Creek	Curly leaf pondweed	No	No
Big Green River	Curly leaf pondweed	Yes	Yes
Blockhouse Creek	Japanese Hops	No	No
Big Patch Creek	Curly leaf pondweed	No	No
Pigeon Creek	CLP, RCG	No	No
Menominee River	CLP, Japanese Hops	No	No
Platte River	None seen	No	No
Little Menominee River	None seen	No	No
McAdams Branch	Curly leaf pondweed	No	No
Little Platte River	CLP, Japanese Hop	No	No
Coon creek	Reed Canary Grass	No	No
Fennimore Fork	Reed Canary Grass	Yes	No
Little Grant River	CLP, RCG	No	No
Big Spring Creek	Curly leaf pondweed	Yes	Yes
Sixmile Branch	Reed Canary Grass	No	No
Mcphearson Branch	CLP, RCG	No	No

### Green County

Monitoring was completed in 22 stream/river/lake sites in Green County in 2015. One aquatic invasive species was found in 18 of the 22 sites (82%). Reed Canary Grass was the most common invader throughout the county, showing up in 18 of the 22 invaded waterways.

Curly leaf pondweed is also abundant in the streams/lakes of Green County, where large populations persist in Cadiz Springs Lake which also has Eurasian water milfoil populations. A large population of Non-Native Phragmites was also discovered on Hammerly Creek. Efforts to write a Rapid Response Grant to control this population are underway and will be completed in 2016. Other suspected species found include a possible population of Japanese Hop which was later identified as Native/Golden Hops, a less aggressive species of Hop. Also found in Green County are medium sized populations of a regulated species Japanese Knotweed.

Table 2. 2015 AIS monitoring results for Green County, WI.

Name	Species Present	Public Fishing Area	Wader Station Present
Whitehead Creek	Reed Canary Grass	No	No
Twin Grove Branch	Reed Canary Grass	No	No
Bushnell Creek	Reed Canary Grass, Curly leaf pondweed	No	No
Daughtery Creek (1) Biggs Rd.	Reed Canary Grass	No	No
Daughtery Creek (2) Prairie View	None Seen	No	No
Sawmill Creek	Reed Canary Grass	No	No
Hefty Creek (1) Disch Rd	Reed Canary Grass	No	No
Hefty Creek (2) Ctr Br	Reed Canary Grass	No	No
Ward Creek	Reed Canary Grass	No	No
Little Sugar River	CLP, RCG	No	No
Gill Creek	Japanese Knotweed, RCG	No	No
Story Creek	(Native Hop)Golden Hops, RCG	Yes	No
Honey Creek	Reed Canary Grass	No	No
Little Richland Creek	None Seen	No	No
Richland Creek	None Seen	No	No
Oakley Branch	CLP, RCG	No	No
Spring Creek	None Seen	No	No
Searles Creek	None Seen	No	No
Hammerly Creek	Phragmites, RCG	No	No
Burgy Creek	Reed Canary Grass	No	No
Elmer School Branch	Reed Canary Grass	No	No
Cadiz Springs Lake	EWM, CLP, RCG	Yes	No

### *Dane County*

Southwest Badger RC&D monitored 15 stream sites in Dane County in 2015. Curly leaf pondweed was found in two of the 15 streams sites (13%).

One population of Purple Loosestrife was rediscovered at Dunlap Creek but the majority of the sites in Dane County had Reed Canary Grass as the main invasive species. This may be a

given for many watershed sites throughout the southwest considering its use for erosion control during the early/late 1970's.

Dane County also has watershed sites that where non-native phragmites have been identified (*Phragmites australis*) but none was found on any of the watersheds sampled for 2015.

Table 3. 2015 AIS monitoring results for Dane County, WI

Name	Species Present	Public Fishing Area	Wader Station Present
Ryan Creek	Reed Canary Grass	No	No
Vermont Creek	Reed Canary Grass	Yes	No
Primrose Branch	Reed Canary Grass	No	No
German Valley	Reed Canary Grass	Yes	No
East Br. Blue Mound Creek	Reed Canary Grass	No	No
West Br. Sugar River	Reed Canary Grass	No	No
Mt Vernon Creek	Reed Canary Grass	Yes	No
Deer Creek	Reed Canary Grass	No	No
Big Spring Creek	Reed Canary Grass	Yes	No
Elvers Creek	Reed Canary Grass	No	No
Kittleson Valley	Reed Canary Grass	Yes	No
Dunlap Creek	RCG, Purple Loosestrife	No	No
Badger Mill Creek	RCG, Curly Leaf Pondweed	No	No
Garfoot Creek	Curly leaf pondweed	Yes	No
Story Creek	Reed Canary Grass	Yes	No

#### Iowa County

AIS monitoring was completed at 26 lake/river/stream sites in Iowa County in 2015. Southwest Badger detected AIS in (92%) of sampled waterbodies. Rusty crayfish *Orconectes rusticus* and curly leaf pondweed were identified in several lake in Iowa County but sparse in many of the streams sampled. Both species have previously been documented throughout the county.

