

NORTH DAKOTA 2021 TRAFFIC REPORT



**North Dakota Department of Transportation
Planning and Asset Management Division
Traffic Data Section**

July 2022

NORTH DAKOTA 2021 TRAFFIC REPORT

**Prepared by
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
BISMARCK, NORTH DAKOTA
www.dot.nd.gov**

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OVERVIEW

This report contains summaries of data obtained from studies conducted in 2020 by the North Dakota Department of Transportation (NDDOT) Planning and Asset Management Division. This Division is responsible for the collection and analysis of traffic data in North Dakota. Traffic data collection has been conducted in North Dakota since 1936. The NDDOT compiled and presented this information as an annual report starting in 1963. Due to the continuing demand for this information, the annual report has continued to ensure that this information is readily available.

Included maps, graphs, and tabulations illustrate annual average daily traffic (AADT). They also illustrate percentage of travel by hour, month, and season and illustrate estimates of annual vehicle miles traveled (VMT) by highway system. The data was obtained from the following sources:
































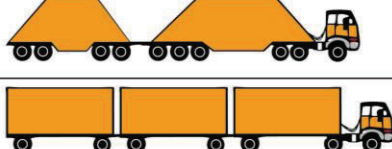
1. Automatic traffic recorders (ATRs) continuously record hourly volumes of traffic throughout the year. A list of 81 ATR stations with their locations are presented on pages 9, 10 and 11. The counter locations are shown on the map on page 12.
2. Short term counts were obtained using portable equipment. We count 1/3 of the state every year with short term counts on various highways roads and streets along with the interstates statewide. There are approximately 2900 short-term counts for region per year. See map 6 to see what was counted this year and what will be counted next year.
3. Weigh-In-Motion (WIM) sensors continuously record the class and weight of trucks. A list of 17 WIM stations can be found on page 9 while their locations can be found on page 13.
4. NDDOT classifies and counts 2 types of trucks, Single Units (SU), and Combination Units (CU)
 - A) Single unit trucks are those trucks that do not articulate at or have a 5th wheel anchor plate with which to pivot a trailer, for example a Federal Express (FedEx), or United Parcel Service (UPS) type of truck (Classes 5-7).
 - B) Combination unit trucks are those trucks that can articulate one or more trailers behind the tractor, for example a standard class 9, 5 axle semi, or a triple trailer combination (Classes 8-13).

Only basic information of general interest is included with this report. More detailed information is available and can be obtained on our website or by contacting the Traffic Data Section of the Planning and Asset Management Division of the NDDOT, 608 East Boulevard Avenue, Bismarck, ND 58505-0700, (701) 328-3458.

Maps with all of our traffic counts can be accessed on the NDDOT website by entering the following URL address:

https://gis.dot.nd.gov/external/ge_html/?viewer=ext_transinfo

FHWA's 13 Vehicle Category Classification

Class 1 Motorcycles		Class 7 Four or more axle, single unit	
Class 2 Passenger cars		Class 8 Four or less axle, single trailer	
			
			
			
Class 3 Four tire, single unit		Class 9 5-Axle tractor semitrailer	
			
			
Class 4 Buses		Class 10 Six or more axle, single trailer	
			
			Class 11 Five or less axle, multi trailer
Class 5 Two axle, six tire, single unit			
			
		Class 12 Six axle, multi-trailer	
Class 6 Three axle, single unit			
			
			

Source: Federal Highway Administration (TMG 2013).

HISTORY OF TRAFFIC AND RELATED DATA

YEAR	POPULATION (1000'S)	VEHICLE REGISTRATIONS (REG.) (1000'S)	PERSONS PER VEHICLE REG.	GALLONS OF GAS AND FUEL TAXED (MILLIONS)	VEHICLE REG. PER 100 PERSONS	ANNUAL MILES PER VEHICLE	ANNUAL MILES TRAVELED PER CAPITA	ANNUAL VEHICLE MILES (MILLIONS)
1951	608	284	2.14	146	46.70	-	-	-
1952	613	285	2.15	152	46.50	-	-	-
1953	619	293	2.11	159	47.30	7,850	3,716	2,300
1954	623	300	2.08	164	48.20	7,840	3,775	2,352
1955	628	309	2.03	171	49.20	7,625	3,752	2,356
1956	629	311	2.02	174	49.40	7,958	3,935	2,475
1957	629	320	1.97	193	50.90	8,259	4,202	2,643
1958	620	329	1.88	204	53.10	8,544	4,534	2,811
1959	627	339	1.85	197	54.10	8,788	4,751	2,979
1960	632	345	1.83	210	54.60	8,925	4,872	3,079
1961	640	349	1.83	198	54.50	9,037	4,928	3,154
1962	642	358	1.79	212	55.80	9,014	5,026	3,227
1963	634	375	1.69	236	59.10	8,813	5,213	3,305
1964	645	385	1.68	248	59.70	8,834	5,273	3,401
1965	652	396	1.65	257	60.70	8,684	5,275	3,439
1966	650	406	1.60	253	62.50	8,562	5,348	3,476
1967	631	405	1.56	259	64.20	8,504	5,458	3,444
1968	627	414	1.51	274	66.00	8,572	5,660	3,549
1969	615	420	1.46	279	68.30	8,700	5,941	3,654
1970	618	428	1.44	302	69.30	8,895	6,160	3,807
1971	625	444	1.41	321	71.00	8,908	6,328	3,955
1972	632	464	1.36	347	73.40	8,871	6,513	4,116
1973	640	490	1.31	370	76.60	8,776	6,719	4,300
1974	637	527	1.21	353	82.70	8,294	6,862	4,371
1975	638	551	1.16	377	86.40	8,171	7,056	4,502
1976	640	563	1.14	414	88.00	8,495	7,473	4,783
1977	643	580	1.11	422	90.20	8,555	7,717	4,962
1978	652	599	1.09	444	91.90	8,826	8,109	5,287
1979	657	617	1.06	440	93.90	8,483	7,967	5,234
1980	653	627	1.04	414	96.00	8,440	8,104	5,292
1981	653	641	1.02	427	98.20	8,496	8,340	5,446
1982	653	654	1.00	429	100.20	8,228	8,240	5,381
1983	680	666	1.02	427	97.90	8,179	8,010	5,447
1984	686	661	1.04	419	96.40	8,327	8,023	5,504
1985	686	655	1.05	427	95.50	8,518	8,133	5,579
1986	685	648	1.06	419	94.60	8,694	8,225	5,634

HISTORY OF TRAFFIC AND RELATED DATA

YEAR	POPULATION (1000'S)	VEHICLE REGISTRATIONS (REG.) (1000'S)	PERSONS PER VEHICLE REG.	GALLONS OF GAS AND FUEL TAXED (MILLIONS)	VEHICLE REG. PER 100 PERSONS	ANNUAL MILES PER VEHICLE	ANNUAL MILES TRAVELED PER CAPITA	ANNUAL VEHICLE MILES (MILLIONS)
1987	679	651	1.04	420	95.90	8,800	8,437	5,729
1988	672	655	1.03	420	97.50	8,855	8,631	5,800
1989	660	637	1.04	413	96.50	9,257	8,935	5,897
1990	639	630	1.01	413	98.60	9,456	9,322	5,957
1991	639	629	1.02	405	98.40	9,537	9,388	5,999
1992	639	655	0.98	426	102.50	9,321	9,554	6,105
1993	635	662	0.96	439	104.30	9,371	9,770	6,204
1994	638	671	0.95	456	105.20	9,520	10,013	6,388
1995	641	680	0.94	459	105.90	9,639	10,211	6,546
1996	643	679	0.94	472	105.60	9,966	10,524	6,767
1997	638	680	0.93	504	106.60	10,209	10,883	6,942
1998	638	672	0.95	501	105.30	10,555	11,118	7,093
1999	634	704	0.90	503	111.00	10,086	11,200	7,101
2000	642	715	0.89	490	111.40	9,875	10,998	7,061
2001	634	735	0.86	497	115.90	9,638	11,174	7,084
2002	634	723	0.88	505	138.80	8,063	11,191	7,095
2003	634	711	0.89	513	112.20	10,253	11,500	7,290
2004	634	729	0.87	521	114.98	10,204	11,733	7,439
2005	637	719	0.89	511	112.87	10,352	11,684	7,443
2006	636	743	0.86	514	116.82	10,315	12,050	7,664
2007	640	753	0.85	524	117.66	10,177	11,973	7,663
2008	641	764	0.84	539	119.19	9,958	11,869	7,608
2009	647	774	0.84	556	119.63	10,262	12,277	7,943
2010	673	791	0.85	614	117.53	10,497	12,337	8,303
2011	684	808	0.85	709	118.13	11,344	13,401	9,166
2012	700	846	0.83	812	120.86	11,930	14,419	10,093
2013	723	870	0.83	824	120.33	11,609	13,970	10,100
2014	739	899	0.82	879	121.65	11,610	14,123	10,437
2015	756	918	0.82	834	121.43	10,979	13,332	10,079
2016	758	908	0.83	740*	119.79	10,727	12,850	9,740
2017	755	921	0.82	750	121.99	10,535	12,852	9,703
2018	760	944	0.81	766	124.21	10,451	12,982	9,866
2019	762	949	0.80	762	124.54	10,388	12,938	9,859
2020	779	932	0.84	689	119.64	9,345	11,220	8,741
2021	775	951	0.81	692	122.71	9,730	11,939	9,293

