

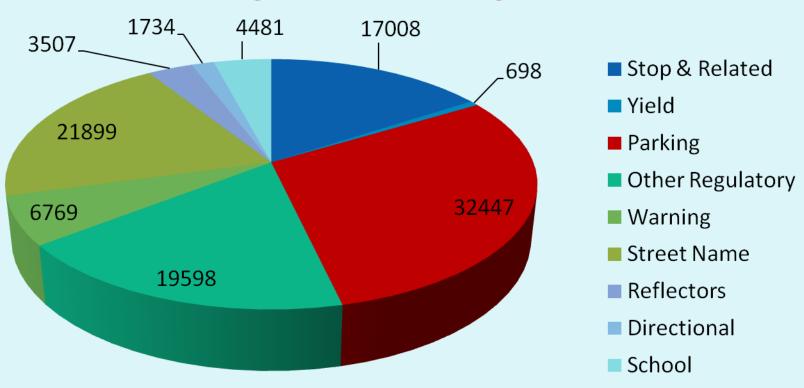
Capital Program Funding Elements



Traffic Signs by Sign Type

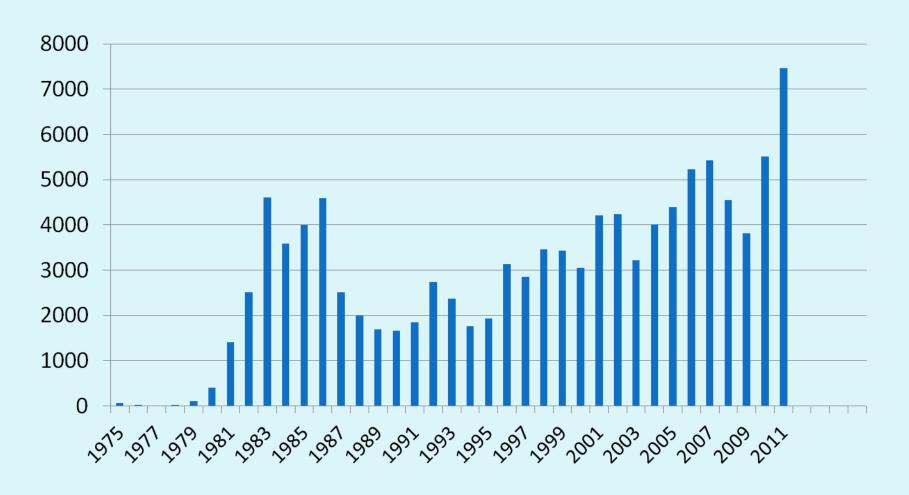
(As of January 1, 2012)

Total Existing Traffic Control Signs: 108,141



Existing Signs by Sign Installation Date

(as of January 1, 2012)



MUTCD Minimum Sign Retroreflectivity Standards

- US Department of Transportation Mandated by Congress to Implement Sign and Pavement marking Retroreflectivity Standards
- Final Rule on Maintaining Traffic Sign Retroreflectivity was Issued on December 21, 2007
- Sign Retroreflectivity Rule Modified the <u>2003</u> Manual on Uniform Traffic Control Devices as Revision 2 of That Edition, and Became Effective on January 22, 2008

Critical Compliance Dates for Sign Retroreflectivity

- Program to Assess and Manage Signing to Maintain Minimum Requirements to be in Place by January 22, 2012
- Regulatory, Warning and Post Mounted Guide
 Sign Minimum Retroreflectivity: January 22, 2015
- Street Name and Overhead Guide Sign Minimum Retroreflectivity: January 22, 2018
- FHWA Currently Reviewing Mandatory Compliance Dates for Sign Retroreflectivity

Traffic Sign Retroreflectivity Management Policy

- Policy Effective November 29, 2011
- Outdoor Test Rack Made Functional in 2010 to Monitor Sheeting Performance for Determination of Need for Sign Replacement
- Retroreflectivity of a Sample Population of Existing Signs to be Field Measured to Determine Need for Group Replacement of Signs in Service
- Currently Sign Sheeting Performing Better than that Suggested by FHWA

Sign Sheeting Useful Life

- Retroreflectivity Measured on Existing Signs in Service
- Observed Sign Sheeting Life Maintaining Minimum Retroreflectivity

