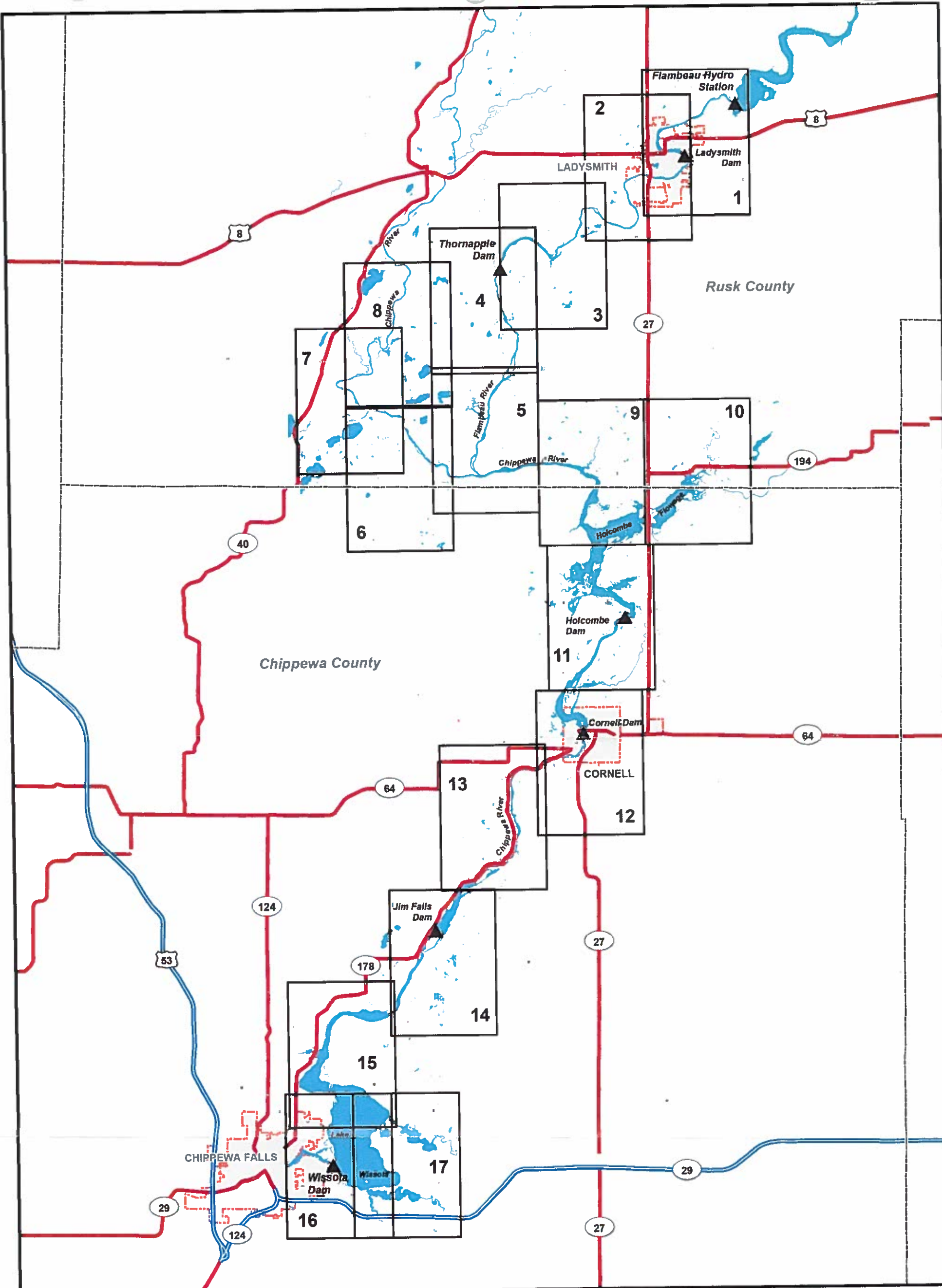
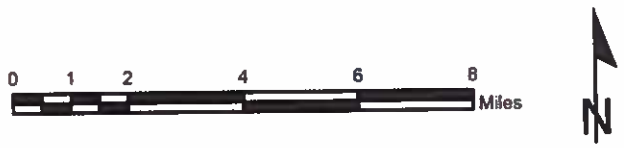




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NOTE: The limits of flooding and the travel times shown on this map are approximate and should be used solely as a guideline for establishing evacuation zones. The actual evacuation zones may be greater or smaller than the flooded area shown on the map. Actual evacuation zones should be determined by local officials responsible for establishing specific evacuation procedures.

Data Source: Base map image from USDA-FSA, Orthoimagery for Rusk and Chippewa Counties, Wisconsin (<https://gis.apfo.usda.gov/arcgis/services/>), 2015, 1 m

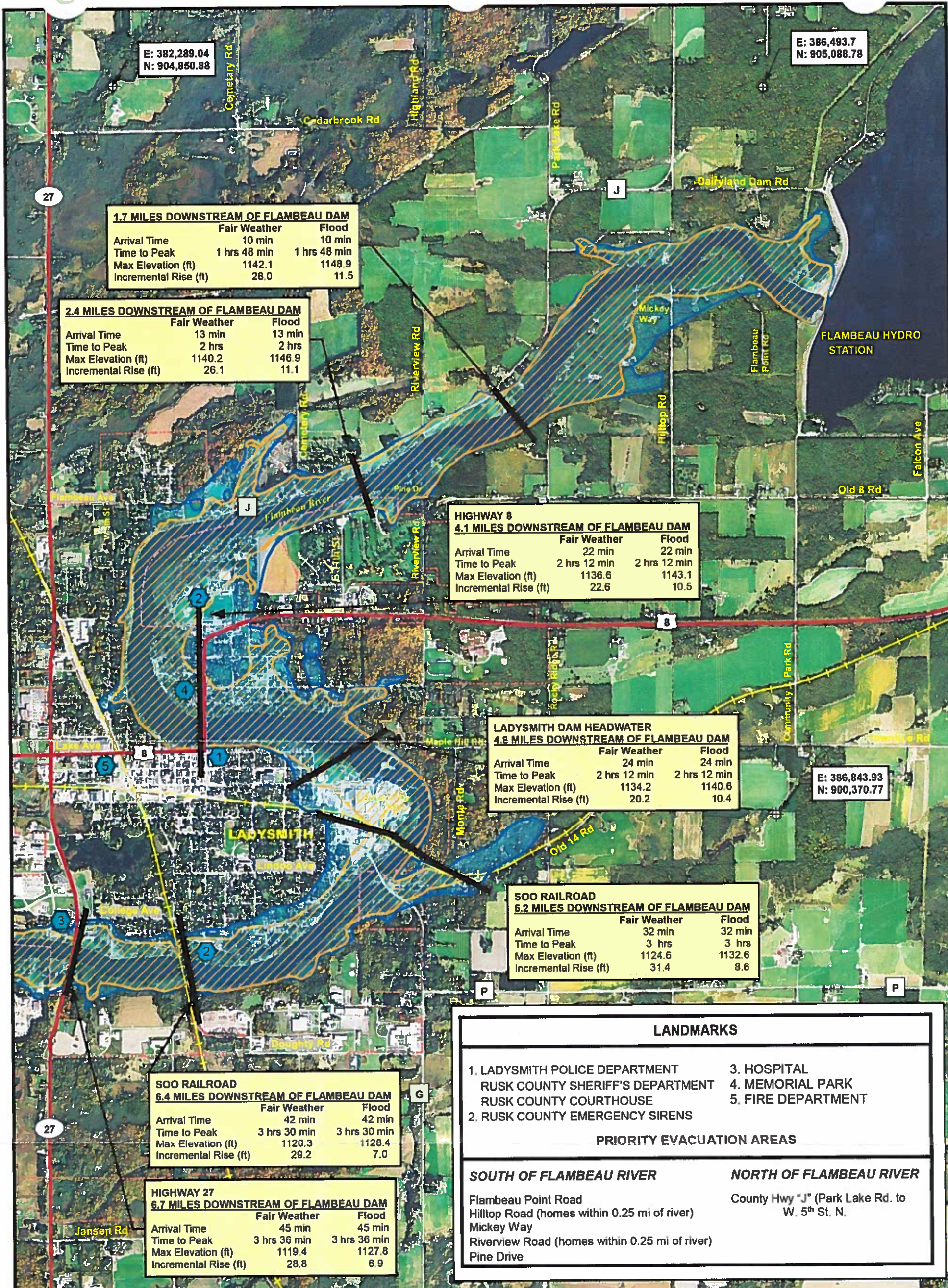
- Legend**
- ▲ Dams
  - ▬ Limited Access
  - ▬ Major Highway
  - ▬ City Boundary
  - ▬ Open Water
  - ▬ County Boundary

### Inundation Map for Failure of Flambeau Dam

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016



**KEYSHEET**



E: 382,289.04  
N: 904,850.88

E: 386,493.7  
N: 905,088.78

**1.7 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 10 min       | 10 min       |
| Time to Peak          | 1 hrs 48 min | 1 hrs 48 min |
| Max Elevation (ft)    | 1142.1       | 1148.9       |
| Incremental Rise (ft) | 28.0         | 11.5         |

**2.4 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       | Fair Weather | Flood  |
|-----------------------|--------------|--------|
| Arrival Time          | 13 min       | 13 min |
| Time to Peak          | 2 hrs        | 2 hrs  |
| Max Elevation (ft)    | 1140.2       | 1146.9 |
| Incremental Rise (ft) | 26.1         | 11.1   |

**HIGHWAY 8  
4.1 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 22 min       | 22 min       |
| Time to Peak          | 2 hrs 12 min | 2 hrs 12 min |
| Max Elevation (ft)    | 1136.6       | 1143.1       |
| Incremental Rise (ft) | 22.6         | 10.5         |

**LADYSMITH DAM HEADWATER  
4.8 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 24 min       | 24 min       |
| Time to Peak          | 2 hrs 12 min | 2 hrs 12 min |
| Max Elevation (ft)    | 1134.2       | 1140.6       |
| Incremental Rise (ft) | 20.2         | 10.4         |

E: 386,843.93  
N: 900,370.77

**SOO RAILROAD  
5.2 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       | Fair Weather | Flood  |
|-----------------------|--------------|--------|
| Arrival Time          | 32 min       | 32 min |
| Time to Peak          | 3 hrs        | 3 hrs  |
| Max Elevation (ft)    | 1124.6       | 1132.6 |
| Incremental Rise (ft) | 31.4         | 8.6    |