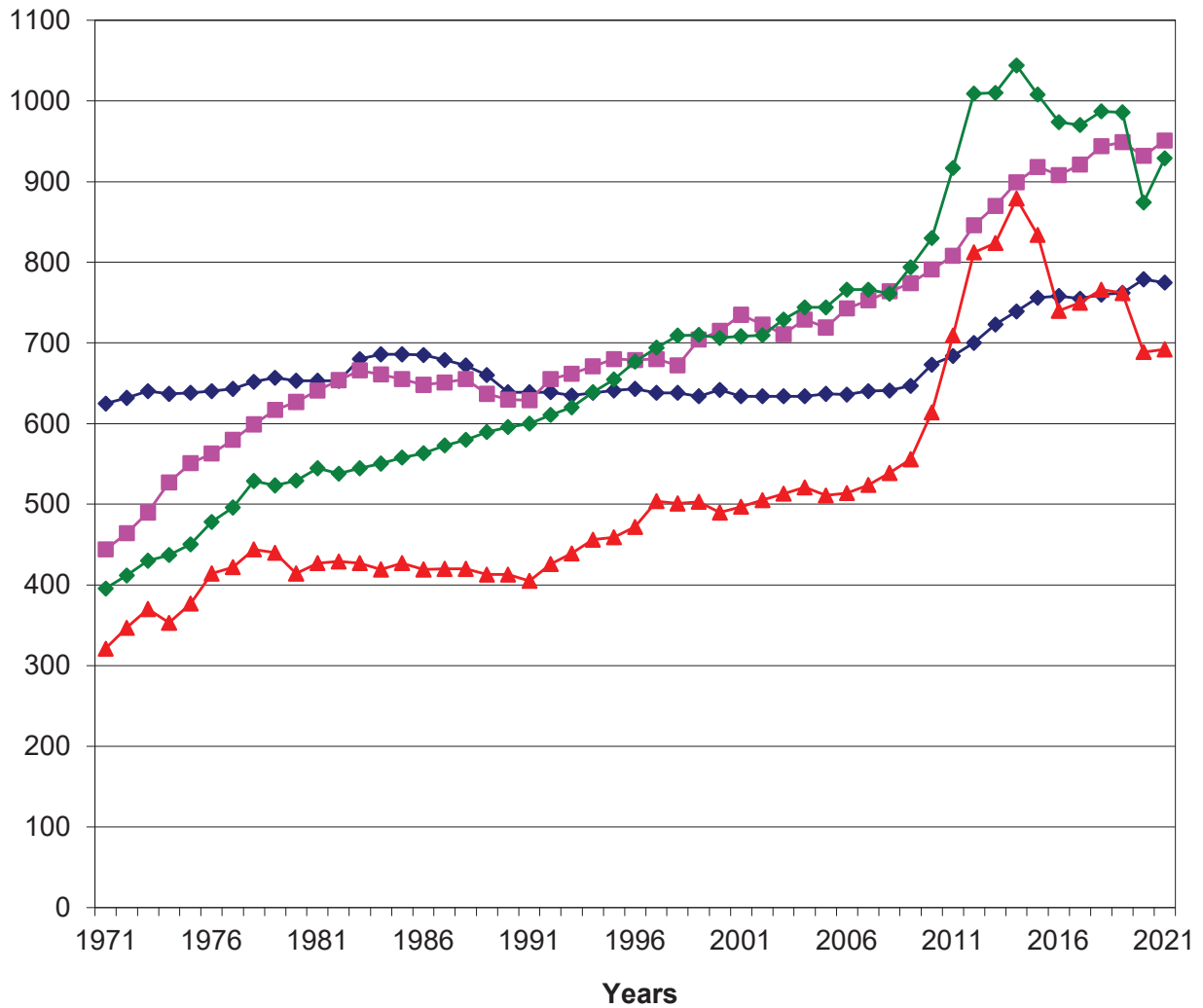
FUEL TAXED INCLUDES GALLONS OF GAS FOR OTHER THAN MOTOR VEHICLES

Annual Vehicle Miles figures are for all roads in the state including trails and unimproved roads
 The number of vehicle registrations in a given year will exceed the total number of vehicles in the state
 because a vehicle may be registered more than once if there was a change in ownership.

*2016 Gallons of Gas and Fuel Taxed (Millions) were revised by the ND Tax Department

Traffic and Related Trends

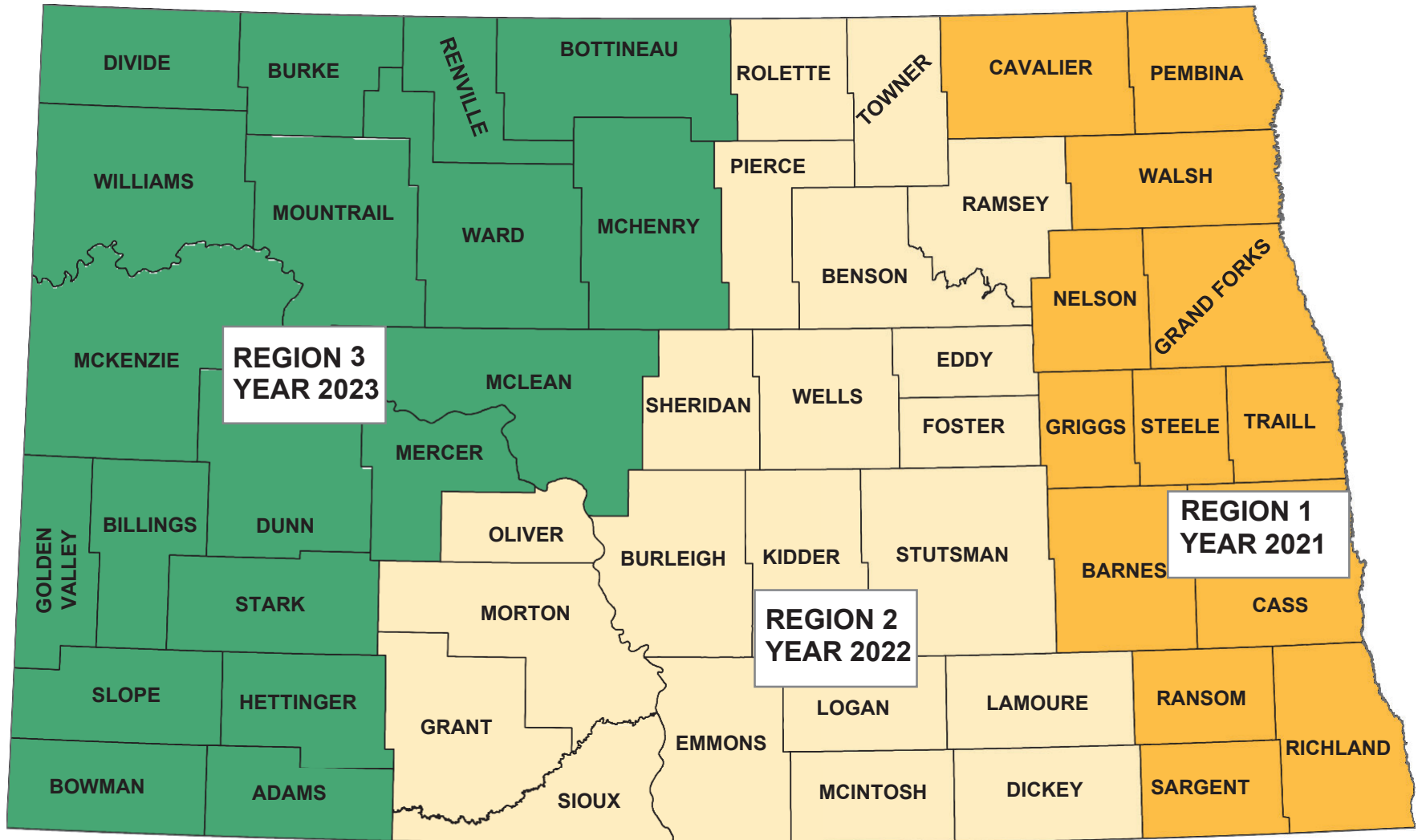
For the Years 1971 - 2021



North Dakota Department of Transportation Current Traffic Counting Cycle



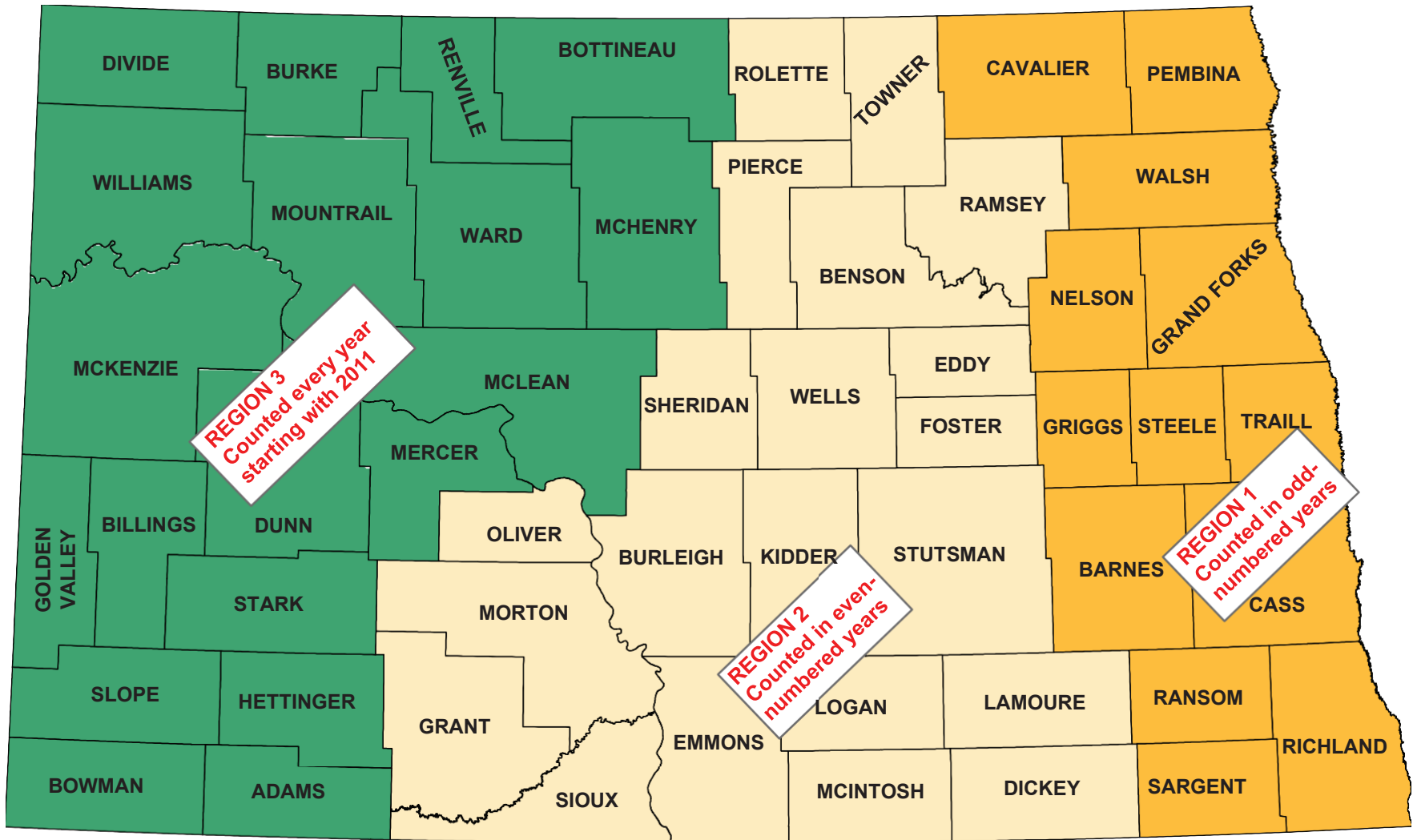
Region 3 and one other region per year were counted from 2012 to 2016.
One region is counted per year starting in 2017. Region 3 is no longer counted every year.



