

# Minnesota Crash Mapping Analysis Tool MnCMAT



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**State Aid for Local Transportation**  
**Traffic Safety Support Engineer**

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# Presentation Overview

- **Development of Program**
- **MnCMAT Features**
- **Case Studies**
- **Gaining Access**
- **Future Enhancements**
- **Questions and Demonstration**

# Brief History of MnCMAT

## Developed in Iowa

- late 1990's – early 2000's
- Iowa DOT & CTRE @ ISU
- Original named Crash Mapping Analysis Tool (CMAT)

## Introduced to Minnesota in 2006

- Via County Engineers
- Funded by
  - Local Road Research Board (LRRB) Project
  - Research Implementation Committee (RIC)
  - State Aid for Local Transportation (SALT)

# Crash Analysis Tool Classification

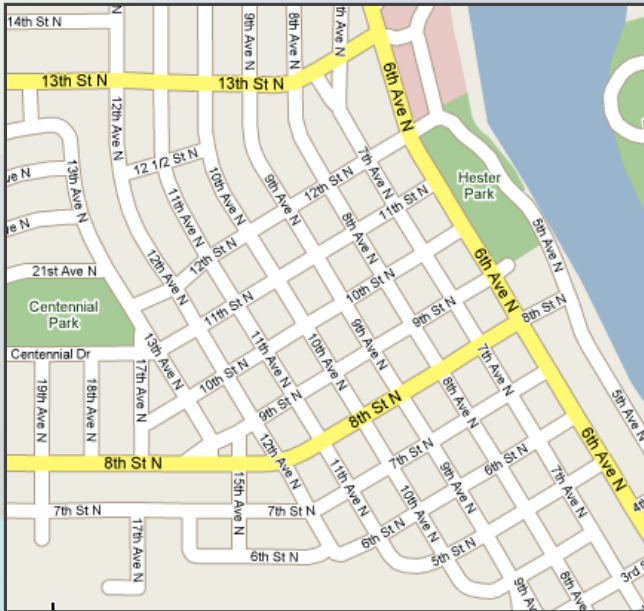
- **Macroscopic Tool**
  - Large Area Coverage
  - Trends and Statistics
- **Microscopic Tool**
  - Drill Down Capabilities
    - Filters
    - Selection Capabilities
- **GPS Based Coordinate System GIS**
- **Visual Tool**
  - Charts
  - Maps
  - Reports

# Basics of MnCMAT Program

## MnCMAT

GIS Based  
Mapping System

Mn/DOT Mainframe  
Data



## Transportation Information System (T.I.S.)

Location	Crash Type	Road Condition	Driver Data
XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX

T.I.S. Data is Generated from Law  
Enforcement and Citizen Crash  
Reports

# Basic MnCMAT Crash Analysis Process

## Step 1

- Select Area to be Analyzed

## Step 2

- Apply Filtering Criteria

## Step 3

- Process Data

## Step 4

- Generate Output
  - Maps
  - Charts
  - Reports

# Basic MnCMAT Crash Analysis Process

## Step 1

- Select Area to be Analyzed

# MnCMAT Data

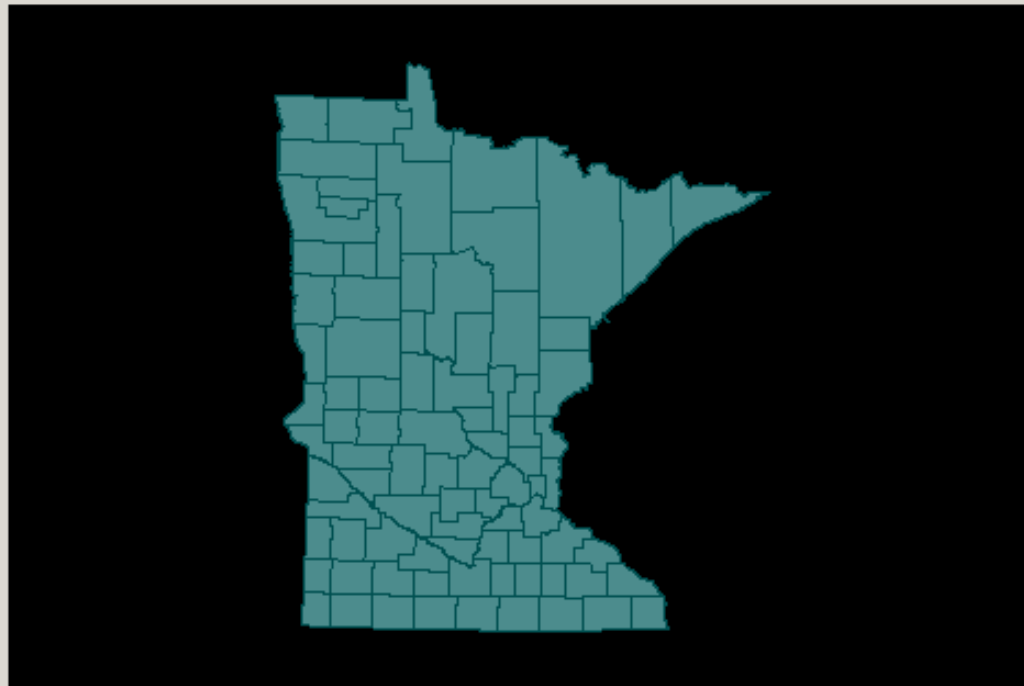
- Covers Entire State
- Primary Selection by County
- Multiple Secondary Selection Methods
  - City
  - Points
  - Areas
  - Roadway Segments
  - Roadway Corridors

# State Wide Data Set

## Geography Loader

Select desired county (or counties) using the LEFT MOUSE BUTTON or RIGHT-CLICK to make selections from a MENU.

When desired area is selected, select CREATE DATASET command using BUTTON below or RIGHT-CLICK to select command from MENU.



Create Dataset

Exit

Select County or Counties for Export...

# MnCMAT Data

- **Covers Entire State**
- **Primary Selection by County**
- **Multiple Secondary Selection Methods**
  - **City**
  - **Points**
  - **Areas**
  - **Roadway Segments**
  - **Roadway Corridors**

# Single County Selection

## Geography Loader

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When desired area is selected, select CREATE DATASET command using BUTTON below or RIGHT-CLICK to select command from MENU.



Create Dataset

Exit

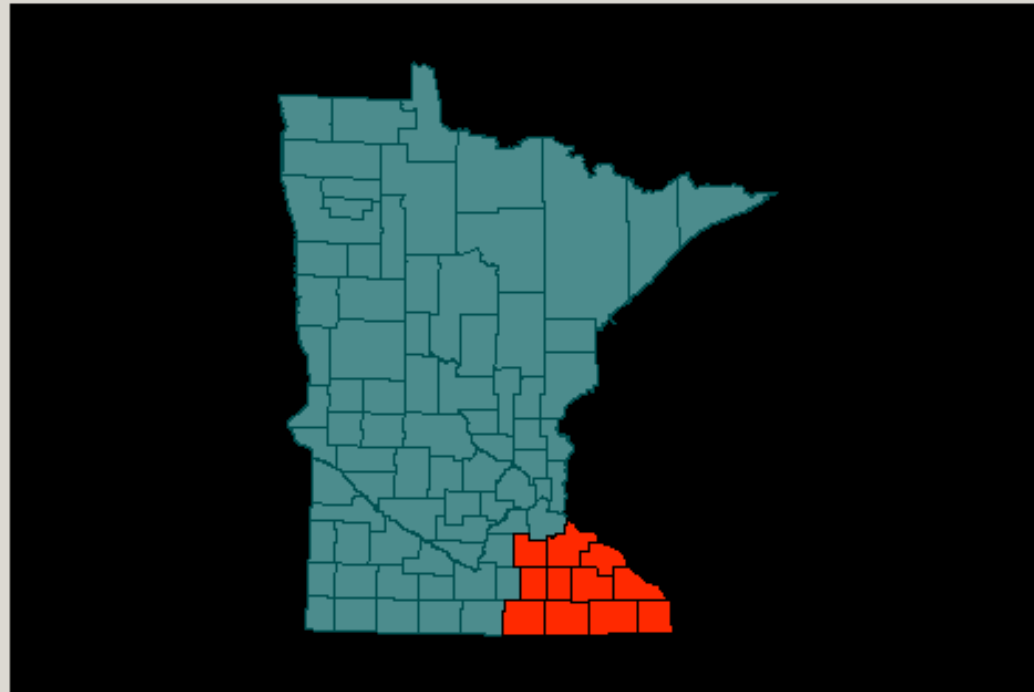
Select County or Counties for Export...

# Multiple County Selection

## Geography Loader

Select desired county (or counties) using the LEFT MOUSE BUTTON or RIGHT-CLICK to make selections from a MENU.

When desired area is selected, select CREATE DATASET command using BUTTON below or RIGHT-CLICK to select command from MENU.

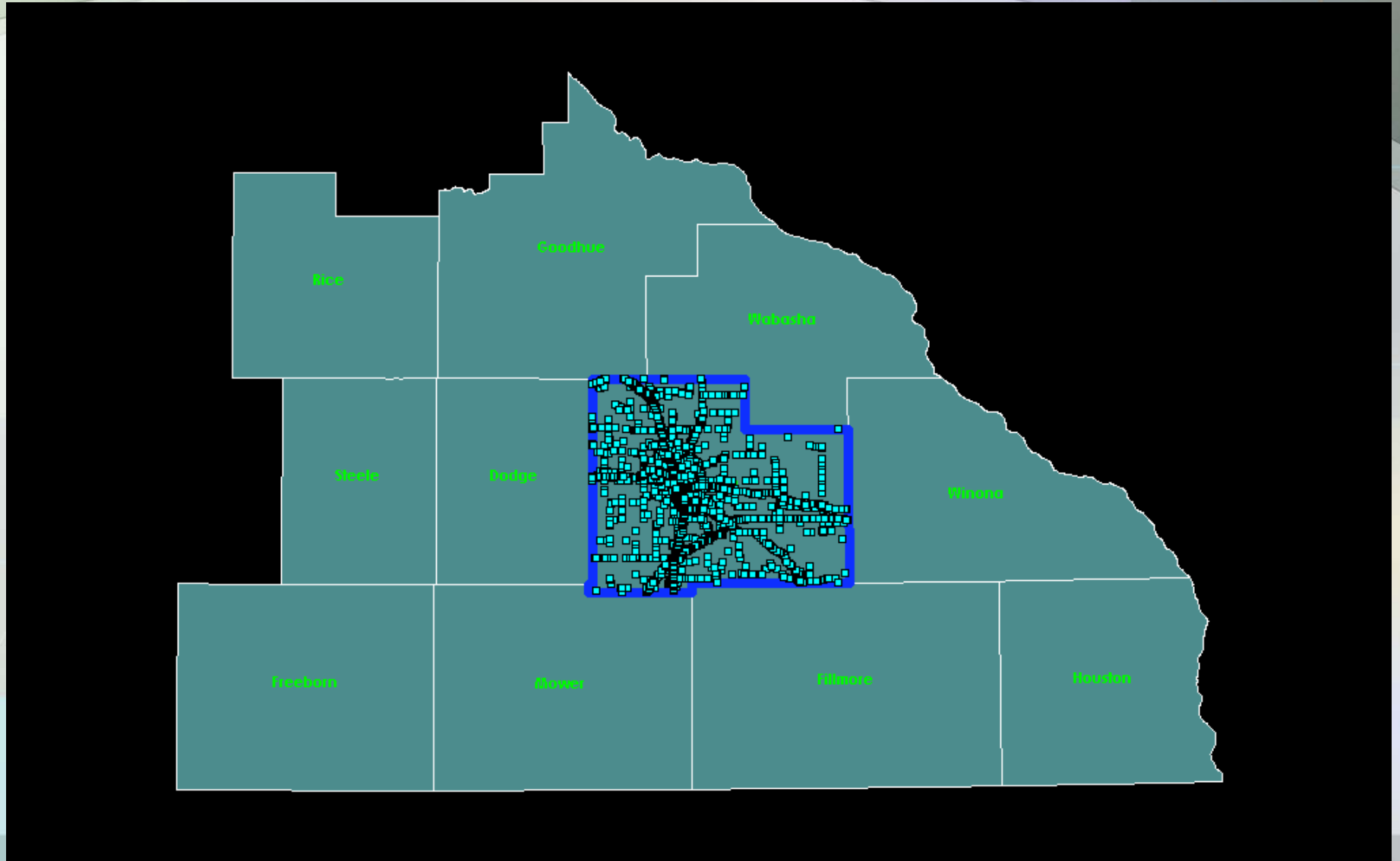


Create Dataset

Exit

Select County or Counties for Export...