Other known AIS populations in Iowa County include Chinese Mystery Snail (Blackhawk Lake, Twin Valley Lake, Cox Hollow Lake) and Eurasian water milfoil. The most abundant Aquatic Invasive Species found in Iowa County was Reed Canary Grass found in 21 of the 26 sampled waterbodies. Curly leaf pondweed was also an abundant species found in Iowa County waters.

Table 4. 2015 AIS monitoring results for Iowa County, WI.

Name	Species Present	Public Fishing Area	Wader Station Present
Morrey Creek at Sugar Leaf	Reed Canary Grass	No	No

Morrey Creek at Meadow	Reed Canary Grass		
Penn Hollow Creek	None Seen	No	No
Rush Creek Upper Wyoming	Reed Canary Grass	No	No
Dodge Branch Banner Rd	RCG, Japanese Knotweed (Head waters)	No	No
Dodge Branch Twin Bridge	Reed Canary Grass	No	No
Trout Creek (Mill Road)	Curly leaf pondweed	Yes	No
West Branch Blue Mound Creek Frame Rd	Reed Canary Grass	No	No
West Branch Blue Mound Creek Mound park Rd	Reed Canary Grass		
Love Creek	Reed Canary Grass	No	No
Unnamed Creek Trib to Pec.	Reed Canary Grass	No	No
Smith Conley Creek	Reed Canary Grass	No	No
Conley Lewis Creek Hands Hill	Reed Canary Grass	No	No
Conley Lewis Creek Hwy 191	Reed Canary Grass	No	No
Gribble Branch	Reed Canary Grass	No	No
Olson Creek	Reed Canary Grass	No	No
Rock Branch	Reed Canary Grass, Goldfish	No	No
Sudan Branch	None Seen	No	No
Mill Creek	Curley leaf pondweed	No	No
Smokey Hollow Creek	None Seen	No	No
Pompey Pillar Creek	Reed Canary Grass	No	No
Snead Creek	Reed Canary Grass	No	No
Lowery Creek	Reed Canary Grass	No	No
Cox Hollow Lake	RCG, CMS, RC, CLP, EWM	No	No
Twin Valley Lake	RCG, CMS, RC, CLP, EWM	No	No
Blackhawk Lake	RCG, CMS, RC, CLP, EWM (efforts to eliminate)	No	No

### *Lafayette County*

Seventeen (20) stream/river/lake sites were monitored for AIS in Lafayette County using the same protocols outlined earlier in this report. AIS populations were detected in eighteen of the 20 streams (90%), several of which had multiple species. Reed Canary Grass was the most common invader in these waterways, found mostly adjacent to bridges near the access points.

Populations of Japanese knotweed (*Fallopia japonica*) and Japanese Hop persist on the Pecatonica River but none was found in the sampled sites listed. Currently there has been a control project discussed for both species.

