

# Casinos and Severe Weather Risk Exposure

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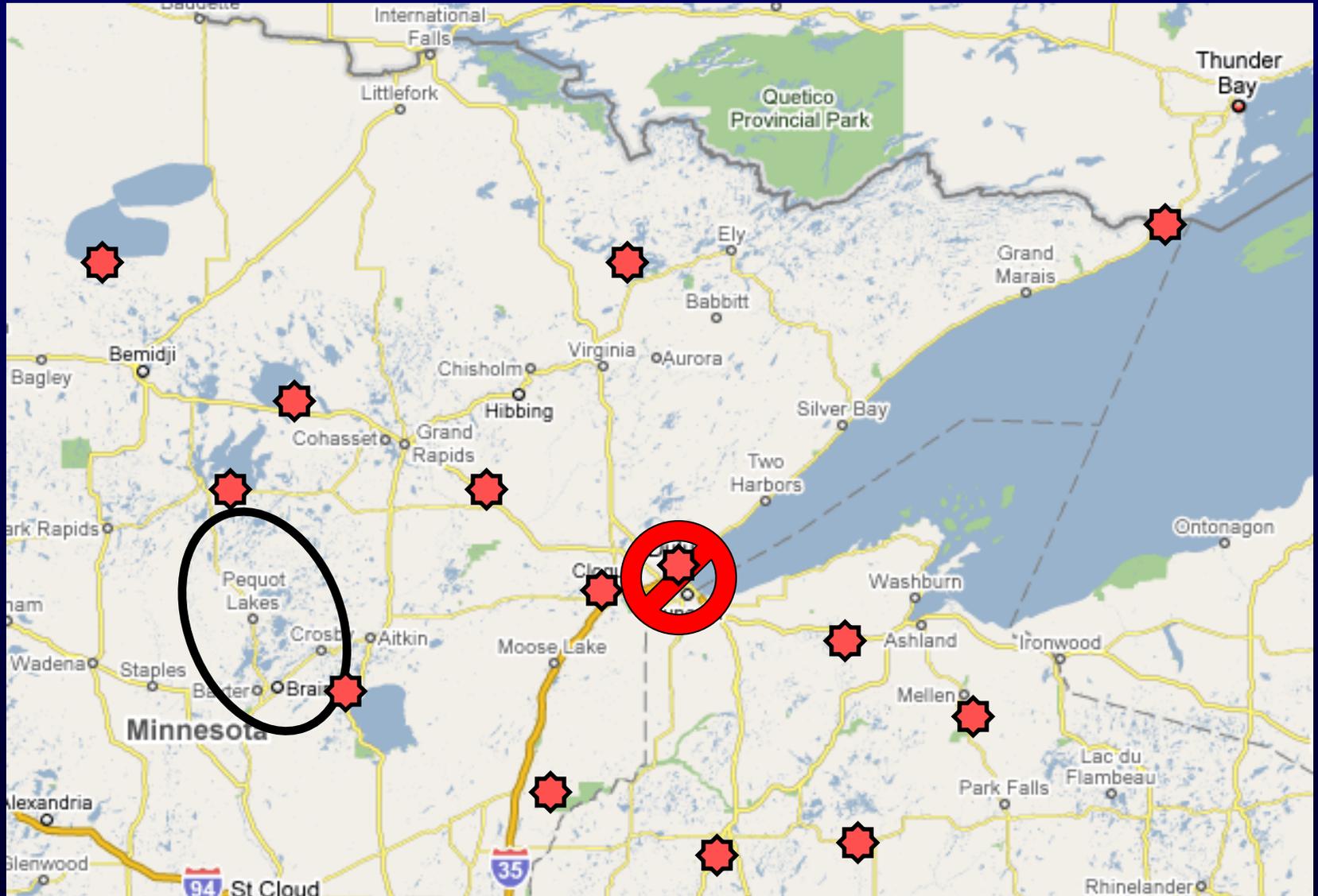
*National Weather Service*

