

La Crosse Fire Department Standards of Cover



Appendixes A - I

La Crosse Fire Department

Standards of Cover

Appendix A Council Member Districts

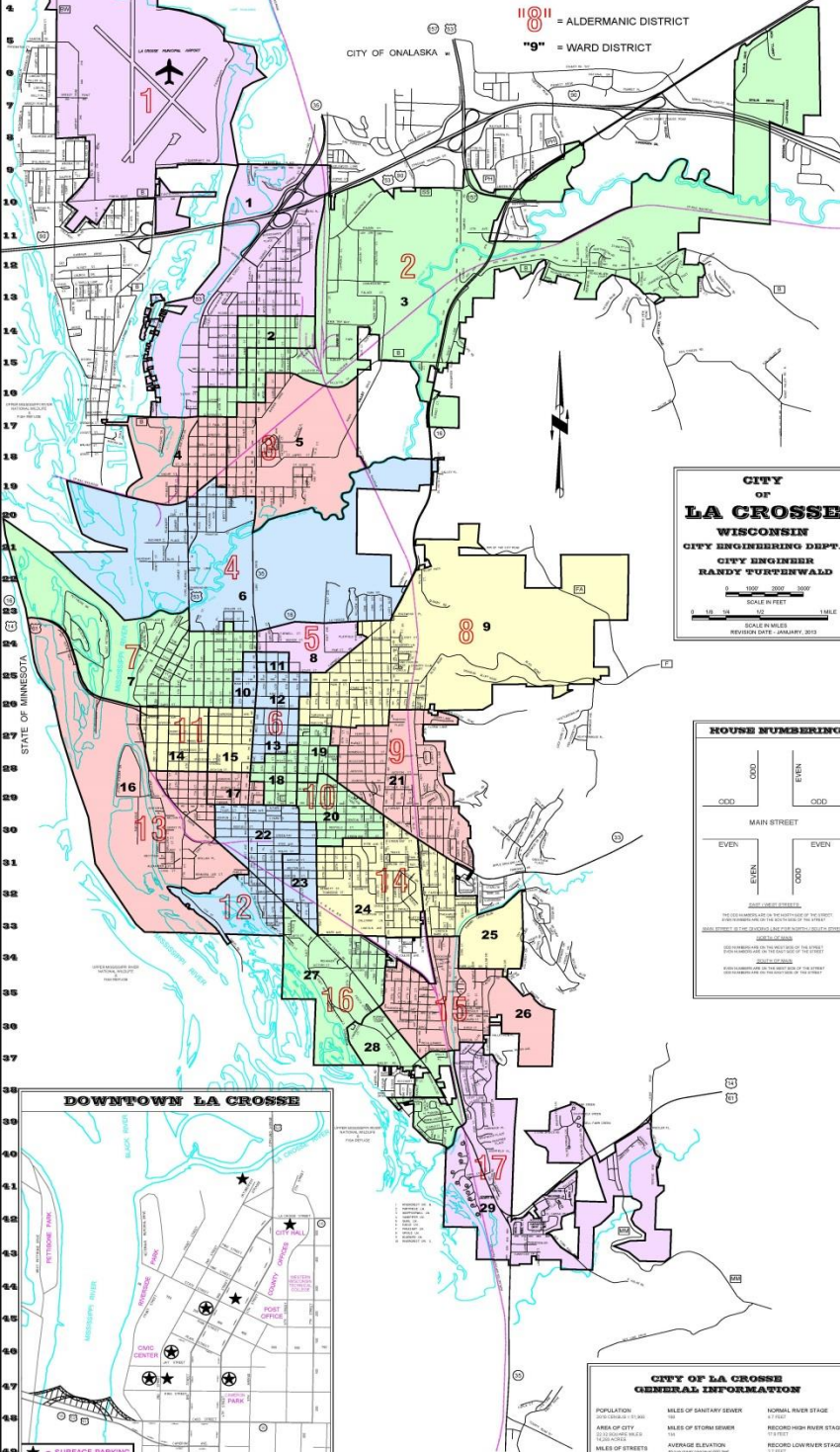
STREET INDEX

(Note: The following table represents the structure of the Street Index, listing streets from A to Z with their corresponding grid coordinates. The actual text is too small to transcribe verbatim.)

| Street Name | Grid Coordinates |
|-------------|------------------|
| A | A 1 to A 38 |
| B | B 1 to B 38 |
| C | C 1 to C 38 |
| D | D 1 to D 38 |
| E | E 1 to E 38 |
| F | F 1 to F 38 |
| G | G 1 to G 38 |
| H | H 1 to H 38 |
| I | I 1 to I 38 |
| J | J 1 to J 38 |
| K | K 1 to K 38 |
| L | L 1 to L 38 |
| M | M 1 to M 38 |
| N | N 1 to N 38 |
| O | O 1 to O 38 |
| P | P 1 to P 38 |
| Q | Q 1 to Q 38 |
| R | R 1 to R 38 |
| S | S 1 to S 38 |
| T | T 1 to T 38 |
| U | U 1 to U 38 |
| V | V 1 to V 38 |
| W | W 1 to W 38 |
| X | X 1 to X 38 |
| Y | Y 1 to Y 38 |

A B C D E F G H I J K L M N O P Q R S T U V W X Y

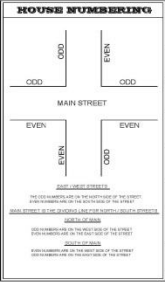
CITY OF LA CROSSE
2012 ALDERMANIC DISTRICTS



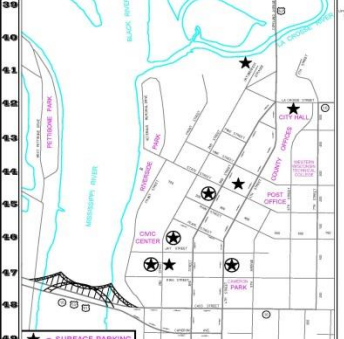
CITY OF ONALASKA

CITY OF LA CROSSE
WISCONSIN
CITY ENGINEERING DEPT.
CITY ENGINEER
RANDY FUTERWALD

SCALE IN FEET: 0 100 200 300 400
SCALE IN MILES: 0 0.2 0.4 0.6 0.8
REVISION DATE: JANUARY 2012



DOWNTOWN LA CROSSE



CITY OF LA CROSSE
GENERAL INFORMATION

| | | | |
|-----------------------------|-----------------|-----------------------------|--------|
| POPULATION | 17,500 (2010) | KOPAL RIVER STAGE | 13.00' |
| MILES OF SANITARY SEWER | 100 | RECORD-HIGH RIVER STAGE | 14.00' |
| AREA OF CITY | 25.25 SQ. MILES | AVERAGE ELEVATION | 1200' |
| MILES OF STREETS | 100 | RECORD-LOW RIVER STAGE | 12.00' |
| AVERAGE ELEVATION | 1200' | MILES OF WATERMAIN | 75 |
| MILES OF WATERMAIN | 75 | ELEVATION OF GRANDDUS BLUFF | 1215' |
| ELEVATION OF GRANDDUS BLUFF | 1215' | RIVER FLOOD STAGE | 12.50' |

