

RTAMS_Signals_P6revised_201410

Shapefile

Thumbnail Not Available

Tags

Traffic Signals, Signalized Intersection, EVP, Signal Coordination

Summary

To provide a geographic base for displaying and gathering information on traffic signals in the region. This coverage represents a partial update of the original 2008 coverage developed by CATS/CMAP for the RTA.

In December 2011, CMAP requested updates for Signal Interconnect information from IDOT District 1, the counties, and a few of the largest cities. Most agencies only provided information for signalized intersections that were part of a signal interconnect system. This June 2012 partial update file only includes updates for location and signal coordination status for approximately 75% of the records in the inventory. Only the City of Chicago provided an updated listing of Red Light enforcement locations. The EVP field was not updated for any agency.

UPDATE: Since the 2012 update, no further review of this coverage was conducted ... pending a planned future initiative to develop an entirely signal inventory format. However, in October 2104, a user of this file noted some discrepancies in the coverage. After, a quick aerial photo review of records (where Agency_Ref="TBD") it was determined that 36 records showed false positive for signalized intersections. These records were isolated intersections that had been missed in the 2012 update, which focused on agency-reported signal interconnect system. As a result this revised version includes 7,892 records (36 fewer records). The same caveats apply as noted previously in the Use Limitation section of this metadata.

Description

This version of the Signal Inventory (RTAMS_Signals_P6_201206.shp) contains 7,892 signalized intersection records, and is provided as an ESRI shape file in the State Plane IL-East (Feet) Datum 1983 coordinate system. Preliminary/draft metadata is provided within the ERSI shape file coverage.

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Geographic Boundaries: Counties of Cook, Du Page, Kane, Kendall, Lake, McHenry, Will, also includes Aux Sable township of Grundy County

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Data Fields	Field Description
CMAP_ID	ID assigned by CMAP as of Dec 2011 (may be revised from previous versions)
Location	Street names for signalized intersection
Agency_Ref	Primary reporting agency
Agency_Type	Primary reporting agency category City, County, IDOT, TBD, etc. (TBD=Agency to be determined)
CDOT_BOE	BOE ID as reported by City of Chicago
IDOT_TS	IDOT_ID as reported by IDOT District 1
County_ID	Reported as part of County system
ON_SIGIC	Signal on known system in CMAPs Signal Interconnect Inventory as of Dec 2011
SIGIC_ID	CMAP Signal Interconnect Inventory ID as of Dec 2011
EVP_R	Reported Emergency Vehicle Pre-emption installed as of Dec 2007
Red_Light	Reported Red-light running enforcement as of Dec. 2007 (CDOT as of Dec 2011)
Central	Reported as under Centralized Control-as of Dec 2011
CMAPdate	Date information added the inventory by CMAP (original date 2007)
P_Update	Partial update reported December 2010 to December 2011

This coverage represents a 2012 partial update of the coverage developed as a result of CMAP's effort to survey of agencies that operate traffic signals in the 7 counties of N.E. Illinois. During the period June 2006 through December 2007, CMAP staff surveyed IDOT, the counties and municipalities of N.E. Illinois in order to gather information on regional traffic signals. Agencies were asked to report information on traffic signals (signalized intersections) that they considered

part of their system. The locations of signalized intersections were digitized based on IDOT's Illinois Roadway Information System GIS coverage (2006) and regional aerial photography. The primary information requested by CMAP included: intersection/location, primary agency, signal coordination, and the presence of emergency vehicle preemption (EVP). The effort to gather more detailed data on EVP, signal controllers and vehicle detection had limited success.

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Since numerous operating agreements exist between regional agencies, there were instances of redundant reports, where more than one agency considered the same signalized intersection on their "system". This highlighted a very basic data issue involving the prevalence of operating arrangements and agreements in the region. For example, IDOT provided a listing of 2,800+ traffic signals. There were frequent instances where a county and/or municipality also considered the same signal on their "system"; and in fact each agency may have had a participatory role in funding, operational, and/or maintenance functions. As a result, each agency may have provided information for the same signalized intersection, which in some cases proved to be contradictory. Representation of the full scope of agency operating agreements was beyond the scope of this project. CMAP staff reviewed and summarized the agency responses, and as such this GIS coverage should be considered a secondary product. For the most current and most detailed information the individual agencies should be contacted.

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Many agencies also reported information in their own formats, and in some cases only a minimum of information was provided. Some agencies also represented complex intersections as served by multiple traffic signals, while others choose to represent similar types of intersection as a single traffic signal location. As noted previously, representation of the full scope of agency operating agreements was beyond the scope of this project.

Credits

Sources for June 2012 Partial Update
IDOT District 1 City of Chicago (OEMC)
Counties: DuPage, Kane, Kendall, Lake, McHenry, Will

Sources for 2008 Inventory
City of Chicago (OEMC) IDOT District 1
Counties IDOT District 3
Cook, DuPage, Kane, Kendall, Lake, McHenry, Will RTA/UIC/CATS-COM Regional Signal Survey
122 Municipalities via CATS COM

Use limitations

This coverage is a work in progress, and is provided "as is" as of June 2012. Chicago Metropolitan Agency for Planning (CMAP) provides these geographic data "as is". CMAP makes no guarantee or warranty concerning the accuracy of information contained in the geographic data. CMAP further makes no warranties, either expressed or implied as to any other matter whatsoever, including, without limitation, the condition of the product, or its fitness for any particular purpose. The burden for determining fitness for use lies entirely with the user.

Extent

West -88.619136 **East** -87.513768

North 42.494700 **South** 41.295532

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

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