*WFO Pleasant Hill, Missouri*



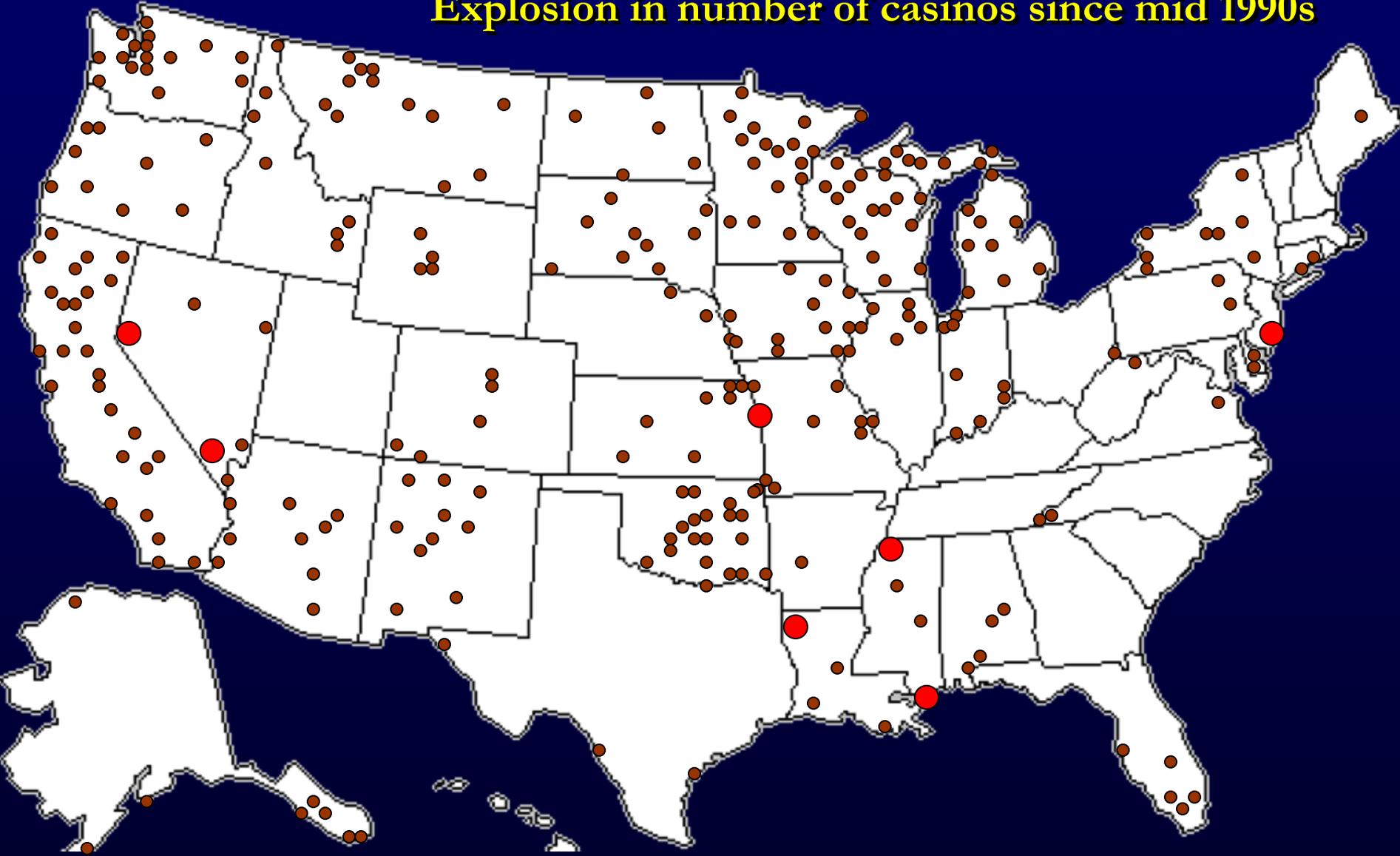
# Increased Risk Factor:

Many located in rural/remote locations



# United States Casino Locations

Explosion in number of casinos since mid 1990s



# Increased Risk Factor:

Many located in rural/remote locations



# Increased Risk Factor:

**Many located in rural/remote locations**

25,000 square foot  
gambling floor

115 Rooms

Golf Course

84 Slip Marina

200 Seat Bingo Hall

36 RV Sites

Amphitheatre



**Fortune Bay Resort and Casino: Tower, MN**

# Increased Risk Factor:

**Many located in rural/remote locations**

60,000+ square foot  
gambling floor

530+ Rooms

Golf Course

300 Seat Bingo Hall

80+ RV Sites

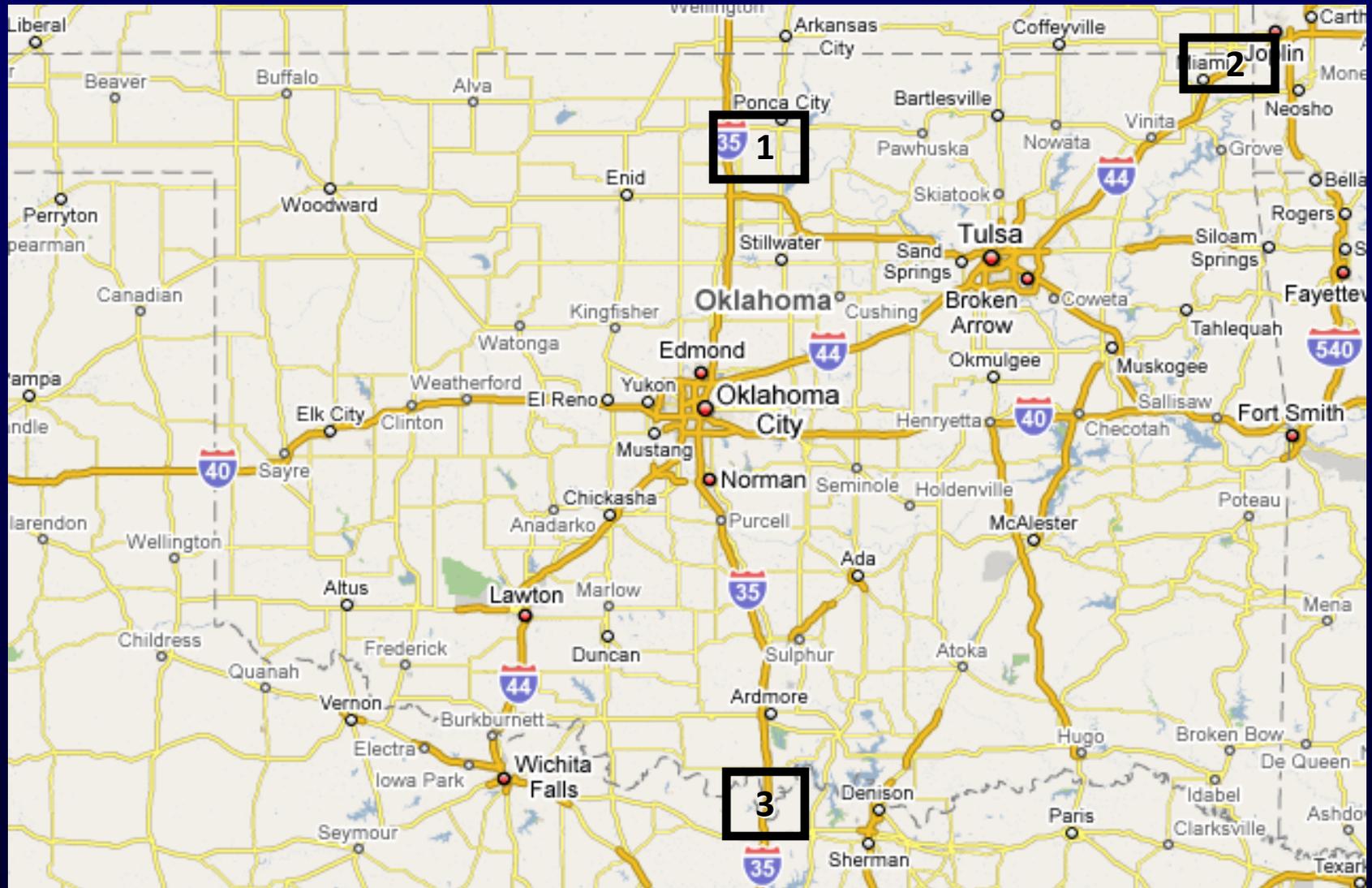
Amphitheatre



**Grand Casino Hinckley: Hinckley, MN**

# Increased Risk Factor:

Many located in rural/remote locations

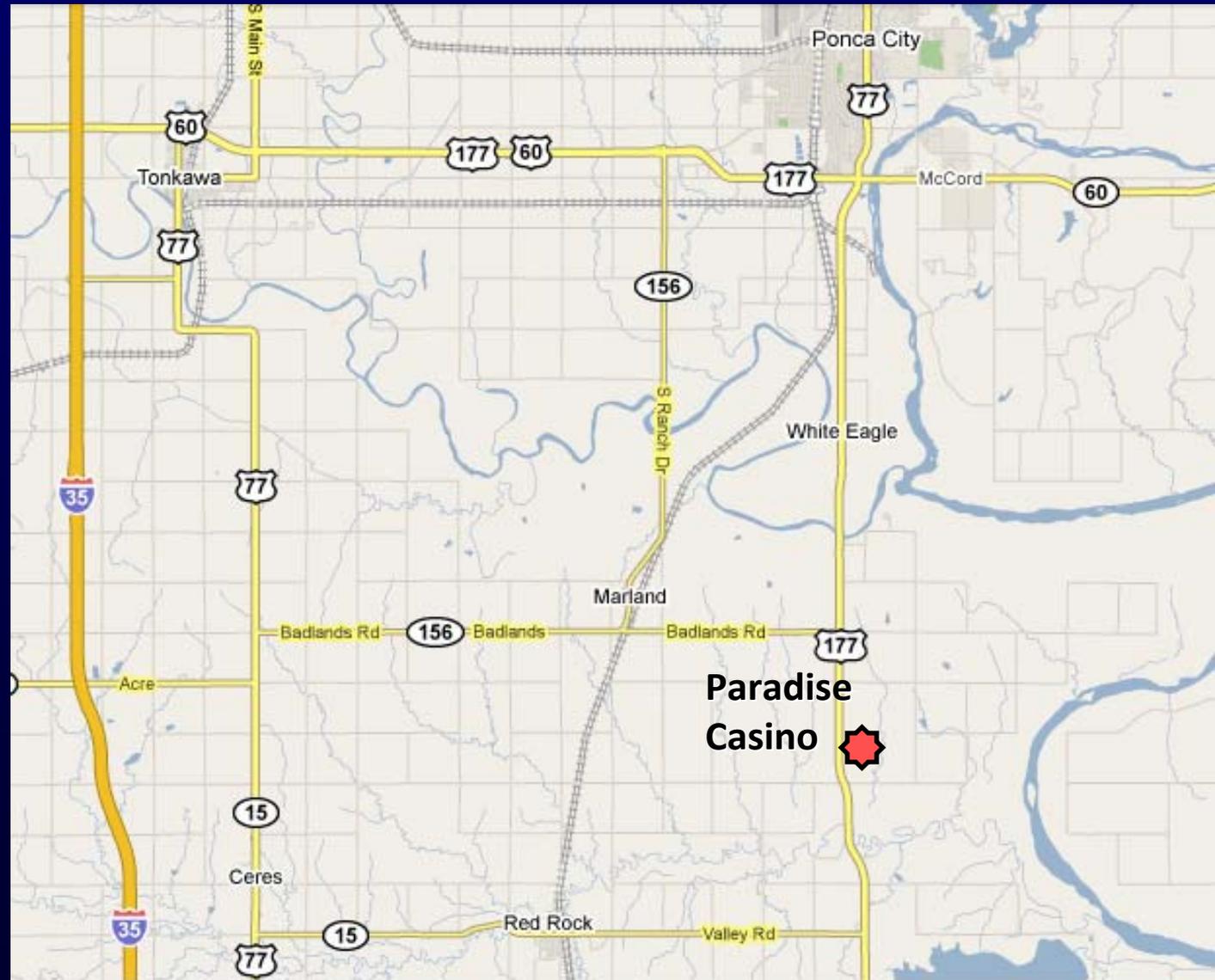


# Increased Risk Factor:

Many located in rural/remote locations

23,000 square foot  
gambling floor

RV Park



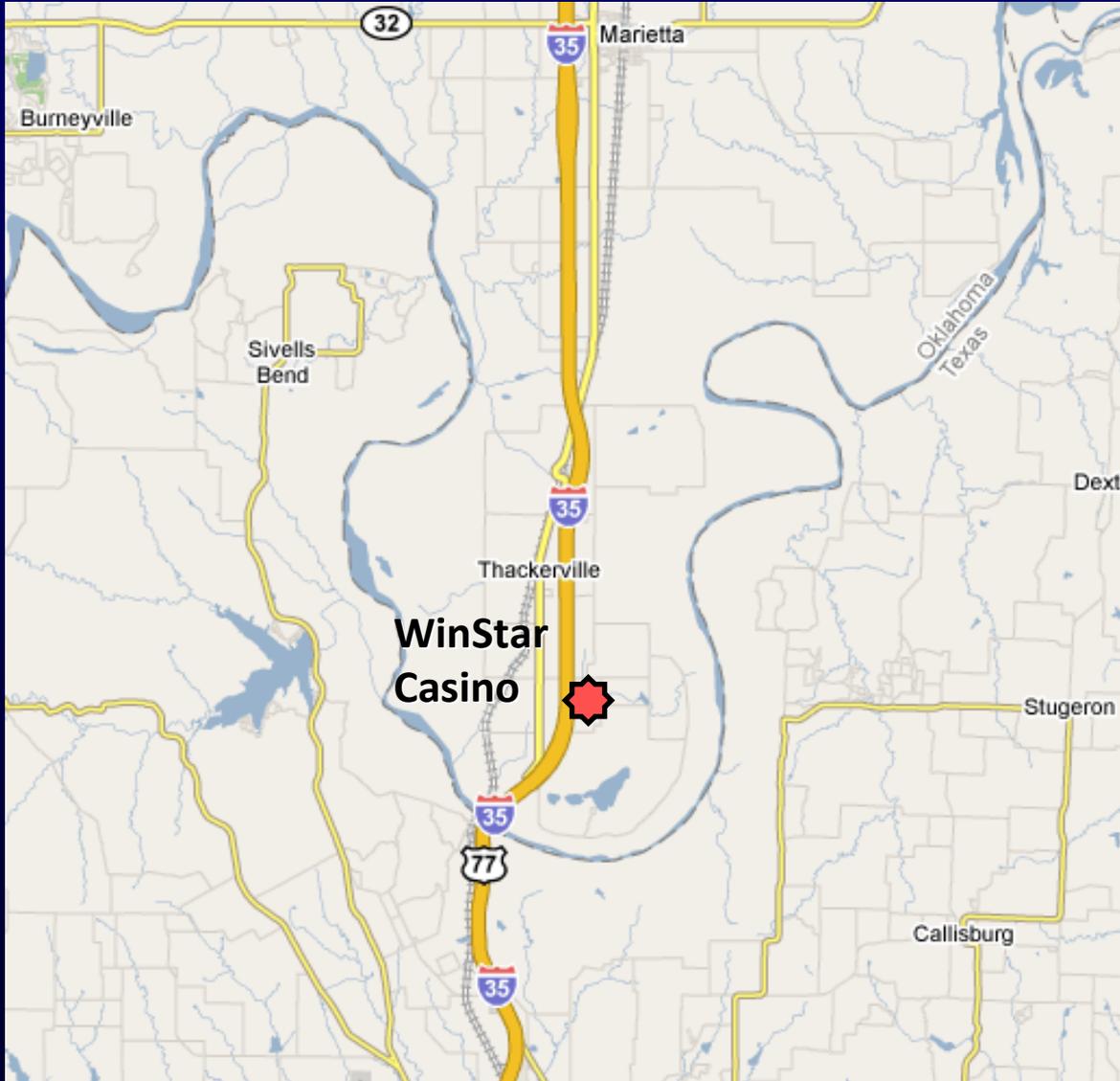
# Increased Risk Factor:

Many located in rural/remote locations



# Increased Risk Factor:

Many located in rural/remote locations



170,000 square foot  
gambling floor

RV Park

800 Seat Bingo Hall

1,200 Seat Theater

2 Additional Hotels  
under Construction

# Increased Risk Factor:

Many located in rural/remote locations



WinStar Casino: Thackerville, OK

# Increased Risk Factor: Numerous Elderly Patrons



**Grand Casino Hinckley: Hinckley, MN**

# Increased Risk Factor:

**Numerous Elderly Patrons**



Grand Casino Hinckley: Hinckley, MN

**300+ Handicapped  
Parking Spaces**

**...And they're  
almost all  
occupied!**

# Increased Risk Factor:

## The Nature of Gaming

Open 24x7x365

No Windows

No Clocks

Few Televisions

Bad Cell Reception



# Increased Risk Factor:

## The Nature of Gaming



Focus is on Playing  
the Games!

Constant Noise

Constant  
Distractions

Alcohol Consumption

# Increased Risk Factor:

## Casino Gaming Floor Plans/Layout



Expansive Open  
Ceilings

Limited Open Space

Maze of Game  
Machines, Chairs  
and Tables

**As already stated: Significant number of  
patrons are elderly and less mobile**

# Increased Risk Factor:

## The Nature of Gaming

3 May 1999

People did not want to leave slot machines as tornado was approaching



F4-intensity damage < 1 mile from Gaming Center

# Increased Risk Factor:

**Many co-located with Golf Courses**



**Grand Casino Hinckley: Hinckley, MN**

# Increased Risk Factor:

**Many co-located with Concert Venues**



**Grand Casino Hinckley: Hinckley, MN**

# Increased Risk Factor:

**Many co-located with RV Parks/Marinas**



**Grand Casino Hinckley: Hinckley, MN**

# Increased Risk Factor:

**Many co-located with RV Parks/Marinas**

137 Marina slips

97 RV Hook-ups



Treasure Island Resort and Casino: Hastings, MN

# Increased Risk Factor:

**Large Parking Lots (and lots of potential projectiles)**

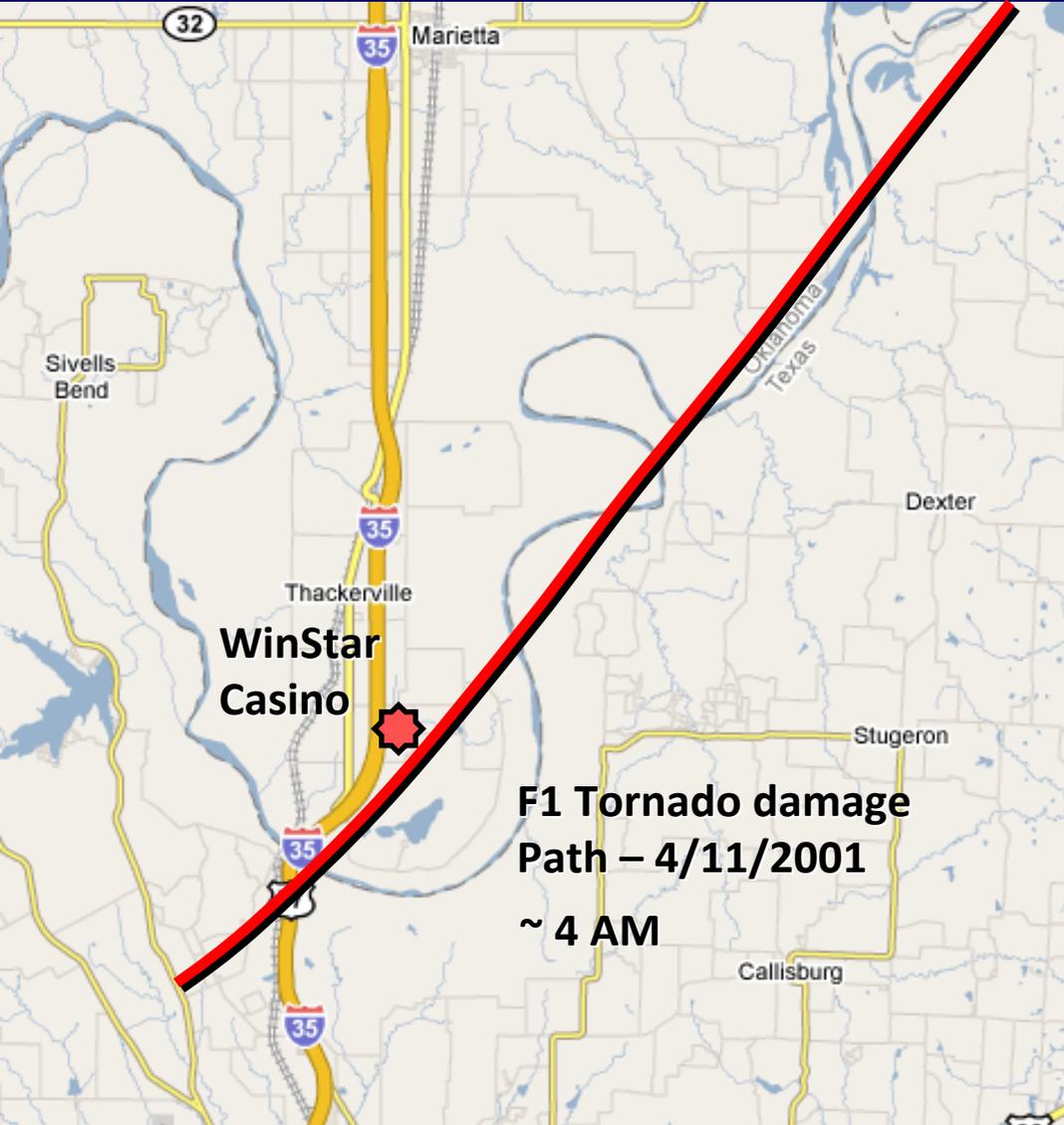


**Grand Casino Hinckley: Hinckley, MN**



**WinStar Casino: Thackerville, OK**

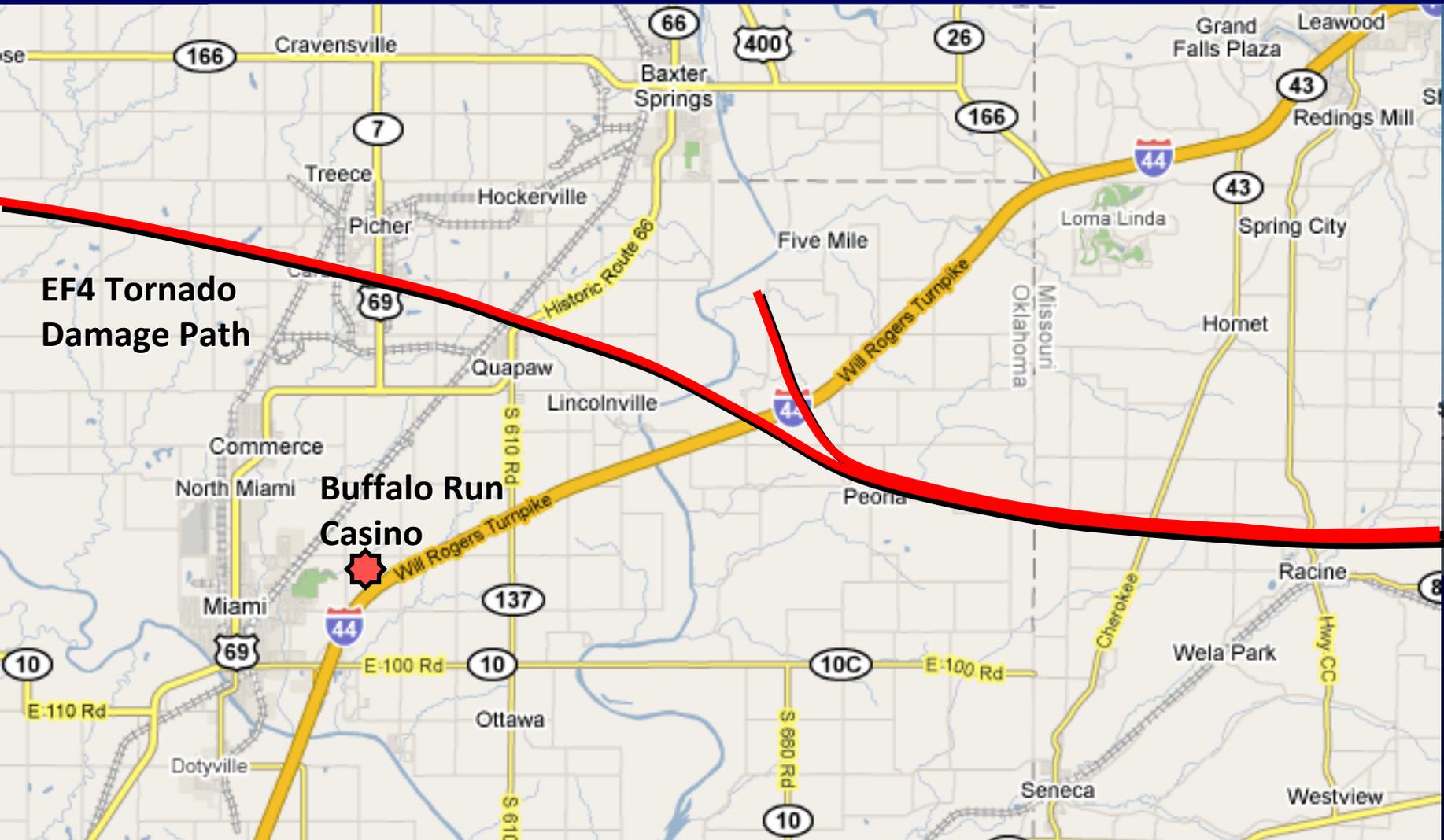
# Increased Risk Factor: Building Design



