Road Inventory Data Dictionary

Field Name	Alias	Type	Precn.	Scale	Length	Edit	Null	Req.	Domain Fixed
RoadInventory_ID	RoadInventory_ID	Integer	0	0	4	Yes	No	Yes	No
CRN	CRN	String	0	0	9	Yes	No	Yes	No
RoadSegment_ID	RoadSegment_ID	Integer	0	0	4	Yes	No	Yes	No
FromMeasure	FromMeasure	Double	0	0	8	Yes	No	Yes	No
ToMeasure	ToMeasure	Double	0	0	8	Yes	No	Yes	No
AssignedLength	AssignedLength	Double	0	0	8	Yes	No	Yes	No
AssignedLengthSource	AssignedLengthSource	Small Integer	0	0	2	Yes	No	Yes	No
StreetList_ID	StreetList_ID	Integer	0	0	4	Yes	No	Yes	No
StreetName	StreetName	String	0	0	255	Yes	No	Yes	No
City	City	Small Integer	0	0	2	Yes	No	Yes	Yes
County	County	String	0	0	255	Yes	No	Yes	Yes
MunicipalStatus	MunicipalStatus	Small Integer	0	0	2	Yes	No	Yes	Yes
FromEndType	FromEndType	Small Integer	0	0	2	Yes	Yes	No	Yes
FromStreetName	FromStreetName	String	0	0	255	Yes	Yes	No	No
FromCity	FromCity	Small Integer	0	0	2	Yes	Yes	No	Yes
FromState	FromState	Small Integer	0	0	2	Yes	Yes	No	Yes
ToEndType	ToEndType	Small Integer	0	0	2	Yes	Yes	No	Yes
ToStreetName	ToStreetName	String	0	0	255	Yes	Yes	No	No
ToCity	ToCity	Small Integer	0	0	2	Yes	Yes	No	Yes
ToState	ToState	Small Integer	0	0	2	Yes	Yes	No	Yes
MileageCounted	MileageCounted	Small Integer	0	0	2	Yes	No	Yes	Yes
RouteKey	RouteKey	String	0	0	20	Yes	Yes	No	No
RouteFrom	RouteFrom	Double	0	0	8	Yes	Yes	No	No
RouteTo	RouteTo	Double	0	0	8	Yes	Yes	No	No
EquationRouteFrom	EquationRouteFrom	Double	0	0	8	Yes	Yes	No	No
EquationRouteTo	EquationRouteTo	Double	0	0	8	Yes	Yes	No	No
RouteSystem	RouteSystem	String	0	0	255	Yes	Yes	No	Yes
RouteNumber	RouteNumber	String	0	0	10	Yes	Yes	No	No
SubRoute	SubRoute	String	0	0	10	Yes	Yes	No	No
RouteDirection	RouteDirection	String	0	0	255	Yes	Yes	No	Yes
RouteType	RouteType	Small Integer	0	0	2	Yes	Yes	No	Yes
RouteQualifier	RouteQualifier	Small Integer	0	0	2	Yes	Yes	No	Yes
RPA	RPA	String	0	0	20	Yes	No	Yes	Yes
MPO	MPO	String	0	0	35	Yes	No	Yes	Yes
MassDOTHighwayDistrict	MassDOTHighwayDistrict	Small Integer	0	0	2	Yes	No	Yes	Yes
UrbanType	UrbanType	Small Integer	0	0	2	Yes	No	Yes	Yes
UrbanizedArea	UrbanizedArea	String	0	0	255	Yes	Yes	No	Yes
FunctionalClassification	FunctionalClassification	Small Integer	0	0	2	Yes	Yes	No	Yes
FederalFunctionalClassification	FederalFunctionalClassification	Small Integer	0	0	2	Yes	Yes	No	Yes
Jurisdiction	Jurisdiction	Small Integer	0	0	2	Yes	Yes	No	Yes
TruckRoute	TruckRoute	Small Integer	0	0	2	Yes	Yes	No	Yes
NHSStatus	NHSStatus	Small Integer	0	0	2	Yes	Yes	No	Yes
MHS	MHS	Small Integer	0	0	2	Yes	Yes	No	Yes

