

ILLINOIS
STATEWIDE
CONGESTION
ANALYSIS
STUDY



max

angle

0.00000000000

0000000000

00000000

ter vai numeric

| 20000 | 0 | 767 |
|-------|---|-----|
| 100 | 0 | 107 |
| | 0 | 107 |
| | | 107 |
| | | 365 |
| | | 107 |
| | | 107 |
| | | 848 |

interstate

integer

oid

integer

12294

12294

10755

1 54

54

56

9

197

97

4169

12254

158

| When planning transit schedules, please list what factors your agency currently considers to be primary causes of off-schedule | | | | | JA |
|--|---|-------------------------|---|-----------------------------|-----|
| pe | performance (either behind or ahead of schedule): | | | | |
| | Often # Fairly | Often Sometimes | Rarety Alm | ost Never Total Bispomes | SA |
| | Delivery Truck Blocking | (1) Limi (1) - 85% (6) | 41% (7) | 81% (17) | SA. |
| | Road Construction/ Utility Work | 38°- () (3) | 1714 (8 | B6% (18) | 5A |
| | Traffic Accident | 10 (4) 44m (1) | 22% (A) 225 | 86% (18) | SA |
| | Excess Volume | 21 w (1) 16%(5) 21 | (8.74) (131-17) 32 56 (4) | 90% (19) | SA |
| | Occupied Rail Crossing | 119/2 (a) 119/2 | 2) <mark>127</mark> 5 (4) A(5)(3) 1 | B6% (18) | 5A |
| | Intersection seometry/Tunning Movement | (A) ABN(2) (1111) 25% (| (4) (4)(17) | 76% (16) | 5A |
| | Parking | 16/4(3) 219.77 18 | alder area (4) | 90% (19) | 5A |
| | sclement Weather | A) (1) A)*** (1) | 32% (6) | 90% (19) | SA. |
| | Special Events | 1 15 (7) (10 - 10) (27 | Hs (2) 20% (| 90% (19) | 5A |
| | Roadway Geometry | (1) 27% (A) |) PH-171 | 86% (18) | SA |

tmc_1

double precis character vai character vai

119P13158

119P13158

119N12752

nation

USA

USA

USA

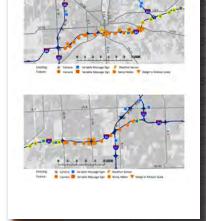
gid_1

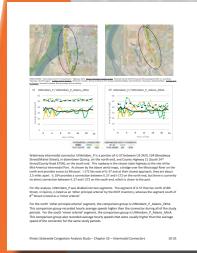
12295

12295

10756

| _ | | | _ |
|---|-------|-----------|-----|
| 1 | 2889 | 107N11544 | USA |
| | 10797 | 119N13157 | USA |
| | 12295 | 119P13158 | USA |





CLIENT:

Illinois Department of Transportation May 2014 to May 2016

CONTACT:

Karen Shoup, AIA, LEED AP Bureau Chief, Urban Program Planning IDOT Office of Planning and Programming

CONTRACT:

PTB 168, Item 29

Prime Contract: \$1.49 million

PROJECT PURPOSE:

- Evaluate Economic and Demographic Drivers of Travel Demand
- Assess Performance Measurements Using Multiple Sources of Data
- Analyze and Model Alternatives to Mitigate Congestion

In the Illinois Statewide Congestion Analysis Project, DAMA applied its experience and skills in travel demand modeling, VISSIM corridor and intersection modeling, SQL and SAS data analysis, GIS analysis and database management, transit operations, freight logistics, Intelligent Transportation Systems (ITS), survey analysis, and stakeholder engagement to identify locations where congestion occurs and to conduct alternative analyses of methods to address those conditions.

Our evaluation of freight corridor performance qualified DAMA for a presentation at the Transportation Research Board 2016 and for an article in the *Journal of the Transportation Research Board*.

DAMA used data sources from regional planning organizations, the Illinois Department of Transportation (IDOT), the National Performance Management Research Data Set (NPMRDS), the Federal Highway Administration (FHWA), and the U.S. Census. DAMA has developed tools and methods using Amazon Web Services (AWS) and the open source database PostgreSQL to combine data from these sources, identify performance measurements, and report conditions across multiple modes.

Project tasks involved the creation and use of models to evaluate and balance funding and context requirements for transportation projects; the identification and evaluation of existing and future transportation demand and needs; and stakeholder outreach to the general public, transportation agencies, transit and freight operators, and planning organizations.

World Imagery" <u>ArcMap 10.3 PC Software.</u>
Retrieved 30 October 2015.

107N05035

IMAGE SOURCE: ESRI, Inc., and Others, "Basen