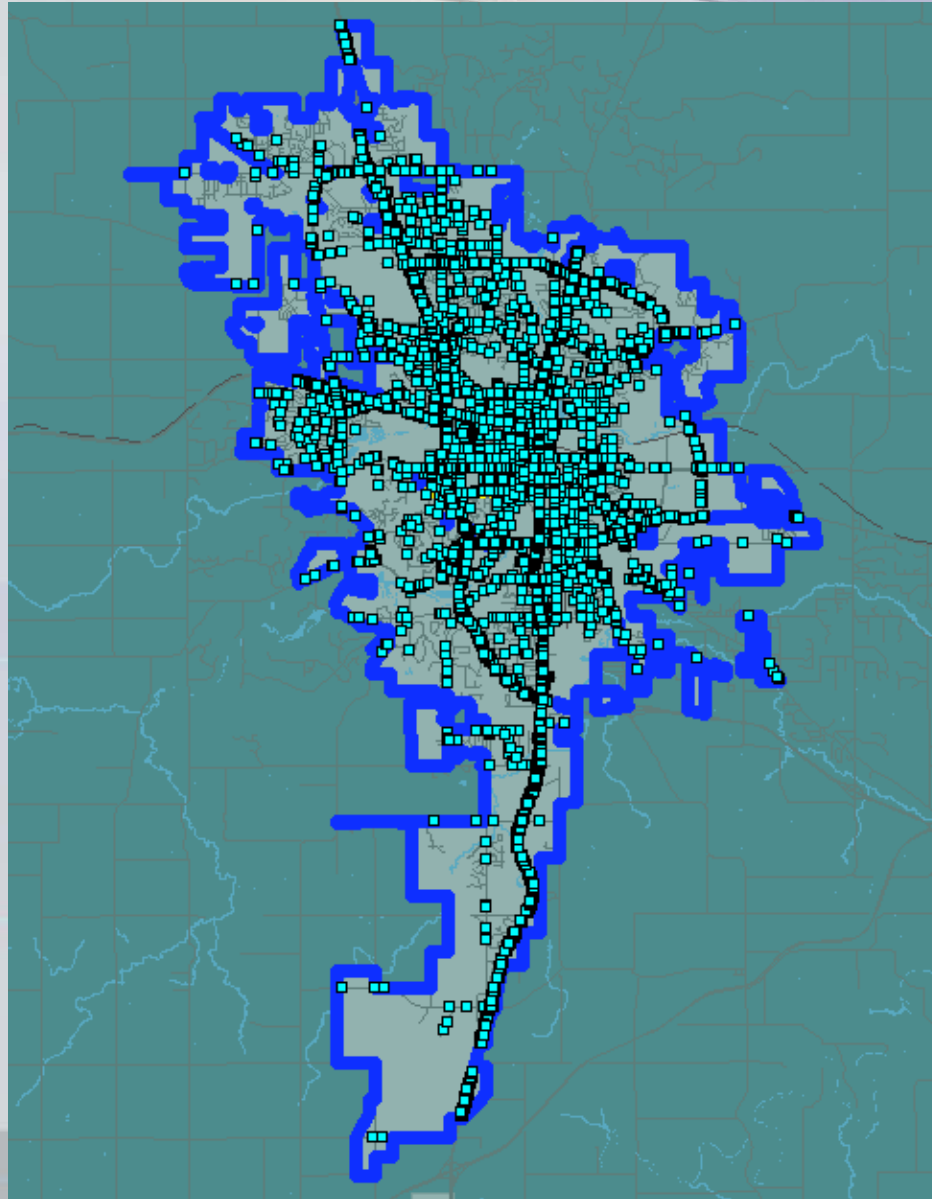
# County Selection



# MnCMAT Data

- **Covers Entire State**
- **Primary Selection by County**
- **Multiple Secondary Selection Methods**
  - City
  - Points
  - Areas
  - Roadway Segments and Corridors

# Selection by City







# MnCMAT Data

- **Covers Entire State**
- **Primary Selection by County**
- **Multiple Secondary Selection Methods**
  - **City**
  - **Points**
  - **Areas**
  - **Roadway Segments and Corridors**

# Select Crashes using POINT Selection

Minnesota Mapping Analysis Tool

File Tools Options Incident Selection Map Help



26th Ave  
7th St  
Aadli Ct  
Yates Ave

Miles 0.02 0.04 0.06

Incidents Selected: 87      Select Mode: Point      Analyzing: Minnesota DOT Crashes

# MnCMAT Data

- **Covers Entire State**
- **Primary Selection by County**
- **Multiple Secondary Selection Methods**
  - **City**
  - **Points**
  - **Areas**
  - **Roadway Segments and Corridors**

# Select Crashes using RECTANGLE Selection

The screenshot displays the Minnesota Mapping Analysis Tool interface. The main map area shows a road network with a blue rectangle selection box highlighting a segment of a road. The road is labeled "Brooklyn Blvd". Other roads visible include "Wingz & La", "Noble Ave", "Woodbine La", and "72nd Ave". A scale bar in the top right corner indicates distances in miles (0.02, 0.04, 0.06). The status bar at the bottom shows "Incidents Selected: 14", "Select Mode: Rectangle", and "Analyzing: Minnesota DOT Crashes".