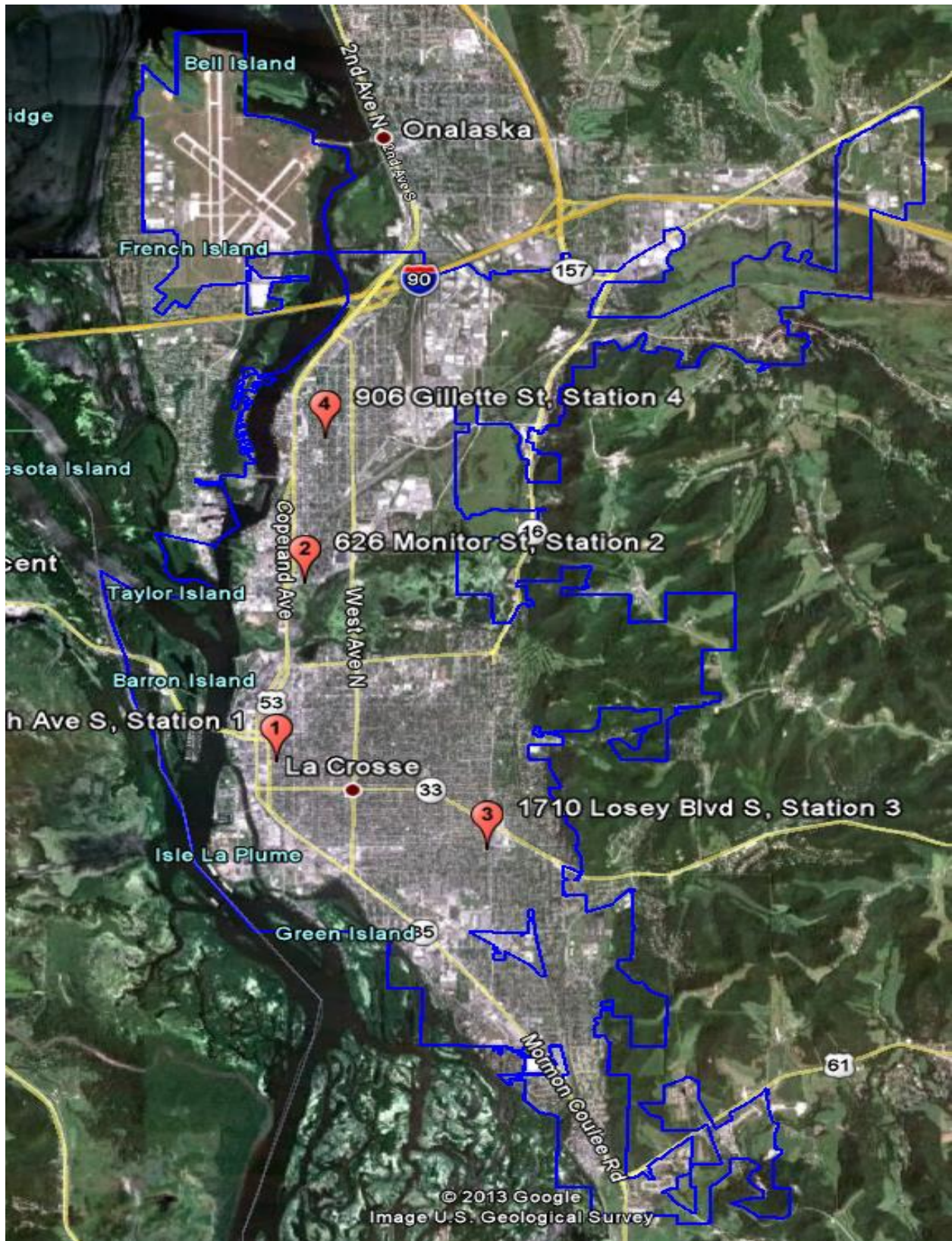
A B C D E F G H I J K L M N O P Q R S T U V W X Y

La Crosse Fire Department

Standards of Cover

Appendix B

Fire Station Locations



La Crosse Fire Department

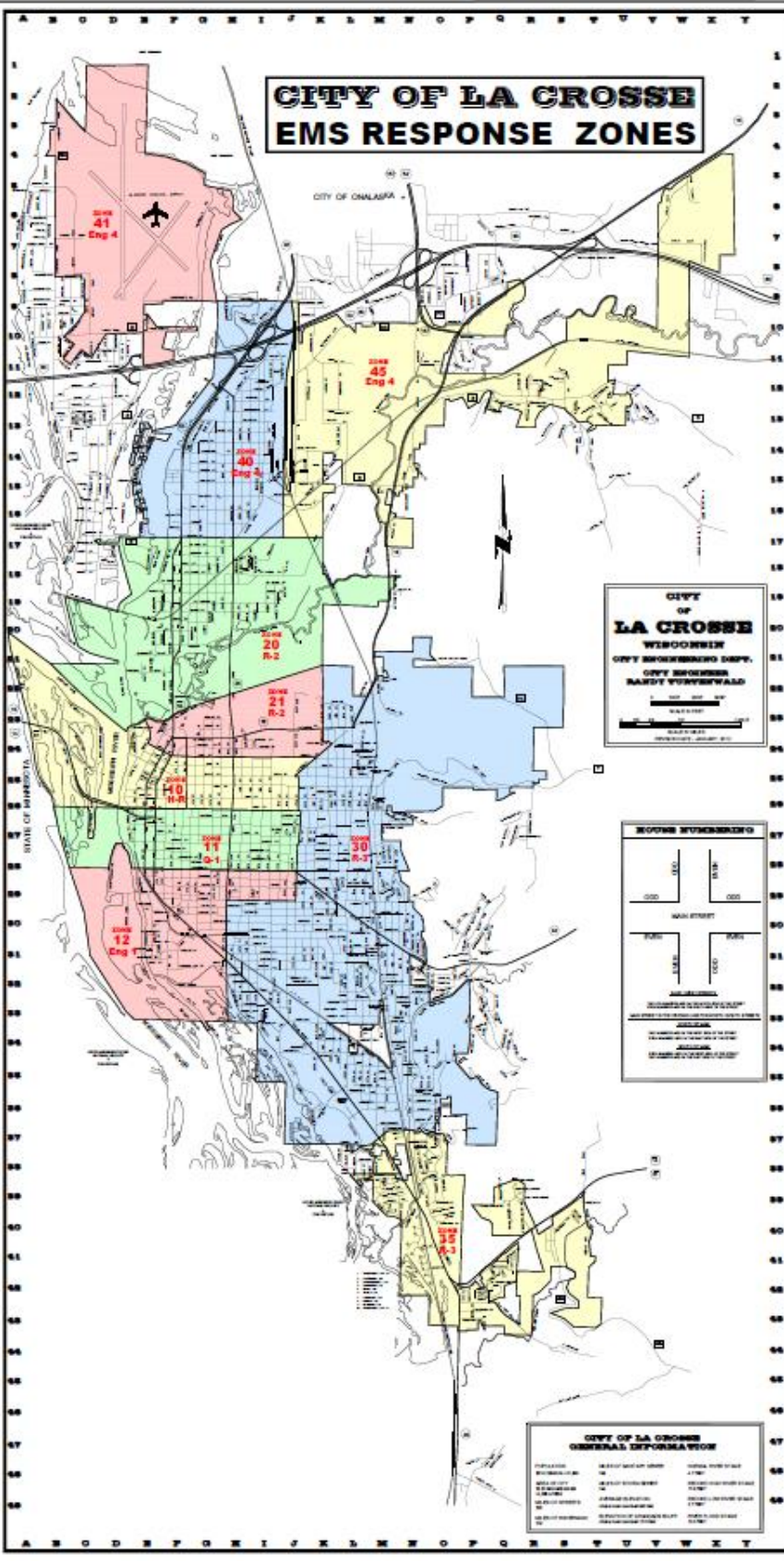
Standards of Cover

Appendix C

Response Zone Map

STREET INDEX

| | |
|----------|----------|
| 1st St | 1st St |
| 2nd St | 2nd St |
| 3rd St | 3rd St |
| 4th St | 4th St |
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| 197th St | 197th St |
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| 199th St | 199th St |
| 200th St | 200th St |



**CITY OF LA CROSSE
EMS RESPONSE ZONES**

**CITY OF
LA CROSSE**
WISCONSIN
CITY ENGINEERING DEPT.
CITY ENGINEER
RANDY FURBERWALD



**CITY OF LA CROSSE
GENERAL INFORMATION**

| | | | |
|----------------|-------------|----------------|-------------------|
| POPULATION | 17,000 | AREA | 17.5 |
| INCORPORATED | 1856 | STATE | WISCONSIN |
| OFFICE CITY | 1000 1ST ST | OFFICE PHONE | 735-2300 |
| OFFICE FAX | 735-2300 | OFFICE HOURS | 8:00 AM - 5:00 PM |
| OFFICE ADDRESS | 1000 1ST ST | OFFICE ZIP | 54601 |
| OFFICE CITY | LA CROSSE | OFFICE STATE | WISCONSIN |
| OFFICE COUNTY | DADE | OFFICE COUNTRY | USA |