Casino, Thackerville, OK

inside the structure  
100 MPH (EF1 Equivalent)

# Increased Risk Factor: Building Design



# Final Thoughts:

Increased Risk Factors Included associated with  
Casinos Include:

**Rural/remote locations**

**The Nature of Gaming**

**Elderly/Less Mobile Patrons**

**Building Design/Layout**

**Additional Entertainment Venues**

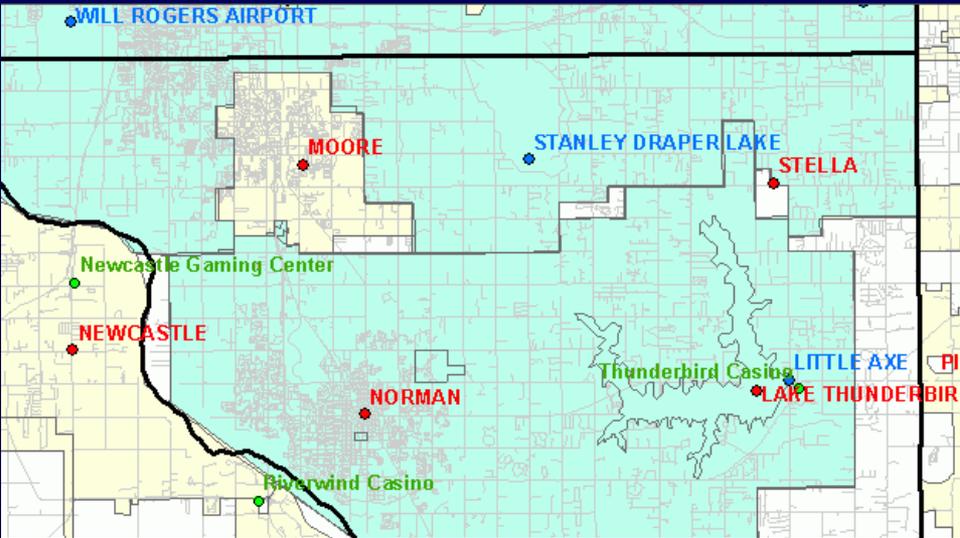