– Green 20 Years

Red20 Years

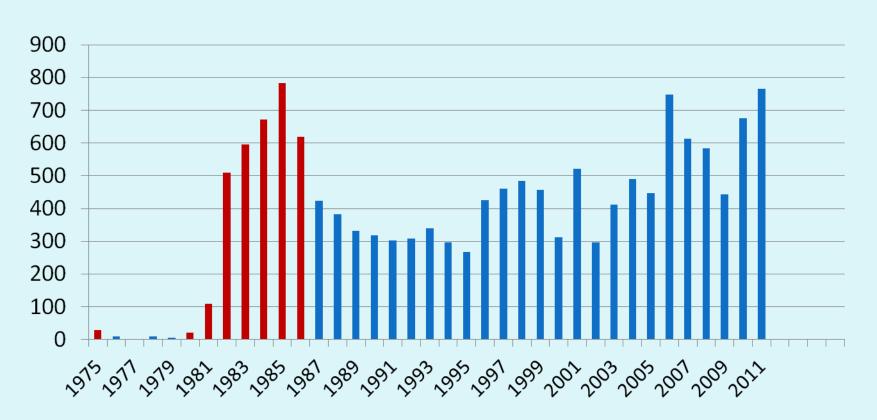
Yellow 16 Years

– White25 Years

Existing White Signs by Sign Installation Date

(as of January 1, 2012)

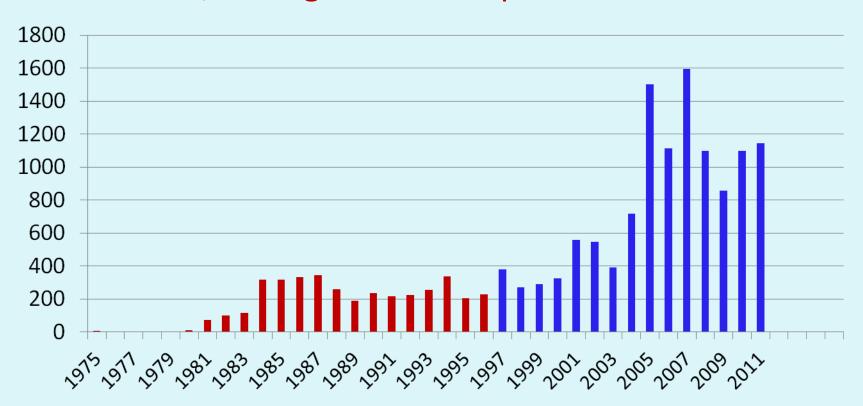
Measured Life – 25 years 3,356 Signs Installed prior to 1987



Existing Yellow Signs by Sign Installation Date

(as of January 1, 2012)

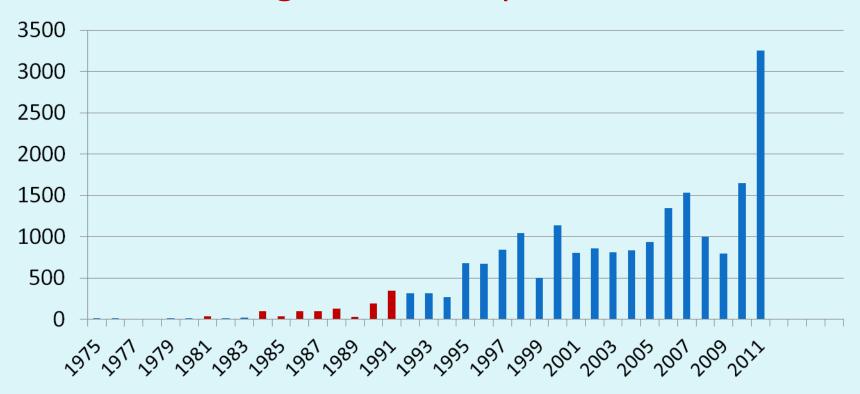
Measured Life – 16 years 3,543 Signs Installed prior to 1996



Existing Red Signs by Sign Installation Date

(as of January 1, 2012)