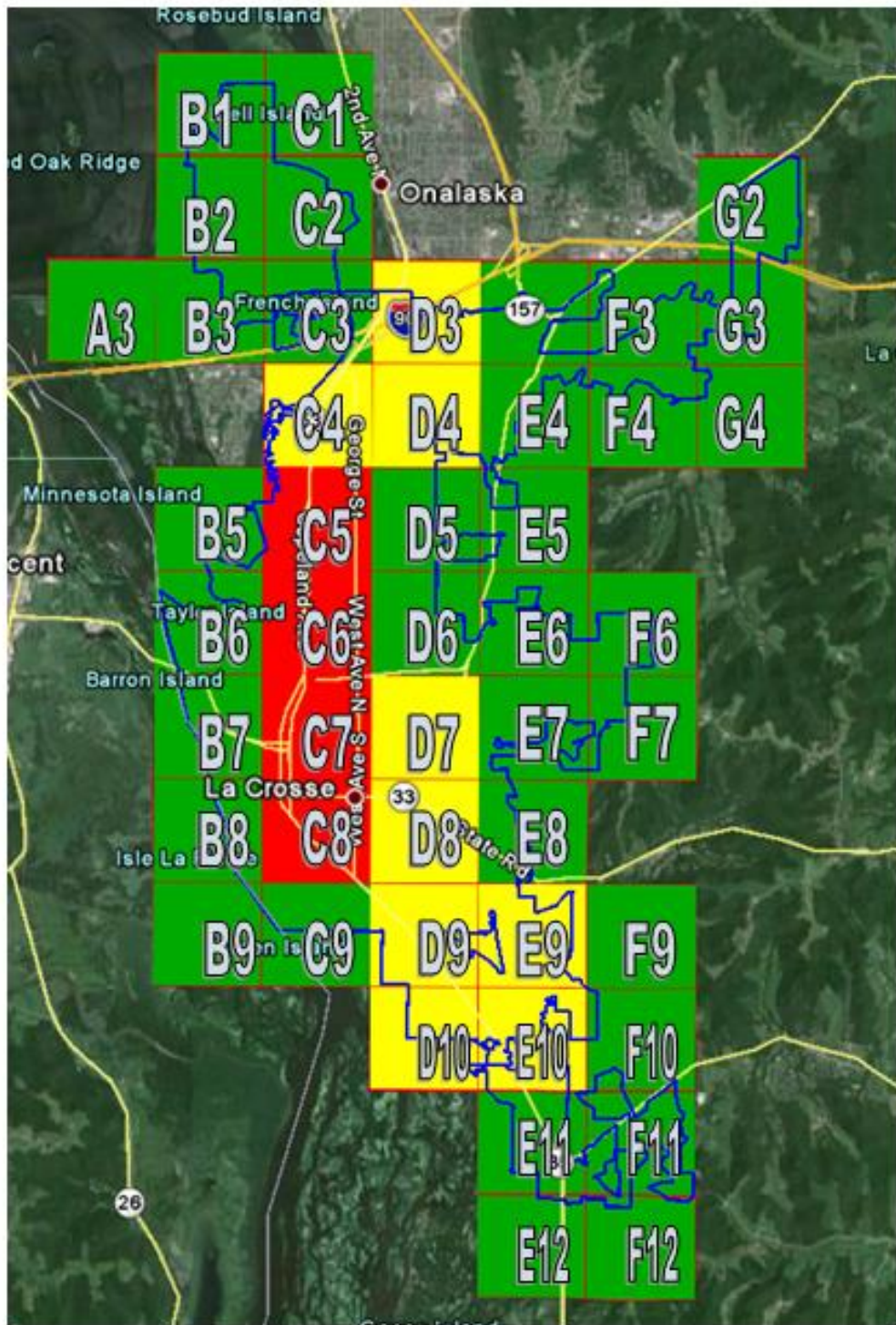
La Crosse Fire Department

Standards of Cover

Appendix D Planning Zones

City of La Crosse Fire Department

Fire Risk Response



High Risk Moderate Risk Low Risk

The following is an explanation of the planning zone analysis (Appendix J):

District Overview: a brief explanation of the; planning zone location within the city, planning zone occupancy, planning zone risk assessment scores, and special hazards within the planning zone.

Special Hazards: Identified building name, address, associated risk, fire flow, and risk assessment score.

Inspected Occupancy Risk Assessment: Inspected occupancy risk assessment scores and percentages. These are all occupancies within the planning zone that the agency inspects on a semi-annual basis.

Occupancy Analysis: Classification of planning zone occupancy and percentages. These are all occupancies within the planning zone, both inspected properties and residential properties.

Emergency Call History: Emergency call history within the planning zone, analyzed by call type.

90th Percent Priority Fractile Total Response Time for Emergency Responses: 90th percent priority fractile total response times, analyzed by call type.

Fire Flow Analysis: Fire flow analysis and percentages within the planning zone.

La Crosse Fire Department

Standards of Cover

Appendix E

Fire Flow Analysis

Inspected Property Fire Flow Analysis

| Planning Gird | Low <1000 | Moderate 1000-3000 | High>4000 | Special>4000 |
|---------------|-----------|--------------------|-----------|--------------|
| A3 | 0 | 1 | 0 | 0 |
| B1 | 0 | 0 | 0 | 0 |
| B2 | 6 | 23 | 0 | 0 |
| B3 | 0 | 9 | 0 | 0 |
| B5 | 1 | 0 | 0 | 0 |
| B6 | 3 | 2 | 0 | 0 |
| B7 | 2 | 4 | 1 | 0 |
| B8 | 8 | 1 | 0 | 0 |
| B9 | 0 | 0 | 0 | 0 |
| C1 | 0 | 0 | 0 | 0 |
| C2 | 0 | 2 | 0 | 0 |
| C3 | 3 | 36 | 0 | 0 |
| C4 | 18 | 130 | 1 | 0 |
| C5 | 23 | 300 | 1 | 0 |
| C6 | 28 | 167 | 3 | 1 |
| C7 | 85 | 723 | 6 | 0 |

| Planning Gird | Low <1000 | Moderate 1000-3000 | High>4000 | Special>4000 |
|---------------|-----------|--------------------|-----------|--------------|
| C8 | 46 | 263 | 2 | 0 |
| C9 | 8 | 10 | 0 | 0 |
| D3 | 21 | 46 | 1 | 0 |
| D4 | 11 | 71 | 0 | 0 |
| D5 | 11 | 20 | 1 | 1 |
| D6 | 3 | 18 | 1 | 0 |
| D7 | 9 | 97 | 8 | 3 |
| D8 | 14 | 119 | 2 | 0 |
| D9 | 28 | 121 | 5 | 1 |
| D10 | 30 | 76 | 2 | 1 |
| E3 | 0 | 2 | 0 | 0 |
| E4 | 0 | 10 | 0 | 0 |
| E5 | 0 | 1 | 0 | 0 |
| E6 | 0 | 1 | 0 | 0 |
| E7 | 0 | 3 | 0 | 0 |
| E8 | 0 | 11 | 0 | 0 |
| E9 | 2 | 62 | 0 | 0 |
| E10 | 20 | 50 | 0 | 0 |

| Planning Gird | Low <1000 | Moderate 1000-3000 | High>4000 | Special>4000 |
|----------------------|---------------------|---------------------------|---------------------|------------------------|
| E11 | 2 | 25 | 1 | 1 |
| E12 | 0 | 0 | 0 | 0 |
| F3 | 0 | 1 | 0 | 0 |
| F4 | 0 | 6 | 1 | 0 |
| F6 | 0 | 0 | 0 | 0 |
| F7 | 0 | 0 | 0 | 0 |
| F9 | 0 | 1 | 0 | 0 |
| F10 | 0 | 0 | 0 | 0 |
| F11 | 0 | 18 | 0 | 0 |
| F12 | 0 | 0 | 0 | 0 |
| G2 | 8 | 6 | 0 | 0 |
| G3 | 0 | 0 | 0 | 0 |
| G4 | 0 | 0 | 0 | 0 |

La Crosse Fire Department

Standards of Cover

Appendix F

Summary of Risk Assessment Process

The following is a summary of the fourteen categories of data that were entered into Zoll Fire Records Management System(RMS):

Age of Building:

The year the building was constructed

Construction Type:

Construction type of building based on NFPA code classifications

Area of Building:

Main floor area of building

Height of Building:

Stories above grade

Density of Building:

Square footage of building compared to square footage of the lot

Separation Distance:

Distance in feet, between building and nearest building

Built in fire protection systems – detectors:

Level of fire detection systems

Built in fire protection systems – automatic extinguisher systems:

Level of automatic extinguishing systems

Fire flow requirements:

Amount of water necessary to control the emergency, based on structure, contents and exposures

Exposures:

The number of exposures as defined by NFPA 1142, “any building over 100 square feet within 50 feet of the building”

Hazards in Building:

Building contains a reportable quantity of hazardous materials

Access to Building:

The ability of firefighters to get personnel and apparatus to the all sides of the building to attack a fire and conduct a rescue

Life Safety/Occupancy:

Life safety/occupancy classification of the building; unoccupied, single family, group, assembly, or mass

Property Value of Building:

Estimated property value of building

Target Hazard:

Identified high hazard occupancy not reflected in all other categories. Example: Hydrite Chemical.

SCORING SYSTEM: A risk assessment scoring system was created using NFIRS 5ALIVE software. Points were assigned to each of the fourteen categories:

Year built

- 1 1985 and after
- 2 1960 – 1984
- 3 1935 – 1959
- 4 1910 – 1934
- 5 Prior to 1910

Construction type

- 1 1 – type I fire resistive
- 2 2 – type II non combustible
- 3 4 – type IV heavy timber
- 4 3 – type III ordinary
- 5 5 - type V wood frame, 9 - not classified, U - undetermined

Main floor area

- 1 0 – 7,500
- 2 7,501 – 15,000
- 3 15,001 – 25,000
- 4 25,001 – 40,000
- 5 40,000 and up

Additional stories above grade

- 1 1
- 2 2
- 3 3
- 20 4
- 20 5 and up

Density

- 1 .00 - .19
- 2 .20 - .39
- 3 .40 - .59
- 4 .60 - .79
- 5 .80 – 1

Separation Distance

- 1 100 and up
- 2 61 – 99
- 3 31 – 60
- 4 11 – 30
- 5 0 – 10

Built in fire protection systems – detector type

- 1 01 – fire alarm system, 4 - sprinkler, water flow detection
- 2 5 – more than one type
- 3 1 – smoke, 2 heat, 3 combination, 0 detector other
- 4 Blank
- 5 U1 – none, U - undetermined

Built in fire protection systems – automatic extinguisher system

- 1 1 – 7
- 2 0 – special hazard system
- 3 01 – kitchen wet chemical system
- 4 Blank
- 5 U1 – none, U – undetermined

Fire Flow

- 1 0 – 1000
- 2 1,001 – 2,000
- 3 2,001 – 3,000
- 4 3,001 – 4,000
- 5 4,001 and up

Exposures

- 1 0
- 2 1
- 3 2
- 4 3
- 5 4 or more

Hazards

- 1 No
- 5 Yes

Access

- 1 All sides
- 2 3 sides
- 3 2 sides
- 4 1 side
- 5 None

Life safety factors

- 1 Unoccupied
- 2 Single family
- 3 Group
- 4 Assembly
- 5 Mass

Estimated property value

- 1 0 - 250,00
- 2 250,001 – 500,000
- 3 500,001 – 750,000
- 4 750,001 – 1,000,000
- 5 1,000,00 and up

Target Hazard

- 0 No
- 20 Yes

Total Scores:

- Low < 19
- Moderate 19-44
- High 45-69
- Maximum > 69

Maximum Risk:

This is the highest degree of risk. Maximum risk properties are defined as properties presenting a high risk of life loss, loss of economic values to the community, or large loss damage to the property. For a building to be classified a maximum risk it must receive a score of greater than 69. 0.3 % (9) of the inspected buildings in La Crosse scored at a maximum risk.