North Dakota Department of Transportation Prior Traffic Counting Cycle 2012-2016



Region 3 is counted every year whereas the other two regions are only counted every two years.
We started counting two regions per year in 2012 and stopped in 2016.



Planning & Asset Management Division
Traffic Data Section
City Traffic Counts

CITY	YEAR COUNTED	YEAR TO COUNT
Fargo	2021	2024
West Fargo	2021	2024
Wahpeton	2021	2024
Valley City	2021	2024
Grand Forks	2021	2024
Minot	2020	2023
Dickinson	2020	2023
Williston	2020	2023
Bismarck	2022	2025
Mandan	2022	2025
Devils Lake	2022	2025
Jamestown	2022	2025

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR LOCATIONS**

WIM locations are highlighted yellow

STATION	NAME	HIGHWAY	REF POINT	OFF SET	TYPE	LOCATION
URBAN INTERSTATE 94						
7	WEST FARGO	94	347.000	0.5200	Weight	I-94 WEST OF 45 STREET
217	FARGO (U)	94	352.000	0.3327	Class	RED RIVER BRIDGE
283	BISMARCK (U)	94	158.000	0.8538	Class	0.4 MILES WEST OF US 83 INT.
RURAL INTERSTATE 94						
1	BELFIELD	94	34.000	0.7000	Weight	I-94 EB ONLY - 7 MILES WEST OF BELFIELD
14	APPLE CREEK EAST	94	165.000	0.0000	Weight	3.5 MILES EAST OF BISMARCK
15	APPLE CREEK WEST	94	169.000	0.8000	Weight	8.3 MILES EAST OF BISMARCK
207	MEDINA	94	231.000	0.2923	Class	0.9 MILES EAST OF MEDINA
223	NEW SALEM	94	126.000	0.8803	Class	0.8 MILES WEST OF ND 31 INT.
245	TOWER CITY	94	312.000	0.5100	Class	2.3 MILES WEST OF BUFFALO INT.
279	PAINTED CANYON	94	34.000	0.6637	Class	7.8 MILES WEST OF US 85 INT.
URBAN INTERSTATE 29						
235	FARGO (U)	29	66.255	0.5725	Class	NORTH OF 12TH AVE.
RURAL INTERSTATE 29						
4	WAHPETON	29	10.000	0.1000	Weight	HWY 29 - SOUTH OF THE MOORETON SCALE
6	JOLIETTE	29	207.000	0.8700	Weight	I-29 NORTH OF JOLIETTE STATIC SCALE
211	BUXTON	29	112.000	0.8614	Class	4.0 MILES NORTH OF MAYVILLE INT.
243	BOWESMONT	29	196.014	0.5726	Class	0.5 MILES NORTH OF BOWESMONT
265	MOORETON	29	25.000	0.0149	Class	2.5 MILES NORTH OF ND 13
285	DAVENPORT	29	55.000	0.4798	Class	1.3 MILES NORTH OF DAVENPORT INT
RURAL PRINCIPAL ARTERIAL						
2	BOWMAN	85	12.000	0.2000	Weight	HWY 85 - 4 MILES SOUTH OF BOWMAN
3	ELLENDALE	281	1.000	0.9000	Weight	HWY 281 - 2 MILES SOUTH OF ELLENDALE
5	WILLISTON	2	13.000	0.4400	Weight	HWY 2 - WEST OF WILLISTON STATIC SCALE
8	PORTAL	52	3.000	0.3700	Weight	HWY 52 EB LANE ONLY - SOUTH OF PORTAL
9	WASHBURN	83	120.000	0.6600	Weight	US 83 NB/SB 6 MILES SOUTH OF WASHBURN
10	DEVILS LAKE	2	263.000	0.5000	Weight	HWY 2 EB ONLY - WEST OF DEVILS LAKE
11	WATFORD CITY	85	137.000	0.2800	Weight	HWY 85 NB/SB - SOUTH OF WATFORD CITY
12	BUCHANAN	52	248.000	0.6100	Weight	HWY 52 EB/WB LANES - NORTH OF BUCHANAN
13	LANGDON	5	288.000	0.9950	Weight	10 MILES EAST OF LANGDON
16	PANGER	85	176.000	0.7100	Weight	HWY 85
17	SYKESTON	52	212.000	0.3500	Weight	HWY 52, RP 212 @ .35
201	RAY	2	51.000	0.2986	Class	2.1 MILES WEST OF RAY
203	MAX	83	168.000	0.9400	Class	3.3 MILES SOUTH OF ND 53
205	GWINNER	13	337.000	0.2241	Class	2.1 MILES WEST OF ND 32
215	JAMESTOWN	52	259.000	0.5408	Class	2.5 MILES NORTH OF JAMESTOWN
219	MANDAN	6	55.000	0.8718	Class	11.0 MILES SOUTH OF MANDAN
221	FAIRFIELD	85	80.000	0.8850	Class	5.1 MILES NORTH OF I-94
229	COOPERSTOWN	200	345.000	0.2602	Class	4.0 MILES EAST OF COOPERSTOWN
233	FOXHOLM	52	78.000	0.2600	Class	1.5 MILES SOUTHEAST OF FOXHOLM
237	NEKOMA	1	205.000	0.2195	Class	8.5 MILES SOUTH LANGDON
239	NEW TOWN	23	42.000	0.8986	Class	4.7 MILES EAST OF ND 22
241	BOTTINEAU	5	173.000	0.9523	Class	0.2 MILES WEST OF ND 14
251	HAGUE	83	1.000	0.1144	Class	1.1 MILES NORTH OF SOUTH DAKOTA LINE
253	RUGBY	2	207.000	0.3265	Class	3.5 MILES WEST OF ND 3
255	CROSBY	5	28.000	0.7521	Class	6.0 MILES WEST OF CROSBY
257	WILLISTON	2	2.000	0.3979	Class	2.4 MILES EAST OF MONTANA LINE
261	CARRINGTON	281	117.000	0.9013	Class	5.5 MILES NORTH OF JUNCTION WITH HWY 200
271	GOLDEN VALLEY	200	131.000	0.0000	Class	0.7 MILES EAST OF GOLDEN VALLEY
273	NEW LEIPZIG	21	67.000	0.5500	Class	2.1 MILES WEST OF ND 49
281	SAWYER	52	102.000	0.7136	Class	WEST OF SAWYER
297	WILLISTON_NW	85	193.000	0.7000	Class	NW WILLISTON TRUCK RELIEVER ROUTE
299	KILLDEER200W	200	88.000	0.5200	Class	6.7 MILES WEST OF JCT. ND 22 AND ND 200

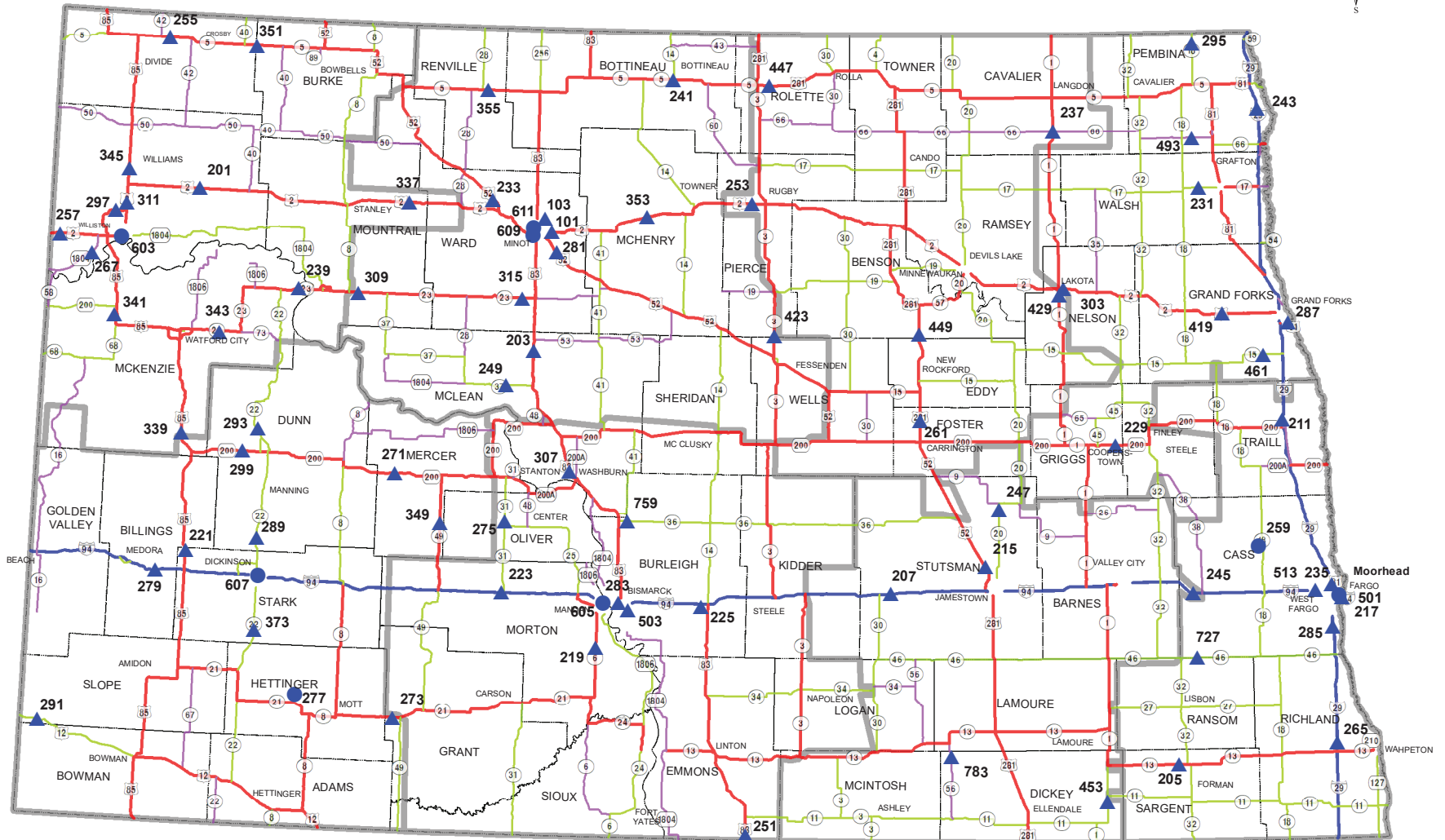
**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR LOCATIONS**

