

Saskatchewan Enhanced NRN Data Specifications

Edition 1.0

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**Information Services Corporaton
of Saskatchewan**

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URL: <http://www.isc.ca>

The included data files:

ROADSEG_1_line_utmexz13_sask.shp
 BLKPASSAGE_0_point_utmexz13.shp
 FERRYSEG_1_line_utmexz13.shp
 JUNCTION_0_point_utmexz13.shp
 TOLLPOINT_0_point_utmexz13.shp
 qlf_railcross_p_utmexz13_merged.shp
 qlf_privent_p_utmexz13_merged.shp

Notes about file names:

- If the filename contains the string “utmexz13” it indicates that the data has been projected using utm extended zone 13.
- If the filename contains the string “sask” it indicates that Saskatchewan specific attribute data has been added to the NRN data file.
- If the filename contains the string “merged” it indicates that the data was not delivered to ISC as a merged continuous dataset. These files (qlf_railcross_p_utmexz13_merged.shp and qlf_privent_p_utmexz13_merged.shp) were created by merging the datasets (tiled according to 1:250000 NTS mapsheets) previously delivered to ISC under the SURN project.

Most of the description information in the tables below was taken from the website:

ftp://ftp.cits.rncan.gc.ca/pub/information/NRN_INFO/NRNC1/Geobase_Feature_Catalogue_SEG_NRNC1_v01.pdf

Data Dictionary

ROADSEG_1_line_utmexz13_sask.shp

Field Name	Data Type	Description	Source
Roadsegid	number(11,0)	Road Segment Id - A unique identifier assigned to each instance of Road Segment.	Roadseg_line_1.shp
Nid	char(32)	A unique national identifier. The same NID is assigned to each adjoining Road Segments or Ferry Connections Segments between Junctions.	Roadseg_line_1.shp
Mdobjectfk	number(11,0)	Province or Territory occupied by the dataset. This attribute is called Dataset Name in the NRN Level 1 Segmented Feature Catalogue – Edition 1.0	Roadseg_line_1.shp
Accuracy	number(11,0)	The Planimetric Accuracy expressed as the circular map accuracy standard (CMAS).	Roadseg_line_1.shp

Field Name	Data Type	Description	Source
Acqtech	number(11,0)	Acquisition Technique – The type of data source used to populate the NRNC1.	Roadseg_line_1.shp
Acqprovidr	number(11,0)	Acquisition Provider – The affiliation of the organization that generated the object for the NRNC1.	Roadseg_line_1.shp
Acqrevdate	char(7)	Acquisition or Revision Date – The date of data capture or revision.	Roadseg_line_1.shp
Natrdclass	number(11,0)	National Road Class – The numeric classification as defined by the functional National Road Classification system of a Network Linear Element, from the highest to the lowest class of road.	Roadseg_line_1.shp
Nbrlanes	number(11,0)	Number of Lanes – The number of dedicated traffic lanes on a road surface.	Roadseg_line_1.shp
Pavstatus	number(11,0)	Pavement Status – The type of improvement applied to a road surface.	Roadseg_line_1.shp
Pavsurf	number(11,0)	Paved Road Surface Type – The characteristics of the material used on a paved road surface.	Roadseg_line_1.shp
Unpavsurf	number(11,0)	Unpaved Road Surface Type – The characteristics of the material used on unpaved road surface.	Roadseg_line_1.shp
Structid	char(32)	Structure ID – A unique identifier assigned to the Road Segment or the set of adjoining Road Segments forming a structure. This identifier allows for the reconstitution of a structure that is fragmented by junctions.	Roadseg_line_1.shp
Structtype	number(11,0)	Structure Type – A manmade linear structure built to support a road. It may be built at, above, or below grade.	Roadseg_line_1.shp
Strunamefr	char(100)	Structure Name French – The French version of the Name of a Road Structure as assigned by a national or subnational agency.	Roadseg_line_1.shp
Strunameen	char(100)	Structure Name English – The English version of the Name of a Road Structure as assigned by a national or subnational agency.	Roadseg_line_1.shp
Rtnumber1	char(10)	Route Number – The ID-number of a particular route in a given road network as assigned by a national or subnational agency. A Road Segment or Ferry Connection Segment can belong to more than one numbered route. In such cases, it has multiple Route Number attributes.	Roadseg_line_1.shp
Rtnumber2	char(10)	See Rtnumber1	Roadseg_line_1.shp