**SOO RAILROAD  
6.4 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 42 min       | 42 min       |
| Time to Peak          | 3 hrs 30 min | 3 hrs 30 min |
| Max Elevation (ft)    | 1120.3       | 1128.4       |
| Incremental Rise (ft) | 29.2         | 7.0          |

**HIGHWAY 27  
6.7 MILES DOWNSTREAM OF FLAMBEAU DAM**

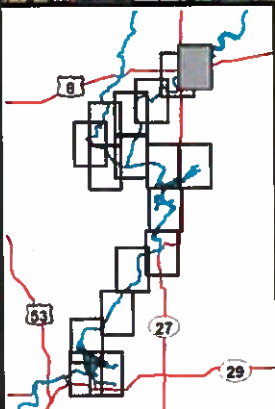
|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 45 min       | 45 min       |
| Time to Peak          | 3 hrs 36 min | 3 hrs 36 min |
| Max Elevation (ft)    | 1119.4       | 1127.8       |
| Incremental Rise (ft) | 28.8         | 6.9          |

**LANDMARKS**

- |                                  |                    |
|----------------------------------|--------------------|
| 1. LADYSMITH POLICE DEPARTMENT   | 3. HOSPITAL        |
| RUSK COUNTY SHERIFF'S DEPARTMENT | 4. MEMORIAL PARK   |
| RUSK COUNTY COURTHOUSE           | 5. FIRE DEPARTMENT |
| 2. RUSK COUNTY EMERGENCY SIRENS  |                    |

**PRIORITY EVACUATION AREAS**

| SOUTH OF FLAMBEAU RIVER                        | NORTH OF FLAMBEAU RIVER                                     |
|------------------------------------------------|-------------------------------------------------------------|
| Flambeau Point Road                            | County Hwy "J" (Park Lake Rd. to W. 5 <sup>th</sup> St. N.) |
| Hilltop Road (homes within 0.25 mi of river)   |                                                             |
| Mickey Way                                     |                                                             |
| Riverview Road (homes within 0.25 mi of river) |                                                             |
| Pine Drive                                     |                                                             |



**NOTE:** The limits of flooding and the travel times shown on this map are approximate and should be used solely as a guideline for establishing evacuation zones. The actual evacuation zones may be greater or smaller than the flooded area shown on the map. Actual evacuation zones should be determined by local officials responsible for establishing specific evacuation procedures.

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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
| Landmark        | County Boundary |

0 500 1,000 2,000 3,000 4,000 Feet

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 1 OF 17**

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LANDMARKS

1. LADYSMITH POLICE DEPARTMENT

RUSK COUNTY SHERIFF'S DEPARTMENT

RUSK COUNTY COURTHOUSE

2. RUSK COUNTY EMERGENCY SIRENS
3. HOSPITAL

4. MEMORIAL PARK

5. FIRE DEPARTMENT

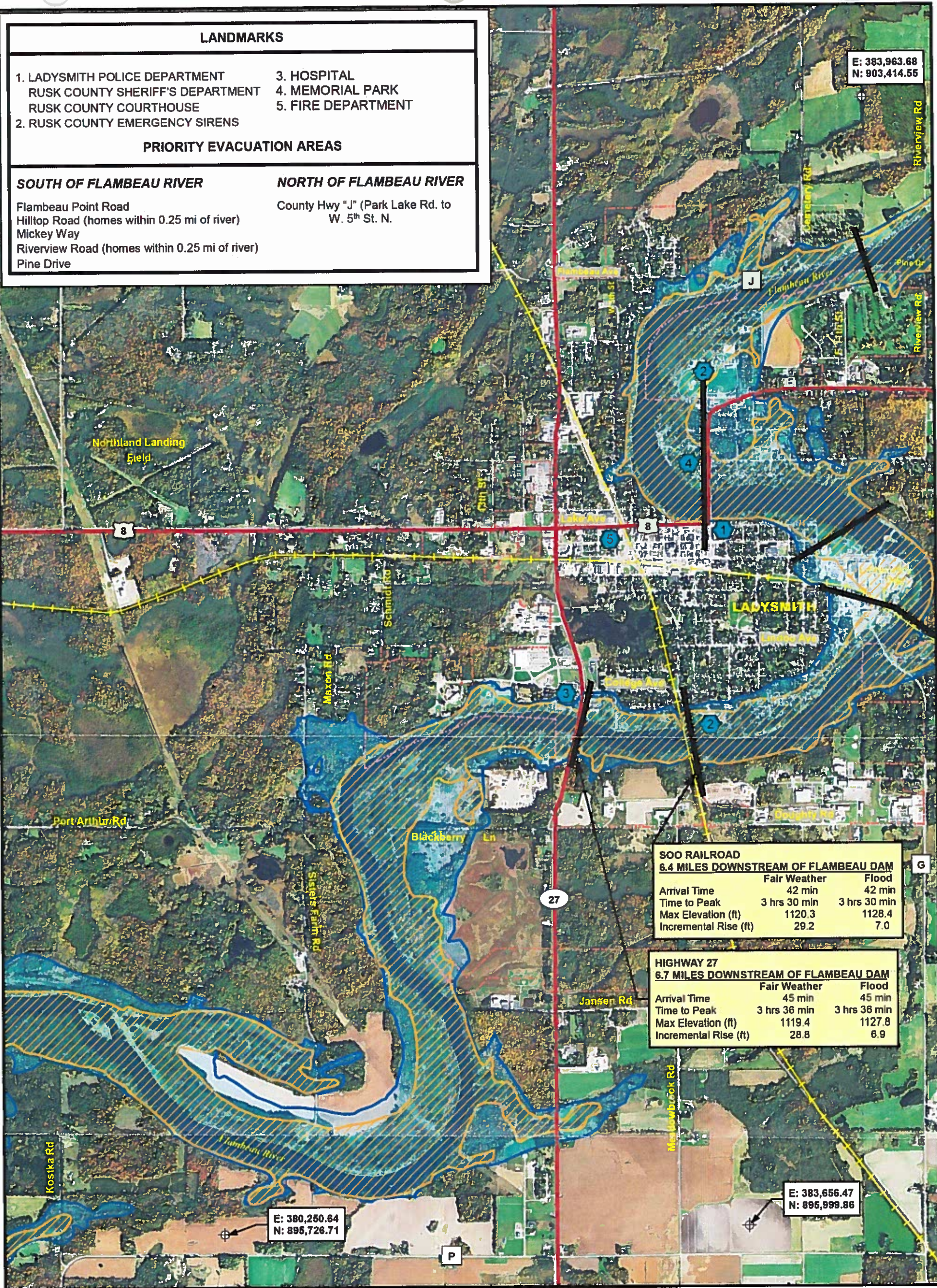
PRIORITY EVACUATION AREAS

SOUTH OF FLAMBEAU RIVER

Flambeau Point Road  
Hilltop Road (homes within 0.25 mi of river)  
Mickey Way  
Riverview Road (homes within 0.25 mi of river)  
Pine Drive

NORTH OF FLAMBEAU RIVER

County Hwy "J" (Park Lake Rd. to  
W. 5th St. N.

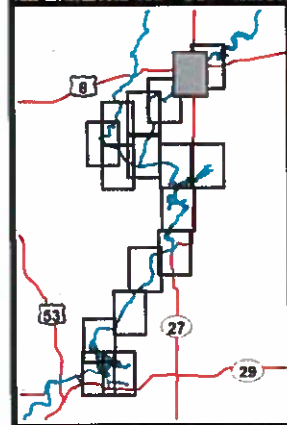


**SOO RAILROAD**  
6.4 MILES DOWNSTREAM OF FLAMBEAU DAM

|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 42 min       | 42 min       |
| Time to Peak          | 3 hrs 30 min | 3 hrs 30 min |
| Max Elevation (ft)    | 1120.3       | 1128.4       |
| Incremental Rise (ft) | 29.2         | 7.0          |

**HIGHWAY 27**  
6.7 MILES DOWNSTREAM OF FLAMBEAU DAM

|                       | Fair Weather | Flood        |
|-----------------------|--------------|--------------|
| Arrival Time          | 45 min       | 45 min       |
| Time to Peak          | 3 hrs 36 min | 3 hrs 36 min |
| Max Elevation (ft)    | 1119.4       | 1127.8       |
| Incremental Rise (ft) | 28.8         | 6.9          |



**Map Sheet Index**

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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

- Flood Failure
- Fair Weather
- Cross Section
- Reference Point
- Landmark
- Limited Access
- Highway
- Railroads
- City Boundary
- County Boundary