STATION	NAME	HIGHWAY	REF POINT	OFF SET	TYPE	LOCATION
RURAL PRINCIPAL ARTERIAL						
303	MICHIGAN	2	296.000	0.6500	Class	4.0 MILES EAST OF ND 1
307	WASHBURN	83	130.000	0.7300	Class	NORTH OF WASHBURN
309	NEWTOWN_EAST	23	58.000	0.7000	Class	8.4 MILES EAST OF NEW TOWN
311	WILLISTON_2N	2	27.000	0.6300	Class	5.2 MILES NORTH OF WILLISTON
315	RYDER_E23__	23	102.000	0.2000	Class	3.3 MILES WEST OF THE JUNCTION WITH US 83
337	BLAISDELL_E2	2	107.000	0.1000	Class	1.0 MILES EAST OF BLAISDELL
339	GRASSY_BUTTE	85	113.000	0.8500	Class	1.3 MILES NORTH OF GRASSY BUTTE
341	ALEXANDER85W	85	162.000	0.2080	Class	1/2 MILE W OF ALEXANDER
343	WATFORD_E23_	23	10.000	0.7000	Class	9.1 MILES EAST OF WATFORD CITY
345	WILLIAMS_N85	85	205.000	0.4800	Class	15.4 MILES NORTH OF WILLISTON
349	BEULAH_S49__	49	91.000	0.7700	Class	10.5 MILES SOUTH OF BEULAH
351	COLUMBUS_W5	5	52.000	0.2000	Class	3.2 MILES EAST OF NOONAN
353	GRANVILLE_E2	2	177.000	0.7600	Class	8.3 MILES EAST OF GRANVILLE
355	MOHALL_W5__	5	121.000	0.9700	Class	3.6 MILES WEST OF MOHALL
419	EMERADO_W2	2	340.000	0.5000	Class	2.5 MILES WEST OF EMERADO
423	HARVEY_N3__	3	165.000	0.5600	Class	5.6 MILES NORTH OF HARVEY
429	LAKOTA_S1__	1	160.000	0.3800	Class	1.6 MILES SOUTH OF LAKOTA
447	DUNSEITH_E__	281	250.000	0.2700	Class	2.95 MILES EAST OF DUNSEITH
449	SHEYENNE_N__	281	141.000	0.4800	Class	2.5 MILES NORTH OF SHEYENNE
RURAL MINOR ARTERIAL						
231	GRAFTON	17	122.000	0.1293	Class	5.5 MILES WEST OF GRAFTON
247	COURTENAY	20	20.000	0.4196	Class	1.8 MILES SOUTH OF ND 9
249	GARRISON	37	54.000	0.9548	Class	1.0 MILES WEST OF GARRISON
275	HANNOVER	31	97.000	0.0758	Class	1.2 MILES NORTH OF HANNOVER
289	MANNING	22	81.000	0.5055	Class	SOUTH OF MANNING
291	MARMARTH	12	4.000	0.8670	Class	1.0 MILE WEST OF MARMARTH
293	KILLDEER	22	112.000	0.1350	Class	5.9 MILES NORTH OF KILLDEER
295	NECHE	18	239.000	0.3300	Class	1.2 MILES SOUTH OF NECHE
373	DICKINSON22S	22	57.000	0.2400	Class	11.4 MILES SOUTH OF DICKINSON
453	OAKES_S1____	1	13.000	0.3500	Class	3.0 MILES SOUTH OF OAKES
461	THOMPSON_W15	15	129.000	0.0000	Class	3.4 MILES WEST OF THOMPSON
727	ENDERLIN_E46	46	84.000	0.2000	Class	EAST EDGE OF ENDERLIN
759	WILTON_E36__	36	2.000	0.2600	Class	2.3 MILES SE OF WILTON
RURAL MAJOR COLLECTOR-STATE						
267	TRENTON	1804	329.000	0.8846	Class	1.5 MILES NORTHEAST OF TRENTON
493	ST_THOMAS_W_	66	117.000	0.4000	Class	5.7 MILES WEST OF ST. THOMAS
783	KULM_S56____	56	14.000	0.5800	Class	4.7 MILES SOUTH OF KULM
RURAL MAJOR COLLECTOR-COUNTY						
101	MINOT55ST_NE	5145 C	0.000	0.3000	Class	CMC 5145 - 0.3 MILES NORTH OF US2
103	MINOT46AV_NE	5138 C	8.000	0.2000	Class	CMC 5138 - 2.1 MILES EAST OF US 83
225	STERLING	836 C	14.000	0.2100	Class	CMC 0836 - 1.9 MILES WEST OF US 83
259	AYR				Volume	CMC 0918 - 12.0 MILES EAST OF AYR
277	REGENT				Volume	CMC 2117 - 2.0 MILES NORTH OF ND 21
URBAN PRINCIPAL ARTERIAL						
287	GRAND FORKS	81 B	942.000	0.4092	Class	S. WASHINGTON BETWEEN 24 AND 28 AVE. S.
501	FARGO (U)	81 B	925.000	0.3888	Volume	UNIVERSITY AVE. BET 15 AND 15 1/2 AVE.
503	BISMARCK (U)	810	5.000	0.5750	Class	BIS. EXPWY. SOUTH OF E. MAIN STREET
513	WFARGO_MAIN_(U)	10 B	933.000	0.4400	Class	MAIN ST. WEST OF 15TH ST NW
603	WILLISTON (U)	2 B	900.000	0.6627	Volume	2ND ST. WEST OF 14TH AVE. WEST
605	MANDAN (U)	94 B	917.043	0.0939	Volume	EAST MAIN ST. WEST OF TWIN CITY DRIVE
URBAN MINOR ARTERIAL						
607	DICKINSON (U)				Volume	9TH ST. EAST BET. 2ND AVE. & 3RD AVE. EAST
611	MINOT (U)				Volume	UNIVERSITY AVE. BET 12TH ST. & 13TH ST. NW.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR LOCATIONS

STATION	NAME	HIGHWAY	REF POINT	OFF SET	TYPE	LOCATION
URBAN COLLECTOR AND LOCAL URBAN						
609	MINOT (U)				Volume	16TH AVE BET. 12TH ST SW. & 17TH AVE. SW.

Automatic Traffic Recorder (ATR) Locations

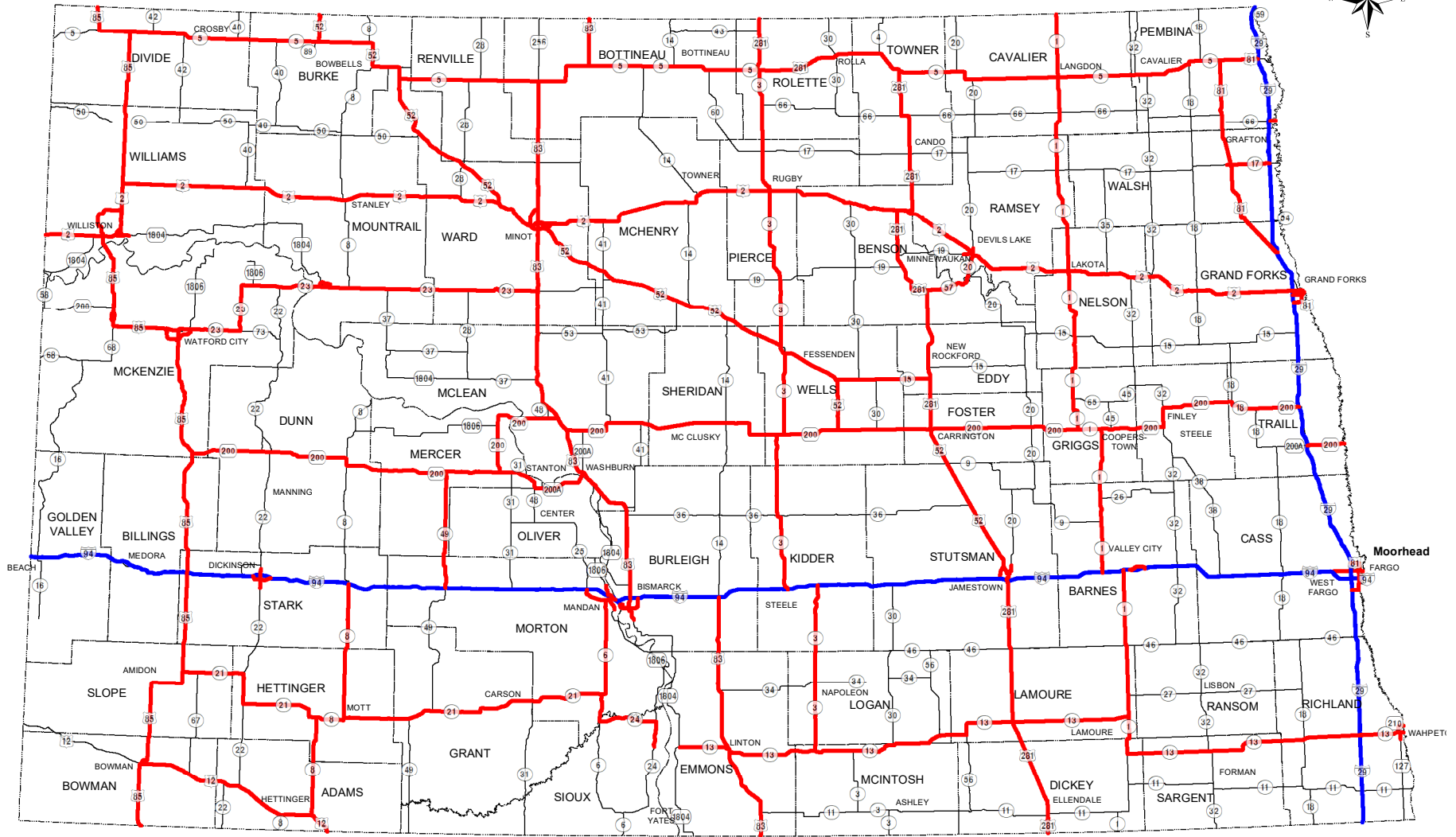


Station Type	Functional Class	Number of ATR Stations
▲ Class	Interstate Rural	8 Rural Interstate
● Volume	Principal Arterial Rural	40 Rural Principal Arterial
	Minor Arterial Rural	13 Rural Minor Arterial
	Major Collector	8 Rural Major Collector
		3 Urban Interstate
		6 Urban Principal Arterial
		2 Urban Minor Arterial
		1 Urban Collector





Planning & Asset Management Division
 Traffic Data Section
 March 2021

File pathway: F:\PLANNING\NREIS\shjeflo\Reports\Annual 2021\ArcMap\ATR Locations_2021.mxd