High Risk:

The next highest degree of risk is the high risk category. High risk properties are defined as properties presenting a substantial risk of life loss, a severe financial impact on the community, or unusual potential damage to property. For a building to be classified a high risk it must score a value between 45 and 69. 15.4 % (459) of the inspected buildings in La Crosse scored at a high risk.

Moderate Risk:

The next highest degree of risk is the moderate risk category. Moderate risk properties are defined as properties of average size, where the risk of life loss or damage to property in the event of a fire in a single occupancy is usually limited to the occupants. For a building to be classified a moderate risk it must score a value between 19 and 44. 83.9 % (2,497) of the inspected buildings in La Crosse scored at a moderate risk.

Low Risk:

The lowest degree of risk is the low risk category. Low risk properties are defined as properties that are small non-commercial structures that are remote from other buildings, such as detached residential garages and out buildings. For a building to be classified a low risk it must score a value of less than 19. 0.3 % (11) of the inspected buildings in La Crosse scored at a low risk. The table below shows all inspected properties in the city.

Inspected Properties in La Crosse

| Category | Score | Total | Percent |
|----------|-------|-------|---------|
| Maximum | > 69 | 9 | 0.3 |
| High | 45-69 | 459 | 15.4 |
| Moderate | 19-44 | 2497 | 84 |
| Low | < 19 | 11 | 0.3 |

The City of La Crosse has 12,217 residential properties that are two unit apartments or single family properties. These 12, 217 residential properties fall within the moderate risk category. The table below shows all properties in La Crosse, including these 12,217 residential properties.

Inspected and Residential Properties in La Crosse

| Category | Score | Total | Percent |
|----------|-------|-------|---------|
| Maximum | > 69 | 9 | 0.05 |
| High | 45-69 | 459 | 3 |
| Moderate | 19-44 | 14714 | 96.9 |
| Low | < 19 | 11 | 0.05 |

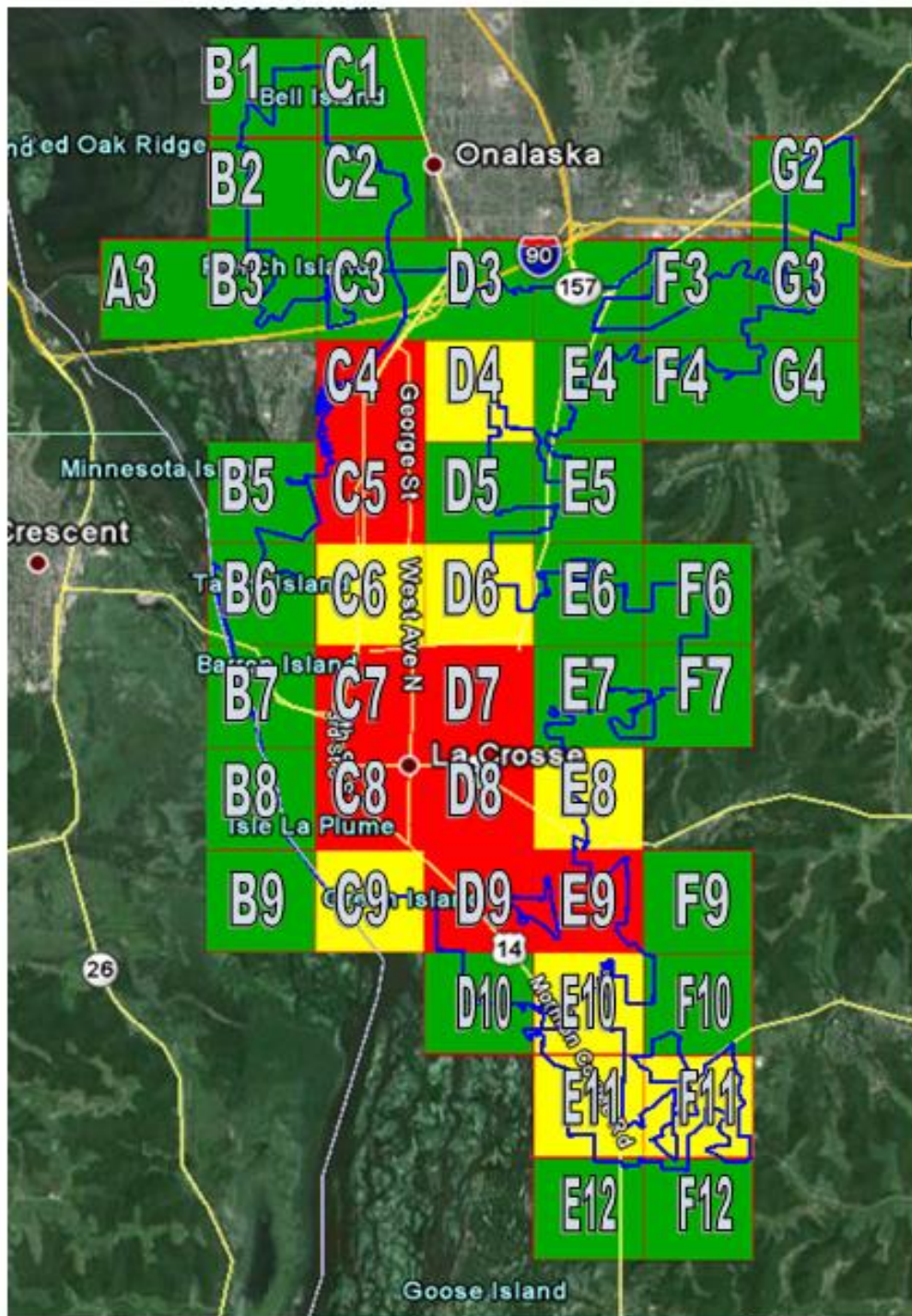
La Crosse Fire Department

Standards of Cover

Appendix G Population Map

City of La Crosse Fire Department

Population Risk Response



>2500 High Risk 500-2500 Moderate Risk <500 Low Risk

La Crosse Fire Department

Standards of Cover

Appendix H GIS Analysis

-Analysis Overview

The goal of this analysis is to provide the following deliverables:

- 1 overall overview initial response map of the city with the 4 current stations
- 1 overall overview initial response map of the city with the 4 current stations plus planned station at Hwy 14/61 & MM
- 1 initial response map per station including planned station at Hwy 14/61 & MM
- 1 analysis map of estimated best locations for station distribution for initial response
- If time allows we will assemble 1 overall overview response map of the city with the 4 current stations taking into account time needed for a full response (ie. all apparatus needed.) This will be done for as many types of response as time allows.

Further notes:

- All response maps will show 4 & 8 minute estimated response times
- We will take the existing stop signs into account and try to apply a standard lesser barrier where those signs may be missing.
- We will take into account railroad crossing barriers.
- When all stop signs are complete we can complete a new updated set of maps under a new contract.
- All maps will be estimates based on available data and not fact.

-Analysis Process

An analysis network was built using ArcGIS 9.2 that models navigation on the streets of La Crosse. Street direction was modeled. All one-way streets and divided lanes present in the provided data were modeled as traversable only under the appropriate conditions. Road elevation (overpasses/bridges) and connectivity (turn restrictions) were also modeled and implemented when the appropriate conditions in the data were met. Speed limits were modeled as an impedance value for traversing the network. Speed limit data was provided for a portion of the city, the speed limit was modeled at the appropriate values where the data was provided. A default value of 25 mph was implemented for all other streets. Street lights, stop signs, and yield signs were modeled in the best possible manner given the provided data. These traffic intersections were modeled with impedance values that are appended to the traversal time of the route given the manner in which the route is being traversed. The below table (*fig 1*) explains the impedance values that were used. All intersections (not just the ones that do not involve a traffic signal) have a global impedance value assigned to it that varies given the nature of how the intersection is being traversed (i.e. right turn, left turn, u-turn etc.). The railroad overheads were modeled by placing barriers on the roads that should be avoided due to railroad tracks. These points in the road are made non-traversable in the analysis.