FederalAidRouteNumber	FederalAidRouteNumber	Integer String	0	0	10	Yes	Yes	No	Yes
FacilityType	FacilityType	Small Integer	0	0	2	Yes	Yes	No	Yes
StreetOperation	StreetOperation	Small Integer	0	0	2	Yes	Yes	No	Yes
AccessControl	AccessControl	Small Integer	0	0	2	Yes	Yes	No	Yes
TollRoad	TollRoad	Small Integer	0	0	2	Yes	Yes	No	Yes
NumberOfPeakHourLanes	NumberOfPeakHourLanes	Small Integer	0	0	2	Yes	Yes	No	No
FutureFacility	FutureFacility	Small Integer	0	0	2	Yes	Yes	No	No
RightSidewalkWidth	RightSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightShoulderType	RightShoulderType	Small Integer	0	0	2	Yes	Yes	No	Yes
RightShoulderWidth	RightShoulderWidth	Small Integer	0	0	2	Yes	Yes	No	No
MedianType	MedianType	Small Integer	0	0	2	Yes	Yes	No	Yes
MedianWidth	MedianWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftSidewalkWidth	LeftSidewalkWidth	Small Integer	0	0	2	Yes	Yes	No	No
LeftShoulderType	LeftShoulderType	Small Integer	0	0	2	Yes	Yes	No	Yes
LeftShoulderWidth	LeftShoulderWidth	Small Integer	0	0	2	Yes	Yes	Yes	No
UndividedLeftShoulderWidth	UndividedLeftShoulderWidth	Small Integer	0	0	2	Yes	Yes	Yes	No
UndividedLeftShoulderType	UndividedLeftShoulderType	Small Integer	0	0	2	Yes	Yes	Yes	No
SurfaceType	SurfaceType	Small Integer	0	0	2	Yes	Yes	No	Yes
SurfaceWidth	SurfaceWidth	Small Integer	0	0	2	Yes	Yes	No	No
RightOfWayWidth	RightOfWayWidth	Small Integer	0	0	2	Yes	Yes	No	No
NumberOfTravelLanes	NumberOfTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
OppositeNumberofTravelLanes	OppositeNumberofTravelLanes	Small Integer	0	0	2	Yes	Yes	No	No
Curbs	Curbs	Small Integer	0	0	2	Yes	Yes	No	Yes
Terrain	Terrain	Small Integer	0	0	2	Yes	No	Yes	Yes
SpeedLimit	SpeedLimit	Small Integer	0	0	2	Yes	Yes	No	No
OpposingDirectionSpeedLimit	OpposingDirectionSpeedLimit	Small Integer	0	0	2	Yes	Yes	No	No
StructuralCondition	StructuralCondition	Small Integer	0	0	2	Yes	Yes	No	Yes
ADT	ADT	Integer	0	0	4	Yes	Yes	No	No
ADTStationNumber	ADTStationNumber	Integer	0	0	4	Yes	Yes	No	No
ADTDerivation	ADTDerivation	Small Integer	0	0	2	Yes	Yes	No	Yes
ADTYear	ADTYear	Small Integer	0	0	2	Yes	Yes	No	No
IRI	IRI	Small Integer	0	0	2	Yes	Yes	No	No
IRIYear	IRIYear	Small Integer	0	0	2	Yes	Yes	No	No
IRIStatus	IRIStatus	Small Integer	0	0	2	Yes	Yes	No	Yes
PSI	PSI	Small Integer	0	0	2	Yes	Yes	No	No
PSIYear	PSIYear	Small Integer	0	0	2	Yes	Yes	No	No

HPMSCode	HPMSCode	Small Integer	0	0	2	Yes	Yes	No	Yes
HPMSSample_ID	HPMSSample_ID	String	0	0	12	Yes	Yes	No	No
AddedRoadType	AddedRoadType	Small Integer	0	0	2	Yes	Yes	No	Yes
DateActive	DateActive	Date	0	0	8	Yes	No	Yes	No
LifeCycleStatus	LifeCycleStatus	Small Integer	0	0	2	Yes	No	Yes	Yes
ITEM_ID	ITEM_ID	Integer	0	0	4	Yes	No	Yes	No
OBJECTID	OBJECTID	OID	0	0	4	No	No	Yes	No
Shape	Shape	Geometry	0	0	0	Yes	No	Yes	No

Field Descriptions

RoadInventory_ID: The unique identifier of the *RoadInventory* file

CRN: A unique identifier combining County Code and RoadInventory_ID

RoadSegment_ID: The unique identifier of the *base arcs*

FromMeasure: The measured length along the specified *RoadSegment* feature where the *RoadInventory* segment starts

ToMeasure: The measured length along the *RoadSegment* feature where the *RoadInventory* segment ends

AssignedLength: Segment length in miles

AssignedLengthSource: Defines the source of the assigned length value
- 0 = Shape length
- 1 = Odometer
- 2 = Odometer prorated from CSN pair (60000-rule) during migration from coverage model