Minnesota Mapping Analysis Tool

File Tools Options Incident Selection Map Help

Miles 0.02 0.04 0.06

Woodbine La

Wingz & La

Noble Ave

72nd Ave

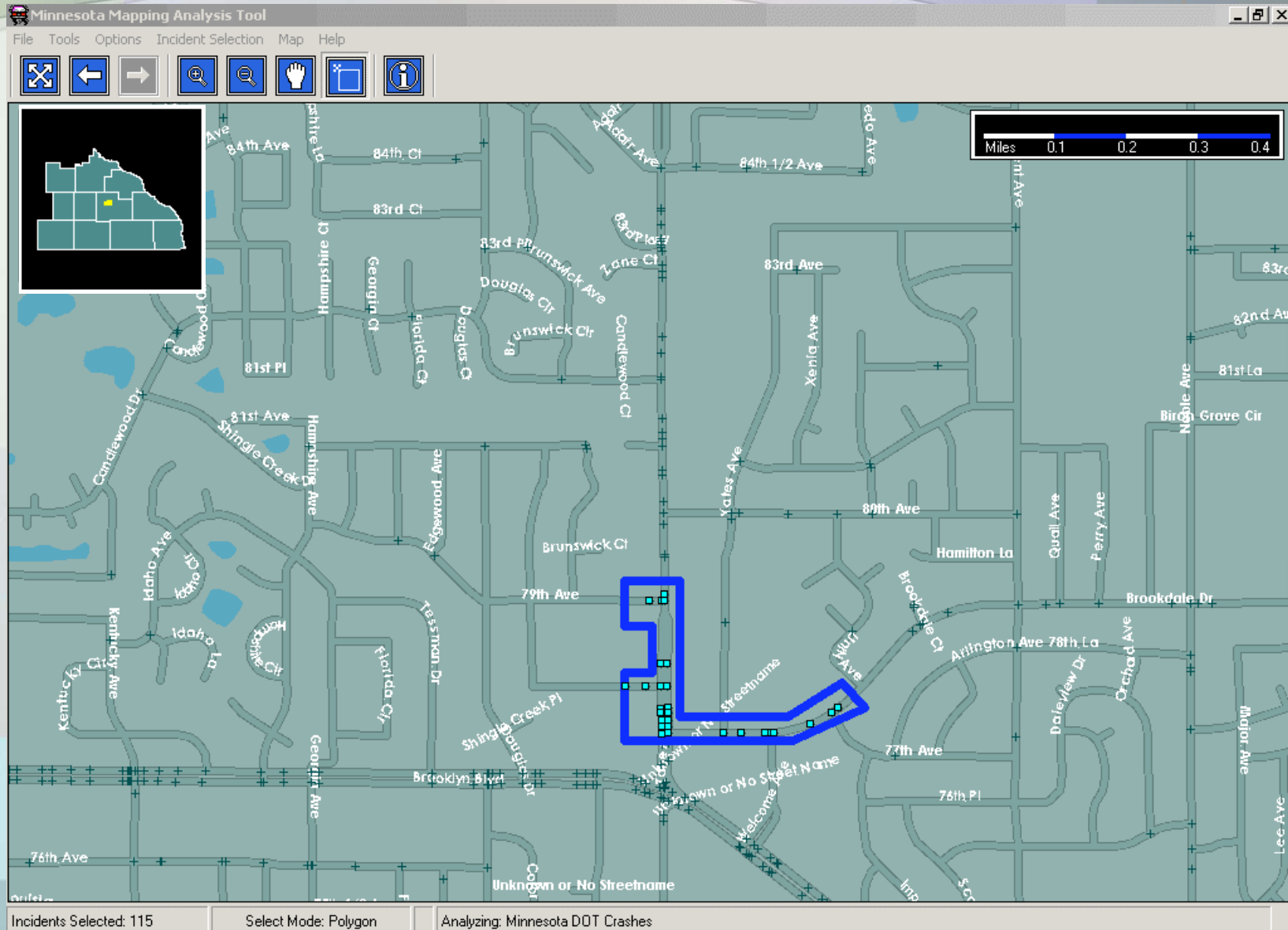
Brooklyn Blvd

Incidents Selected: 14

Select Mode: Rectangle

Analyzing: Minnesota DOT Crashes

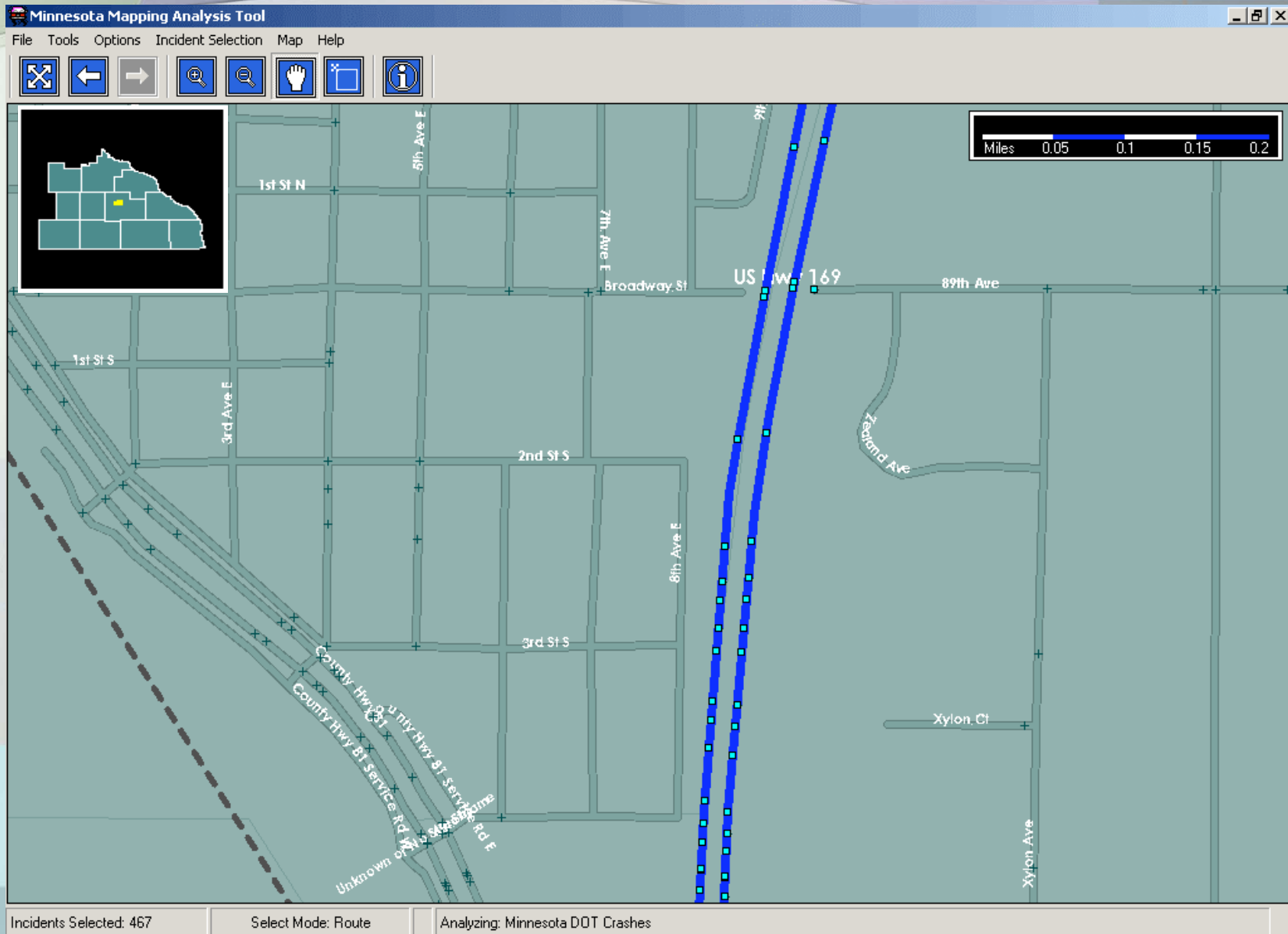
# Select Crashes using POLYGON Selection



# MnCMAT Data

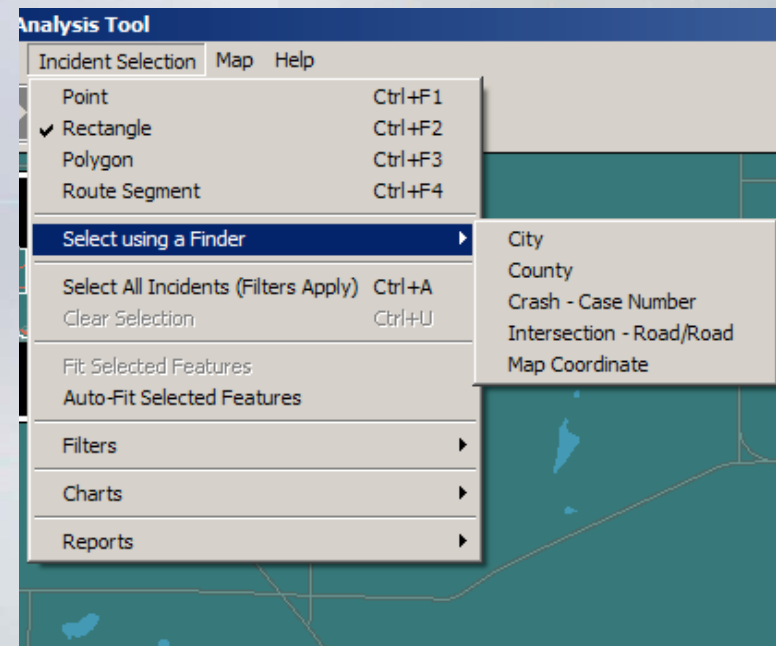
- **Covers Entire State**
- **Primary Selection by County**
- **Multiple Secondary Selection Methods**
  - City
  - Points
  - Areas
  - Roadway Segments and Corridors

# Select Crashes using ROUTE Selection



# Select Location by Finder Methods

- City
- County
- Crash - Case Number
- Intersection - Road / Road
- GPS Coordinates



# Basic MnCMAT Crash Analysis Process

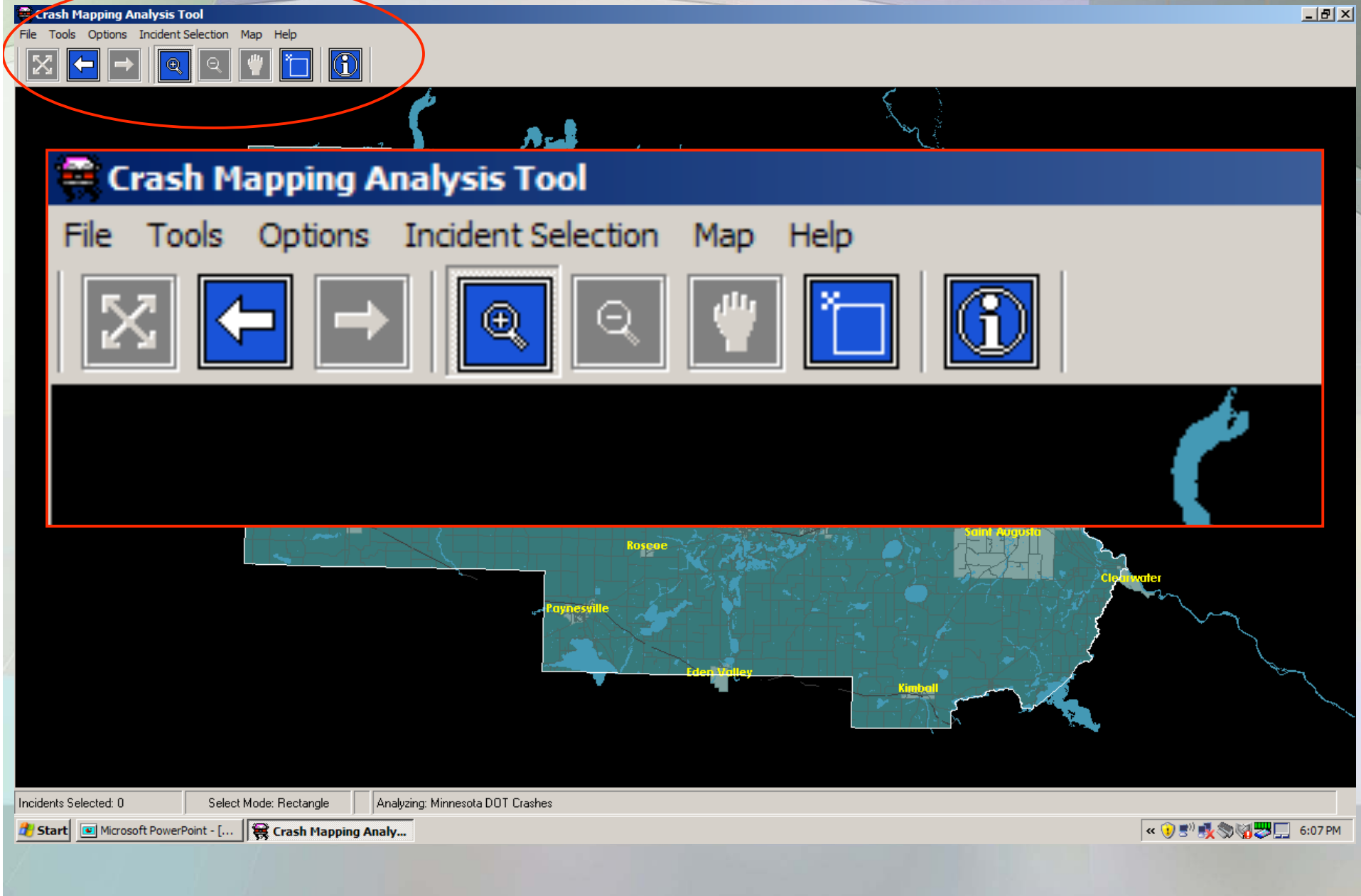
## Step 1

- Select Area to be Analyzed

## Step 2

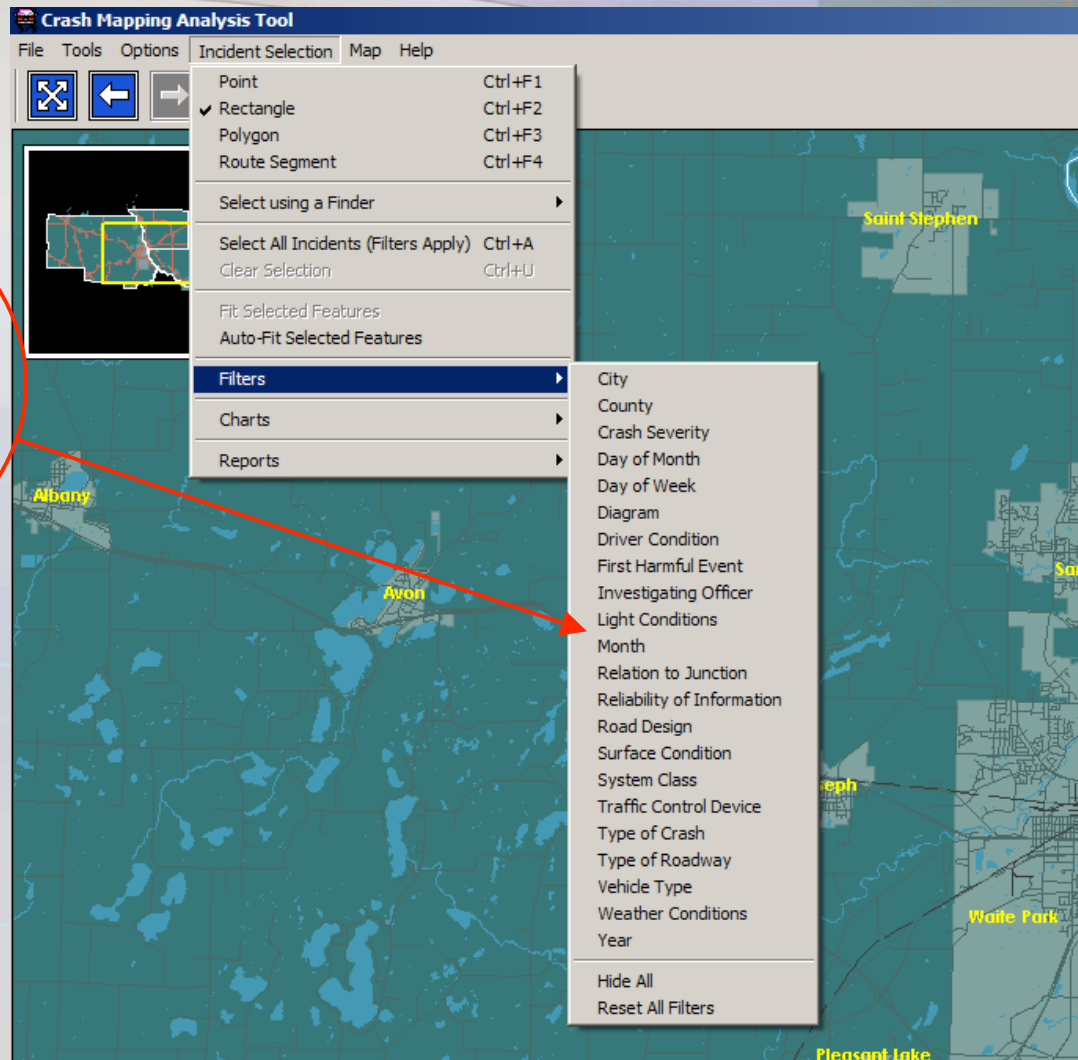
- Apply Filtering Criteria

# Standard Windows Style Toolbar



# Filter Selection

Input to Select Search Criteria to Determine type of Data Output



# Filter Categories

- City
- County
- Crash Severity
- Day of Month
- Day of Week
- Diagram
- Driver Condition
- First Harmful Event
- Investigating Officer
- Light Conditions
- Month
- Relation to Junction
- Reliability of Information
- Road Design
- Surface Conditions
- System Class
- Traffic Control Device
- Type of Crash
- Type of Roadway
- Vehicle Type
- Weather Conditions
- Year

