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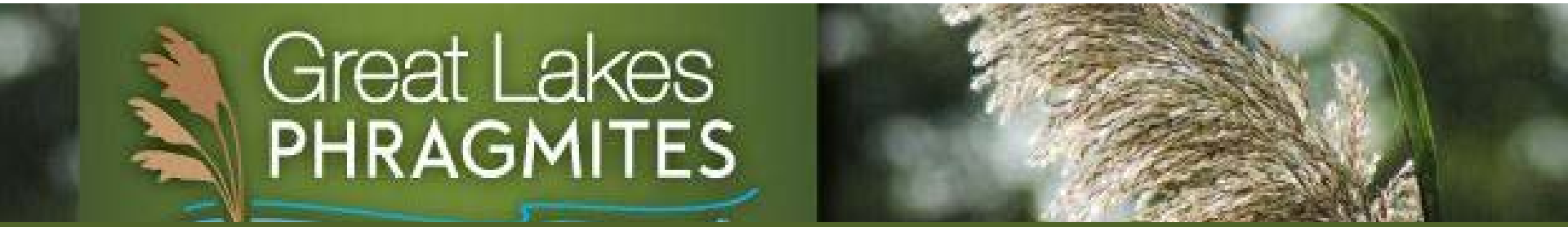
2014-2015 Webinar Series

January 15, 2015

Part One Webinar

Phragmites and Prescribed Fire



@GLPhrag

www.greatlakesphragmites.net

Phragmites and Prescribed Fire:

Seasonal Prescriptions and Risk

Lee Osterland, Fire Management Specialist

Why Manage Phragmites? What's the big deal? Juuust Buuurn It Already!!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Can phragmites, people and fire co-exist? Yes, **BUT** you better do your homework!


MC 6899 BU


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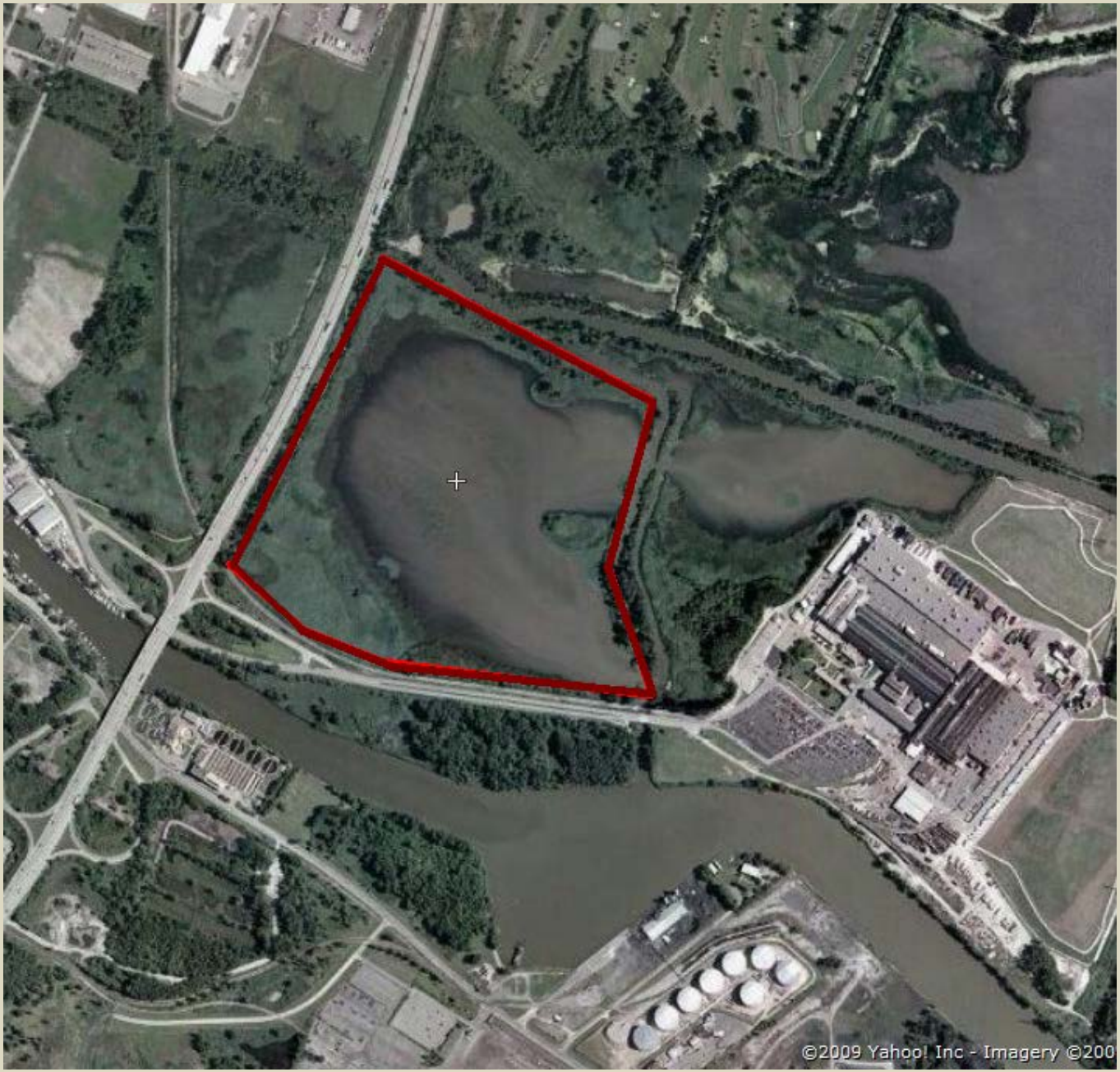
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- Time of Year to Burn
- Wet or Dry Site
- Controlled vs. Non-controlled Water Level
- Altering Fuel Arrangement