Field Name	Data Type	Description	Source
Rtnumber3	char(10)	See Rtnumber1	Roadseg_line_1.shp
Rtnumber4	char(10)	See Rtnumber1	Roadseg_line_1.shp
Rtnumber5	char(10)	See Rtnumber1	Roadseg_line_1.shp
Rtename1fr	char(100)	Route Name French – The French version of the Name of a route in a given road network as assigned by a national or subnational agency. A Road Segment or Ferry connection Segment can belong to more than one named route. In such cases, it has multiple Route Name French Attributes.	Roadseg_line_1.shp
Rtename2fr	char(100)	See Rtename1fr	Roadseg_line_1.shp
Rtename3fr	char(100)	See Rtename1fr	Roadseg_line_1.shp
Rtename4fr	char(100)	See Rtename1fr	Roadseg_line_1.shp
Rtename1en	char(100)	Route Name English – The English version of the Name of a particular route in a given road network as assigned by a national or subnational agency. A Road Segment or Ferry Connection Segment can belong to more than one named route. In such cases, it has multiple Route Name English attributes.	Roadseg_line_1.shp
Rtename2en	char(100)	See Rtename1en	Roadseg_line_1.shp
Rtename3en	char(100)	See Rtename1en	Roadseg_line_1.shp
Rtename4en	char(100)	See Rtename1en	Roadseg_line_1.shp
Exitnbr	char(10)	Exit Number – The ID-number of an exit on and off a controlled access thoroughfare that has been assigned by an administering body.	Roadseg_line_1.shp
Speedlimit	number(11,0)	Speed limit of road segment	Roadseg_line_1.shp
Traveldir	number(11,0)	Travel direction of road segment	Roadseg_line_1.shp
Idocc	number(11,0)	Identifier used to link geometry to attribute tables.	Roadseg_line_1.shp
Dirprefix	char(20)	The street direction prefix of the segment eg. NW in NW Marine Drive	Str_name.dbf
Sttypepref	char(20)	The street type prefix. Eg. Avenue in Avenue A.	Str_name.dbf
Snameart	char(20)	Defined by the National Road Network standard.	Str_name.dbf
Snamebody	char(20)	The name of the segment. Eg. Albert in Albert Street.	Str_name.dbf
Sttypesuff	char(20)	The street type suffix. Eg. Avenue in Victoria Avenue.	Str_name.dbf
Dirsuffix	char(20)	The street direction suffix. Eg. North in Albert Street North.	Str_name.dbf
Muniquad	char(20)	Defined by the National Road Network standard.	Str_name.dbf
Placename	char(20)	The municipality that the road segment occurs in eg. Regina, RM of Tullymet.	Pl_name.dbf

Field Name	Data Type	Description	Source
Provname	char(20)	This field is equal to "Saskatchewan" if the record has an idocc number and null if idocc is null.	Pl_name.dbf
Placetype	char(20)	This field is equal to "-" if the record has an idocc number and null if idocc is null.	Pl_name.dbf
Postedname	char(100)	The name as posted. Concatenation and upcase of: Dirprefix, Sttypepref, Snameart, Snamebody, Sttypesuff, Dirsuffix, Muniquad.	Str_name.dbf

BLKPASSAGE_0_point_utmexz13.shp

Field Name	Data Type	Description	Source
Nid	char(32)	A unique national identifier. The same NID is assigned to each adjoining Road Segments or Ferry Connections Segments between Junctions.	Blkpassage_0_point.shp
Blkpassty	number(11,0)	Block Passage Type – The characteristics of a Blocked Passage	Blkpassage_0_point.shp
Mdobjectfk	number(11,0)	Dataset Name – Province or Territory occupied by the dataset.	Blkpassage_0_point.shp
Accuracy	number(11,0)	The Planimetric Accuracy expressed as the circular map accuracy standard (CMAS)	Blkpassage_0_point.shp
Acqtech	number(11,0)	Acquisition Technique – The type of data source used to populate the NRNC1	Blkpassage_0_point.shp
Acqprovidr	number(11,0)	Acquisition Provider – The affiliation of the organization that generated the object for the NRNC1	Blkpassage_0_point.shp
Acqrevdate	char(7)	Acquisition or Revision Date – The date of data capture or revision	Blkpassage_0_point.shp
Roadnid	char(32)	Network Linear Element NID – The Nid of the Road Segment along which the feature is located	Blkpassage_0_point.shp