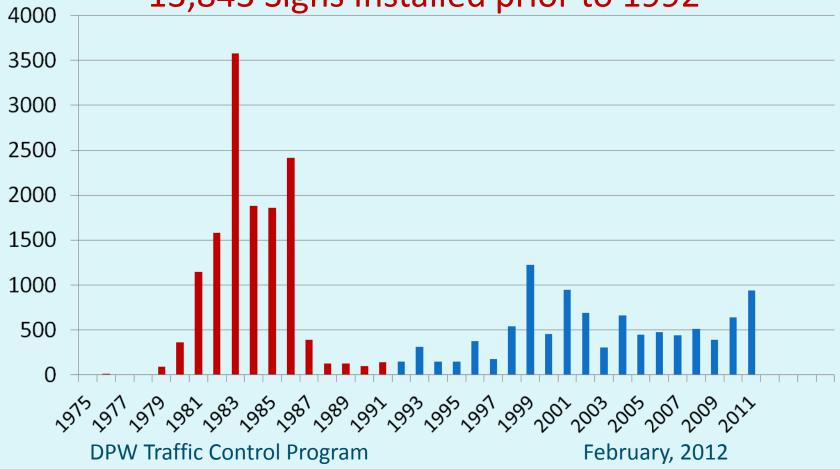
Measured Life – 20 years 1,127 Signs Installed prior to 1992



Existing Green Signs by Sign Installation Date

(as of January 1, 2012)

Measured Life – 20 years 13,843 Signs Installed prior to 1992



Wisconsin MUTCD Supplement

- Adopted by the Wisconsin State Legislature in Spring, 2011
- Legislature Previously Enacted Statutory
 Provision Requiring Double Forfeitures for
 Speed Violations in School Zones
- New Requirements for Installation of Mandatory "Fines Double" and "End School Zone" Signs



Traffic Signals

(As of January 1, 2012)

- 754 (+7) Signalized Intersections
 - 752 (+24) Intersections Fully Converted to LED Signal Indications
 - 303 (+28) Intersections with Fire Preemption Active
 - 17 Time-Based Coordinators
 - 125 (+55) Intersections with Pedestrian Countdown Timers
 - 16 (+4) Intersections with Audible Pedestrian Signals
- 13 Flashing Beacons
- 1 Rectangular Rapid Flashing Beacon



Countdown Pedestrian Signals

- Display the Amount of Time Remaining in the Flashing Don't Walk Signal Phase Before the Start of Yellow Phase
- Currently Mandated for All Signalized Intersections in the 2009 Manual on Uniform Traffic Control Devices
- Work began in 2011 on a Series of Federal Highway
 Safety Improvement Program for Group Replacement
 of All Pedestrian Indications, to be completed by 2014
- 2012 Work to Include Downtown and Near North
 Side

U.S. Access Board

- Authority to Make Recommendations
 Establishing Accessibility Requirements Under the Americans With Disabilities Act
- Proposed Rulemaking for Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way Published in the Federal Register on July 26, 2011
- Comments Period Closed February 2, 2012
- Final Rule to be Adopted by FHWA and US Department of Justice

Key Elements of Proposed Accessibility Guidelines Affecting Traffic Control Program

- Audible Pedestrian Signals Required at All Signalized Intersections When Controller Changed or Software Modified
- Signalization Required on All Legs of Multilane Roundabouts, and Multilane Right Turn Lanes
- New Requirements for Pedestrian Clearance Times (Flashing Don't Walks) Regardless of Typical Average Walking Speeds



Types of Pavement Markings Maintained

(As of January 1, 2012)

- Lane Lines and Center Lines
 - 333 Miles
- Arrows, "Only", and Bicycle Symbols
 - 310 (+12) Locations
- Bike Lanes (Single and Double Lined)
 - 99 (+48) Miles
- Crosswalks
 - 1,812 (+15) Locations

Average Useful Life of Pavement Markings

Painted: 1 Year

Inlaid Plastic: 5 Years

Epoxy: 3 Years

Key Changes in Pavement Markings

• 2011

Wells Street from 6th to Prospect, and 2nd Street from Michigan to Wells Converted (on a Temporary Basis) from One Way to Two Way Operation in September, 2011 Due to the Repair Work on the Wisconsin Avenue Bridge over the Milwaukee River

• 2012

 Additional 76 Miles of Bike Lanes and 68 Miles of Bicycle "Sharrows" to be Installed in 2012 Under a Federal Congestion Mitigation/Air Quality Grant

Other Budgetary Impacts

Uncollectable Knockdowns

- Applied to the Cost of Equipment
 Replacement Resulting From Traffic Accidents,
 Vandalism or Other Damage when Costs
 Cannot be Recovered from Parties
 Responsible For Damage
- First Included in Capital Program in 2004
- Total Expenditures of approximately \$165,000 to date for Damages Experienced in 2011