

DIGITAL METADATA FOR FAF RELEASE

IDENTIFICATION INFORMATION

Data Set Identity: Freight Analysis Framework (FAF) Network Version 2.2

Identification Code: None

Data Set Description: The spatial component of the FAF 2.2 network is derived from National Highway Planning Network Version 2005.08 and contains National Highway System (NHS), National Network (NN) and several intermodal connectors as appropriate for the freight network modeling. The network consists of over 447,407 miles of equivalent road mileage. The data set covers the 48 contiguous States, Alaska, Canadian routes that connects Alaska to the contiguous States and the District of Columbia. The nominal scale of the data set is 1:100,000 with a maximal positional error of ± 80 meters.

Theme:

Theme Keyword Thesaurus: None

Theme Keyword: Network

Bounding Coordinates:

West Bounding Coordinate: -176.763993

East Bounding Coordinate: -66.979625

North Bounding Coordinate: 71.316994

South Bounding Coordinate: 18.915020

Data Set Citation: "Freight Analysis Framework 2.2 Network Machine Readable Data Files" are distributed by the Federal Highway Administration Office of Freight Management and Operations, Operations Core Business Unit, Washington DC, 2007

Data Set Credit: The freight network, assignment and modeling portions of "FAF 2.2 Network" are developed by Transportation & Economic Development Product Line, Battelle Columbus, OH.

Use Restrictions: The FAF network, or any portion thereof, can be freely distributed as long as this metadata entry is included with each distribution. The original metadata entry cannot be modified or deleted from any data transfer.

DATA QUALITY INFORMATION

Beginning Date of Information Content: 20060401

Ending Date of Information Content: 20070330

Thematic Quality:

Thematic Accuracy Report: State Highway Performance related attributes associated with the FAF 2.2 network is current to HPMS 2002 dataset.

Logical Consistency Report: All node and link topological relationships and uniqueness of entity IDs are verified by computer algorithm.

Completeness Report: The completed FAF 2.2 network was delivered to the FHWA on Match 2007.

Positional Quality:

Horizontal Positional Quality

Horizontal Positional Accuracy Report: As reported in the NHPN version 2005.08 metadata, the elements of the NHPN have been conflated to the 1:100,000 DLG-

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3 data set which maintains a nominal accuracy of at least ± 80 meters. Where new roads have been added which are not in the DLG-3 database link alignments have been digitized or converted from digital sources acquired from State DOTs with a map scale of at least 1:100,000.

SPATIAL DATA ORGANIZATION INFORMATION

Direct Spatial Reference Method: Vector

Point and Vector Object Information:

Vector Object Information:

SDTS Vector Object Type: "line, non-planar graph"

Vector Object Count: 170,773

SPATIAL REFERENCE INFORMATION

Horizontal Coordinate System Definition:

Geographic:

Latitude Resolution: 0.000464

Longitude Resolution: 0.000464

Geographic Coordinate Units: "Decimal Degrees"

STATUS INFORMATION

Data Set Status: Available

Release Date: 20070330

Maintenance and Update Frequency: None

LINEAGE

Source Information:

Source Citation: "NHPN Version 2005.08, Federal Highway Administration, Washington DC, HEP-10

Source Citation Abbreviation: NHPN 2005.08

Beginning Date of Source Currentness: 20050831

Source Contribution: NHS, Interstate, and other arterial highway system, intermodal connectors.

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ENTITY AND ATTRIBUTE INFORMATION

Entity and Attribute Overview: Data dictionaries for FAF 2.2 network link, freight assignment output, and capacity analysis output are available in the Freight Analysis Framework 2.2 Methodology Document.

ID	Integer	Unique identification number.
LENGTH	Real	Length of arc (miles).
DIR	Integer	Freight direction for freight modeling. 0 both directions 1 direction along the link topology -1 direction opposite to link topology
VERSION	Character	Used for maintaining consistency across data files containing alternate releases of the FAF.
RECID	Real	A unique numeric ID associated with each arc of NHPN version 2005.08.
STATE	Character	State abbreviation.
STFIPS	Integer	State FIPS code for the arc.
CTFIPS	Integer	3 digit FIPS code for the county the arc resides.
SIGN1	Character	Contains the designated primary sign route for the arc.
SIGN2	Character	Contains the designated secondary sign route for the arc.
SIGN3	Character	Contains the designated additional secondary sign route for the arc.
LNAME	Character	Contains the local street name for the arc.
MILES	Real	Contains measurement in miles for the arc chain.
RUCODE	Integer	Describes the rural/urban classification of the arc. 1 Rural 2 Small urban area (population 5,000 to 49,999) 3 Small urbanized area (population 50,000 to 199,999) 4 Large urbanized area (population 200,000 or more) (blank) Data not available.
FCLASS	Integer	Identifies the assigned functional class of each arc. 1 Rural principal arterial – Interstate 2 Rural principal arterial – Other 6 Rural minor arterial 7 Rural major collector 8 Rural MINOR collector 9 Rural local 11 Urban principal arterial – Interstate 12 Urban Principal Arterial – Other freeways and expressways 14 Urban principal arterial – Other 16 Urban minor arterial 17 Urban collector 19 Urban local (blank) Data not available.

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STATUS	Integer	0	Proposed
		1	Open to traffic
		2	Ferry route
		3	Canadian routes connecting Alaska to the contiguous States.
NHS	Integer	Special subnetwork for the National Highway System.	
		0	Not on NHS
		1	Interstate
		3	Non-Interstate STRAHNET
		4	STRAHNET connector
		7	Other NHS
		8	Approved intermodal connector
LINK_TYPE	Integer	Information about the FAF 2.2 link.	
		0	Other FAF 2.2 routes
		1	State truck route not on the National Network.
		2	National Network (NN) route
		5	No trucks allowed

Entity and Attribute Detail Citation: Alam, (2007) "Freight Analysis Framework 2.2 Highway Capacity Analysis", Draft Methodology Report prepared for U.S. Department of Transportation, Office of Freight Management and Operations, Washington, D.C.

DISTRIBUTION INFORMATION

Distribution Contact:

Contact Information: Mr. Tianjia Tang
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Policy HOFM 71-01
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Distribution Liability: None

Standard Transfer Options:

Digital Form:

Digital Transfer Information:

Format Name: shape file

Format Version Number: generic

Format Version Date: none

Digital Transfer Options:

Offline Options:

Offline Media: CD-ROM

Recording Format: generic

Computability Information: None

METADATA REFERENCE INFORMATION

Metadata Date: 20021002

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Metadata Standard Name: FGDC Content Standards for Digital Spatial Metadata
Metadata Standard Version: 19940331

CONTACT INFORMATION

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