0 500 1,000 2,000 3,000 4,000 Feet

N

**Inundation Map for Failure of Flambeau Dam**

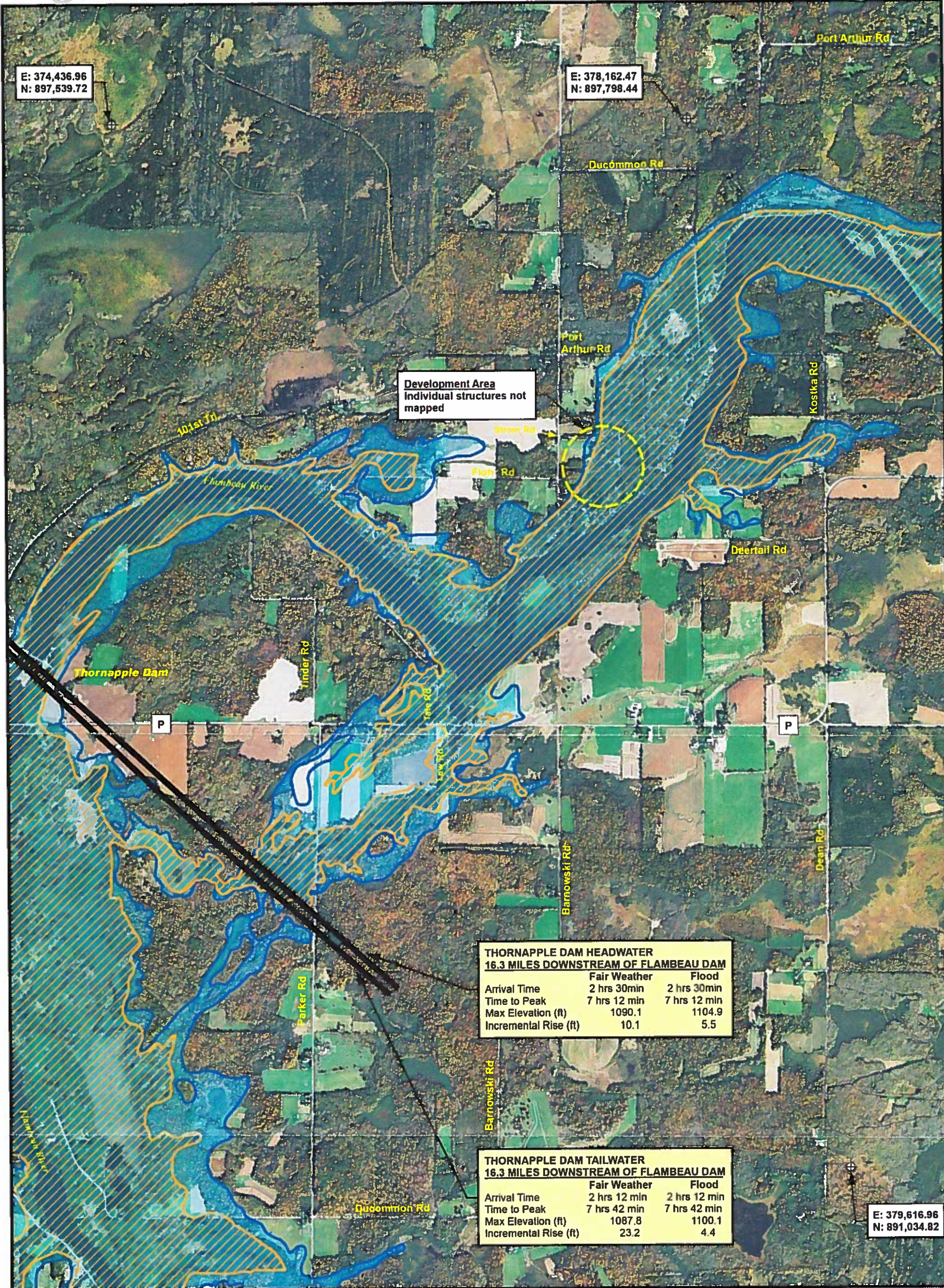
Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**Mead & Hunt**

**DAIRYLAND POWER COOPERATIVE**

**SHEET 2 OF 17**

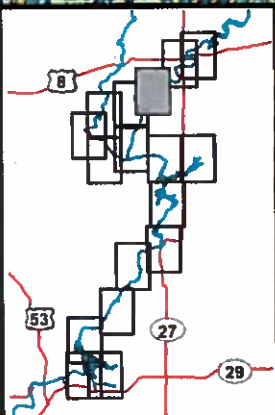
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| THORNAPPLE DAM HEADWATER<br>16.3 MILES DOWNSTREAM OF FLAMBEAU DAM |              |              |
|-------------------------------------------------------------------|--------------|--------------|
|                                                                   | Fair Weather | Flood        |
| Arrival Time                                                      | 2 hrs 30min  | 2 hrs 30min  |
| Time to Peak                                                      | 7 hrs 12 min | 7 hrs 12 min |
| Max Elevation (ft)                                                | 1090.1       | 1104.9       |
| Incremental Rise (ft)                                             | 10.1         | 5.5          |

| THORNAPPLE DAM TAILWATER<br>16.3 MILES DOWNSTREAM OF FLAMBEAU DAM |              |              |
|-------------------------------------------------------------------|--------------|--------------|
|                                                                   | Fair Weather | Flood        |
| Arrival Time                                                      | 2 hrs 12 min | 2 hrs 12 min |
| Time to Peak                                                      | 7 hrs 42 min | 7 hrs 42 min |
| Max Elevation (ft)                                                | 1087.8       | 1100.1       |
| Incremental Rise (ft)                                             | 23.2         | 4.4          |

E: 379,616.96  
N: 891,034.82



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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

0 500 1,000 2,000 3,000 4,000 Feet

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 3 OF 17**

| THORNAPPLE DAM HEADWATER<br>16.3 MILES DOWNSTREAM OF FLAMBEAU DAM |              |              |
|-------------------------------------------------------------------|--------------|--------------|
|                                                                   | Fair Weather | Flood        |
| Arrival Time                                                      | 2 hrs 30min  | 2 hrs 30min  |
| Time to Peak                                                      | 7 hrs 12 min | 7 hrs 12 min |
| Max Elevation (ft)                                                | 1090.1       | 1104.9       |
| Incremental Rise (ft)                                             | 10.1         | 5.5          |

| THORNAPPLE DAM TAILWATER<br>16.3 MILES DOWNSTREAM OF FLAMBEAU DAM |              |              |
|-------------------------------------------------------------------|--------------|--------------|
|                                                                   | Fair Weather | Flood        |
| Arrival Time                                                      | 2 hrs 12 min | 2 hrs 12 min |
| Time to Peak                                                      | 7 hrs 42 min | 7 hrs 42 min |
| Max Elevation (ft)                                                | 1087.8       | 1100.1       |
| Incremental Rise (ft)                                             | 23.2         | 4.4          |

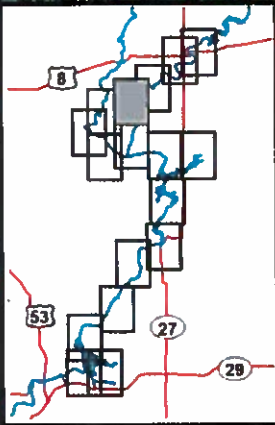
E: 371,829.76  
N: 893,589.37

E: 375,415.29  
N: 894,236.98

E: 372,025.80  
N: 890,027.14

Downstream Limit of 2-foot  
Rise due to Failure  
During Extreme Flood

CONTINUED ON SHEET 3



Map Sheet Index

NOTE: The limits of flooding and the travel times shown on this map are approximate and should be used solely as a guideline for establishing evacuation zones. The actual evacuation zones may be greater or smaller than the flooded area shown on the map. Actual evacuation zones should be determined by local officials responsible for establishing specific evacuation procedures.

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**Legend**

- Flood Failure
- Fair Weather
- Cross Section
- Reference Point
- Limited Access
- Highway
- Railroads
- City Boundary
- County Boundary

0 500 1,000 2,000 3,000 4,000 Feet

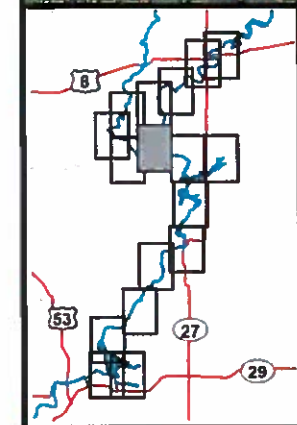
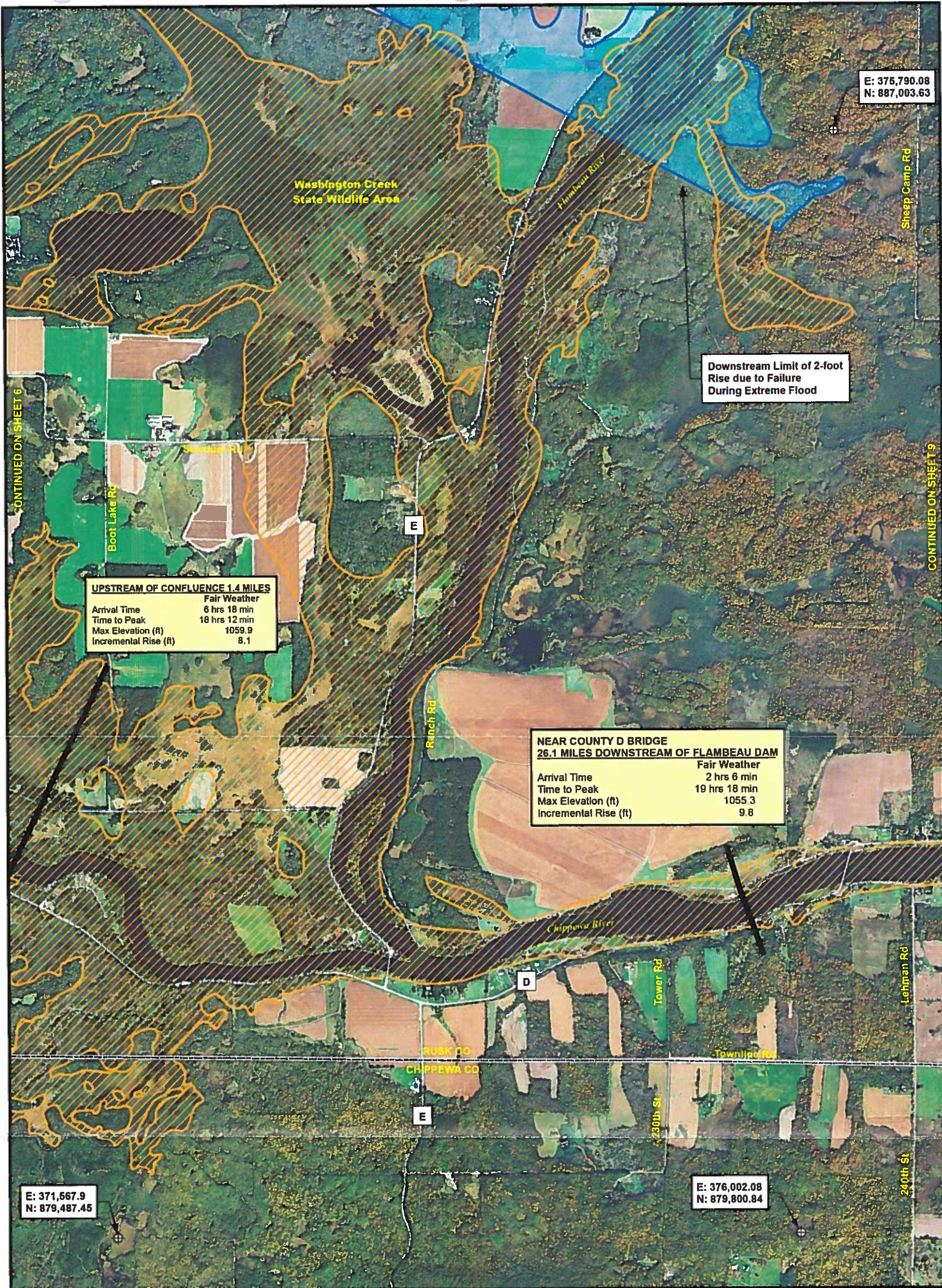
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### Inundation Map for Failure of Flambeau Dam

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 4 OF 17**

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**Map Sheet Index**

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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

- Flood Failure
- Fair Weather
- Cross Section
- Reference Point
- Limited Access
- Highway
- Railroads
- City Boundary
- County Boundary