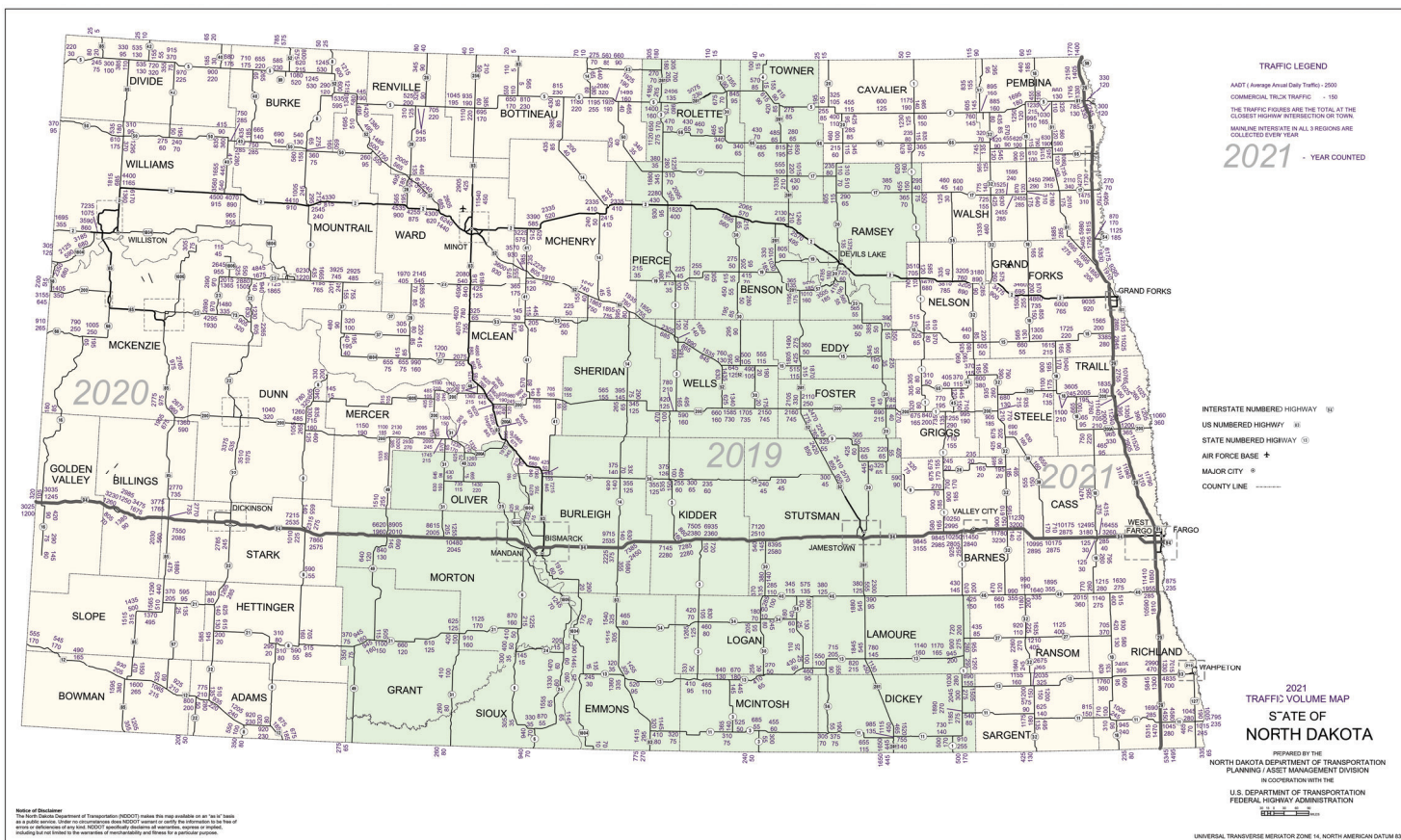
National Highway System Mileage



NHS Mileage

 Interstate Rural	509.7
 Interstate Urban	61.2
Total	570.9
 Principal Arterial Rural	2943.6
 Principal Arterial Urban	159.4
Total	3103.0
Total NHS	3721.5

Planning & Asset Management Division
 Traffic Data Section
 December 2020



TRAFFIC LEGEND
 AADT: Average Annual Daily Traffic; 365D
 COMMERCIAL TRUCK TRAFFIC: -100
 THE TRAFFIC FIGURES ARE THE TOTAL AT THE
 CLOSEST HIGHWAY INTERSECTION OR TRUNK
 MAINLINE INTERSTATE AT ALL 3 REGIONS ARE
 COLLECTED EVERY YEAR
2021 - YEAR COUNTED

INTERSTATE NUMBERED HIGHWAY
 US NUMBERED HIGHWAY
 STATE NUMBERED HIGHWAY
 AIR FORCE BASE
 MAJOR CITY
 COUNTY LINE

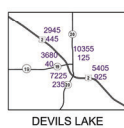
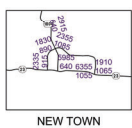
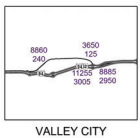
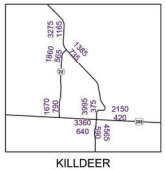
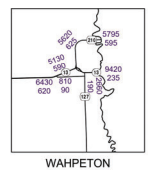
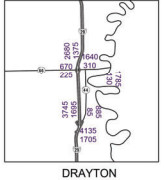
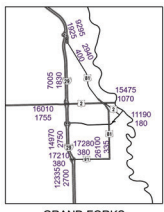
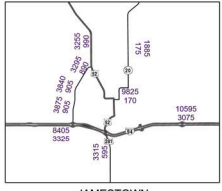
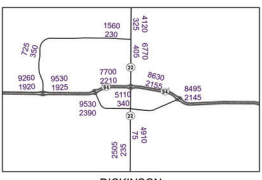
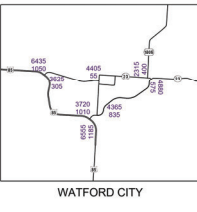
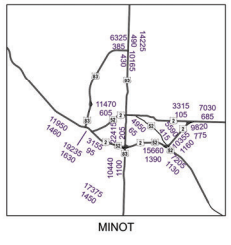
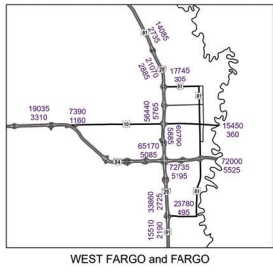
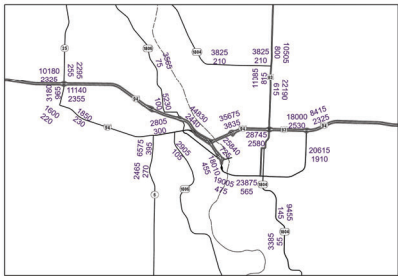
2021
 TRAFFIC VOLUME MAP
 STATE OF
 NORTH DAKOTA

PREPARED BY THE
 NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
 PLANNING / ASSET MANAGEMENT DIVISION
 IN COOPERATION WITH THE
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION



UNIVERSAL TRANSVERSE MERIDIAN ZONE 14, NORTH AMERICAN DATUM 83

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TRAFFIC LEGEND

AADT: Average Annual Daily Traffic; 0-500
 COMMERCIAL TRUCK TRAFFIC: > 100

THE TRAFFIC FIGURES ARE THE TOTAL AT THE
 CLOSEST HIGHWAY INTERSECTION OR TRUCK
 MAINLINE INTERSTATE IN ALL 3 REGIONS ARE
 COLLECTED EVERY YEAR

2021 - YEAR COUNTED

INTERSTATE NUMBERED HIGHWAY

US NUMBERED HIGHWAY

STATE NUMBERED HIGHWAY

AIR FORCE BASE

MAJOR CITY

COUNTY LINE



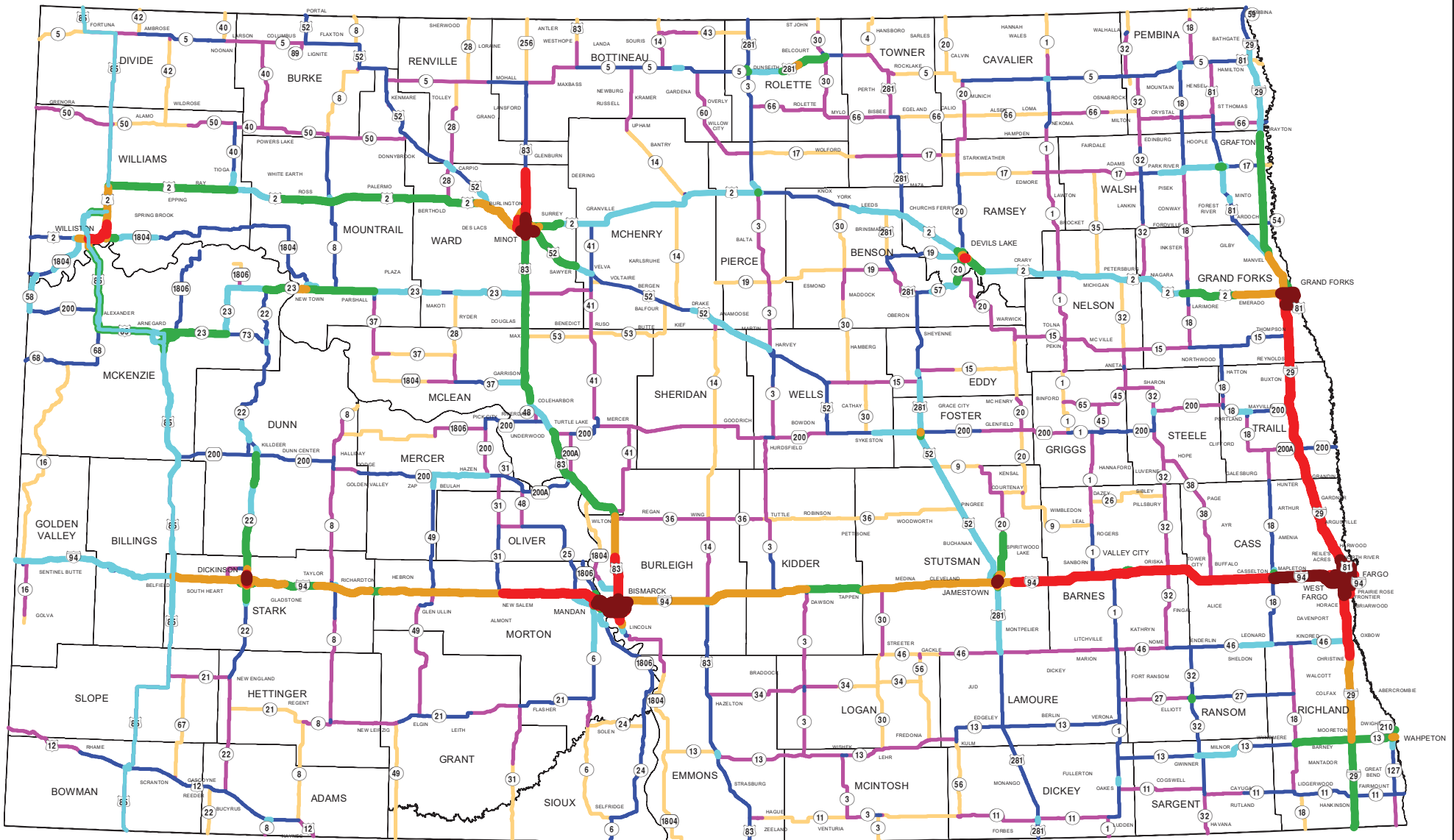
2021
 TRAFFIC VOLUME MAP
 STATE OF
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UNIVERSAL TRANSVERSE MERCATOR ZONE 14, NORTH AMERICAN DATUM 83

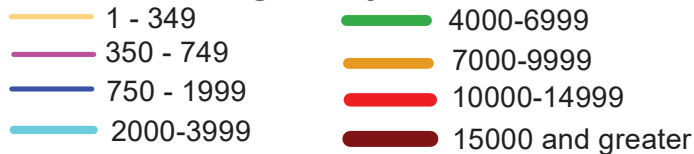
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Annual Average Daily Traffic (2021)



Notes: - Data from 2021 highway components segments.
 - The AADT for longer sections are an average of the traffic segments.
 - Data for the four lane roadways is combined for both directions (either north and south or east and west).