StreetList_ID: The identifier of the Street the segment lies on

StreetName: The name of the street the segment lies on

City
- 1= Abington & 351 = Yarmouth

County
- A = Barnstable
- B = Berkshire
- C = Bristol
- D = Dukes
- E = Essex
- F = Franklin
- G = Hampden
- H = Hampshire
- I = Middlesex
- J = Nantucket
- K = Norfolk
- L = Plymouth
- M = Suffolk
- N = Worcester

MunicipalStatus
- 1 = City
- 2 = Town
- 3 = Town with City Government

FromEndType: Defines the start of the street the segment lies on
- 1 = Cross-street
- 2 = Dead end
- 3 = Cul-de-sac
- 4 = Private property
- 5 = Town line
- 6 = State line

FromStreetName: The cross-street where the street starts (when the street starts at a cross-street)

FromCity: The city where the street starts when the street starts at a city boundary
1= Abington & 351 = Yarmouth

FromState: The state where the street starts when the street starts at a state boundary
1 = Connecticut
2 = New Hampshire
3 = New York
4 = Rhode Island
5 = Vermont

ToEndType Defines the end of the street the segment lies on
1 = Cross-street
2 = Dead end
3 = Cul-de-sac
4 = Private property
5 = Town line
6 = State line

ToStreetName: The cross-street where the street ends (when the street ends at a cross-street)

ToCity: The city where the street ends when the street ends at a city boundary
1= Abington & 351 = Yarmouth

ToState: The state where the street ends when the street ends at a state boundary
1 = Connecticut
2 = New Hampshire
3 = New York
4 = Rhode Island
5 = Vermont

MileageCounted: Describes whether the segments length is counted towards the official statewide road centerline mileage
1 = Yes
0 = No
Note - See Facility Type

RouteKey: The primary state numbered route or designated non-numbered route on which this segment lies; when more than one route traverse a segment, the *highest order* (Interstate > US Highway > State Route), *lowest number* route is primary; non-numbered routes are used internally by Planning for pavement data collections

RouteFrom: The measured length along the specified *Route* where this *RoadInventory* segment starts

RouteTo: The measured length along the specified *Route* where this *RoadInventory* segment ends

EquationRouteFrom: The measured length along the specified *EquationRoute,* calculated from the mile marker signs, where this *RoadInventory* segment starts

EquationRouteTo: The measured length along the specified *EquationRoute,* calculated from the mile marker signs, where this *RoadInventory* segment ends

RouteSystem
I = Interstate
US = US Highway
SR = State Route
0 = Not a numbered route

RouteNumber: The official route number designation; need not be exclusively numeric (*146A*, for example)

SubRoute: Optional designation to distinguish alternate sections of the same numbered route

RouteDirection
NB = North
EB = East
SB = South
WB = West

RouteType

0 = Non-numbered
1 = Numbered-Primary (NB/EB)
2 = Numbered-Opposing (SB/WB)

RouteQualifier: (Reserved for future use -- not implemented at this time)

0 = No Qualifier or Not Signed or Not Applicable
1 = Alternate
2 = Business Route
3 = Bypass
4 = Spur
5 = Loop
6 = Proposed
7 = Temporary
8 = Truck Route
9 = None of the Above

RPA: Regional Planning Agency

BRPC =Berkshire Regional Planning Commission
CCC = Cape Cod Commission
CMRPC = Central Massachusetts Regional Planning Commission
FRCOG = Franklin Regional Council of Governments
MAPC = Metropolitan Area Planning Council
MRPC = Montachusett Regional Planning Commission
MVC = Marthas Vineyard Commission
MVPC = Merrimack Valley Planning Commission
NMCOG = Northern Middlesex Council of Governments
NPEDC = Nantucket Planning and Economic Development Commission
OCPC = Old Colony Planning Council
PVPC = Pioneer Valley Planning Commission
SRPEDD = Southeastern Regional Planning and Economic Development District

MPO: Metropolitan Planning Organization

Berkshire
Boston Region
Cape Cod
Central Massachusetts
Franklin
Martha's Vineyard
Merrimack Valley
Montachusett
Nantucket
Northern Middlesex
Old Colony
Pioneer Valley
Southeastern Massachusetts

MassDOTHighwayDistrict

MinValue: 1
MaxValue: 6

UrbanType

1 = Large Urbanized Area –
Densely settled territory that contains 200,000 people or more
2 = Small Urbanized Area –
Densely settled territory that contains at least 50,000 people but fewer than 200,000 people
3 = Large Urban Cluster –
Densely settled territory that contains at least 5000 people but fewer than 50,000 people
4 = Small Urban Cluster –
Densely settled territory that contains at least 2500 people but fewer than 5000 people
5 = Rural