0 500 1,000 2,000 3,000 4,000 Feet

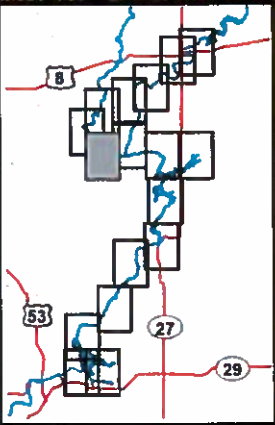
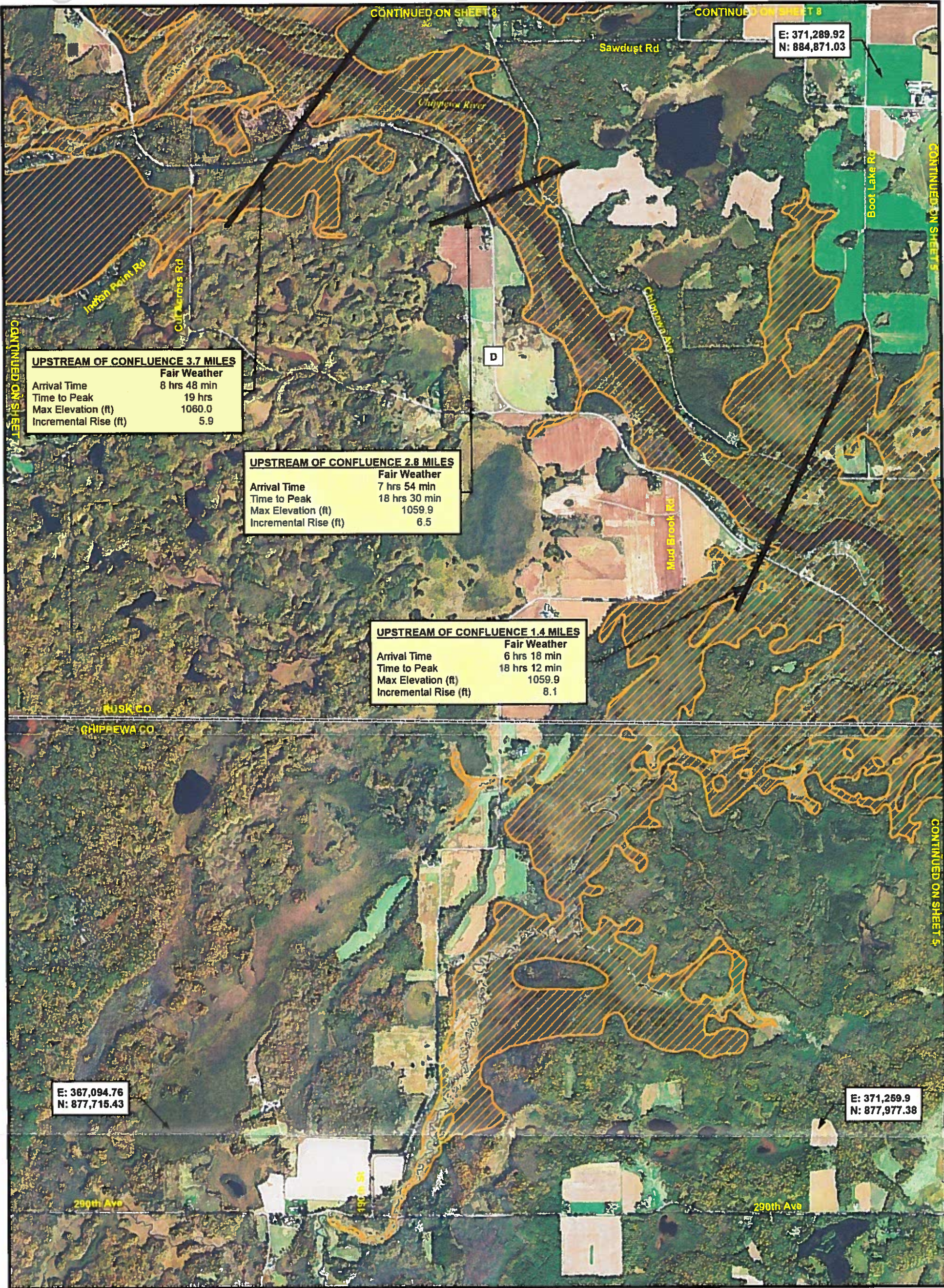
**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**Mead & Hunt**

**DAIRYLAND POWER COOPERATIVE**

**SHEET 5 OF 17**



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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

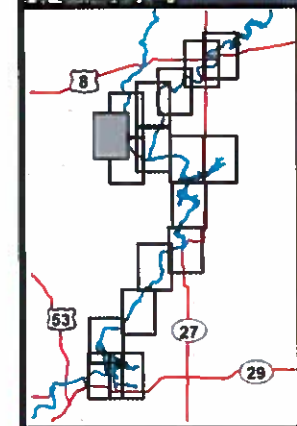
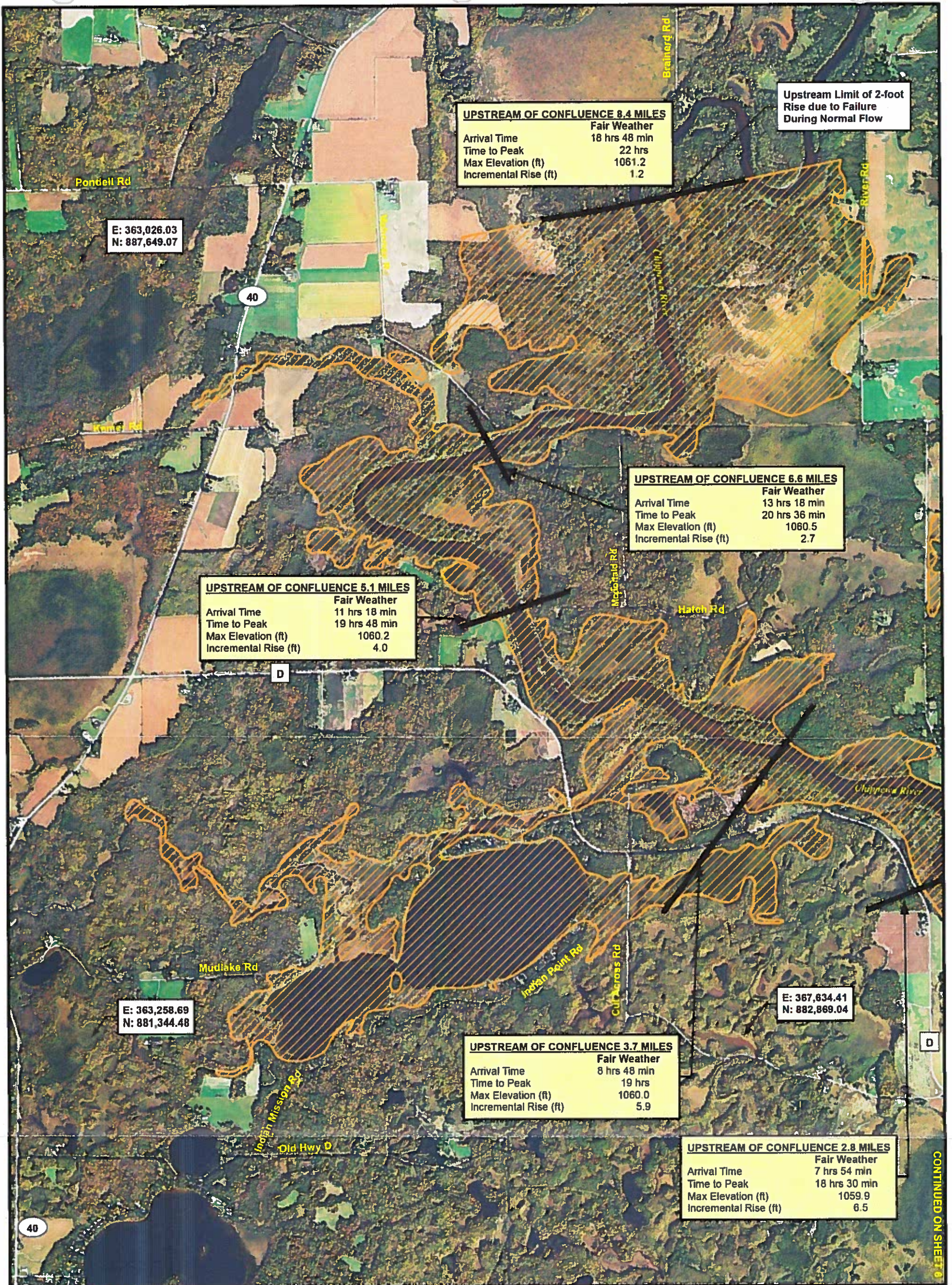
0 500 1,000 2,000 3,000 4,000 Feet

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 6 OF 17**

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**Map Sheet Index**

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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

- Flood Failure
- Fair Weather
- Cross Section
- Reference Point
- Limited Access
- Highway
- Railroads
- City Boundary
- County Boundary