The process of this analysis involved building a GIS network that implements the above rules and impedance values. Once the network is properly modeled, it can be used to perform an analysis such as identifying the service area of given points.

Fig. 1

| Turn Type | Impedance Value (in minutes) |
|----------------------------|------------------------------|
| Yield (left turn) | 0.15 |
| Yield (right turn) | 0.05 |
| Yield (straight) | 0.1 |
| Yield (u turn) | 0.15 |
| Stop Light (left turn) | 0.33 |
| Stop Light (right turn) | 0.1 |
| Stop Light (straight turn) | 0.33 |
| Stop Light (u turn) | 0.33 |
| Stop (left turn) | 0.16666 |
| Stop (right turn) | 0.083 |
| Stop (straight turn) | 0.125 |
| Stop (u turn) | 0.16666 |

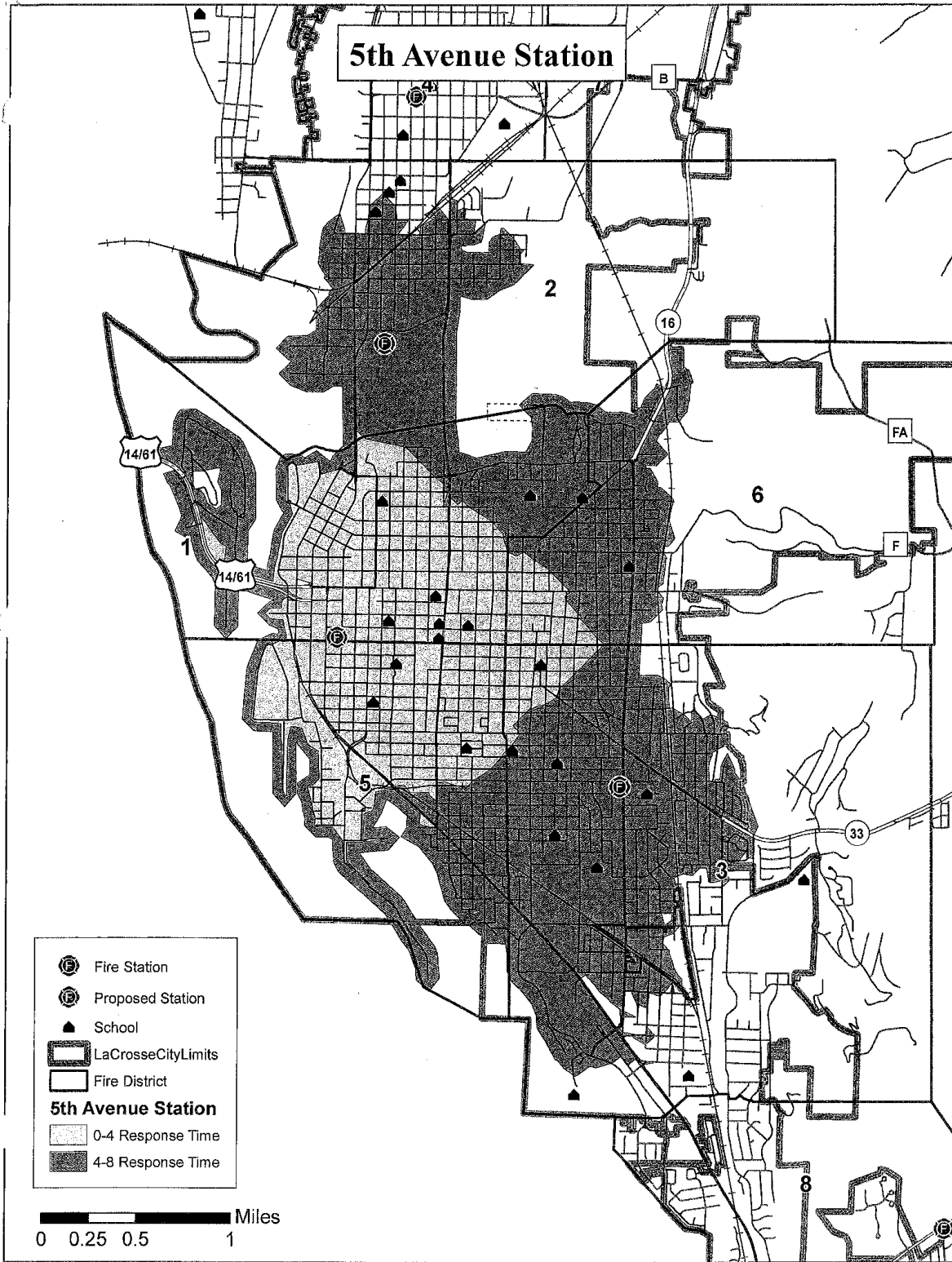
Work done to clean data

- Conflation of stop sign data and road data was required. We were unable to systematically snap all stop signs to the appropriate road. Furthermore, digitizing direction of roads was not consistent or accurate so assigning a To-From / From-To value to identify location of a stop sign could not be automated. All stop signs had to be either manually verified as correct or manually edited.
- Conflation of stop light data and road data was required. All stop lights had to be either manually verified as correct or manually edited for the same reasons as above.
- Conflation of yield data and road data was required. All yields had to be either manually verified as correct or manually edited for the same reasons as above.
- Road digitizing direction (direction of lines) was not consistently accurate needed to be manually corrected and analyzed to implement one way roads appropriately.
- Barrier information had to be manually extracted from railroad overhead descriptions.
- In some cases, ramps were missing and did not allow for vehicle access where it should be available. These ramps were digitized from aerial photographs.
- In some cases network topology had small breaks or line ends were inappropriately snapped to line vertices when they should be snapped to line end points (and vice versa). This was also the cause of errors in lane elevation which is used to model overpasses and highway intersections.
- Speed limit data was provided for only the city and was spatially joined to the complete county network a default value was systematically applied to the streets that did not receive a speed limit from the spatial join. It is a requirement that all roads have a speed limit value.

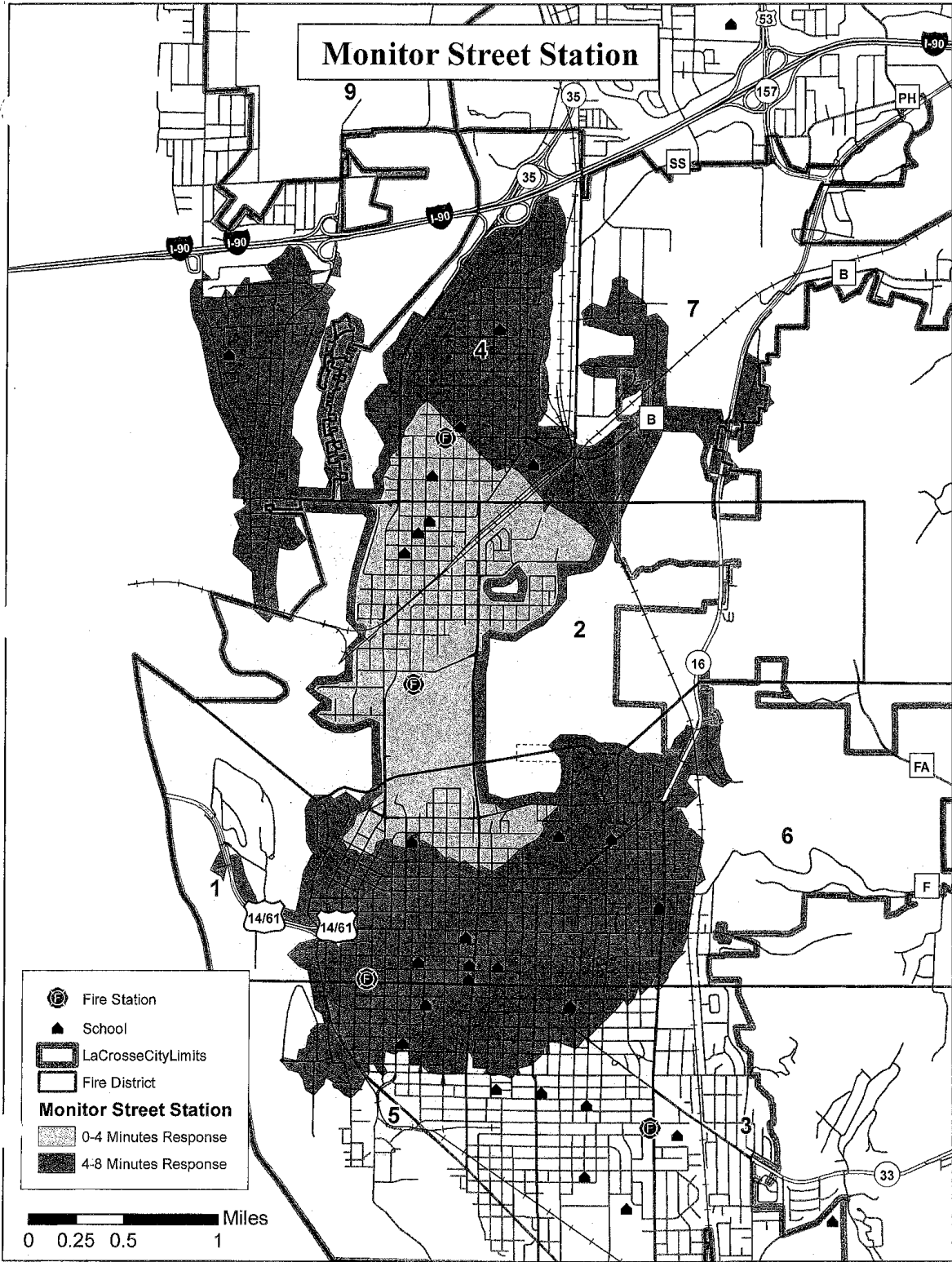
Analysis Restraints

There are some restraints that limited the network's ability to model reality:

- Incomplete / confused data – for several of the layers, we went in and cleaned up the data but there was only so much we could do here. (See the descriptions above).
- Speed limit data was only available in the city limits; having speed limits for the entire county dataset would increase accuracy.
- Stop & yield signs were only available for portions of the city; having complete datasets for the county dataset would increase accuracy.
- Stop sign, yield sign, & stop light data was not available outside city limits; having complete datasets for the county dataset would increase accuracy.
- Modeling impedance values – as expected, the variables used for implementing impedance (*fig 1*) are an estimation of what would happen in reality. The above values could be a better simulation of reality if research of each individual intersection in La Crosse were available.
- Traffic density per road and per time of day could be implemented to better simulate reality. These factors have been left out of the analysis because the data is not available.



Monitor Street Station



La Crosse Fire Department

Standards of Cover

Appendix I Comparable City Data

Wisconsin Fire Department Staffing and Spending

| | Population | Sq. Miles | # of St | Sta/sq mi | FF's | Authorized Firefighters/ | | Expenditures | |
|------------------|------------|-----------|---------|-----------|------|--------------------------|--------------|--------------|--|
| | | | | | | 1000 population | Budget | Per Capita | |
| *Wauwatosa | 46396 | 13.2 | 3 | 4.40 | 111 | 2.39 | \$13,186,741 | \$284.22 | |
| Merrill | 9661 | 7.5 | 2 | 3.75 | 28 | 2.88 | \$2,259,892 | \$233.87 | |
| *Beloit | 36966 | 16.4 | 3 | 5.47 | 65 | 1.76 | \$8,109,192 | \$219.37 | |
| *West Allis | 60411 | 14.1 | 3 | 4.70 | 109 | 1.80 | \$12,930,600 | \$214.04 | |
| Rhineland | 7798 | 7.9 | 1 | 7.90 | 20 | 2.56 | \$1,601,534 | \$205.38 | |
| Wisconsin Rapids | 18367 | 14.1 | 2 | 7.05 | 32 | 1.74 | \$3,677,529 | \$200.22 | |
| North Shore | 68000 | 25 | 5 | 5.00 | 105 | 1.54 | \$13,478,447 | \$198.21 | |
| Racine | 78860 | 18.7 | 6 | 3.12 | 142 | 1.80 | \$15,490,746 | \$196.43 | |
| *La Crosse | 51320 | 22.2 | 4 | 5.55 | 95 | 1.85 | \$9,973,050 | \$194.33 | |
| Brookfield | 37920 | 27.2 | 3 | 9.07 | 57 | 1.50 | \$7,360,681 | \$194.14 | |
| Green Bay | 104057 | 54.3 | 7 | 7.76 | 181 | 1.74 | \$20,008,300 | \$192.28 | |
| Chippewa Falls | 18661 | 11.4 | 2 | 5.70 | 25 | 1.83 | \$2,566,558 | \$187.87 | |
| Stevens Point | 26717 | 16.2 | 2 | 8.10 | 39 | 1.46 | \$4,954,681 | \$185.45 | |
| Oak Creek | 34451 | 28.6 | 3 | 9.53 | 52 | 1.51 | \$6,165,100 | \$178.95 | |
| Madison | 233209 | 84.7 | 12 | 7.06 | 366 | 1.57 | \$41,176,979 | \$176.57 | |
| Maunette | 10968 | 8 | 1 | 8.00 | 16 | 1.46 | \$1,887,672 | \$172.11 | |
| Caledonia | 24705 | 48.7 | 3 | 16.23 | 43 | 1.74 | \$4,239,190 | \$171.59 | |
| Neshah/Menasha | 43999 | 15.3 | 4 | 8.83 | 67 | 1.52 | \$7,474,195 | \$169.87 | |
| Milwaukee | 594833 | 96.9 | 36 | 2.69 | 881 | 1.48 | \$99,820,902 | \$167.81 | |
| Franklin | 35451 | 34.7 | 8 | 11.57 | 44 | 1.24 | \$5,882,112 | \$165.92 | |
| Manitowoc | 33736 | 17.2 | 4 | 4.30 | 57 | 1.69 | \$5,534,577 | \$164.06 | |
| Waukesha | 70718 | 27.2 | 5 | 5.44 | 103 | 1.46 | \$11,565,567 | \$163.54 | |
| *Wausau | 39106 | 17.8 | 3 | 5.93 | 59 | 1.51 | \$6,384,621 | \$163.26 | |
| *Oshkosh | 66088 | 21.4 | 6 | 4.07 | 103 | 1.56 | \$10,782,100 | \$163.16 | |
| Greenfield | 36720 | 11.6 | 2 | 5.80 | 54 | 1.47 | \$5,836,031 | \$158.93 | |
| Eau Claire | 65888 | 32.4 | 6 | 5.40 | 92 | 1.40 | \$10,311,300 | \$156.51 | |
| *Janesville | 63575 | 28.1 | 5 | 5.62 | 92 | 1.45 | \$9,816,053 | \$154.40 | |
| Marshfield | 19118 | 12.7 | 1 | 12.70 | 36 | 1.88 | \$2,876,341 | \$150.25 | |
| *Sheboygan | 49288 | 14.1 | 5 | 2.82 | 78 | 1.58 | \$7,270,513 | \$147.51 | |
| Appleton | 72623 | 21.4 | 6 | 3.57 | 92 | 1.27 | \$10,205,362 | \$140.53 | |
| Superior | 27244 | 55.4 | 3 | 18.47 | 37 | 1.36 | \$3,780,545 | \$138.77 | |
| Eudora | 18267 | 4.7 | 2 | 2.35 | 25 | 1.37 | \$2,445,488 | \$133.87 | |
| Kenosha | 99218 | 24 | 6 | 4.00 | 153 | 1.54 | \$12,028,021 | \$121.23 | |
| Fond du Lac | 43021 | 18.2 | 3 | 6.07 | 67 | 1.56 | \$4,561,415 | \$106.03 | |

*Comparable Cities Identified by Council Resolution

**Individuals and Families Below the Poverty Level
2005-2009 (U.S. Census Bureau, n.d.)**

| <u>City</u> | <u>Individuals Below the Poverty Level</u> | <u>Families Below the Poverty Level</u> |
|------------------|--|---|
| Stevens Point | 26.2% | 8.6% |
| *La Crosse | 25.2% | 13.3% |
| Milwaukee | 24.3% | 19.9% |
| *Beloit | 19.5% | 16.8% |
| Madison | 19.4% | 8.1% |
| *Eau Claire | 18.7% | 9.0% |
| Marinette | 18.7% | 16.4% |
| Rhineland | 18.3% | 15.8% |
| Racine | 17.7% | 13.6% |
| Superior | 15.7% | 12.2% |
| Green Bay | 15.5% | 11.4% |
| Kenosha | 15.0% | 10.9% |
| *Oshkosh | 14.5% | 8.1% |
| Merrill | 14.4% | 13.3% |
| *Wausau | 12.4% | 8.4% |
| Cudahy | 12.2% | 8.6% |
| West Allis | 11.8% | 8.7% |
| *Fond du Lac | 11.6% | 8.1% |
| Wisconsin Rapids | 11.4% | 10.3% |
| *Sheboygan | 11.3% | 8.8% |
| Chippewa Falls | 11.0% | 9.4% |
| *Janesville | 11.0% | 8.6% |
| *Appleton | 10.3% | 7.9% |
| Manitowoc | 10.0% | 6.2% |
| Marshfield | 8.8% | 3.6% |
| *Waukesha | 8.8% | 6.1% |
| Caledonia | 8.2% | 1.6% |
| Oak Creek | 6.1% | 5.0% |
| Greenfield | 5.2% | 2.0% |
| *Wauwatosa | 5.0% | 2.0% |
| Franklin | 4.1% | 2.9% |
| *Brookfield | 2.6% | 1.6% |

The Influence that Poverty has on Fire Rates

- Average fire rates 2-4 times higher in census tracts with high levels of poverty (Karter and Donner, 1978).
- Strong negative relationship between income and fire rates (Gunther, 1981).
- Poorest groups of neighborhoods have 14 times the number of suspicious fires (Gunther, 1981).
- Poorest groups of neighborhoods 14 times more likely to have children start a fire (Gunther, 1981).
- Poorest groups of neighborhoods 8 times more likely to have a fire started by careless smoking (Gunther, 1981).