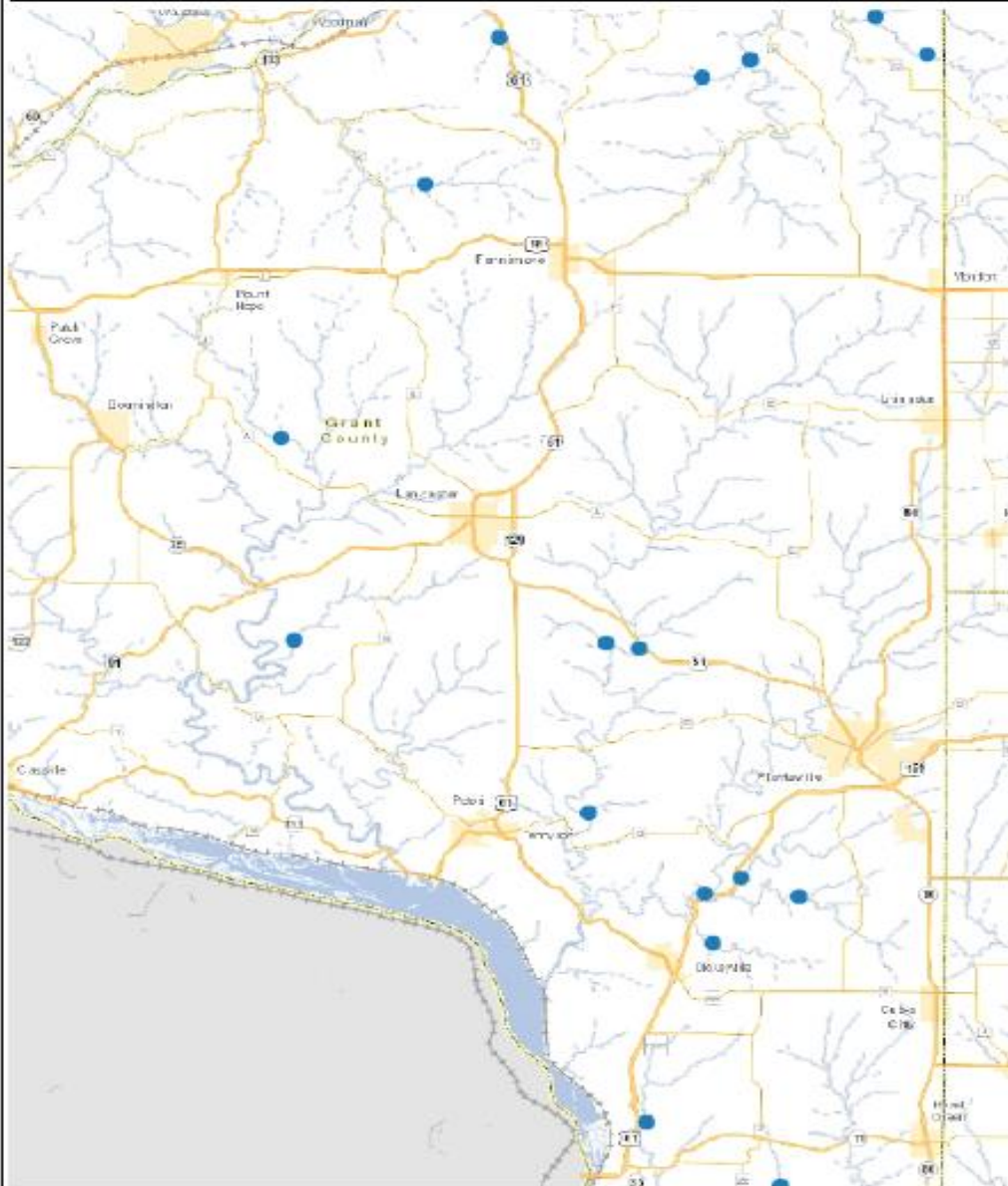
Table 5. 2015 AIS monitoring results for Lafayette County, WI.

Name	Species Present	Public Fishing Area	Wader Station Present
Jones Branch	Reed Canary Grass	No	No
Cannon Creek	Reed Canary Grass	No	No
Gravel Run Creek	RCG, Curly leaf pondweed	No	No
Lovett's Creek	RCG, Curly leaf pondweed	No	No
W. Br. Pecatonica	Reed Canary Grass	No	No
Mineral Point Branch	RCG, Curly leaf pondweed	No	No
Furnace Creek	Reed Canary Grass	No	No
Bonner Branch	None Seen	No	No
Brown Branch	Reed Canary Grass	No	No
Trout Brook Hwy 78	Reed Canary Grass	No	No
Trout Brook Dunbarton Rd.	RCG, Curly leaf pondweed	No	No
Wolf Creek	Reed Canary Grass	No	No
Copper Creek	None Seen	No	No
Tributary to Pecatonica R.(1)	Reed Canary Grass	No	No
Tributary to Pec R. (2)	None Seen	No	No
Turtle Creek	Reed Canary Grass	No	No
Tributary Galena River	Reed Canary Grass	No	No
Steiner Branch	Reed Canary Grass	No	No
Spafford Creek	Reed Canary Grass	No	No
Yellowstone Lake	PL, RC, RCG, CLP	Yes	No