0 500 1,000 2,000 3,000 4,000 Feet

N

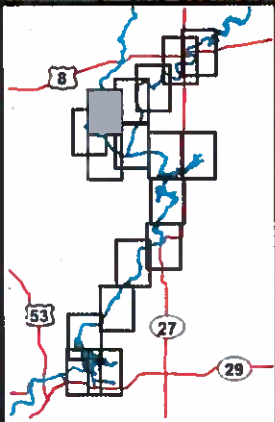
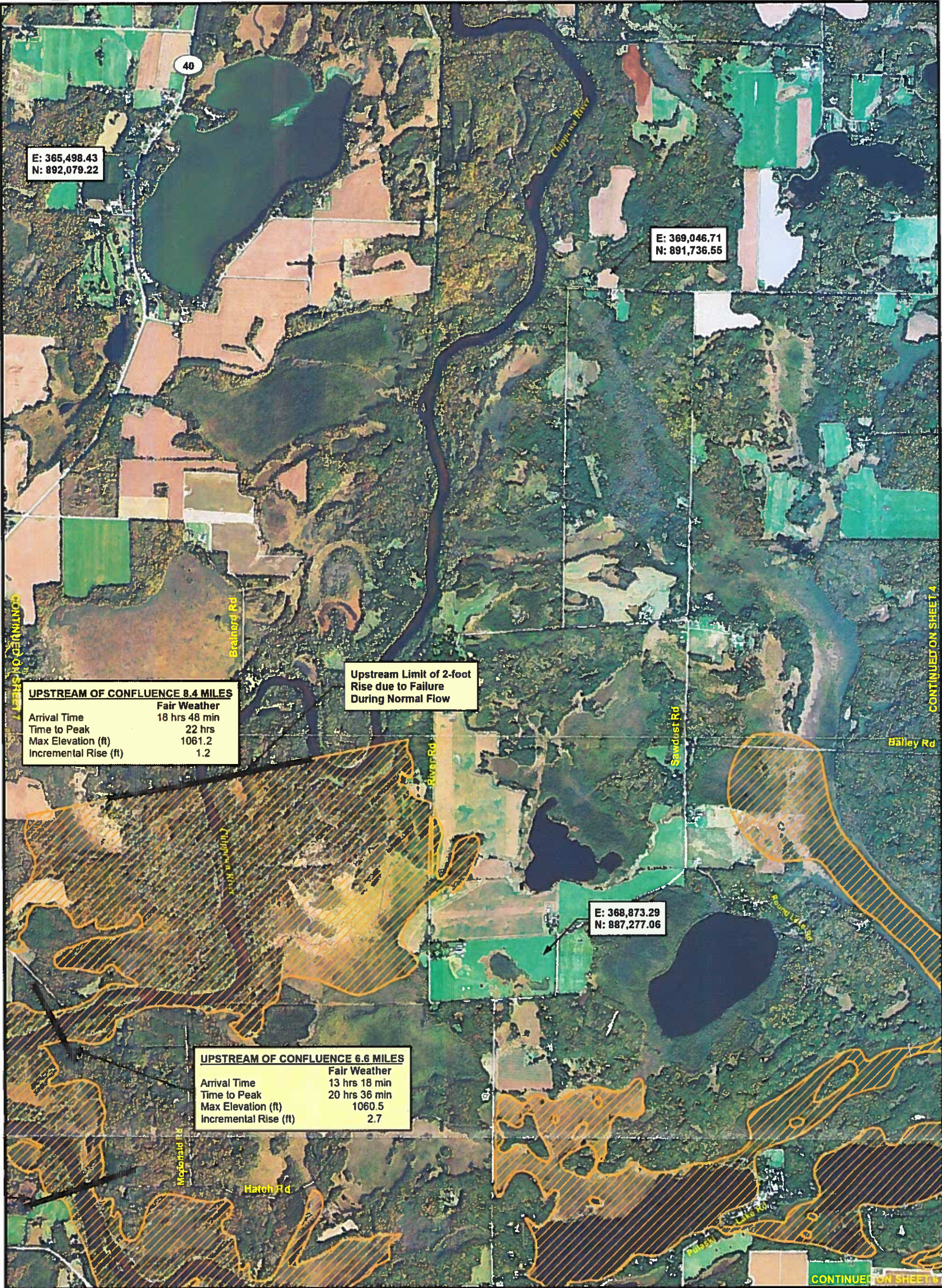
**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**Mead & Hunt**

**DAIRYLAND POWER COOPERATIVE**

**SHEET 7 OF 17**



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Legend

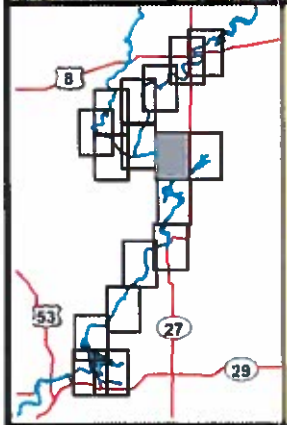
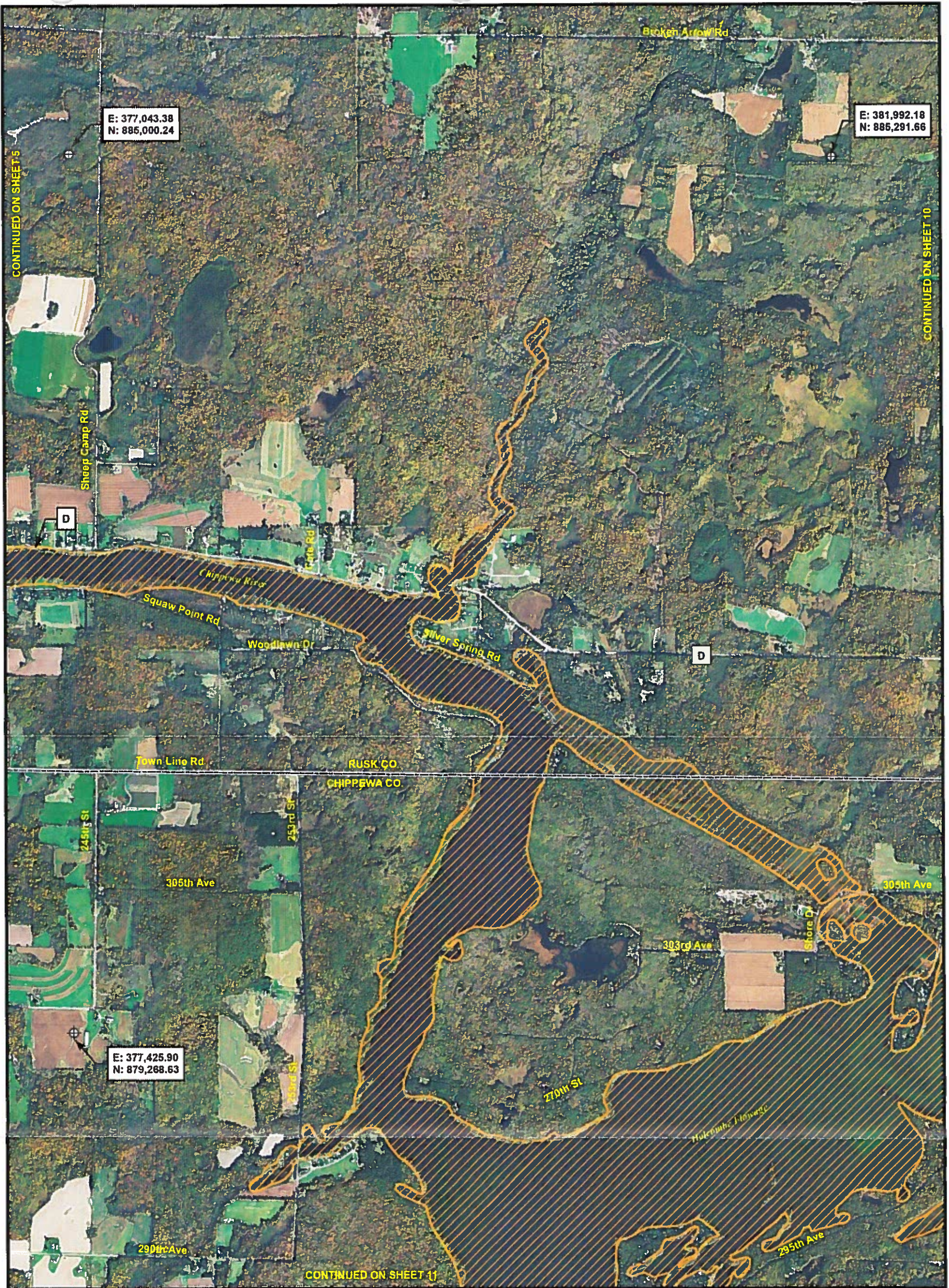
- Flood Failure
- Fair Weather
- Cross Section
- Reference Point
- Limited Access
- Highway
- Railroads
- City Boundary
- County Boundary



Inundation Map for Failure of Flambeau Dam

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016





**Map Sheet Index**

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**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

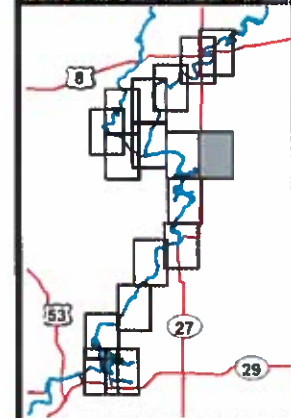
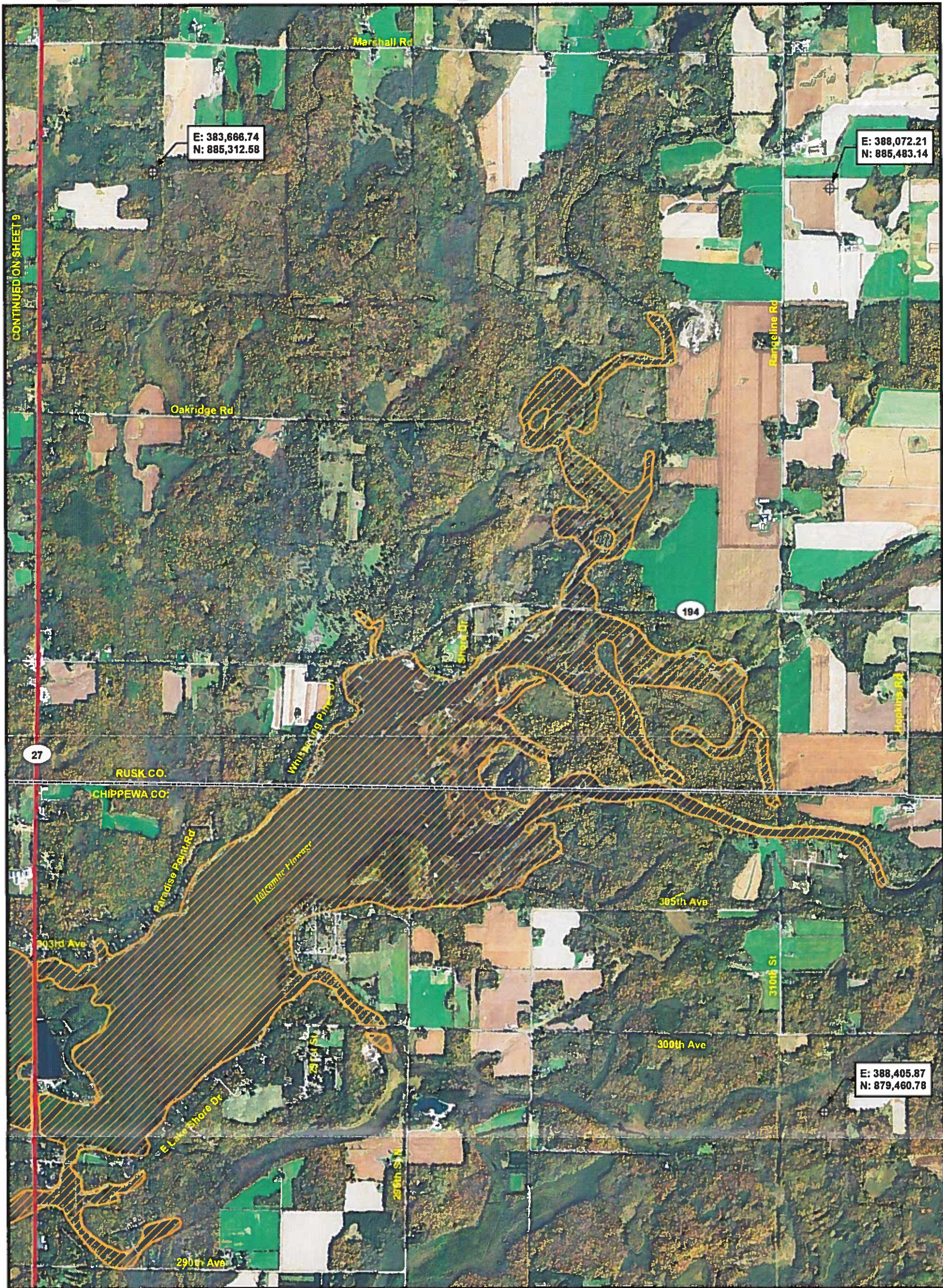
0 500 1,000 2,000 3,000 4,000 Feet