UrbanizedArea

0 = RURAL

Large Urbanized Area

05167 = Barnstable Town
09271 = Boston (MA-NH-RI)
72505 = Providence (RI-MA)
83926 = Springfield (MA-CT)
97291 = Worcester (MA-CT)

Small Urbanized Area

49096 = Leominster-Fitchburg
61165 = Nashua (NH-MA)
61786 = New Bedford
69778 = Pittsfield

Large Urban Cluster

03790 = Athol
34975 = Greenfield
48745 = Lee
61003 = Nantucket
63460 = North Adams (MA-VT)
63568 = North Brookfield
83156 = South Deerfield
90757= Vineyard Haven
91756 = Ware

Small Urban Cluster

34678 = Great Barrington
72532 = Provincetown
84169 = Stafford (CT-MA)

FunctionalClassification: *Note: use urban/rural designation to interpret functional classification*

0 = Local
1 = Interstate
2 = Urban or Rural Principal Arterial
3 = Urban Principal Arterial or Rural Minor Arterial
5 = Urban Minor Arterial or Rural Major Collector
6 = Urban Collector or Rural Minor Collector

FederalFunctionalClassification

1 = Interstate
2 = Principal Arterial – Other Freeways and Expressways
3 = Principal Arterial – Other
4 = Minor Arterial
5 = Major Collector
6 = Minor Collector
7 = Local

Jurisdiction

1 = Massachusetts Department of Transportation
2 = City or Town accepted road
3 = Department of Conservation and Recreation
5 = Massachusetts Port Authority
6 = State Park or Forest
7 = State Institutional
8 = Federal Park or Forest
9 = County Institutional
0 = Unaccepted by city or town
B = State college or university
C = US Air Force
D = US Army Corps of Engineers
E = Federal Institutional
F = Other Federal
G = Federal Bureau of Indian Affairs
H = Private
I = US Army
J = US Navy

Truck Route

0 = Not a parkway - not on a designated truck route
1 = Designated truck route under Federal Authority in 23 CFR 658
Available to STAA vehicles (Twin 28' Semi-trailer-trailer and 48' Semi-trailer combinations)
2 = Designated truck route ONLY under State Authority.
Fully available to both types of STAA vehicles described above
3 = Department of Conservation and Recreation Parkway – No trucks allowed

NHSStatus: National Highway System Status

0 = Not on NHS
1 = NHS - Interstate
2 = NHS - Strategic Defense Highway System (STRAHNET)
3 = NHS - STRAHNET Connector
4 = NHS - Other - One-way pair
5 = NHS - Other - Truck route exclusion
6 = NHS - Major Airport
7 = NHS - Major Port Facility
8 = NHS - Major Amtrak Station
9 = NHS - Major Rail/Truck terminal
10 = NHS - Major Intercity Bus Terminal
11 = NHS - Major Public Transit or Multi-Modal Passenger Terminal
12 = NHS - Major Pipeline Terminal
13 = NHS - Major Ferry Terminal
14 = NHS - Other (not in above categories)
15 = NHS – MAP-21

MHS: Metropolitan Highway System

0 = Not on MHS
1 = MHS

FederalAidRouteNumber: Maintained for historical purposes

FacilityType

1 = Mainline roadway*
2 = Roundabout*
3 = Tunnel*
4 = Doubledeck*
5 = Rotary*
6 = Causeway*
7 = Simple ramp
8 = Ramp - NB/EB
9 = Ramp - SB/WB
10 = Collector - Distributor
11 = Simple Ramp - Tunnel
12 = Bicycle

*Road types included in official statewide road centerline mileage

StreetOperation

1 = One-way traffic
2 = Two-way traffic

AccessControl

0 = No control
1 = Full control
2 = Partial control

TollRoad

0 = No toll charged
1 = Toll charged in both directions
2 = Toll charged in one direction only

NumberOfPeakHourLanes: Number of lanes open for vehicles during Peak travel times including breakdown and high-occupancy vehicle lanes

RightSidewalkWidth: Width of the sidewalk in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

RightShoulderType: Type of shoulder on the right side of the road traveling in the primary (NB/EB) direction of

travel

0 = No Shoulder
1 = Stable - Unruttable compacted subgrade
2 = Unstable shoulder
3 = Hardened bituminous mix or penetration
4 = Combination shoulder

RightShoulderWidth: Width of shoulder in feet on the right side of the road traveling in the primary (NB/EB) direction of travel

MedianType: Type of median on divided roadways

0 = None
1 = Curbed
2 = Positive barrier - Unspecified
3 = Unprotected
4 = Positive barrier – Flexible
5 = Positive barrier – Semi-Rigid
6 = Positive barrier - Rigid