The Influence that Rentals have on Fire Rates

- A lower rate of owner-occupied homes related to an increased fire risk (Munson and Oates, 1987).
- Two times more likely to have a fire in a rental (Karter and Donner, 1978).

Reasons why Poverty and Rentals Increase Fire Rates

- Housing Quality
 - Withdrawal of routine maintenance services erodes the quality of housing units (USFA, 1997).
 - Electrical wiring not designed to carry the load placed on it (Jennings, 1996).
 - Risk increases when households try to compensate for inadequate heating/cooling systems (Jennings, 1996).
- Smoke Detectors
 - Older structures less likely to have smoke detectors (USFA, 1997).
 - People living in poverty do not have the financial resources to invest in fire safety (Munson and Oates, 1987).
- Children are more likely to be left alone (Kraizer et al, 1990).
- Increased levels of alcohol and drug abuse (USFA, 1997).

Multiple City Comparisons

| City | Geographical Info | | | | Personnel | | | | # of FFS Responding to Fire |
|----------------|-------------------|----------------------------|---------------|--------------------------|-----------------|---------------------|---------------|-----------------|-----------------------------|
| | Square Miles | 2010 Population Estimation | Fire Stations | Square Miles Per Station | Total Personnel | Per Capita Staffing | Day Personnel | Shift Personnel | |
| Beloit | 17.00 | 37,100 | 3 | 5.67 | 65.75 | 1.77 | 5 | 60 | |
| Eau Claire | 34.00 | 66,149 | 6 | 5.67 | 94 | 1.42 | 8 | 86 | 18 |
| Janesville | 33.60 | 63,600 | 5 | 6.72 | 92.75 | 1.46 | 7 | 87 | 14 |
| La Crosse | 22.20 | 51,900 | 4 | 5.55 | 95 | 1.83 | 7 | 88 | 14 |
| Oshkosh | 24.89 | 66,080 | 6 | 4.15 | 108 | 1.64 | 7 | 96 | 17 |
| Sheboygan | 15.00 | 50,400 | 5 | 3.00 | 79.5 | 1.58 | 8 | 69 | 12 + 4 ³ |
| Waukesha | 25.11 | 69,100 | 5 | 5.02 | 107 | 1.55 | 10 | 96 | 21 |
| Wausau | 19.20 | 40,700 | 3 | 6.40 | 60 | 1.49 | 5 | 54 | 12 |
| Wauwatosa | 13.07 | 45,800 | 3 | 4.36 | 99 | 2.16 | 8 | 102 | 15 |
| Racine | 18.70 | 80,100 | 6 | 3.12 | 144 | 1.80 | 12 | 132 | 14 |
| Merrill | 8.24 | 10,130 | 2 | 4.12 | 23 | 2.28 | 2 | 21 | 9 |
| Green Bay | 46.00 | 104,000 | 7 | 6.57 | 186 | 1.79 | 13 | 172 | 14 |
| West Allis | 11.40 | 60,600 | 3 | 3.80 | 107 | 1.77 | 8 | 99 | 19 |
| Chippewa Falls | 11.40 | 13,470 | 2 | 5.70 | 27 | 2.01 | 3 | 24 | 17 |
| Mantowoc | 17.20 | 34,700 | 4 | 4.30 | 57 | 1.64 | 15 | 51 | 12 |
| Milwaukee | 96.60 | 594,833 | 36 | 2.68 | 1027 | 1.73 | | 810 | 14+ |
| North Shore | 25.00 | 66,000 | 5 | 5.00 | 113 | 1.71 | 8 | 105 | 21 |
| Brookfield | 26.80 | 39,600 | 3 | 8.93 | 60 | 1.52 | 5 | 55 | 16 |
| Fond du Lac | 20.17 | 43,600 | 3 | 6.72 | 67 | 1.54 | 7 | 60 | 17 |
| Appleton | 24.9 | 72,563 | 6 | 4.15 | 98 | 1.35 | 13 | 85 | 17 |
| Rhinelander | 7.9 | 8,210 | 1 | 7.9 | 20 | 2.44 | 2 | 18 | 7 |
| Superior | | | | | | | | | |
| Kenosha | | | | | | | | | |
| Madison | | | | | | | | | |

³ Additional Personnel for 2nd Alarm

Multiple City Comparisons

| City | Services | | | | | Equipment | | | |
|----------------|------------------|------------------|-----------------|-------------------|--------------|-------------------|--------|---------|----------|
| | Water Rescue | Technical Rescue | Haz Mat Team | High Angle Rescue | EMS Services | Ambulance Service | Quints | Engines | Rescues |
| Beloit | Yes ¹ | Yes | No ² | Yes | Paramedic | Yes | 1 | 3 | 4 |
| Eau Claire | No | Yes | Yes | No | Paramedic | Yes | 2 | 6 | 6 |
| Janesville | Yes | Yes | No ² | Yes | Paramedic | Yes | 3 | 3 | 1 |
| La Crosse | Yes | Yes | Yes | Yes | EMT | No | 3 | 4 | 3 |
| Oshkosh | Yes | Yes | Yes | Yes | Paramedic | Yes | 2 | 4 | 1 |
| Sheboygan | Yes | Yes | No ² | Yes | Paramedic | Yes | 1 | 5 | 2 |
| Waikesha | Yes | Yes | No ² | Yes | Paramedic | Yes | 2 | 3 | See List |
| Wausau | Yes | No | Yes | Yes | Paramedic | Yes | 1 | 3 | 3 |
| Wauwatosa | Yes ¹ | Yes | No ² | Yes | BLS & ALSA | Yes | 2 | 2 | 4 |
| Racine | Yes | Yes | Yes | Yes | Paramedic | Yes | 3 | 8 | 8 |
| Merrill | Yes | Yes | No | Yes | Paramedic | Yes | 1 | 1 | 3 |
| Green Bay | Yes | Yes | No ² | Yes | Paramedic | Yes | 3 | 7 | 4 |
| West Allis | Yes | Yes | No ² | No | Paramedic | Yes | 1 | 3 | 3 |
| Chippewa Falls | No | Yes | No ² | No | BLS & ALSA | Yes | 1 | 3 | 4 |
| Mantowoc | Yes | Yes | Yes | Yes | Paramedic | Yes | 1 | 5 | 10 |
| Millwaukee | Yes | Yes | Yes | Yes | Paramedic | Yes | | | |
| North Shore | Yes | Yes | No | No | BLS & ALA A | Yes | 2 | 5 | 5 |
| Brookfield | Yes | Yes | No ² | No | Paramedic | Yes | 1 | 2 | 3 |
| Fond du Lac | Yes | Yes | Yes | Yes | Paramedic | Yes | 2 | 4 | 6 |
| Appleton | Yes | Yes | Yes | Yes | BLS | No | 1 | 6 | 1 |
| Rhinelander | Yes | Yes | No ² | Yes | Paramedic | Yes | 1 | 2 | 4 |
| Superior | | | | | | | | | |
| Kenosha | | | | | | | | | |
| Madison | | | | | | | | | |

¹ Surface Only
² County Level B

Multiple City Comparisons

| City | # of calls (Primary City Only - Fire) | # of calls (Primary City Only - EMS) | # of calls (Primary City Only - Total) | # of Colleges / Universities | # of Students in Colleges / Universities | # of Hospitals |
|----------------|---------------------------------------|--------------------------------------|--|------------------------------|--|----------------|
| Beloit | | | 0 | 1 | 2,000 | 1 |
| Eau Claire | 157 | 6010 | 6167 | 3 | 14,000 | 2 |
| Janesville | 1324 | 1978 | 3302 | 1 | 950 | 1 |
| La Crosse | 1250 | 3340 | 4590 | 3 | 15,000 | 2 |
| Oshkosh | 752 | 7222 | 7977 | 2 | 13,100 | 2 |
| Sheboygan | 917 | 2758 | 3675 | 2 | 730 | 2 |
| Waukesha | 1128 | 4536 | 5664 | 2 | 3,400 | 3 |
| Wausau | 1333 | 4161 | 5494 | 2 | 3,100 | 1 |
| Wauwatosa | 1671 | 3473 | 5144 | 2 | 1,500 | 3 |
| Racine | 898 | 8237 | 9135 | | | 2 |
| Merrill | 176 | 1577 | 1753 | 0 | | 1 |
| Green Bay | 2584 | 7182 | 9766 | 4 | | 4 |
| West Allis | 172 | 6456 | 7818 | 1 | | 2 |
| Chippewa Falls | 669 | 2465* | 3134 | 0 | 0 | 1 |
| Manitowoc | 500 | 5000** | 5650 | 2 | | 2 |
| Milwaukee | 13903 | 26128 | 40031 | | | |
| North Shore | 1827 | 4343 | 6170 | | | 1 |
| Brookfield | 1108 | 2092 | 3200 | 6 | | 1 |
| Fond du Lac | 2605 | 4172 | 6777 | 3 | | 2 |
| Appleton | 1396 | 2128 | 3524 | | | |
| Rhinelander | | | | 0 | | |
| Superior | | | | | | 1 |
| Kenosha | | | | | | |
| Madison | | | | | | |