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 9 OF 17**

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**Map Sheet Index**

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Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

0 500 1,000 2,000 3,000 4,000 Feet

N

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

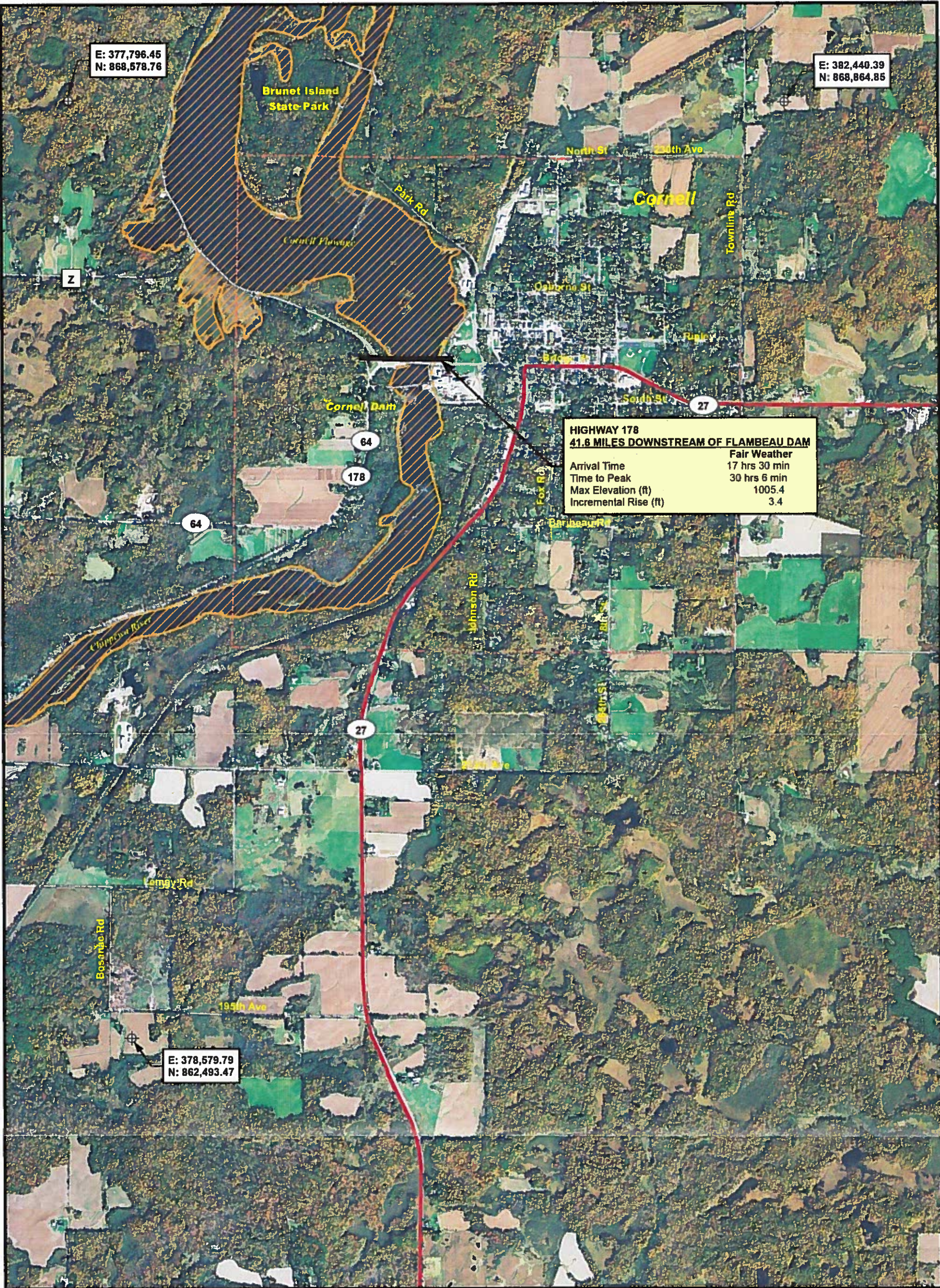
Mead & Hunt

DAIRYLAND POWER COOPERATIVE

**SHEET 10 OF 17**

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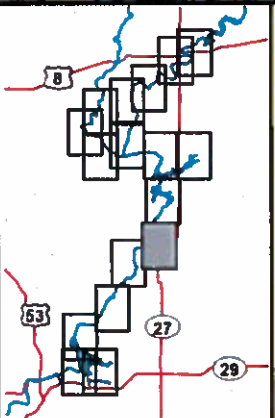
**HIGHWAY 178**  
**41.6 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       |               |
|-----------------------|---------------|
|                       | Fair Weather  |
| Arrival Time          | 17 hrs 30 min |
| Time to Peak          | 30 hrs 6 min  |
| Max Elevation (ft)    | 1005.4        |
| Incremental Rise (ft) | 3.4           |

E: 377,796.45  
N: 868,578.76

E: 382,440.39  
N: 868,864.85

E: 378,579.79  
N: 862,493.47



**Map Sheet Index**

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**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

0 500 1,000 2,000 3,000 4,000 Feet

N

**Inundation Map for Failure of Flambeau Dam**

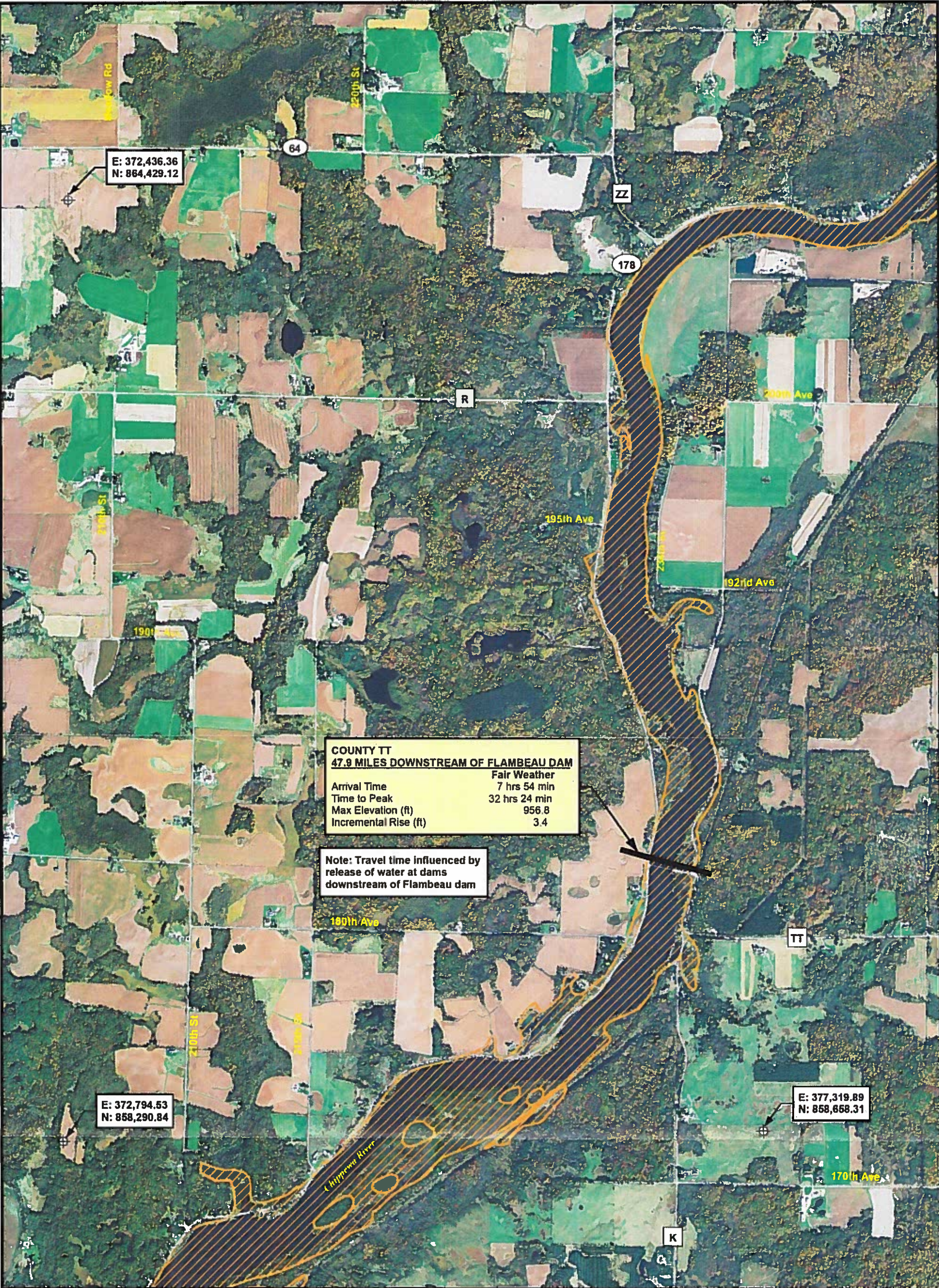
Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**Mead & Hunt**

**DAIRYLAND POWER COOPERATIVE**

**SHEET 12 OF 17**

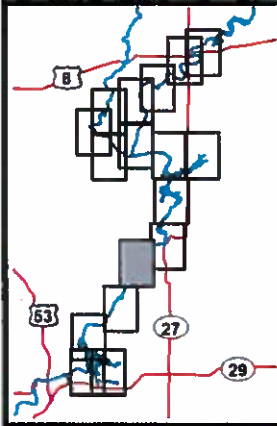
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**COUNTY TT**  
**47.9 MILES DOWNSTREAM OF FLAMBEAU DAM**

|                       |               |
|-----------------------|---------------|
| Arrival Time          | Fair Weather  |
| Time to Peak          | 7 hrs 54 min  |
| Max Elevation (ft)    | 32 hrs 24 min |
| Incremental Rise (ft) | 956.8         |
|                       | 3.4           |

Note: Travel time influenced by release of water at dams downstream of Flambeau dam



**Map Sheet Index**

NOTE: The limits of flooding and the travel times shown on this map are approximate and should be used solely as a guideline for establishing evacuation zones. The actual evacuation zones may be greater or smaller than the flooded area shown on the map. Actual evacuation zones should be determined by local officials responsible for establishing specific evacuation procedures.