FERRYSEG_1_line_utmexz13.shp

Field Name	Data Type	Description	Source
Ferrysegid	number(11,0)	Ferry Connection Segment ID – A unique identifier assigned to each instance of Ferry Connection Segment	Ferryseg_1_line.shp
Nid	char(32)	A unique national identifier. The same NID is assigned to each adjoining Road Segments or Ferry Connections Segments between Junctions.	Ferryseg_1_line.shp
Mdobjectfk	number(11,0)	Dataset Name – Province or Territory occupied by the dataset.	Ferryseg_1_line.shp
Accuracy	number(11,0)	The Planimetric Accuracy expressed as the circular map accuracy standard (CMAS)	Ferryseg_1_line.shp
Acqtech	number(11,0)	Acquisition Technique – The type of data source used to populate the NRNC1	Ferryseg_1_line.shp
Acqprovidr	number(11,0)	Acquisition Provider – The affiliation of the organization that generated the object for the NRNC1	Ferryseg_1_line.shp
Acqrevdate	char(7)	Acquisition or Revision Date – The date of data capture or revision	Ferryseg_1_line.shp
Natrdclass	number(11,0)	National Road Class - The numeric classification as defined by the functional National Road Classification system of a Network Linear Element, from the highest to the lowest class of road.	Ferryseg_1_line.shp
Rtnumber1	char(10)	Route Number – The ID-number of a particular route in a given road network as assigned by a national or subnational agency. A Road Segment or Ferry Connection Segment can belong to more than one numbered route. In such cases, it has multiple Route Number attributes.	Ferryseg_1_line.shp
Rtnumber2	char(10)	See Rtnumber1	Ferryseg_1_line.shp
Rtnumber3	char(10)	See Rtnumber1	Ferryseg_1_line.shp
Rtnumber4	char(10)	See Rtnumber1	Ferryseg_1_line.shp
Rtnumber5	char(10)	See Rtnumber1	Ferryseg_1_line.shp
Rtename1fr	char(100)	Route Name French – The French version of the Name of a route in a given road network as assigned by a national or subnational agency. A Road Segment or Ferry connection Segment can belong to more than one named route. In such cases, it has multiple Route Name French	Ferryseg_1_line.shp

Field Name	Data Type	Description	Source
		Attributes.	
Rtename2fr	char(100)	See Rtename1fr	Ferryseg_1_line.shp
Rtename3fr	char(100)	See Rtename1fr	Ferryseg_1_line.shp
Rtename4fr	char(100)	See Rtename1fr	Ferryseg_1_line.shp
Rtename1en	char(100)	Route Name English – The English version of the Name of a particular route in a given road network as assigned by a national or subnational agency. A Road Segment or Ferry Connection Segment can belong to more than one named route. In such cases, it has multiple Route Name English attributes.	Ferryseg_1_line.shp
Rtename2en	char(100)	See Rtename1en	Ferryseg_1_line.shp
Rtename3en	char(100)	See Rtename1en	Ferryseg_1_line.shp
Rtename4en	char(100)	See Rtename1en	Ferryseg_1_line.shp

JUNCTION_0_point_utmexz13.shp

Field Name	Data Type	Description	Source
Nid	char(32)	A unique national identifier. The same NID is assigned to each adjoining Road Segments or Ferry Connections Segments between Junctions.	Junction_0_point.shp
Junctype	number(11,0)	Junction Type – A type assignment based on the number of Road or Ferry Connection Segment Elements joining at a Junction	Junction_0_point.shp
Exitnbr	char(10)	Exit Number – The ID-number of an exit on and off a controlled access thoroughfare that has been assigned by an administering body.	Junction_0_point.shp
Mdobjectfk	number(11,0)	Dataset Name – Province or Territory occupied by the dataset.	Junction_0_point.shp