Spring, Summer, Fall or Winter?


8-31-12
Fuel Moisture: 2% - 17%
Temp. 104, R.H. 38%, Wind: W @ 10mph
Clear Sky


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Login | Create a User!

Great Lakes Fire / Fuels

MesoWest

LINKS

MesoWest

ROMAN

Help

Great Lakes Forest Fire Compact

U of Utah Dept. of Atmospheric Sciences

NWS Fire Weather

Login to Great Lakes

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Password:

Login

Create a User

AGENCY LINKS

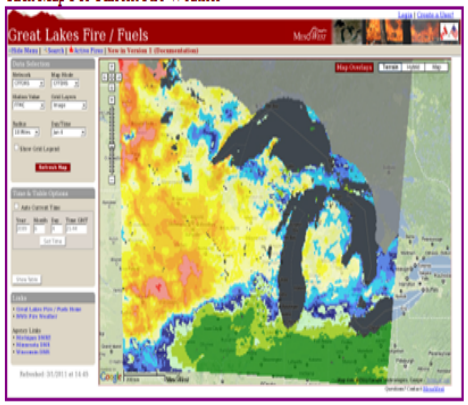
Michigan DNR
Contact MI DNR

Minnesota DNR
Contact MN DNR

Wisconsin DNR
Contact WI DNR

Great Lakes Surface Weather and Fire Indices

Click Map For Current Fire Weather



If logged in, your default profile will be used

Technical Guide 11-1: Working With the Great Lakes Fire and Fuels Information System Tools in Lake States Fire Management