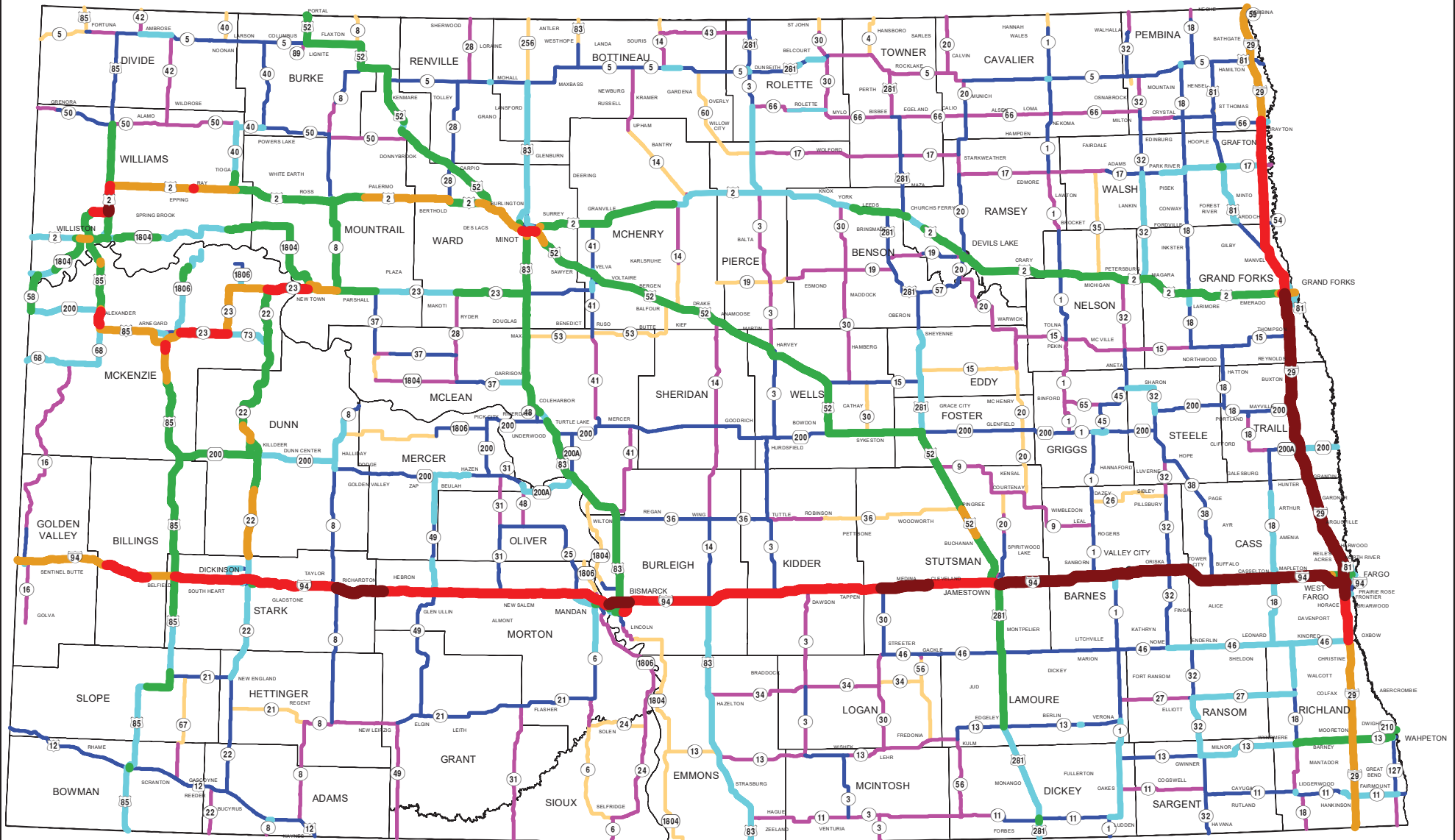
Annual Average Daily Traffic



Planning & Asset Management Division
 Traffic Data Section
 April 2022



Truck Annual Average Daily Traffic (2021)



Notes: - Data from 2021 highway components segments.
 - The TAADT for longer sections are an average of the traffic segments.
 - Data for the four lane roadways is combined for both directions (either north and south or east and west).

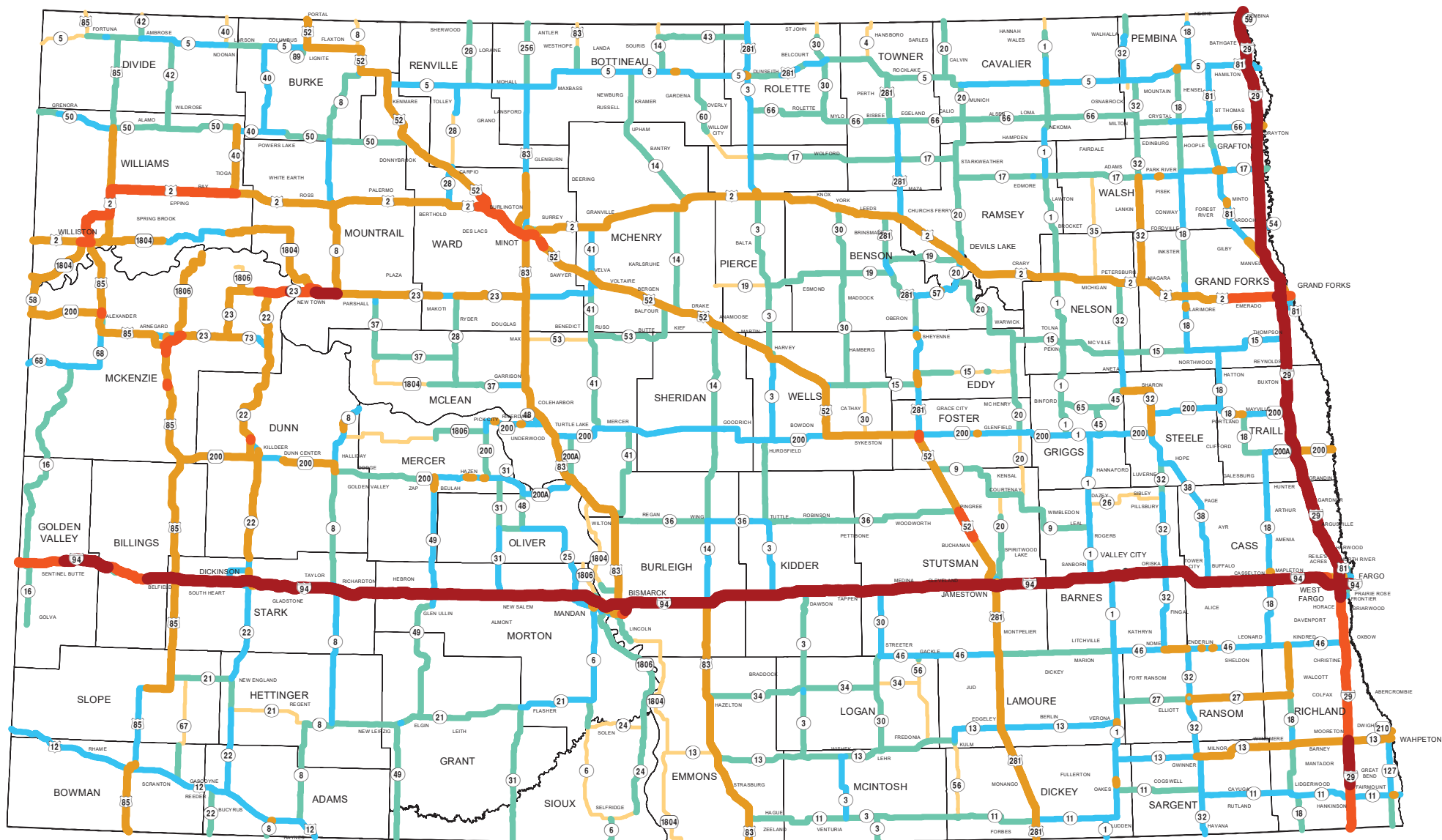
Truck Annual Average Daily Traffic



Planning & Asset Management Division
 Traffic Data Section
 April 2022



Equivalent Single Axle Loads (ESALs) 2021



Notes: - Data from 2021 highway components segments.
 - The ESALs for longer sections are an average of the traffic segments.
 - Data for the four lane roadways is combined for both directions (either north and south or east and west).