## Filters Within MnCMAT

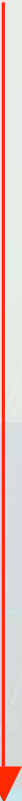
- **Select the data applicable to the situation of interest.**
- **single or multiple filters may be applied.**
- **Each filter provides “AND” logic between filter categories and “OR” logic within each filter**

# Filters Within MnCMAT

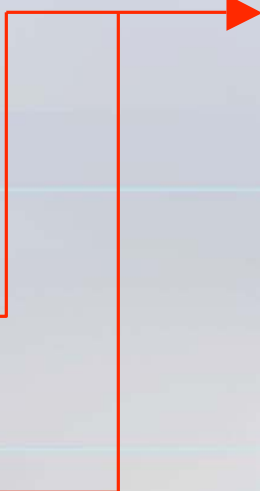
Year

- 1996
- 1997
- 1998
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005

OR



AND



Crash Severity

- FATAL
- INJURY - INCAPACITATING INJURY
- INJURY - NON-INCAPACITATING INJURY
- INJURY - POSSIBLE INJURY
- PROPERTY DAMAGE - NO APPARENT INJURY

# Basic MnCMAT Crash Analysis Process

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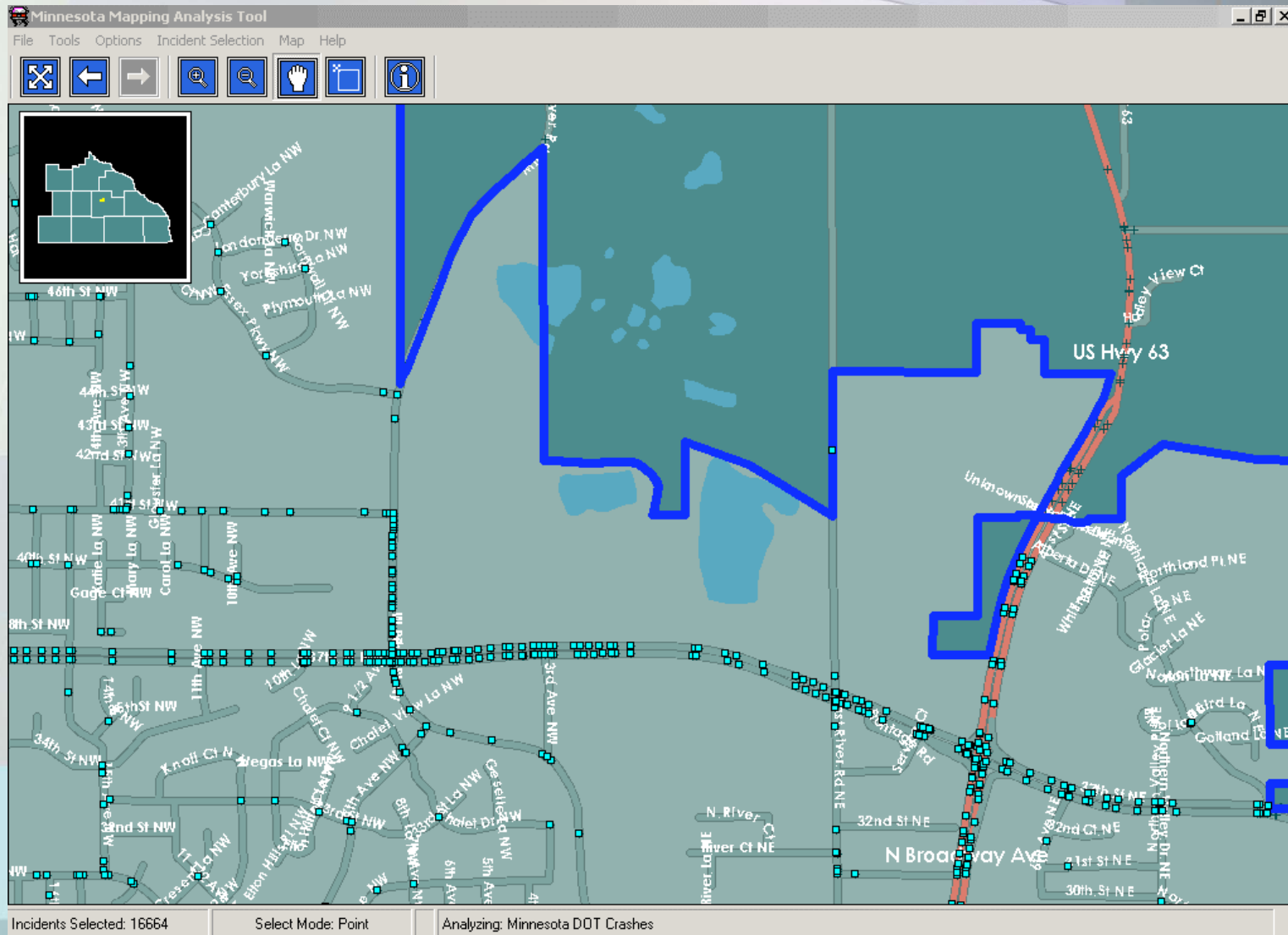
## Step 4