Data Source: Base map image from USDA-FSA, Orthoimagery for Rusk and Chippewa Counties, Wisconsin, 2015, 1 m (<https://gis.apfo.usda.gov/arcgis/services>)

Reference point coordinates are referenced to the Albers Equal Area Conic map projection, units are in meters.

**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

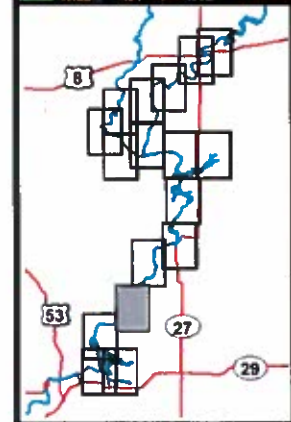
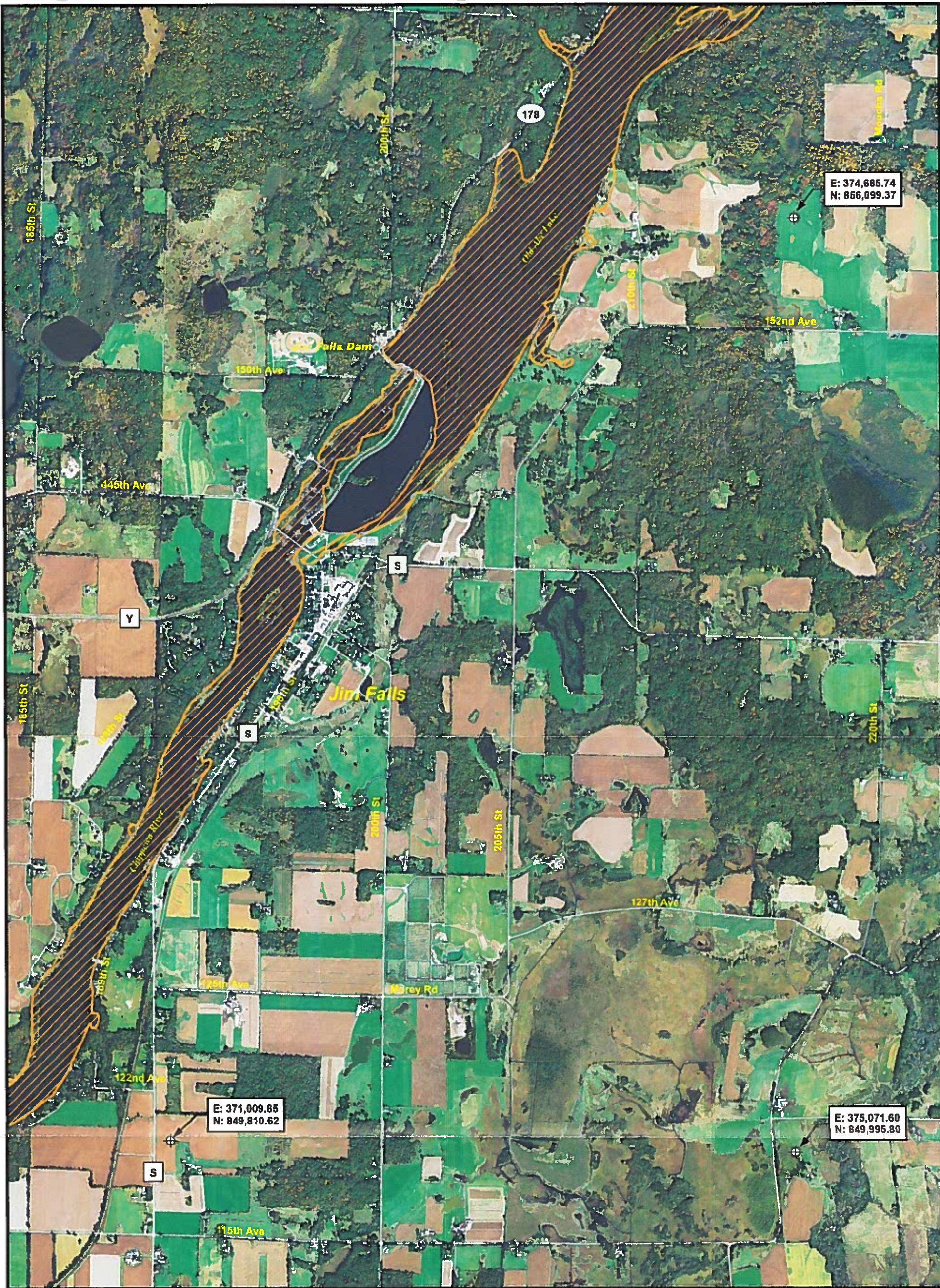
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**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 13 OF 17**

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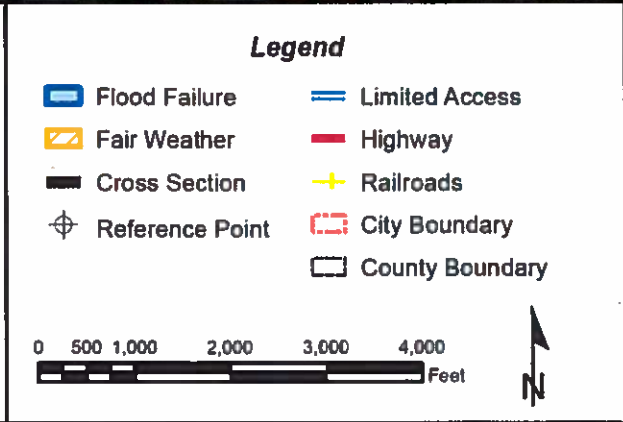


**Map Sheet Index**

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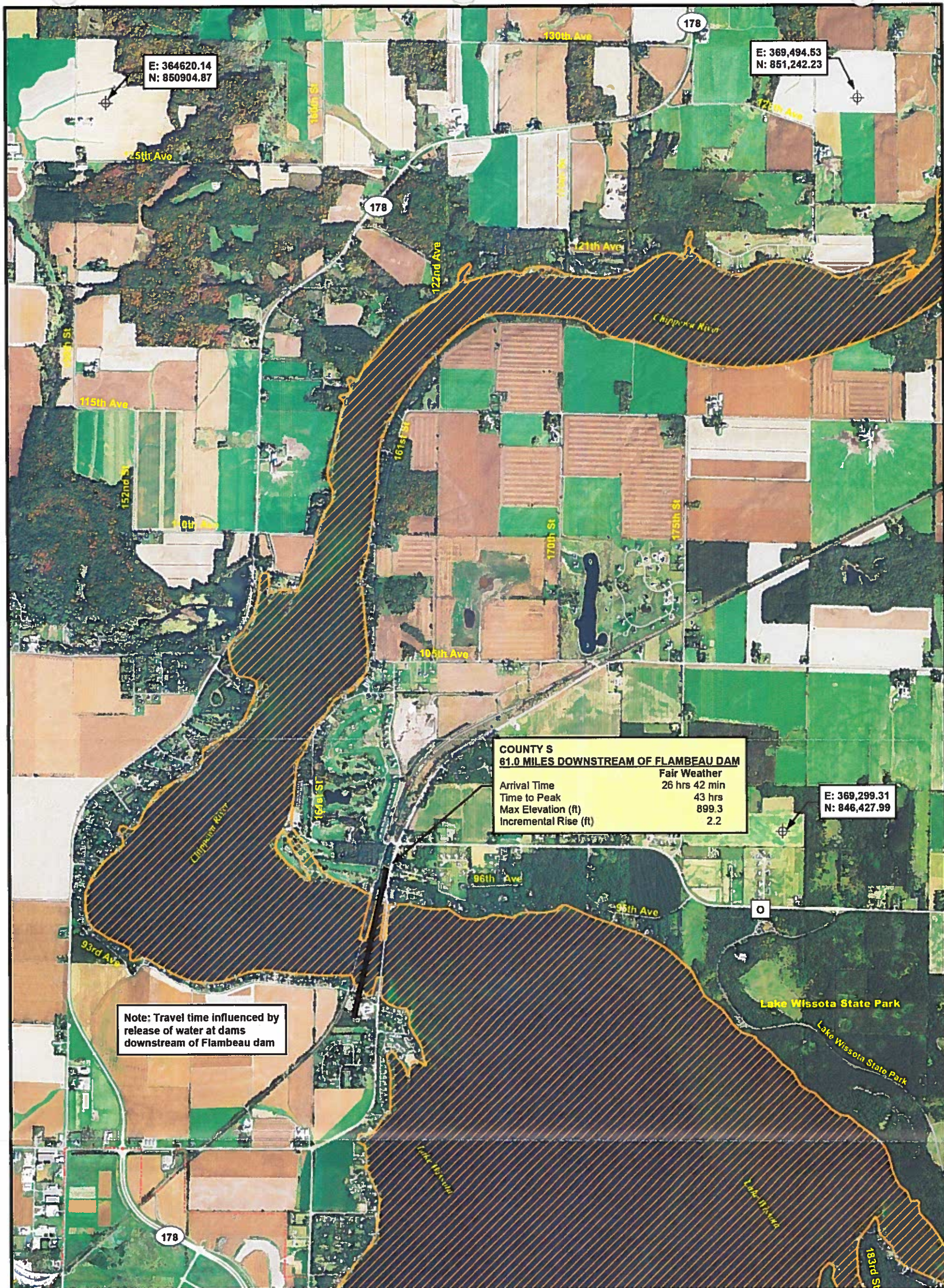
### Inundation Map for Failure of Flambeau Dam