# 2015 AIS Sampling Grant County



**Legend**

- Municipality
- State Boundaries
- County Boundaries

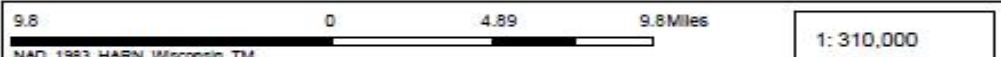
**Major Roads**

- Interstate Highway
- State Highway
- US Highway

**County and Local Roads**

- County HWY
- Local Road

- Railroads
- Tribal Lands



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**Notes**



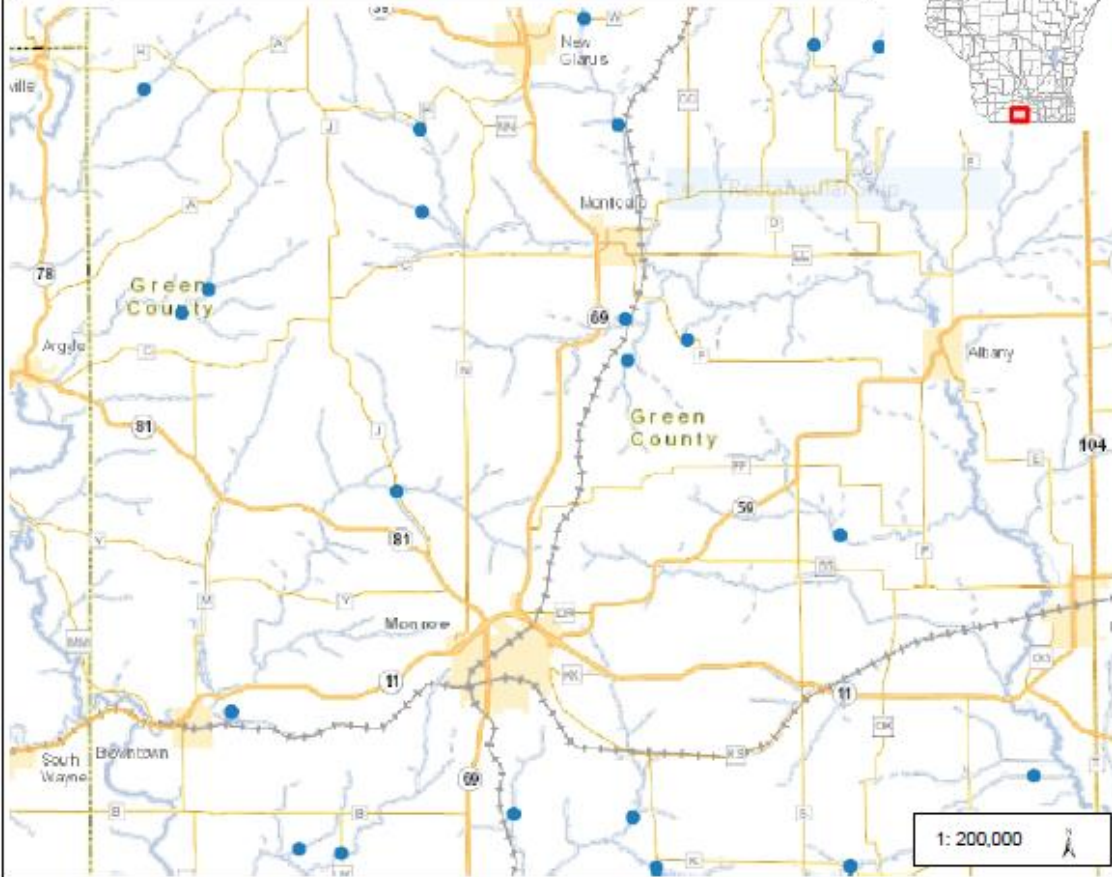


# 2016 AIS Sampling Green County



## Legend

- Municipality
- State Boundaries
- County Boundaries
- Major Roads**
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads**
  - County HWY
  - Local Road
- Railroads
- Tribal Lands