* Chippewa Falls responds to 3 townships as well

** Manitowoc covers 100 sq. miles in EMS coverage

Multiple City Comparisons

| City | Annual Property Loss | 90% Fractile Response Time(All Calls) | Avg Response Time (All Calls) | Mutual Aid? | # of Inspections (Annually) | Budgeted Overtime (2009) |
|----------------|----------------------|---------------------------------------|-------------------------------|-------------|-----------------------------|------------------------------|
| Beloit | \$1,332,272.00 | N/A | 5:00 | Y (Airport) | 4,800 | \$326,000 |
| Eau Claire | \$1,487,766.00 | 7:91 | 5:13 | Y | 6,029 | \$248,000 |
| Janesville | N/A | Not Calculated | Not Calculated | Y | 6,000 | \$232,921 |
| La Crosse | | 4:14 | 2:39 | N | 5,412 | \$197,000 |
| Oshkosh | \$900,000.00 | N/A | 4:00 | N | 4,000 | \$206,000 |
| Sheboygan | \$450,000.00 | Not Calculated | 3:00 | Y | 3,800 | 45,000 + 50,000 ⁴ |
| Waukesha | N/A | Not Calculated | 5:34 | Y | 5,500 | \$257,000 |
| Wausau | N/A | N/A | > 5:00 | Y (Airport) | 3,823 | \$120,000 |
| Wauwatosa | \$550,000.00 | Not Calculated | Not Calculated | Y | 6,800 | \$304,803 |
| Racine | | Not Calculated | 6:13 | Y | 3,200 | \$300,000 |
| Merrill | | Not Calculated | 2:43 | Y | 1,126 | \$125,000 |
| Green Bay | \$2,500,000.00 | Not Calculated | | Y | 5,000 | \$481,120 |
| West Allis | \$797,251.00 | | >5:00 91% | Y | 4,300 | \$187,500 |
| Chippewa Falls | \$175,000.00 | Not Calculated | 4:42 | Y | 1,600 | \$90,000 |
| Manitowoc | \$500,000.00 | Not Calculated | >5:00 90% | Y | 1,590 | \$98,000 |
| Milwaukee | | Not Calculated | > 7:00 90% | Y | | |
| North Shore | \$15,000,000.00 | Not Calculated | 5:30 | Y | 2700+ | \$350,000 |
| Brookfield | \$738,000.00 | Not Calculated | 5:40 | Y | 5,000 | \$210,000 |
| Fond du Lac | N/A | | 6:21 | Y | 2,615 | \$464,000 |
| Appleton | \$1,200,000.00 | Not Calculated | 4:40 | Y | | |
| Rhinelander | N/A | | 3:30 | Y | 720 | |
| Superior | | | | | | |
| Kenosha | | | | | | |
| Madison | | | | | | |

⁴ 45,000 for Fire and 50,000 for EMS

Multiple City Comparisons

| City | Housing (%) | | Housing (Actual Numbers) | | | |
|----------------|----------------|--------|--------------------------|---------|---------|--|
| | Owner Occupied | Rental | Owner Occupied | Rentals | Total | |
| Beloit | 62.0% | 38.0% | 8,277 | 5,093 | 13,370 | |
| Eau Claire | 57.3% | 42.7% | 13,759 | 10,257 | 24,016 | |
| Janesville | 68.2% | 31.8% | 16,289 | 7,605 | 23,894 | |
| La Crosse | 51.0% | 49.0% | 10,746 | 10,364 | 21,110 | |
| Oshkosh | 57.6% | 42.4% | 13,851 | 10,231 | 24,082 | |
| Sheboygan | 61.2% | 38.8% | 12,698 | 8,081 | 20,779 | |
| Waukesha | 56.6% | 43.4% | 14,508 | 11,155 | 25,663 | |
| Wausau | 61.8% | 38.2% | 9,676 | 6,002 | 15,678 | |
| Wauwatosa | 67.8% | 32.2% | 13,819 | 6,569 | 20,388 | |
| Racine | 60.4% | 39.6% | 18,972 | 12,477 | 31,449 | |
| Merrill | 65.4% | 34.6% | 2,732 | 1,451 | 4,183 | |
| Green Bay | 56.0% | 44.0% | 23,281 | 18,310 | 41,591 | |
| West Allis | 58.1% | 41.9% | 16,031 | 11,573 | 27,604 | |
| Chippewa Falls | 58.3% | 41.7% | 3,284 | 2,354 | 5,638 | |
| Manitowoc | 67.7% | 32.3% | 9,626 | 4,609 | 14,235 | |
| Milwaukee | 45.4% | 54.6% | 232,188 | 126,953 | 232,188 | |
| North Shore | 71.5% | 28.4% | 19,043 | 7,569 | 26,612 | |
| Brookfield | 85.0% | 15.0% | 12,227 | 2,156 | 14,383 | |
| Fond du Lac | 61.8% | 38.2% | 10,270 | 6,368 | 16,638 | |
| Appleton | 68.7% | 31.3% | 18,455 | 8,409 | 26,864 | |
| Rhineland | 59.3% | 40.7% | 1,907 | 1,307 | 3,214 | |
| Superior | | | | | | |
| Kenosha | | | | | | |
| Madison | | | | | | |

Housing source- www.maps.n stats

Multiple City Comparisons

| City | Community Programs | | | | | |
|----------------|--------------------|---------------------|-----------------------------|--|------------------------------------|---------------------------------------|
| | JFS | Fire Prevention K-6 | Fire Safety House or equiv. | Senior Citizens (Get Out and Stay Alive) | Senior Citizens (Disabled Program) | Ethnic Community Services / Education |
| Beloit | Y | K-5 | Y | N | N | Y |
| Eau Claire | Y | K-5 | Y | Y | Y | Y |
| Janesville | N | K,1,3,5,9 | Y | Y | N | Y |
| La Crosse | Y | K-6, 12 | Y | Y | Y | Y |
| Oshkosh | Y | Y | Y | Y | Y | N |
| Sheboygan | N | K,1,3,4 | N | Y | Y | Y |
| Waukesha | Y | K,1,4 | N | Y | N | Y |
| Wausau | Y | Y | Y | Y | Y | Y |
| Wauwatosa | N | Y | Y | Y | N | Y |
| Racine | | | | | | |
| Merrill | N | Y | N | Y | Y | N |
| Green Bay | Y | Y | Y | N | Y | Y |
| West Allis | Y | Y | Y | Y | N | N |
| Chippewa Falls | Y | Y | N | Y | N | N |
| Manitowoc | Y | Y | Y | Y | N | Y |
| Milwaukee | | | | | | |
| North Shore | N | Y | Y | N | Y | N |
| Brookfield | | | | | | |
| Fond du Lac | Y | Y | Y | Y | N | N |
| Appleton | Y | | | | | |
| Rhineland | Y | Y | Y | N | N | N |
| Superior | | | | | | |
| Kenosha | | | | | | |
| Madison | | | | | | |

Multiple City Comparisons

| City | State LPO (Underground Tank Program |
|----------------|---|
| Beloit | Y |
| Eau Claire | Y |
| Janesville | Y |
| La Crosse | Y |
| Oshkosh | Y |
| Sheboygan | N |
| Waukesha | Y |
| Wausau | Y |
| Wauwatosa | Y |
| Racine | |
| Merrill | N |
| Green Bay | Y |
| West Allis | Y |
| Chippewa Falls | Y |
| Mantowoc | N |
| Milwaukee | |
| North Shore | N |
| Brookfield | |
| Fond du Lac | Y |
| Appleton | |
| Rhineland | Y |
| Superior | |
| Kenosha | |
| Madison | |

ISO Comparison of Wisconsin Cities

| | |
|------------------|---|
| La Crosse | 2 |
| Wauwatosa | 2 |
| Merrill | 4 |
| Beloit | 3 |
| West Allis | 2 |
| Rhineland | 5 |
| Wisconsin Rapids | 3 |
| North Shore | 2 |
| Racine | 2 |
| Brookfield | 3 |
| Green Bay | 2 |
| Chippewa Falls | 3 |
| Stevens Point | 3 |
| Oak Creek | 3 |
| Madison | 3 |
| Marinette | 3 |
| Caledonia | 4 |
| Neenah/Menasha | 2 |
| Milwaukee | 2 |
| Franklin | 4 |
| Manitowoc | 2 |
| Waukesha | 2 |

| | |
|-------------|---|
| Wausau | 3 |
| Oshkosh | 2 |
| Greenfield | 3 |
| Eau Claire | 3 |
| Janesville | 3 |
| Marshfield | 4 |
| Sheboygan | 2 |
| Appleton | 2 |
| Superior | 4 |
| Cudahy | 4 |
| Kenosha | 2 |
| Fond du Lac | 2 |