ESALS

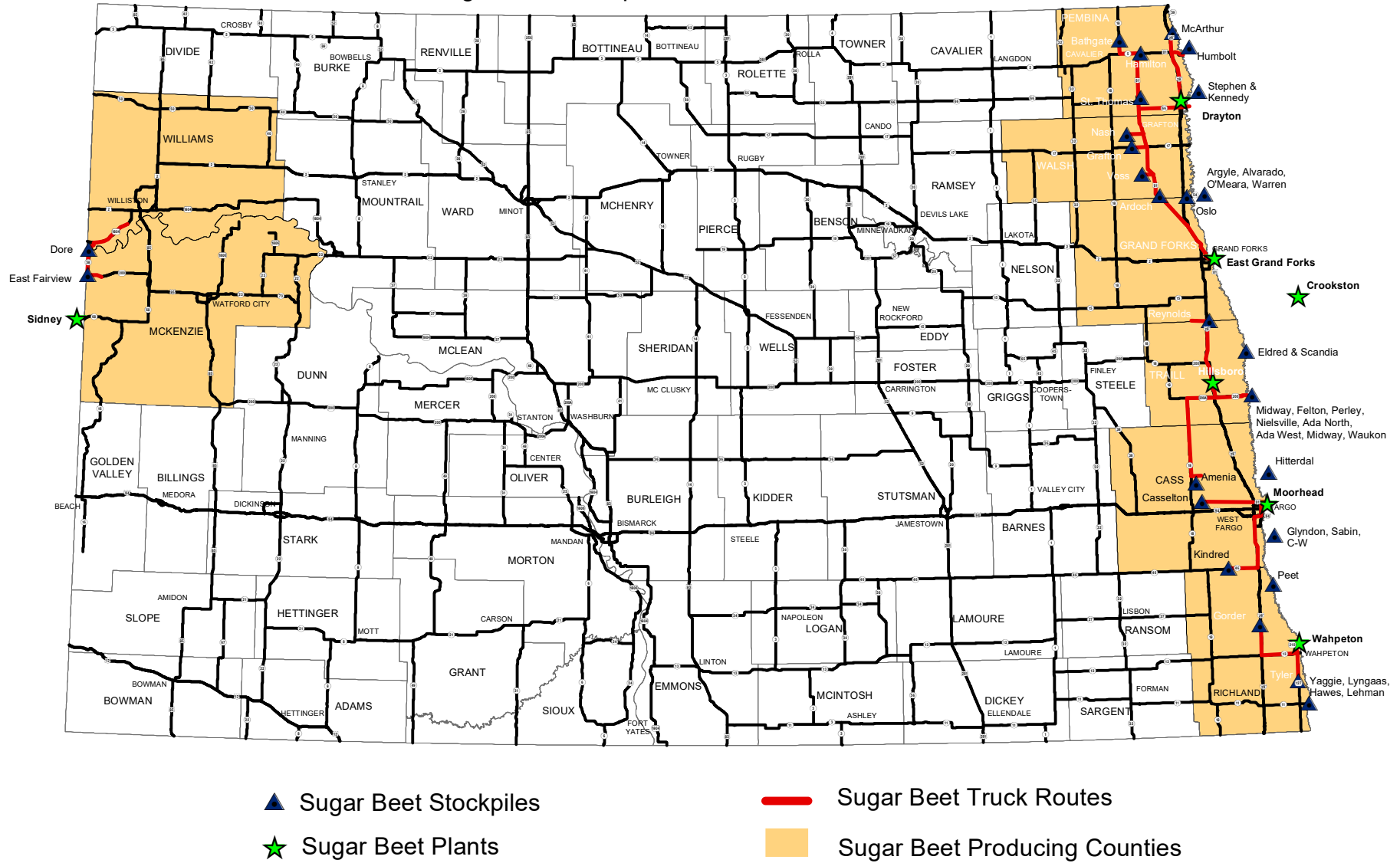


Planning & Asset Management Division
 Traffic Data Section
 April 2022



Statewide Sugar Beet Production

Sugar Beet Stockpiles , Plants ,Truck Routes



- ▲ Sugar Beet Stockpiles
- ★ Sugar Beet Plants
- Sugar Beet Truck Routes
- Sugar Beet Producing Counties

Data is from the USDA, National Agricultural Statistics Service.
 Starting in 2019, the USDA only provides state production numbers It is no longer broke down by county
 Total production for the state of North Dakota in 2021 was 6,482,000 .



Planning & Asset Management Division
 Traffic Data Section
 March 2022

PERMANENT STATION COMPARISON OF AADT BY YEAR

STATION NUMBER	LOCATION	2001	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	2020	2021	% CHANGE 2021/2020	% CHANGE 2021/2011	% CHANGE 2021/2001
URBAN INTERSTATE 94																	
217	FARGO (U)	51514	56852	61012	63051	64436	66026	65677	73191	73505	73886	75438	64735	71995	11.2%	9.0%	39.8%
283	BISMARCK (U)	18584	17590	20144	24770	23589	24611	26937	28891	25986	30006	26186	25105	28557	13.8%	16.0%	53.7%
	MEAN	35049	37221	40578	43911	44013	45319	46307	51041	49746	51946	50812	44920	50276	12.5%	12.5%	46.7%
RURAL INTERSTATE 94																	
207	MEDINA	6644	7210	6778	6941	7048	8512	8593	8825	8551	8340	8176	7186	8514	18.5%	0.0%	28.1%
223	NEW SALEM		5950	6034	6252	6595	7655	8731	9831	8456	8384	8373	7664	8767	14.4%	14.5%	--
245	TOWER CITY	8030	8974	9146	9440	9948	10940	11671	12132	11829	11659	11306	9692	11483	18.5%	5.0%	43.0%
279	PAINTED CANYON	3656	3688	3608	4086	3654	4395	4851	5760	4487	4414	4378	4119	4923	19.5%	12.0%	34.7%
	MEAN	6110	6456	6392	6680	6811	7876	8462	9137	8331	8199	8058	7165	8422	17.7%	7.9%	35.3%
URBAN INTERSTATE 29																	
235	FARGO (U)		24536	25772	26642	31746	31347	31522	32532	34215	36930	35909	29242	33607	14.9%	7.2%	--
	MEAN		24536	25772	26642	31746	31347	31522	32532	34215	36930	35909	29242	33607	14.9%	7.2%	--
RURAL INTERSTATE 29																	
211	BUXTON	9374	10198	10426	10951	10980	11280	11760	12239	12500	12469	12258	10032	11582	15.5%	2.7%	23.6%
243	BOWESMONT	2974	2896	3074	3662	3442	3582	3759	3332	3338	3293	3162	2229	2341	5.0%	-34.6%	-21.3%
265	MOORETON	5078	5636	5962	6059	6078	6414	6572	7002	7181	6997	6838	6024	7018	16.5%	9.4%	38.2%
285	DAVENPORT		9670	10254	10221	10447	10778	11118	11567	12377	12389	12341	10891	11987	10.1%	11.2%	--
	MEAN	5809	7100	7429	7723	7737	8014	8302	8535	8849	8787	8650	7294	8232	11.8%	-2.8%	13.5%
RURAL PRINCIPAL ARTERIAL																	
201	RAY	1660	1656	1748	2115	2963	7236	7863	6980	5205	5327	5917	4791	4565	-4.7%	-36.9%	175.0%
203	MAX	3420	3562	3530	3653	4107	5200	5402	5345	5035	4876	4693	4305	4773	10.9%	-8.2%	39.6%
205	GWINNER	1076	1124	1266	1200	1066	1193	1096	1227	1178	1212	1155	1082	1159	7.1%	-2.8%	7.7%
215	JAMESTOWN	2694	2778	2702	2859	2992	3346	3543	3636	3512	3439	3339	3060	3289	7.5%	-1.7%	22.1%
219	MANDAN	1460	1498	1490	1488	1546	1565	1620	1799	2142	1753	1751	1725	1884	9.2%	20.4%	29.0%
221	FAIRFIELD	1420	1418	1468	1754	1820	3604	4747	4183	3262	3504	3448	2768	2741	-1.0%	-23.9%	93.0%
229	COOPERSTOWN		902	846	819	924	902	884	872	829	813	748	766	860	12.3%	-4.7%	--
233	FOXHOLM	1878	1914	1888	2100	2158	2698	2992	2596	2390	2296	2253	1943	2107	8.4%	-21.9%	12.2%
237	NEKOMA		780	714	886	781	777	822	871	878	922	859	797	837	5.0%	7.7%	--
239	NEW TOWN	1588	1630	1618	1726	2680	5820	6896	6542	5836	6362	6820	4982	4844	-2.8%	-16.8%	205.0%
241	BOTTINEAU	906	1000	978	1007	1145	1159	1296	1352	1302	1230	1226	1179	1221	3.6%	5.3%	34.8%
251	HAGUE	734	734	704	729	782	747	985	912	865	832	868	789	834	5.7%	11.6%	13.6%
253	RUGBY		2600	2556	2510	2666	2922	3140	3145	2961	2877	2854	2412	2705	12.1%	-7.4%	--
255	CROSBY	528	558	540	581	632	1212	1744	1337	872	837	861	710	750	5.6%	-38.1%	42.0%
257	WILLISTON		1192	1204	1265	1206	2586	2991	2478	2140	2435	2338	1757	1765	0.5%	-31.7%	--
261	CARRINGTON					1661	1735	1805	1798	1846	1774	1676	1521	1687	10.9%	-2.8%	--
271	GOLDEN VALLEY		660	690	713	784	1286	1422	1230	1173	1185	1150	1116	1122	0.5%	-12.8%	--
273	NEW LEIPZIG	382	366	352	335	346	360	376	407	365	359	367	354	364	2.8%	1.1%	-4.7%
281	SAWYER	3566	3754	3890	4004	4112	4825	5224	5040	4738	4729	4651	4391	4754	8.3%	-1.5%	33.3%
297	WILLISTON_NW						1514	1936	3907	4553	5501	3990	3403		-14.7%	--	--
299	KILLDEER200W										1873	1989	1394	1482	6.3%	--	--
303	MICHIGAN	3476	3522	3436	3384	3612	4027	4265	4719	4053	3919	3794	3292	3668	11.4%	-8.9%	5.5%
307	WASHBURN	3790	3912	4016	4363	5146	5767	6050	6069	5708	5519	5569	4905	5304	8.1%	-8.0%	39.9%
309	NEWTOWN_EAST								5331	4398	4414	4638	3925	4031	2.7%	--	--
311	WILLISTON_2N						12090	11018	8550	9132	10004	7857	7378		-6.1%	--	--
315	RYDER_E23__								2030	2172	2382	2097	2148		2.4%	--	--
337	BLAISDELL_E2								4589	4619	4837	3974	3917		-1.4%	--	--
339	GRASSY_BUTTE							4402	3350	3727	3818	2775	2834		2.1%	--	--
341	ALEXANDER85W							8888	6172	6579	7202	5147	4883		-5.1%	--	--
343	WATFORD_E23_								5518	6016	5976	3870	3724		-3.8%	--	--
345	WILLIAMS_N85								2038	2240	2199	1815	1919		5.7%	--	--
349	BEULAH_S49__								1420	1444	1459	1385	1529		10.4%	--	--
351	COLUMBUS_W5								592	545	550	513	515		0.4%	--	--
353	GRANVILLE_E2									2783	2795	2387	2688		12.6%	--	--
355	MOHALL_W5___									761	754	705	713		1.1%	--	--
419	EMERADO_W2							6788	6792	6516	6187	5382	5998		11.4%	--	--