## Notes

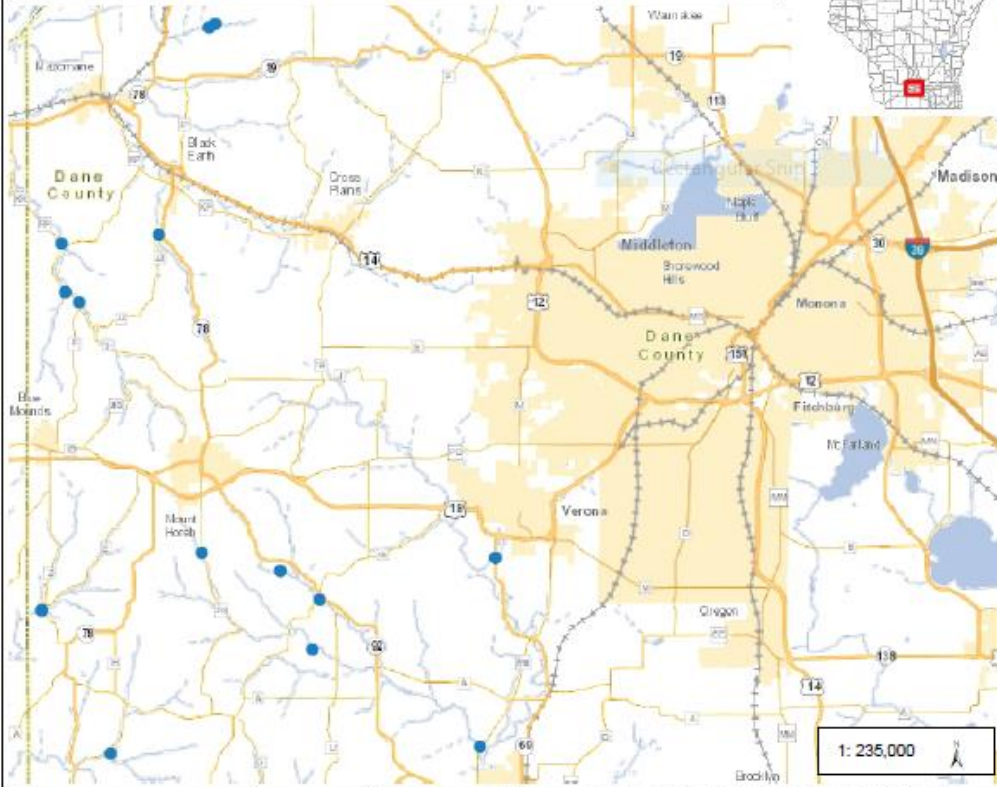
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# 2015 AIS Sampling Dane County



- Legend**
- Municipality
  - State Boundaries
  - County Boundaries
  - Major Roads**
    - Interstate Highway
    - State Highway
    - US Highway
  - County and Local Roads**
    - County HWY
    - Local Road
  - Railroads
  - Tribal Lands