- Generate Output
  - Maps
  - Charts
  - Reports

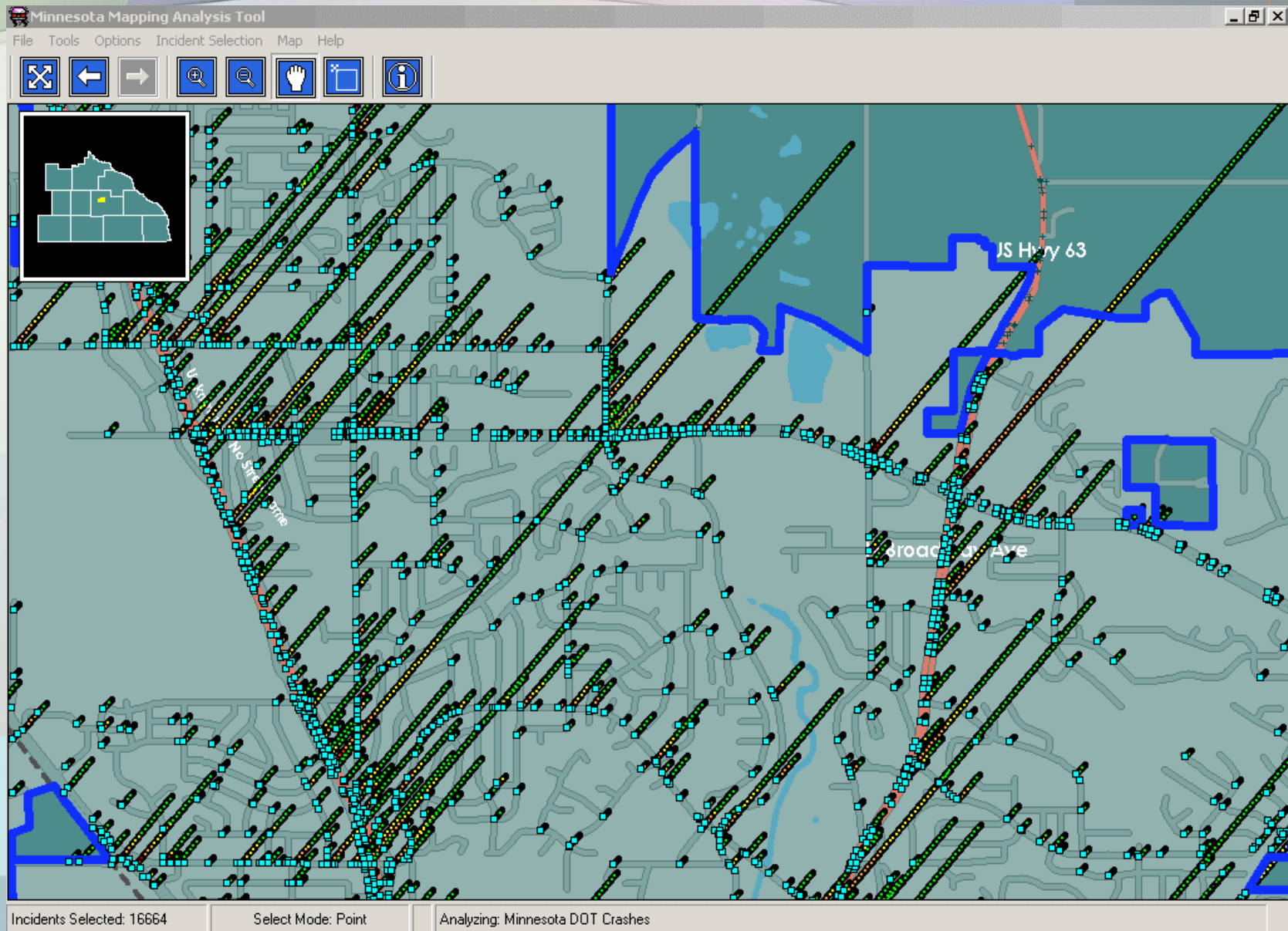


# Graphical Outputs

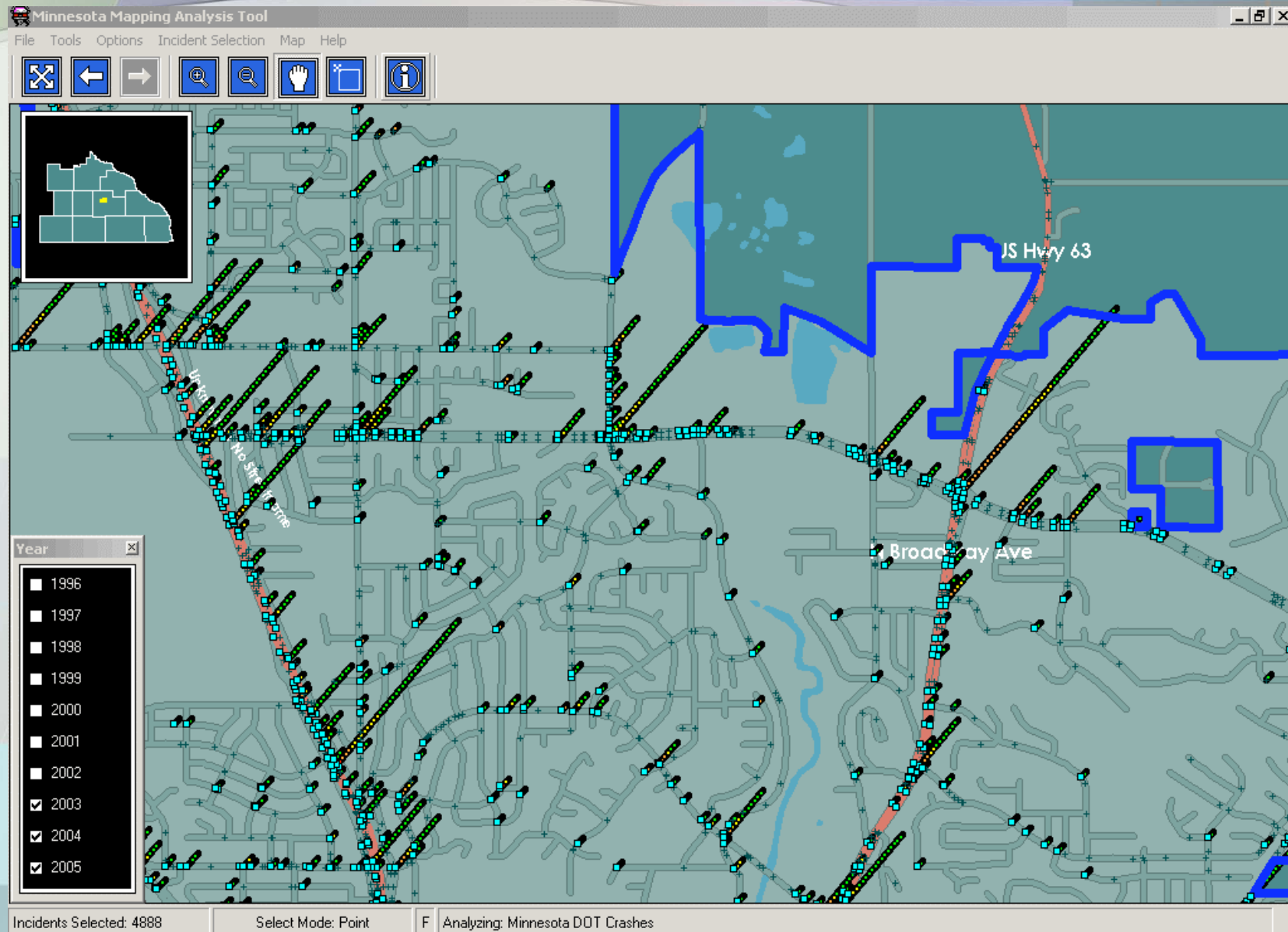
# View of Crash Incidents in Larger Area



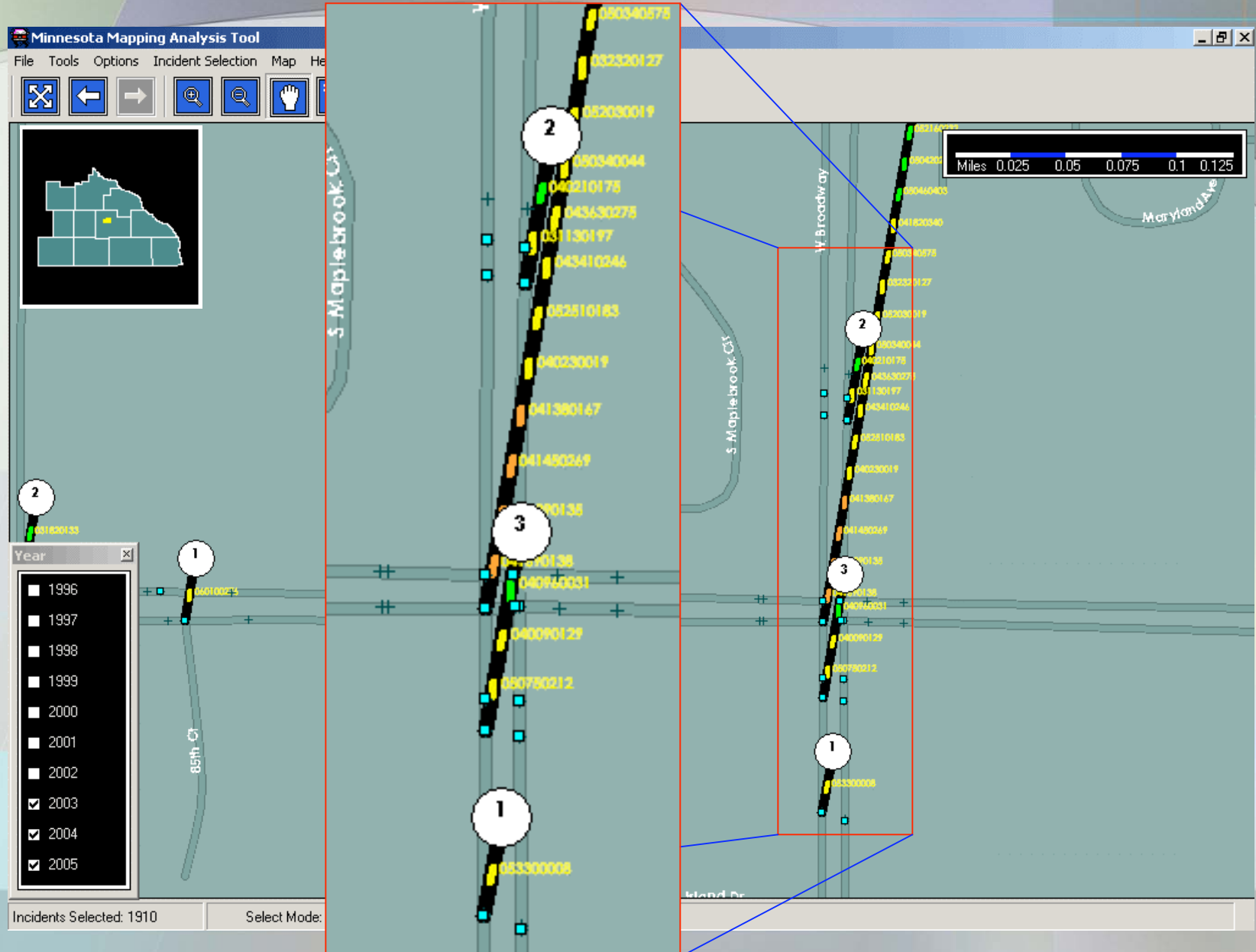
# Wide Area Crash Locations with Stacker



# Stacker Selection with Year Filter



# Zoom View of Stacker Pin & Crash ID Number



# Crash Data Using the i Button

Minnesota Mapping Analysis Tool

File Tools Options Incident Selection Map Help

**Year**

- 1996
- 1997
- 1998
- 1999
- 2000
- 2001
- 2002
- 2003
- 2004
- 2005

**Selection Info**

Selected Case Numbers

- 032240104
- 032270084
- 031540040
- 033350245
- 032330330
- 032810094

Record 1 of 646

Auto-Center

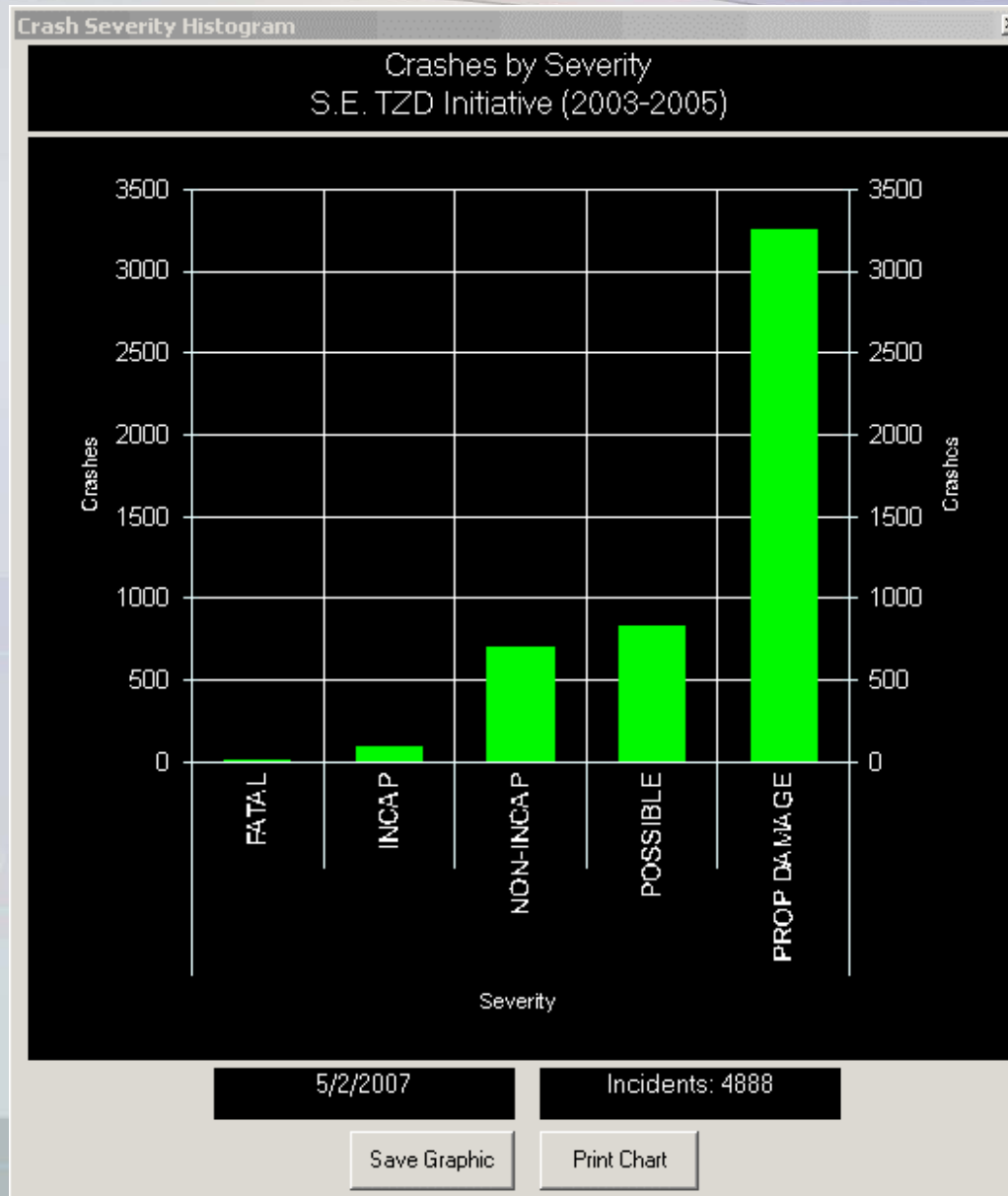
System Class:	<input checked="" type="checkbox"/> Minnesota Trunk Highway
Route ID:	00000007
Route Reference Point:	141+00.970
Location Measure:	141.951
Interchange Element:	
Reliability:	<input checked="" type="checkbox"/> CONFIDENT

Incidents Selected: 646    Select Mode: Point    F Analyzing: Minnesota DOT Crashes