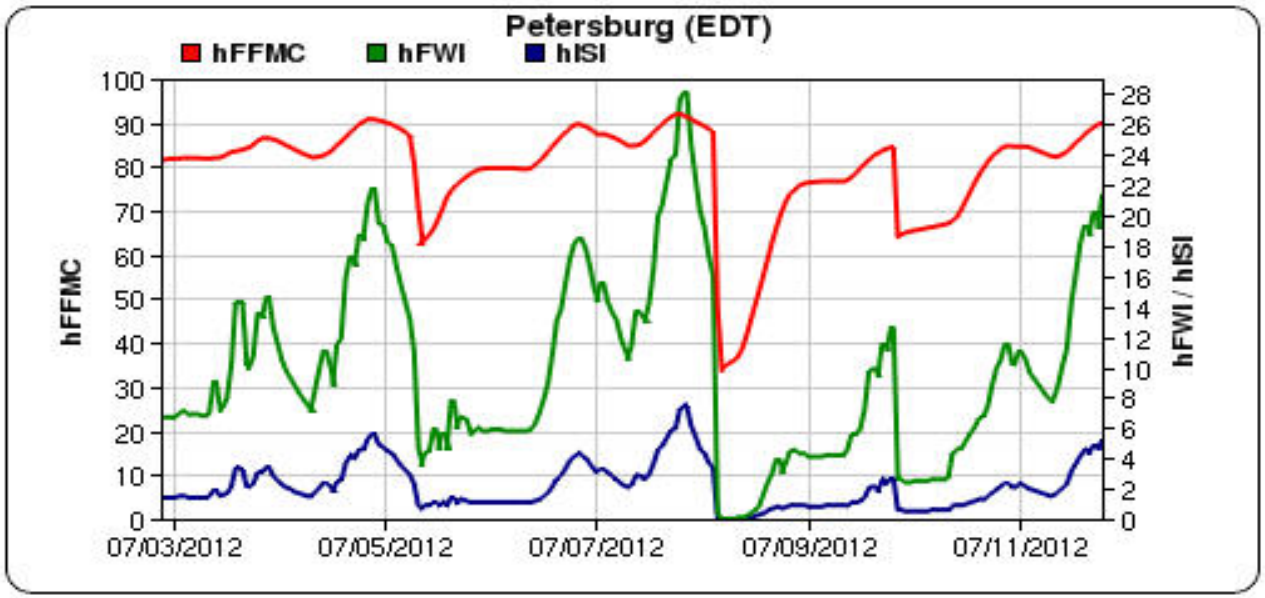
Click here to read what's new in Version 1

Tabular Fire Weather Products

CFFDRS Database Table
CFFDRS Station Status
NFDRS Observed Database Table
NFDRS Forecast Database Table
CFFDRS Initial Values and Data Updates (Restricted Access)
Download CFFDRS by State

Petersburg (MIPTR)

Temp | Wind | Precip | FFMC/FWI/ISI | BUI | DMC | DC | CDSR | help



All times are 14:00 EDT values

	Jul 09	Jul 10	Jul 11
FFMC:	87.7	89.7	93
DMC:	75	80	85
DC:	397	406	415
ISI:	4.5	5.6	10.4
BUI:	102	107	112
FWI:	18	22	34
DSR:	5	6	14

	Jul 09	Jul 10	Jul 11
Temp (F):	81	82	84
RH (%):	48	32	26
Wind (MPH):	5	4	6
Precip (In):	0	0.04	0
FDR-Conifer:	High	High	Extreme
FDR-Grass:	None	None	None
FDR-H Wood:	None	None	None

Recent Obs for MIPTR | Year to Date CFFDRS | Download Data

National Weather Service Weather Forecast Office

Gaylord, MI

weather.gov

Home | Site Map | News | Organization | Search for: | NWS | All NOAA | Go

Local forecast by "City, St" or Zip Code

City, St | Go

XML RSS Feeds

Current Hazards
- Watches/Warnings
- Outlooks
- Submit Report
- Facebook Page

Current Conditions
- Observations
- Radar
- Satellite
- Snow Cover
- Snowfall Analysis
- Precip Analysis

Forecasts
- Forecast Discussion
- Local Area
- Activity Planner
- Aviation Weather
- Fire Weather
- Marine Weather
- Severe Weather
- Winter Weather
- Hurricane Center

Hydrology
- Rivers & Lakes

Climate
- Local
- National
- Drought
- More...