**RV Parks/Vehicles Close By**

Need Additional Resources for Casino Locations/Growth

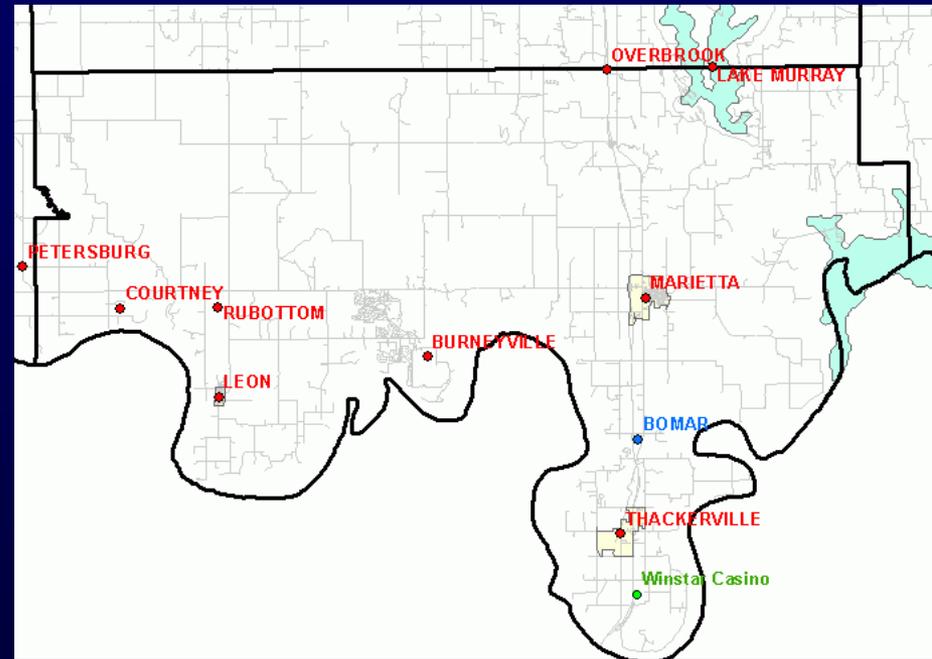
<http://500nations.com/>

# Final Thoughts:

## GIS maps for AWIPS/WarnGen

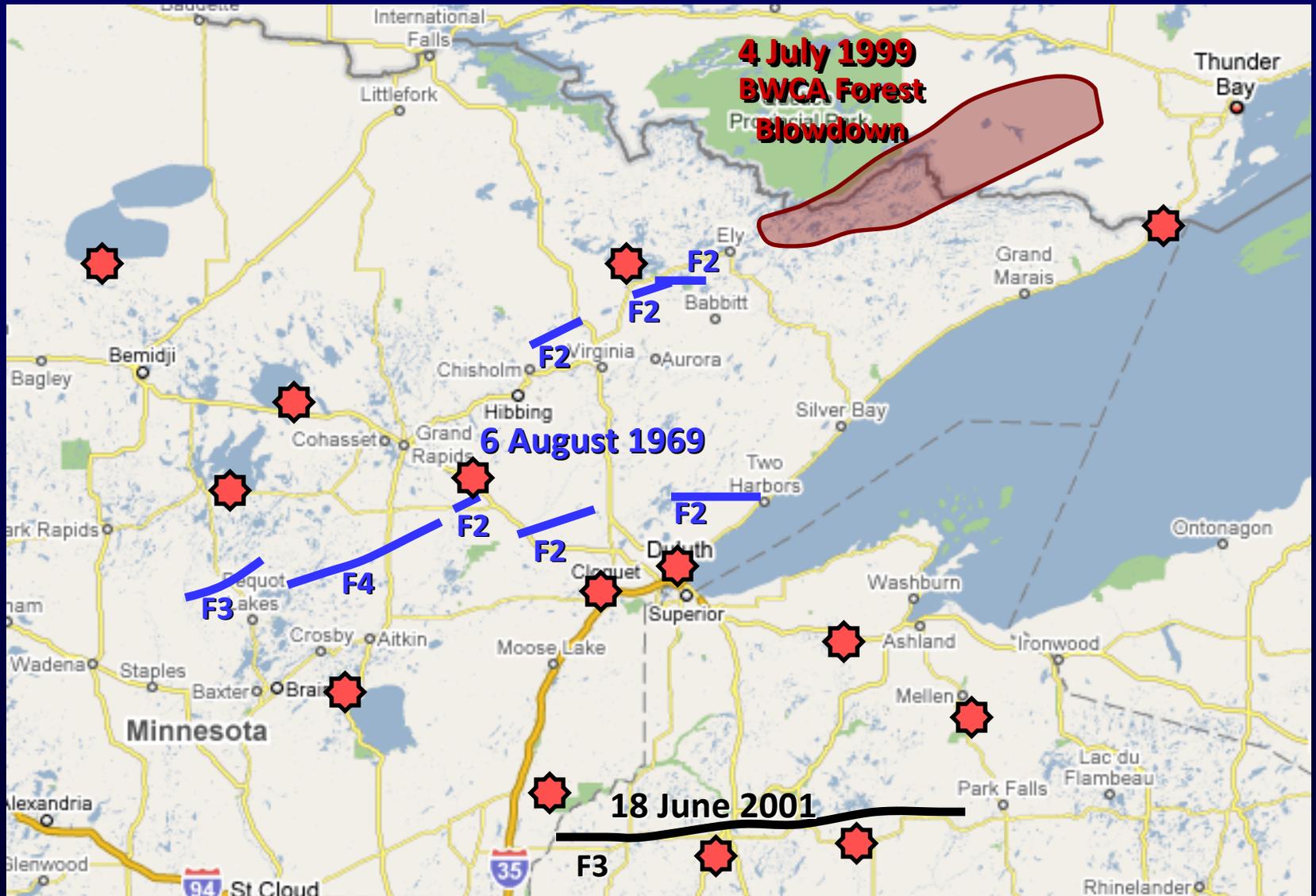


Norman/Newcastle, OK Area



Love County, OK Area

# Final Thoughts:



# Thanks For Your Attention

Questions/Comments/Discussion?

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