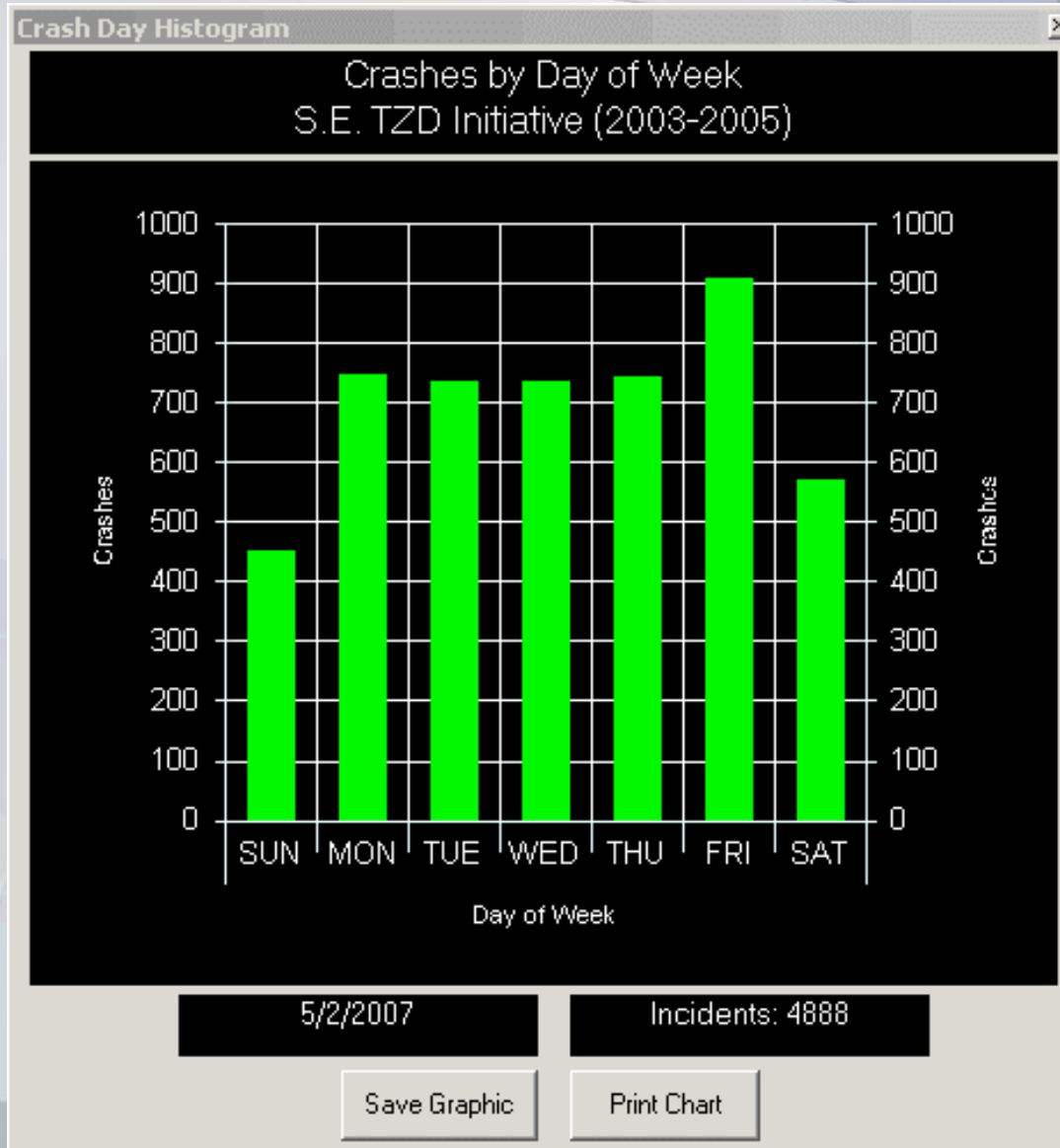
# Charts

The background features a complex, abstract composition of overlapping, semi-transparent shapes. A large, central shape in a deep blue-purple hue dominates the middle. To its left, a lighter greenish-blue shape overlaps it. Below the central shape, a teal-colored shape is visible. The right side of the image is filled with various overlapping shapes in shades of light blue, green, and purple, creating a layered, ethereal effect. The overall aesthetic is modern and digital.

# Severity Type



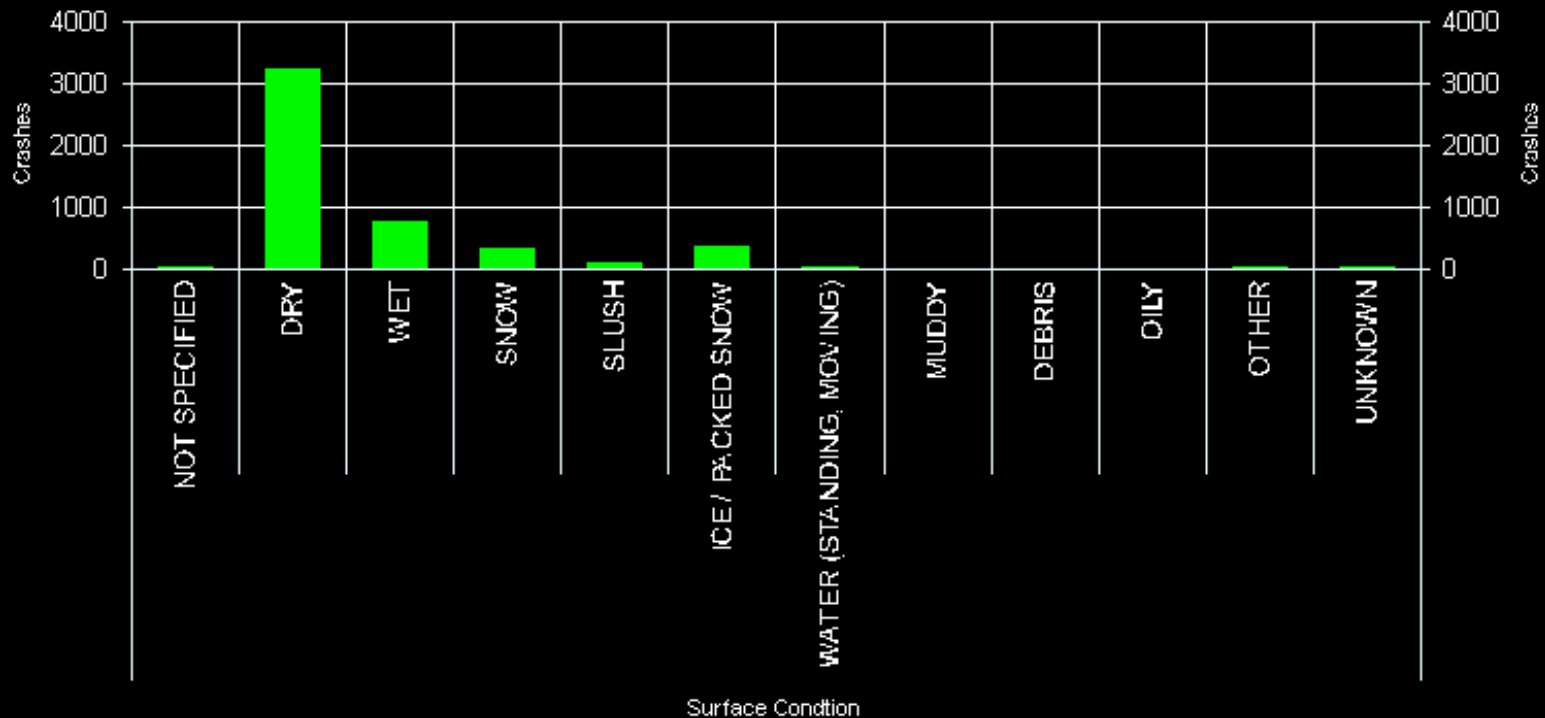
# Day of Week



# Roadway Surface Conditions

Roadway Surface Conditions

Crashes by Roadway Surface Conditions  
S.E. TZD Initiative (2003-2005)



5/2/2007

Incidents: 4888


Save Graphic

Print Chart

# Reports

The background features a complex, abstract design with overlapping translucent shapes. A large, dark blue shape dominates the center, with lighter blue and green shapes layered on top and bottom. The overall effect is a sense of depth and movement. The word 'Reports' is positioned on the left side, overlaid on the blue shapes.

# Summary Report

 <b>Crash Type Summary</b> City of Brooklyn Park (1996-2005)																																															
<b>Analysis Years:</b> 1996 [103], 1997 [94], 1998 [78], 1999 [72], 2000 [96], 2001 [68], 2002																																															
<b>Crash Summary:</b> <table border="1"> <tr><td>Fatal</td><td>2</td></tr> <tr><td>Incapacitating</td><td>32</td></tr> <tr><td>Non-Incapacitating</td><td>172</td></tr> <tr><td>    Possible</td><td>202</td></tr> <tr><td>Property Damage</td><td>317</td></tr> <tr><td><b>Total Crashes</b></td><td><b>725</b></td></tr> </table>	Fatal	2	Incapacitating	32	Non-Incapacitating	172	Possible	202	Property Damage	317	<b>Total Crashes</b>	<b>725</b>	<b>Surface Condition Summary:</b> <table border="1"> <tr><td>Dry</td><td>541</td><td>Muddy</td><td>-</td></tr> <tr><td>Wet</td><td>78</td><td>Debris</td><td>1</td></tr> <tr><td>Snow</td><td>40</td><td>Oily</td><td>-</td></tr> <tr><td>Slush</td><td>1</td><td>Not Specified</td><td>-</td></tr> <tr><td>Ice/Packed Snow</td><td>51</td><td>Other</td><td>8</td></tr> <tr><td>Water (Stand, Moving)</td><td>-</td><td>Unknown</td><td>5</td></tr> <tr><td colspan="2"><b>Total Crashes</b></td><td colspan="2"><b>725</b></td></tr> </table>	Dry	541	Muddy	-	Wet	78	Debris	1	Snow	40	Oily	-	Slush	1	Not Specified	-	Ice/Packed Snow	51	Other	8	Water (Stand, Moving)	-	Unknown	5	<b>Total Crashes</b>		<b>725</b>							
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<b>Selection Filter:</b> ((LIT = '01' or LIT = '02' or LIT = '03')) AND ((TCD = '03' or TCD = '04'))																																															
<b>Analyst:</b> MEV	<b>Notes:</b> EXAMPLE																																														

# Report by Crash Number



## Crash Case Number Listing

City of Brooklyn Park (1996-2005)

Excel Version: 12 Feb 2006

Date	DOT Case #	County	City	Crash Sev.	Type of Crash
01/01/1996	960010084	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/01/1996	960010315	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	OTHER TYPE OF CRASH
01/01/1996	960010649	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/02/1996	960020226	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/02/1996	960020479	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/03/1996	960030085	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH PEDESTRIAN
01/03/1996	960030097	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/04/1996	960040312	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
01/05/1996	960050297	Hennepin	BROOKLYN PARK	INJURY - NON-INCAPACITATING INJURY	COLLISION WITH MOTOR VEHICLE IN
01/12/1996	960120067	Hennepin	BROOKLYN PARK	INJURY - NON-INCAPACITATING INJURY	COLLISION WITH MOTOR VEHICLE IN
01/12/1996	960120453	Hennepin	BROOKLYN PARK	INJURY - NON-INCAPACITATING INJURY	COLLISION WITH MOTOR VEHICLE IN
01/17/1996	960170131	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/19/1996	960190323	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/19/1996	960190640	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/24/1996	960240135	Hennepin	BROOKLYN PARK	INJURY - NON-INCAPACITATING INJURY	COLLISION WITH MOTOR VEHICLE IN
01/24/1996	960240360	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
01/27/1996	960270547	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/29/1996	960290306	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
01/31/1996	960310091	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
01/31/1996	960310191	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
02/09/1996	960400075	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
02/14/1996	960450157	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
02/17/1996	960480002	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
02/26/1996	960570129	Hennepin	BROOKLYN PARK	PROPERTY DAMAGE - NO APPARENT INJURY	COLLISION WITH MOTOR VEHICLE IN
02/29/1996	960600206	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
03/01/1996	960610249	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
03/04/1996	960640316	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN
03/07/1996	960670213	Hennepin	BROOKLYN PARK	INJURY - POSSIBLE INJURY	COLLISION WITH MOTOR VEHICLE IN