Weather Safety
- Preparedness
- Weather Radio
- StormReady
- SkyWarn

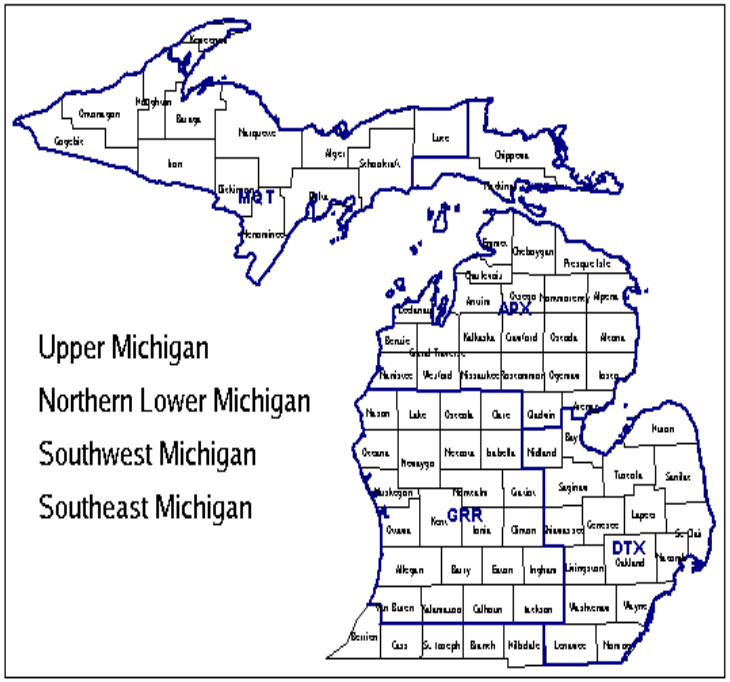
Michigan Fire Weather

Watches & Warnings | Observations | Planning Forecasts | Digital Forecasts | Outlooks | Fire Assessment

Submit a Spot Forecast Request

FOR OFFICIAL USE ONLY

Select your geographic area or click your county on the map below:



Weather Map | Radar | VIS Satellite | IR Satellite | Day 1 Outlook

WEDNESDAY

SKY/WEATHER.....PARTLY CLOUDY (35-45 PERCENT) UNTIL 4 PM...THEN SUNNY (5-15 PERCENT).

MAX TEMPERATURE.....79-84. 24 HR TREND.....1 DEGREE COOLER.

MIN HUMIDITY.....41-51 PERCENT. 24 HR TREND.....4 PERCENT DRIER. 20-FOOT WINDS.....NORTH 10 TO 15 MPH.

HAINES INDEX.....4 OR LOW POTENTIAL FOR LARGE PLUME DOMINATED FIRE GROWTH.

MIXING HEIGHT.....5640-6140 FT AGL.

TRANSPORT WINDS.....NORTH 10 TO 15 MPH.

VENTILATION INDEX...`EXCELLENT` (720).

PCPN AMOUNT.....NONE.

Dry Site vs. Wet Site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March 18th

Temp 60

RH 25-30%

Wind:

West 8-12mph

Transport Wind:

W-14mph

Vent. Index:

Excellent 900

Non-Controlled Water Level


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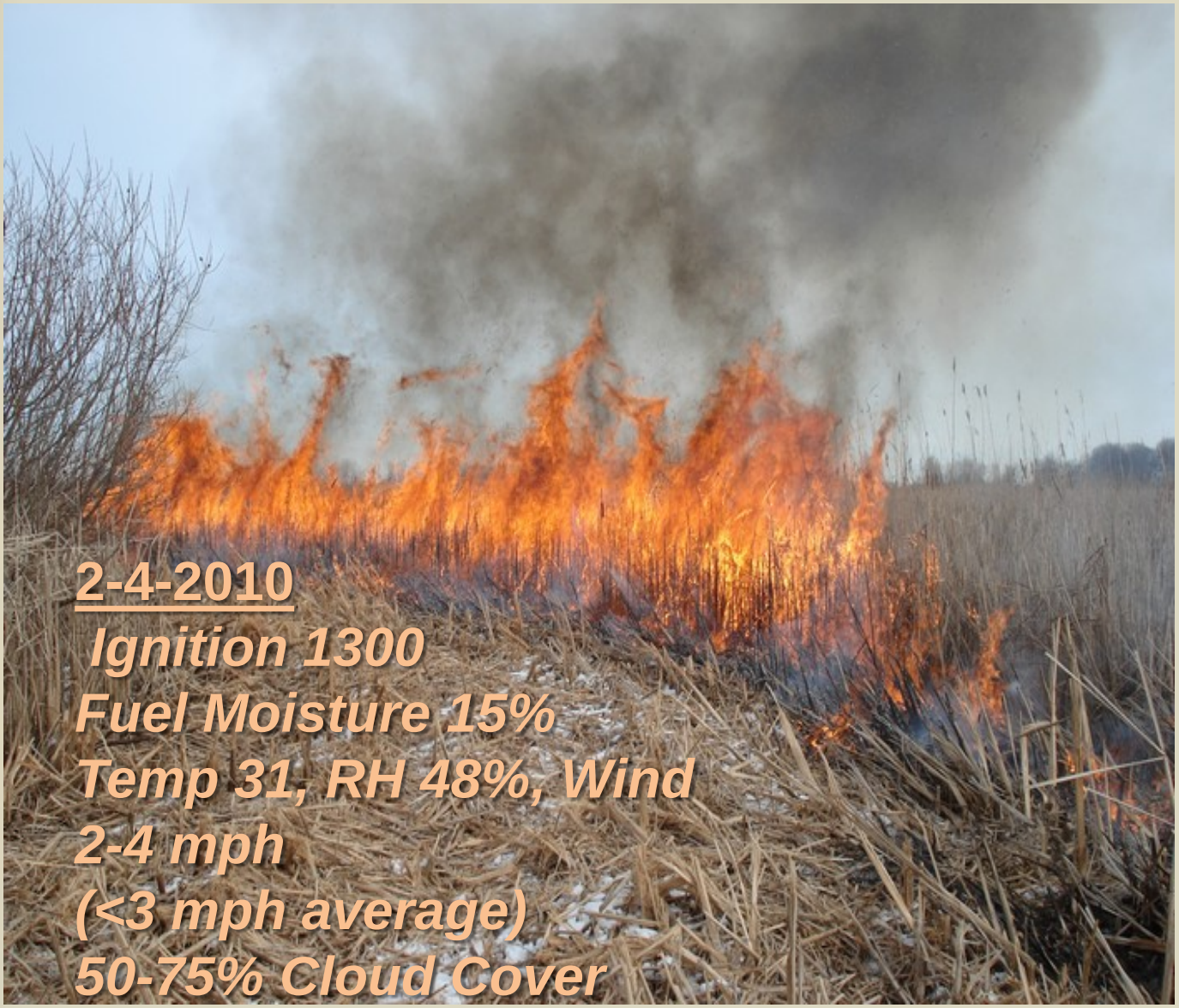
2-4-2010
Ignition 1300
Fuel Moisture 15%
Temp 31, RH 48%, Wind
2-4 mph
(<3 mph average)
50-75% Cloud Cover


2-1-2010
Ignition: 1335
Fuel Moisture Content 19%-20%
Temp 26, RH 52% Wind 4-6 mph/Gust to 10
75-100% High Thin Cloud Cover

Manipulating Fuel Arrangement

7-11-12

Time: 0900

Fuel Moisture: 2% - 22%

Temp: 85, R.H. 50%, Wind W@ 5mph

Clear Sky

Precipitation: 2/100 previous night


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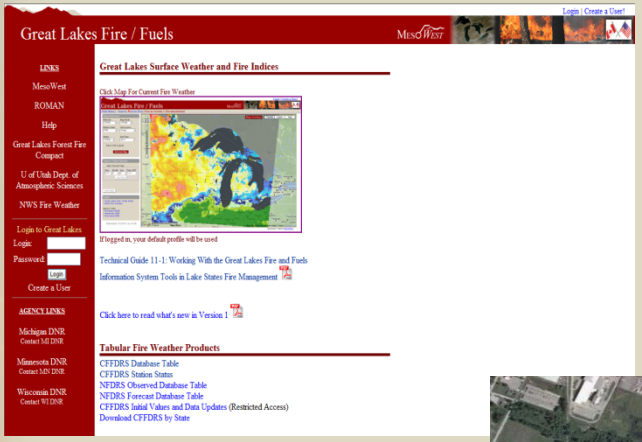
What Is The Result of All of This?

Meet Prescribed Burn Objectives

Summary


Great Lakes Fire / Fuels
MesoWest
Great Lakes Surface Weather and Fire Indices
Tabular Fire Weather Products

Thank you! Questions?

osterlandl@michigan.gov

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Part Two Phragmites and Prescribed Fire

March 12, 2015 at 2:00 PM EST (1:00 PM CST)

@GLPhrag)

www.greatlakesphragmites.net

February Webinar:

February 19, 2015 at 2:00 PM Eastern (1:00 PM Central)

Long-term effects of repeated prescribed burning on tree growth and drought vulnerability in *Pinus resinosa* forests in northern Minnesota

Alessandra Bottero

University of Minnesota