TOLLPOINT_0_point_utmexz13.shp

Field Name	Data Type	Description	Source
Nid	char(32)	A unique national identifier. The same NID is assigned to each adjoining Road Segments or Ferry Connections Segments between Junctions.	Tollpoint_0_point.shp
Tollpttype	number(11,10)	Toll Point Type – The characteristics of an infrastructure used for collecting a toll charge.	Tollpoint_0_point.shp
Mdobjectfk	number(11,10)	Dataset Name – Province or Territory occupied by the dataset.	Tollpoint_0_point.shp
Accuracy	number(11,10)	The Planimetric Accuracy expressed as the circular map accuracy standard (CMAS)	Tollpoint_0_point.shp
Acqtech	number(11,10)	Acquisition Technique – The type of data source used to populate the NRNC1	Tollpoint_0_point.shp
Acqprovidr	number(11,10)	Acquisition Provider – The affiliation of the organization that generated the object for the NRNC1	Tollpoint_0_point.shp
Acqrevdate	char(7)	Acquisition or Revision Date – The date of data capture or revision	Tollpoint_0_point.shp
Roadnid	char(32)	Network Linear Element NID – The Nid of the Road Segment along which the feature is located	Tollpoint_0_point.shp

qlf_railcross_p_utmexz13_merged.shp

Field Name	Data Type	Description	Source
Code	number(4,0)	URN code	Combined SURN qlf_railcross_p shapefiles
Angle	number(4,0)	N/A (always 0)	Combined SURN qlf_railcross_p shapefiles
Hwy_Exit	char(10)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Numlanes	number(1,0)	N/A (always 0)	Combined SURN qlf_railcross_p shapefiles
Firstrd	char(30)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Secondrd	char(30)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Thirdrd	char(30)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Accuracy	number(3,0)	Planimetric accuracy	Combined SURN qlf_railcross_p shapefiles
Georequal	number(1,0)	Geometric Representation Qualifiers 1 for position definite 2 for position approximate	Combined SURN qlf_railcross_p shapefiles
Speedlim	number(3,0)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Traveldir	number(1,0)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Geo_id	number(8,0)	N/A (always null)	Combined SURN qlf_railcross_p shapefiles
Method	char(20)	Method of collection	Combined SURN qlf_railcross_p shapefiles
Date_capt	date	Date of data collection	Combined SURN qlf_railcross_p shapefiles
Type	char(20)	Authorized combinations of attribute values. The value "Generic/Unknown" is used when an entity has no fixed domain attribute or when none of the fixed attributes is known	Combined SURN qlf_railcross_p shapefiles

qlf_privent_p_utmexz13_merged.shp

Field Name	Data Type	Description	Source
Code	number(4,0)	URN code	Combined SURN qlf_privent_p shapefiles
Angle	number(4,0)	N/A (always 0)	Combined SURN qlf_privent_p shapefiles
Hwy_Exit	char(10)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Numlanes	number(1,0)	N/A (always 0)	Combined SURN qlf_privent_p shapefiles
Firstrd	char(30)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Secondrd	char(30)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Thirdrd	char(30)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Accuracy	number(3,0)	Planimetric accuracy	Combined SURN qlf_privent_p shapefiles
Georequal	number(1,0)	Geometric Representation Qualifiers 3 for position definite 4 for position approximate	Combined SURN qlf_privent_p shapefiles
Speedlim	number(3,0)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Traveldir	number(1,0)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Geo_id	number(8,0)	N/A (always null)	Combined SURN qlf_privent_p shapefiles
Method	char(20)	Method of collection	Combined SURN qlf_privent_p shapefiles
Date_capt	date	Date of data collection	Combined SURN qlf_privent_p shapefiles
Type	char(20)	Authorized combinations of attribute values. The value "Generic/Unknown" is used when an entity has no fixed domain attribute or when none of the fixed attributes is known	Combined SURN qlf_privent_p shapefiles