# Extended Detailed Report

 **Crash Detail Report**  
City of Brooklyn Park (1996-2005)

**960010084** 01/01/1996 1300 Sys: 05  
County:Hennepin City:BROOKLYN PARK Route: 04650110 (001+00.960)

Severity:PROPERTY DAMAGE - NO First Harmul Event:UNKNOWN  
Roadway Type:UNKNOWN Relation to Junction:OFFICER REPORTED THAT INTREL  
Type of Crash:COLLISION WITH MOTOR VEHICLE Traffic Cont. Device:STOP SIGN - OTHER  
Surface Conditions:WET Speed Limit:45  
Light Conditions:DAYLIGHT Diagram Location:OFFICER REPORTED THAT  
Weather Cond 1:SNOW Investigating Officer:NOT APPLICABLE (CITIZEN  
Weather Cond 2:NOT SPECIFIED Reliability of Info:CONFIDENT  
Number of Vehicles:02

	Unit 1	Unit 2	Unit 3
Init Trav Dir:	NORTH	NORTH	-
Veh Action:	VEHICLE - GOING STRAIGHT	VEHICLE - MAKING LEFT TURN	-
Configuration:	PASSENGER CAR	PASSENGER CAR	-
Driver Age:	016	017	-
Driver Gender:	M	M	-
Driver Cond:	UNKNOWN	UNKNOWN	-
Drivr Contr 1:	UNKNOWN	UNKNOWN	-
Drivr Contr 2:	UNKNOWN	UNKNOWN	-

**960010315** 01/01/1996 1700 Sys: 05  
County:Hennepin City:BROOKLYN PARK Route: 04650117 (000+00.000)

Severity:PROPERTY DAMAGE - NO First Harmul Event:UNKNOWN  
Roadway Type:UNKNOWN Relation to Junction:OFFICER REPORTED THAT INTREL  
Type of Crash:OTHER TYPE OF CRASH Traffic Cont. Device:STOP SIGN - OTHER  
Surface Conditions:ICE / PACKED SNOW Speed Limit:30  
Light Conditions:SUNSET Diagram Location:OFFICER REPORTED THAT  
Weather Cond 1:SLEET, HAIL, OR FREEZING Investigating Officer:NOT APPLICABLE (CITIZEN  
Weather Cond 2:NOT SPECIFIED Reliability of Info:CONFIDENT  
Number of Vehicles:02

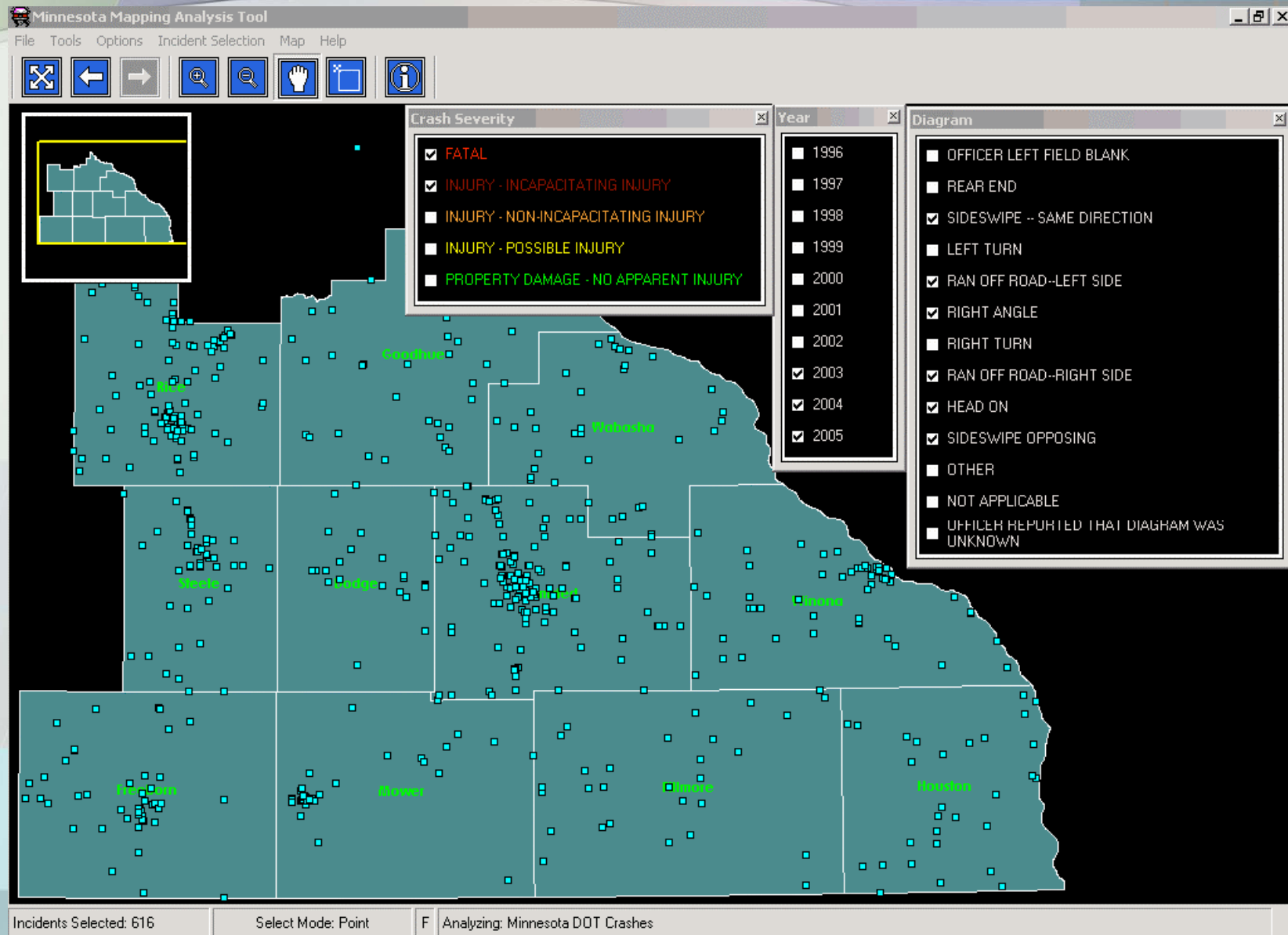
	Unit 1	Unit 2	Unit 3
Init Trav Dir:	SOUTH	NORTH	-
Veh Action:	VEHICLE - STOPPED IN	VEHICLE - GOING STRAIGHT	-
Configuration:	PICKUP	PASSENGER CAR	-
Driver Age:	053	023	-
Driver Gender:	M	F	-
Driver Cond:	UNKNOWN	UNKNOWN	-
Drivr Contr 1:	UNKNOWN	UNKNOWN	-
Drivr Contr 2:	UNKNOWN	UNKNOWN	-

# Case Study No. 1

## Lane Departures

Q. "How do fatal and life changing crash vary by location and frequency for lane departure crashes across the SE TZD Area?"