MedianWidth: Width of median in feet on divided roadways

MinValue: 1
MaxValue: 999

LeftSidewalkWidth: Width of the sidewalk in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; on divided roadways, this will fall on the opposing direction (see illustration)

LeftShoulderType: Type of shoulder on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

0 = No Shoulder
1 = Stable - Unruttable compacted subgrade
2 = Unstable shoulder
3 = Hardened bituminous mix or penetration
4 = Combination shoulder

LeftShoulderWidth: Width of shoulder in feet on the left side of the road traveling in the primary (NB/EB) direction of travel; for divided roadways median shoulders are assumed to be of the same type

UndividedLeftShoulderType: Type of shoulder on the opposing side of an undivided road

0 = No Shoulder
1 = Stable - Unruttable compacted subgrade
2 = Unstable shoulder
3 = Hardened bituminous mix or penetration
4 = Combination shoulder

UndividedLeftShoulderWidth: Width of shoulder in feet on the opposing side of an undivided road

SurfaceType

1 = Unimproved, graded earth, or soil surface road
2 = Gravel or stone road
3 = Brick road
4 = Block road
5 = Surface-treated road
6 = Bituminous concrete road
7 = Portland cement concrete road
8 = Composite road; flexible over rigid
9 = Composite road; rigid over flexible or rigid over rigid ("white topping")

SurfaceWidth: Surface width in feet; measurement of traveled way, excluding shoulders/auxiliary lanes

RightOfWayWidth: Right-of-way width in feet

NumberOfTravelLanes: Number of travel lanes (for undivided roadways, number of lanes in both directions of travel, for divided roadways, number of lanes on the given segment only)

MinValue: 1
MaxValue: 6

OppositeNumberOfTravelLanes: Number of travel lanes in the opposite direction of a divided roadway

MinValue: 1
MaxValue: 6

Curbs
- 0 = None
- 1 = Left side only
- 2 = Right side only
- 3 = Both sides
- 4 = Along median only
- 5 = All curbs (divided highway)

Terrain
- 1 = Level
- 2 = Rolling
- 3 = Mountainous

SpeedLimit
- MinValue: 5
- MaxValue: 65

OpposingDirectionSpeedLimit
- MinValue: 5
- MaxValue: 65

StructuralCondition
- 1 = Good
- 2 = Fair
- 3 = Deficient
- 4 = Intolerable

ADT: Average Annual Daily Traffic

ADTStationNumber: ADT count station location number; used to reference Traffic Data Collections counting station number

ADTDerivation
- 0 = Not applicable
- 1 = Derived from counts collected on or adjacent to the section during the current year
- 2 = Derived from factoring counts from the previous year count-base AADT that is less than three years old
- 3 = Derived from count data that is three or more years old
- 4 = Derived from an estimate
- 5 = Working code for principal arterial counting program

ADTYear: Year of ADT collection

IRI: Pavement Roughness; value reflects calibrated value in inches of roughness per mile

IRIYear: Year of IRI collection

IRIStatus
- 1 = IRI data collected
- 2 = No IRI data collected due to speed
- 3 = No IRI data collected due to construction
- 4 = No data collected due to bridge deck

PSI: Pavement Condition; value reflects estimated condition on selected roadway section

PSIYear: Year of PSI collection

HPMSCode
- 0 = Not an HPMS section nor on a road that has an HPMS section
- 1 = Not an HPMS section but is on a road that has an HPMS section
- 2 = An HPMS section

HPMSSample_ID: The HPMS Sample identifier for sections lying on a designated HPMS sample

AddedRoadType: Description of roads added to the GIS that are 250 feet or more and serve a specific land use

0 = Default/Not applicable
1 = Public road (but not highway ramp)
3 = Highway ramp
4 = Road appears in 1:5000-scale centerline file, but not in DLG or orthophotos
5 = Research park, industrial park, office park, shopping mall or center, condominium complex or subdivision
6 = Airport passenger or cargo area, port access road, intermodal terminal access road, or major truck terminal
7 = Treatment plant, electrical plant, petroleum depot, town or state facility, or other water, sewer, power, or communication facility
8 = State park or other recreational area
9 = Cul-de-sac
10 = Other private road
11 = Rest area

DateActive: The date the road became active, or, if not known, the date it was entered into the system; all roads active when this field was implemented were assigned a date 1/1/2004

LifeCycleStatus

1 = Proposed
2 = In Construction
3 = Active
4 = Centroid
5 = ParkNRide
6 = Transit
7 = HOV
8 = Ferry
9 = Parking