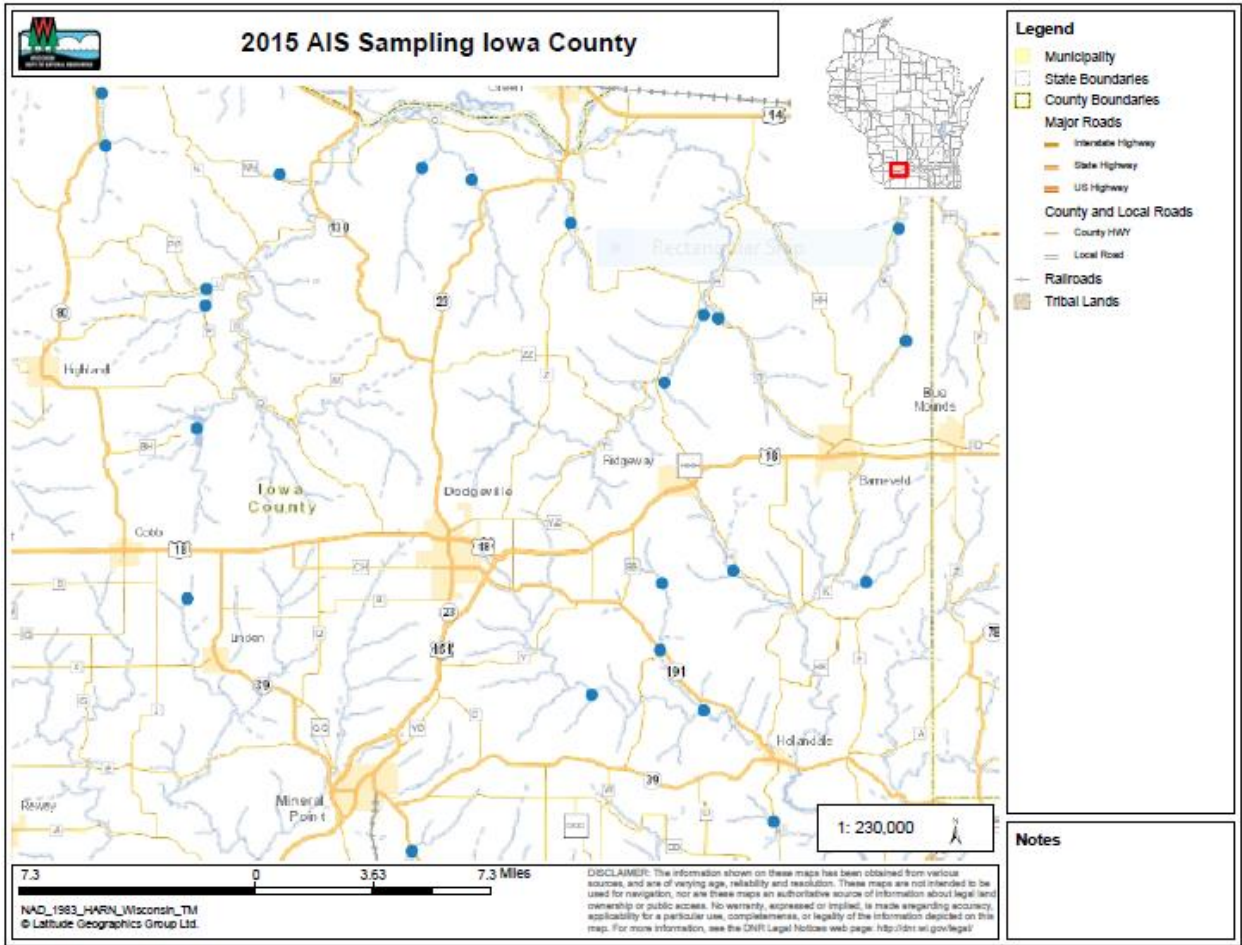
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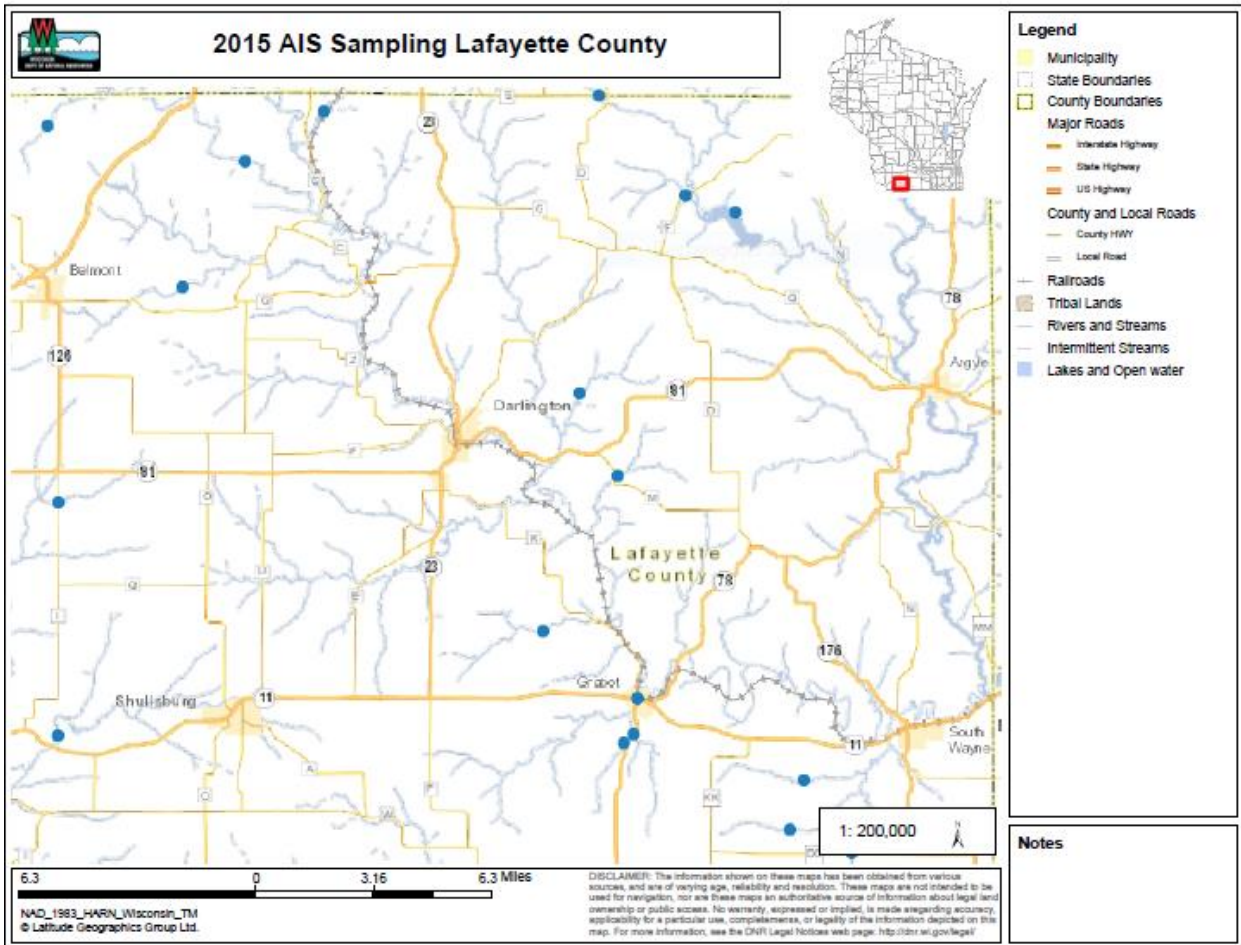
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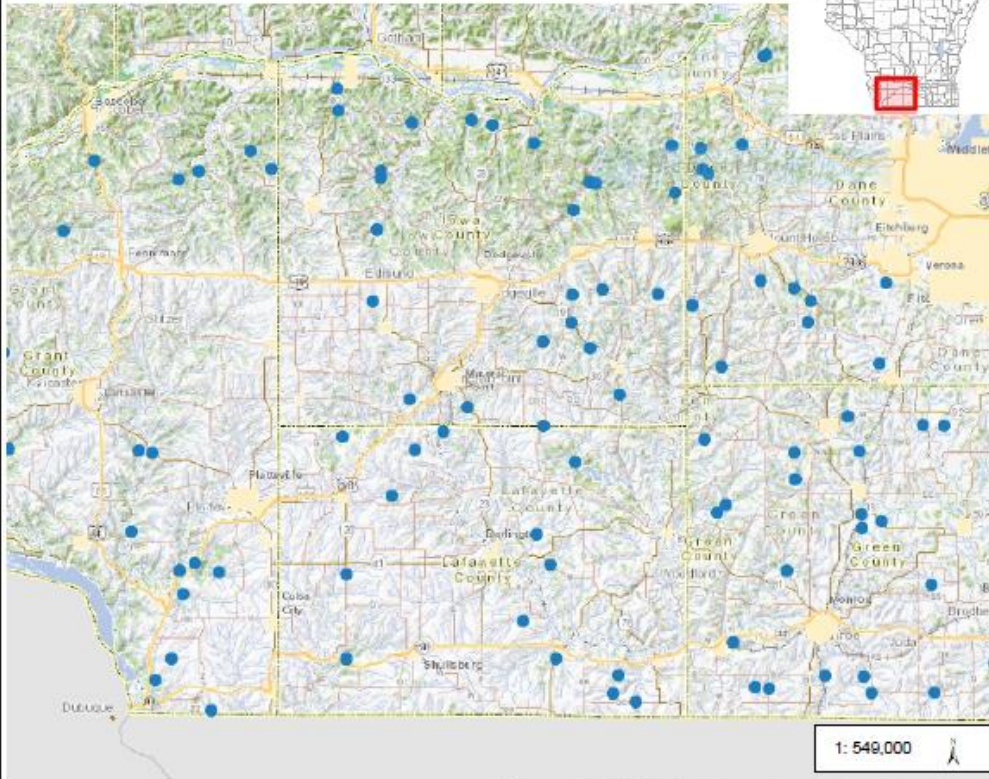






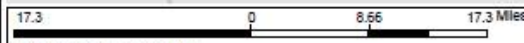


## 2015 AIS Sampling Dane, Grant, Green, Iowa, Lafayette Counties



- Legend**
- Municipality
  - State Boundaries
  - County Boundaries
  - Major Roads**
  - Interstate Highway
  - State Highway
  - US Highway
  - County and Local Roads**
  - County HWY
  - Local Road
  - Railroads
  - Tribal Lands

1: 549,000



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