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**Mead & Hunt**

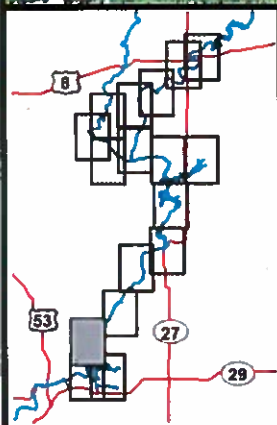
**DAIRYLAND POWER COOPERATIVE**

**SHEET 14 OF 17**



Note: Travel time influenced by release of water at dams downstream of Flambeau dam

| COUNTY S<br>61.0 MILES DOWNSTREAM OF FLAMBEAU DAM |               |
|---------------------------------------------------|---------------|
|                                                   | Fair Weather  |
| Arrival Time                                      | 26 hrs 42 min |
| Time to Peak                                      | 43 hrs        |
| Max Elevation (ft)                                | 899.3         |
| Incremental Rise (ft)                             | 2.2           |



Map Sheet Index

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Legend

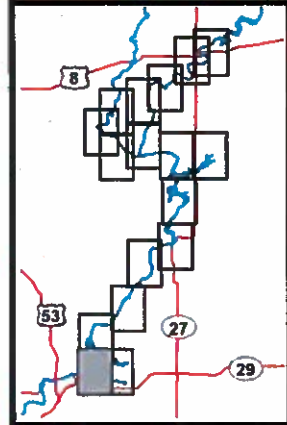
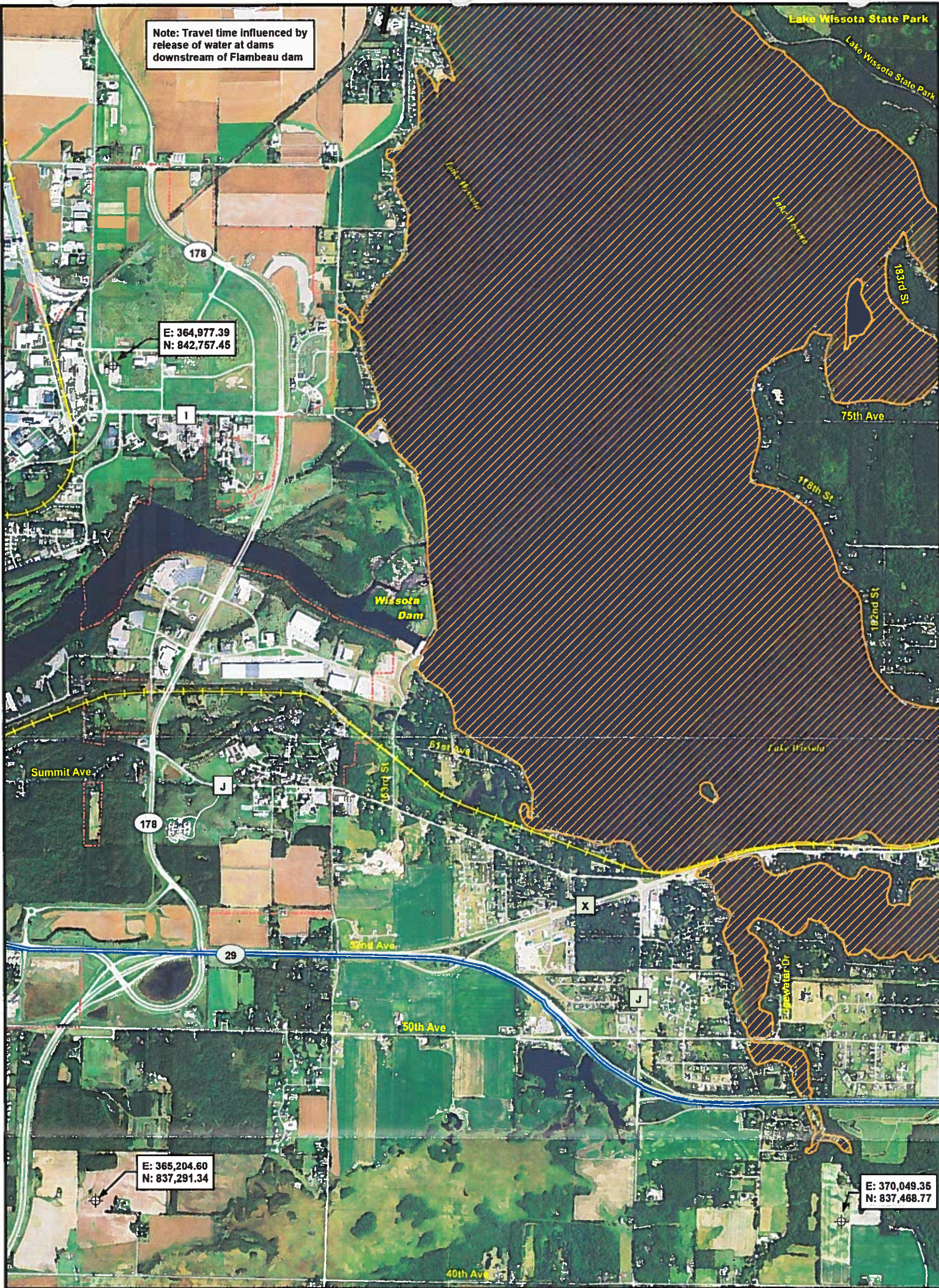
- Flood Failure
- Fair Weather
- Cross Section
- Reference Point
- Limited Access
- Highway
- Railroads
- City Boundary
- County Boundary



Inundation Map for Failure of Flambeau Dam

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016





**Map Sheet Index**

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**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

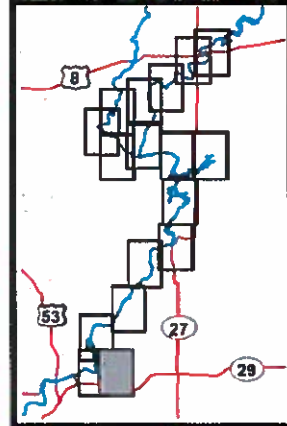
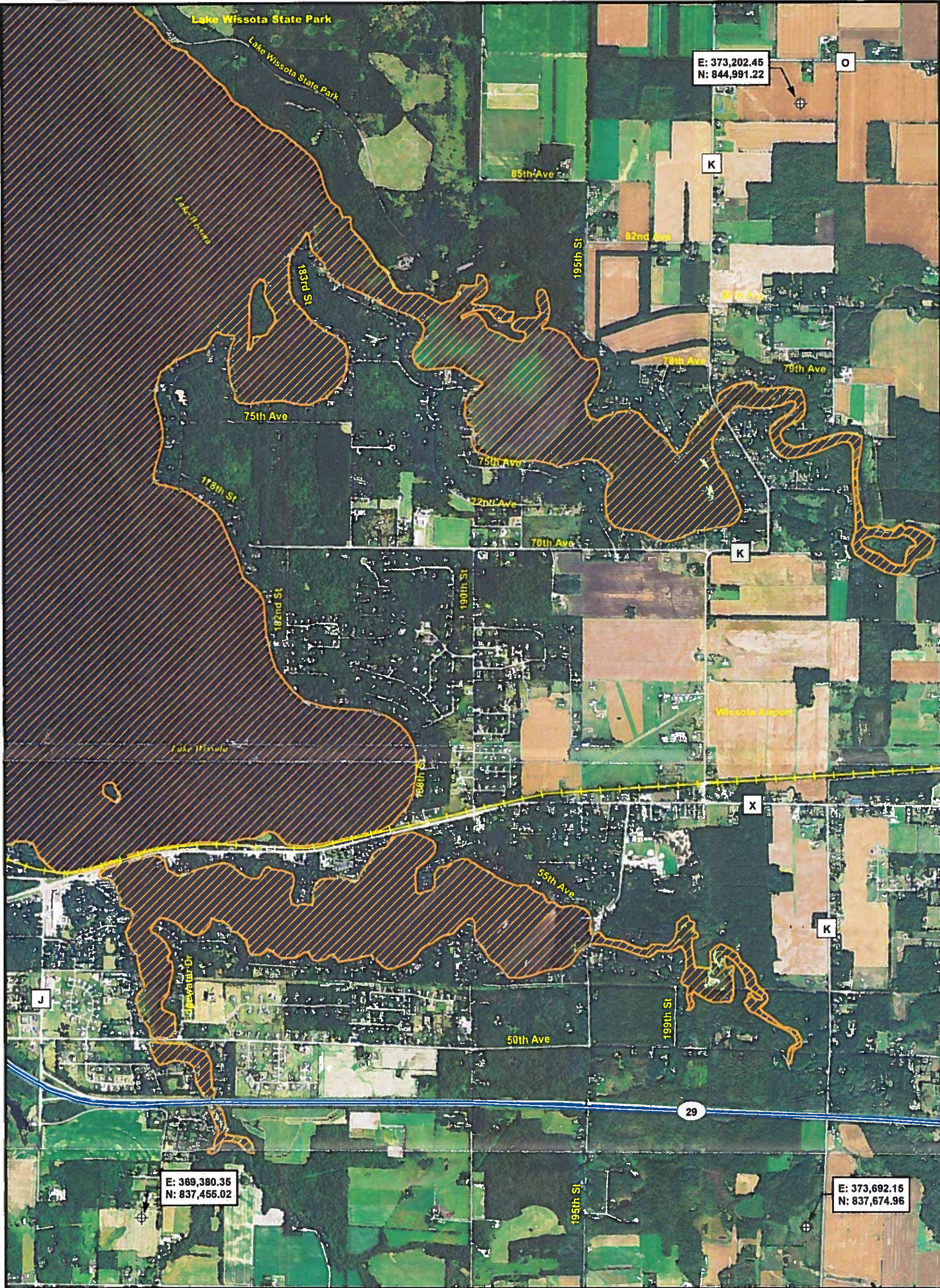
0 500 1,000 2,000 3,000 4,000 Feet

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 16 OF 17**

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**Map Sheet Index**

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**Legend**

|                 |                 |
|-----------------|-----------------|
| Flood Failure   | Limited Access  |
| Fair Weather    | Highway         |
| Cross Section   | Railroads       |
| Reference Point | City Boundary   |
|                 | County Boundary |

0 500 1,000 2,000 3,000 4,000 Feet

**Inundation Map for Failure of Flambeau Dam**

Dairyland Power Cooperative  
RUSK AND CHIPPEWA COUNTIES, WISCONSIN  
December 2016

**SHEET 17 OF 17**

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