# Lane Departure Crashes by Severity



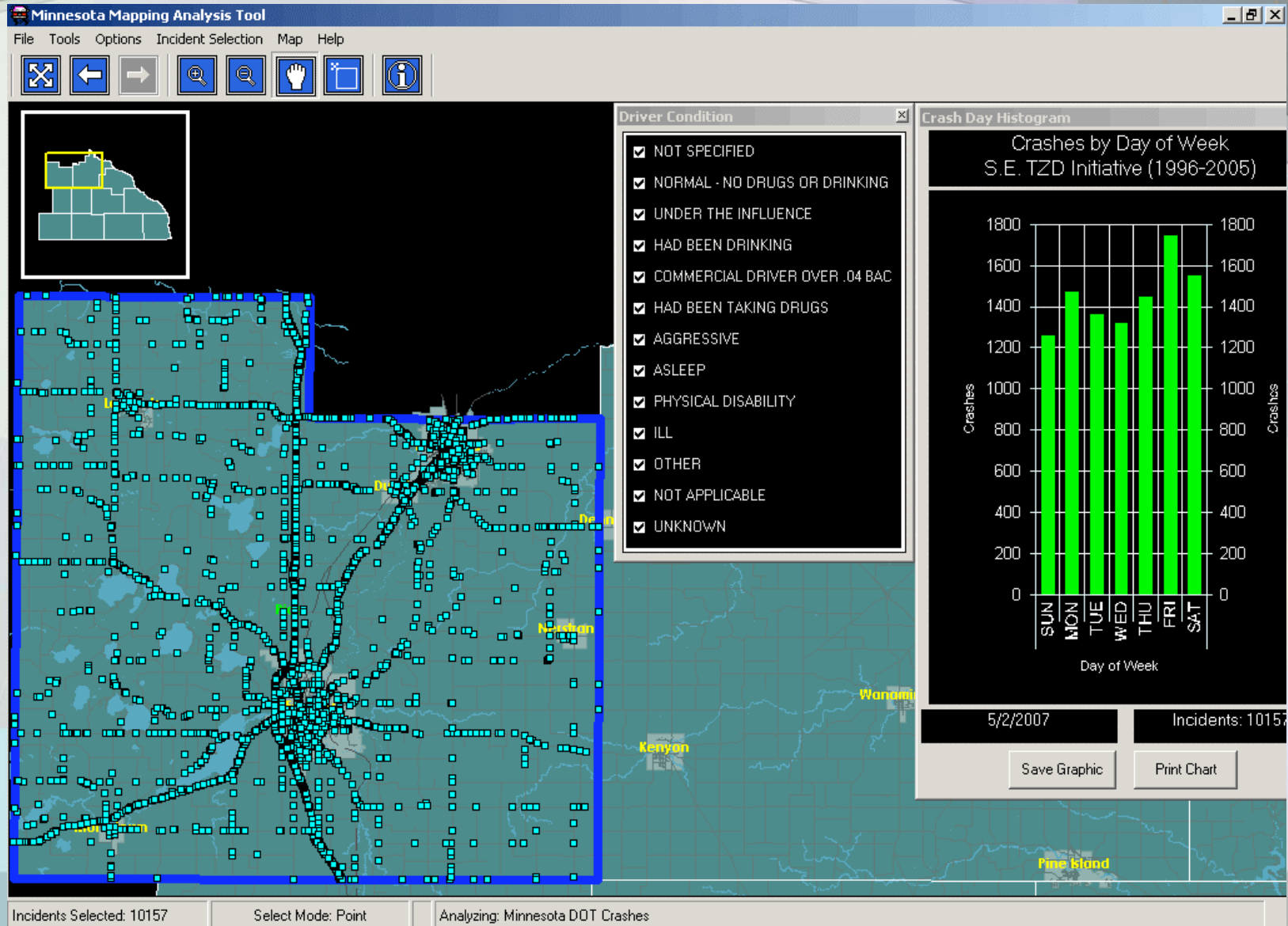
# Case Study No. 2

## Human Factors

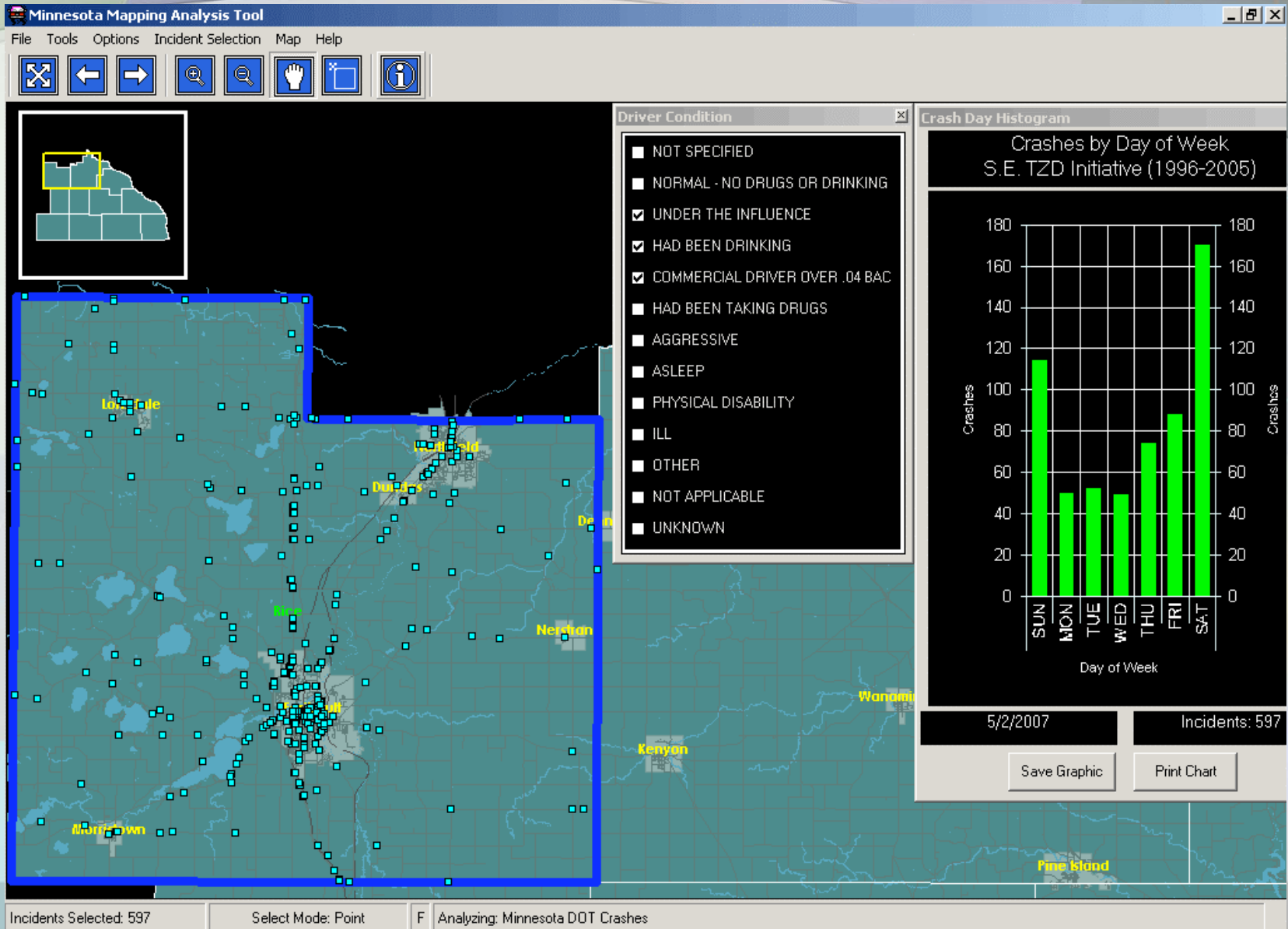
Q. "What are the best days for enforcement of DWI and related drinking issues?"



# Unfiltered Crash Data



# Filtered Crash Data



# MnCMAT Distribution

- **Being Supplied by Mn/DOT – State Aid**
- **No additional software required**
- **No Cost to City or County Agencies or Other Entities Approved by a City or County**

# State Aid for Local Transportation's Website

CMAT - Microsoft Internet Explorer

File Edit View Favorites Tools Help

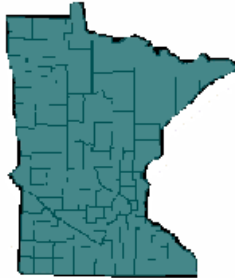
Back Forward Stop Home Search Favorites Refresh Print Mail News RSS

Address [http://www.dot.state.mn.us/stateaid/res\\_crash\\_map\\_tool.html](http://www.dot.state.mn.us/stateaid/res_crash_map_tool.html) Go Links >>

Google G Go Bookmarks 2 blocked Check Look for Map AutoFill Send to Settings

## STATE AID FOR LOCAL TRANSPORTATION

### Minnesota Crash Mapping Analysis Tool



The Minnesota Crash Mapping Analysis Tool (MnCMAT) enables users to analyze crash data based on a number of attributes, including County, City and accident case number, just to name a few. The development of this graphical application provides Transportation Professional's with a powerful tool for grouping and analysis crash data.

This easy to use software produces a map with plotted crash locations, a series of charts and automated crash reports based to selected crash data. The software uses data filters to reduce the number selected incidents, allowing users to customize crash data searches to their requirements.

[MnCMAT Lecture Notes](#)   [MnCMAT Installation Instructions](#)   [MnCMAT Exercises](#)

[MnCMAT Analysis Tool](#)   [Get the Application](#)

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Comprehensive Hwy  
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Revised Rules  
10-Ton Project  
Mission Study  
SA Plans  
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FAQ

Internet

# Approval Form for Governmental Use

Model 04/17/2007



Minnesota Department of Transportation  
State Aid for Local Transportation

## Governmental Agency Request Form for Use of the Minnesota Crash Mapping Analysis Tool



The Mn/DOT Division, State Aid for Local Transportation (SALT) requires, that prior to receiving the Minnesota Crash Mapping Analysis Tool (MnCMAT) software, notification and approval for release must be granted to the requesting Agency by the County or City Engineer within that Agency's legal jurisdiction.

- This software is only a tool and DOES NOT in any way replace sound Engineering Judgment.
- The crash data used by this software can be and is subject to errors and changes.
- Interpretation of the accident data in any form of output (maps, charts, reports, and exports) requires the use of Engineering Judgment; therefore, the requesting Agency should partner with the County or City Engineer within the requesting Agency's legal jurisdiction.
- Approval for the use of the software, as granted by a County or City, is only required once by the County or City Engineer within your Agency's legal jurisdiction.
- SALT maintains the right to revoke all privileges of use at any time due to misuse.

### Rules Pertaining to Usage:

The SALT Office requires that the requesting Agency hold itself to the highest level of principles pertaining to the use of this software. This software has been developed by and for the County and City Engineer's of Minnesota. There is no cost associated with the installation of this software, but we ask that you limit the number of installations due to a limited number of licenses.

The State, County and Municipal Transportation Authorities of Minnesota make no representation or warranties, express or implied, with respect to the reuse of the data provided herewith, regardless of its format or means of its transmission. There is no guarantee or representation to the user as to the accuracy, currentness, suitability, or reliability of this data for any purpose. The user accepts that data "as is", and assumes all risks associated with its use. The State, County and Municipal Transportation Authorities of Minnesota assume no responsibility, actual or consequential damage, as a result of any user's reliance of this data.

### Agency Requesting Approval

Agency: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Email: \_\_\_\_\_

### County/City Granting Approval

Agency: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Email: \_\_\_\_\_

Email addresses will be only be used to provide information (updates, errors, etc.) pertaining to this application.

By submitting this form, you are stating that you understand that this application is only a tool and that Engineering Judgment must be used when interpreting all data. You are also agreeing that you understand that the data set used by this program is subject to errors and changes, therefore not to be assumed as absolute. The Minnesota Department of Transportation, State Aid Division maintains all rights to this application and may revoke your privileges of use at any time.

# Approval Form for Consultants Use

MADE IN U.S.A.



Minnesota Department of Transportation  
State Aid for Local Transportation

## Approval Form for Consultants Use of the Minnesota Crash Mapping Analysis Tool



Document ID: 1001

### Approval for Use

As a consultant, the Mn/DOT Division of State Aid for Local Transportation (SALI) is requesting that your firm receive approval from a County or City Engineer to use the Minnesota Crash Mapping Analysis Tool (Mn/CMAI) software as a resource for conducting business with and/or for a County or City.

- > Approval for the use of the software, as granted by a County or City, is only required once.
- > It covers all project or reports that would be completed by your firm provided the project or report pertains to work directly requested by the County or City.
- > SALI maintains the right to revoke your firm's privilege of use at any time due to misuse.

### Rules Pertaining to Usage

As Transportation Professionals, the SALI Office believes that your firm will hold itself to the highest level of principles pertaining to the use of the software. This software has been developed by and for the County and City Engineers of Minnesota. There is no cost associated with the installation of this software, but we ask that you limit the number of installations due to a limited number of licenses.

The following list has been developed to help provide guidance for the use of the software, as a consultant while performing work for a County or City; this list is not exhaustive.

- > When used as a resource the County or City should NOT be charged for the use of the software.
- > A disclosure of its use should also be provided within any report or other documentation that is developed.
- > The software should only be used for conducting business as it pertains to your firm's duties with a County or City.
- > Unless requested by a County or City this software should not be used to seek out areas of "great potential", i.e. used as resource for "ambulance chasing" or developing business.

Consulting Firm Requesting Approval

County/City Granting Approval

Firm: \_\_\_\_\_

Agency: \_\_\_\_\_

By: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

By submitting this form, you are certifying that you understand that this application is only a tool and that Engineering Judgment must be used when interpreting all data. You are also agreeing that you understand that the data generated by this program is subject to error and change, therefore no fee should be accrued to this date. The Minnesota Department of Transportation, State Aid Division maintains all rights in this application and may revoke your privilege of use at any time.

# DISCLAIMER

- The State, County and Municipal Transportation Authorities of Minnesota make no representation or warranties, express or implied, with respect to the reuse of the data provided herewith, regardless of its format or means of its transmission. There is no guarantee or representation to the user as to the accuracy, current ness, suitability, or reliability of this data for any purpose. The user accepts that data “as is”, and assumes all risks associated with its use. The State, County and Municipal Transportation Authorities of Minnesota assume no responsibility, actual or consequential damage, as a result of any user’s reliance of this data.
- By submitting this form, you are stating that you understand that this application is only a tool and that Engineering Judgment must be used when interpreting all data. You are also agreeing that you understand that the data set used by this program is subject to errors and changes, therefore not to be assumed as absolute. The Minnesota Department of Transportation, State Aid Division maintains all rights to this application and may revoke your privileges of use at any time.

# Future Plans for MnCMAT

- Upgrade Desktop Application
  - Available in June 2007
  - Training to be offered in July 2007
  - Upgrades includes a filtered stacker tool, filtering by time of day, export data as a CVS, plot crashes as a single event on the correct side of the roadway, additional filtering by age, gender and several more
- Web based program
  - Reduce distribution costs
  - Easier program upgrades
  - A crash data set with only a 2 month lag

# MnCMAT Support Contact

Mark Vizecky

651-366-3839

[MnCMAT@dot.state.mn.us](mailto:MnCMAT@dot.state.mn.us)

Questions?