PERMANENT STATION COMPARISON OF AADT BY YEAR

STATION NUMBER	LOCATION	2001	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	2020	2021	% CHANGE 2021/2020	% CHANGE 2021/2011	% CHANGE 2021/2001
RURAL PRINCIPAL ARTERIAL																	
423	HARVEY_N3__								672	621	617	602	584	588	0.7%	--	--
429	LAKOTA_S1__								608	598	594	582	559	610	9.1%	--	--
447	DUNSEITH_E__								2605	2602	2575	2715	2605	2794	7.3%	--	--
449	SHEYENNE_N__									1145	1131	1016	798	1044	30.8%	--	--
	MEAN	1905	1778	1782	1875	2054	2808	3425	3493	2990	2962	3039	2510	2586	4.8%	-8.7%	49.9%
RURAL MINOR ARTERIAL																	
231	GRAFTON	2550	2654	2670	2469	2541	2507	2523	2561	2461	2452	2447	2319	2448	5.6%	-2.4%	-4.0%
247	COURTENAY	502	476	470	456	463	485	457	473	446	476	444	426	464	8.9%	-4.3%	-7.6%
249	GARRISON	1180	1208	1168	1177	1254	1473	1702	1812	1670	1636	1600	1626	1721	5.8%	16.8%	45.8%
275	HANNOVER	526	504	502	530	603	604	649	746	916	692	643	632	688	8.9%	13.9%	30.8%
289	MANNING		1632	1604	1901	2591	4178	5719	5540	4588	5093	5170	4046	4069	0.6%	-2.6%	--
291	MARMARTH							803	793	633	650	657	569	673	18.3%	--	--
293	KILLDEER							3861	4231	3612	4283	4326	3273	3051	-6.8%	--	--
295	NECHE							449	426	402	394	316	300	326	8.7%	--	--
373	DICKINSON22S									1669	1654	1821	1538	1724	12.1%	--	--
453	OAKES_S1____									1211	1253	1183	1136	1244	9.5%	--	--
461	THOMPSON_W15								1587	1600	1555	1559	1477	1615	9.3%	--	--
727	ENDERLIN_E46								1893	1875	1984	1944	1777	1927	8.4%	--	--
759	WILTON_E36__								576	578	565	554	579	608	5.0%	--	--
	MEAN	1190	1295	1283	1307	1490	1849	2020	1876	1666	1745	1743	1515	1581	7.3%	4.3%	16.3%
RURAL MAJOR COLLECTOR - STATE																	
267	TRENTON					2530	4526	5183	5067	3620	4278	4697	3615	3748	3.7%	-17.2%	--
493	ST_THOMAS_W_								644	604	612	592	574	611	6.4%	--	--
783	KULM_S56____								163	169	190	280	289	197	-31.8%	--	--
	MEAN					2530	4526	5183	1958	1464	1693	1856	1493	1519	-7.2%	-17.2%	--
RURAL MAJOR COLLECTOR - COUNTY																	
101	MINOT55ST_NE								2655	2634	2732	2602	2406	2651	10.2%	--	--
103	MINOT46AV_NE								1124	1084	1207	1247	1161	1218	4.9%	--	--
225	STERLING		520	484	558	582	587	656	834	867	814	869	843	862	2.3%	46.8%	--
259	AYR	364	372	360	350	363	343	329	341	352	359	353	342	370	8.2%	7.9%	1.6%
277	REGENT	318	294	298	309	317	325	343	362	310	297	310	337	314	-6.8%	-3.4%	-1.3%
	MEAN	341	395	381	406	421	418	443	1063	1049	1082	1076	1018	1083	3.7%	17.1%	0.2%
URBAN PRINCIPAL ARTERIAL																	
287	GRAND FORKS		19270	19248	19947	19719	20413	21396	21197	22837	22174	22186	19770	22092	11.7%	8.2%	--
501	FARGO (U)	25762	25892	26264	24533	25283	24421	24073	25518	26353	22640	23971	21889	24175	10.4%	-1.0%	-6.2%
503	BISMARCK (U)							12859	14093	13876	13374	13505	12746	13513	6.0%	--	--
513	WFARGO_MAIN_ (U)									6874	6764	6633	5782	6359	10.0%	--	--
601	BISMARCK (U)	12475	11855	11828	12174	11605									--	--	--
603	WILLISTON (U)	4042	4160	4316	4623	5108	9070	10990	9594	6662	7193	7580	6059	6143	1.4%	-32.3%	52.0%
605	MANDAN (U)		20152	20240	20530	19813	19749	20891	20615	19203	18934	18164	17755	18712	5.4%	-5.3%	--
	MEAN	14093	16266	16379	16361	16306	18413	18042	18203	15968	15180	15340	14000	15166	7.5%	-7.6%	22.9%
URBAN MINOR ARTERIAL																	
607	DICKINSON (U)	3152	3034	3090	2967	2925	3142	3329	3297	3234	2907	2804	2709	3116	15.0%	-0.8%	-1.1%
611	MINOT (U)	2974	2638	2626	2340	2736	3426	2974	2770	2559	2571	2515	2047	2080	1.6%	-39.3%	-30.1%
	MEAN	3063	2836	2858	2654	2831	3284	3152	3034	2897	2739	2660	2378	2598	8.3%	-20.1%	-15.6%
URBAN COLLECTOR & LOCAL URBAN																	
609	MINOT (U)	2068	2342	2328	2191	2358	2782	2802	2924	2643	2545	2573	2349	2524	7.4%	-9.3%	22.1%
	MEAN	2068	2342	2328	2191	2358	2782	2802	2924	2643	2545	2573	2349	2524	7.4%	-9.3%	22.1%

Missing data is the result of years when a recording station was out of service, or not yet installed

PERMANENT STATION COMPARISON OF TRUCK AADT BY YEAR

STATION NUMBER	LOCATION	2001	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	2020	2021	% CHANGE 2021/2020	% CHANGE 2021/2011	% CHANGE 2021/2001
URBAN INTERSTATE																	
217	FARGO (U)	4140	4436	4988	4774	4625	4907	5100	5476	5022	5040	5076	5052	5520	9.3%	12.5%	33.3%
235	FARGO (U)		2614	2720	2960	2994	3467	3305	3452	3585	3775	3629	3640	3994	9.7%	15.2%	--
283	BISMARCK (U)	1708	1878	2162	2663	2006	2297	2831	2918	2445	2747	3111	3188	3542	11.1%	54.2%	107.4%
	MEAN	2924	2976	3290	3466	3208	3557	3745	3949	3684	3854	3939	3960	4352	10.0%	27.3%	70.4%
RURAL INTERSTATE																	
207	MEDINA	1586	1578	1646	1756	1674	2052	2132	2136	2355	2334	2295	2372	2580	8.8%	25.7%	62.7%
211	BUXTON	2136	2374	2516	2832	2378	2755	2998	2949	2591	2578	2606	2544	2772	9.0%	0.6%	29.8%
223	NEW SALEM		1162	1290	1462	1439	1728	1903	2127	2170	2156	2207	2170	2410	11.1%	39.5%	--
243	BOWESMONT	1164	1176	1156	1411	1170	1288	1270	1286	1322	1306	1256	1262	1373	8.8%	6.6%	18.0%
245	TOWER CITY		1796	1974	2156	2144	2549	2759	2944	2899	3049	2851	2814	3207	14.0%	25.8%	--
265	MOORETON	716	854	976	1061	1027	1112	1268	1244	1227	1282	1211	1242	1326	6.8%	19.2%	85.2%
279	PAINTED CANYON	1006	1040	1036	1405	1097	1351	1711	1632	1552	1552	1533	1517	1786	17.7%	32.2%	77.5%
285	DAVENPORT		1136	1252	1313	1243	1357	1541	1583	1734	1792	1758	1759	1884	7.1%	38.8%	--
	MEAN	1322	1390	1481	1675	1522	1774	1948	1988	1981	2006	1965	1960	2167	10.4%	23.6%	54.6%
RURAL PRINCIPAL ARTERIAL																	
201	RAY	286	256	310	466	783	2698	2818	2342	1578	1729	1955	1418	1410	-0.6%	-47.7%	393.0%
203	MAX	548	558	512	559	691	925	1026	840	716	1102	1060	899	878	-2.3%	-5.1%	60.2%
205	GWINNER	150	154	148	132	105	131	117	156	177	183	176	164	164	0.0%	25.2%	9.3%
215	JAMESTOWN	446	474	558	682	689	851	957	1052	982	974	926	937	991	5.8%	16.5%	122.2%
219	MANDAN	140	148	142	138	147	143	187	201	230	209	232	238	252	5.9%	76.2%	80.0%
221	FAIRFIELD	272	270	294	475	505	1100	1455	1354	968	1086	1057	804	738	-8.2%	-32.9%	171.3%
229	COOPERSTOWN									182	186	167	175	186	6.3%	--	--
233	FOXHOLM	390	438	440	531	518	689	755	585	608	628	658	592	668	12.8%	-3.0%	71.3%
237	NEKOMA		130	116	150	102	144	138	159	155	144	149	133	118	-11.3%	-18.1%	--
239	NEW TOWN	132		140	230	678	2458	2958	2607	2058	2394	2710	1788	1678	-6.2%	-31.7%	1171.2%
241	BOTTINEAU	176	126	118	142	151	160	184	205	224	198	201	240	224	-6.7%	40.0%	27.3%
251	HAGUE							316	330	296	285	305	288	273	-5.2%	--	--
253	RUGBY		432	418	426	364	466	496	496	480	431	470	453	448	-1.1%	-3.9%	--
255	CROSBY	146	128	96	130	149	432	795	543	293	256	256	279	329	17.9%	-23.8%	125.3%
257	WILLISTON		130	158	175	146	657	941	596	552	647	663	388	361	-7.0%	-45.1%	--
261	CARRINGTON					249	275	306	282	272	259	253	248	302	21.8%	9.8%	--
271	GOLDEN VALLEY				75	95	276	427	285	212	226	218	212	190	-10.4%	-31.2%	--
273	NEW LEIPZIG	76	66	44	45	54	51	62	62	68	74	79	76	74	-2.6%	45.1%	-2.6%
281	SAWYER	376	412	486	538	582	838	1021	782	945	949	911	933	1013	8.6%	20.9%	169.4%
297	WILLISTON_NW							877	1016	2292	2649	3017	1964	1641	-16.4%	--	--
299	KILLDEER200W										1037	1080	674	717	6.4%	--	--
303	MICHIGAN	580	570	538	529	535	619	617	684	713	738	654	659	679	3.0%	9.7%	17.1%
307	WASHBURN	586	548	548	622	698	907	987	1024	918	906	936	886	841	-5.1%	-7.3%	43.5%
309	NEWTOWN_EAST								1334	895	834	903	760	764	0.5%	--	--
311	WILLISTON_2N							5068	4130	2118	3340	3680	2579	2339	-9.3%	--	--
315	RYDER_E23__									486	563	613	563	553	-1.8%	--	--
337	BLAISDELL_E2									1211	1234	1324	1121	1033	-7.9%	--	--
339	GRASSY_BUTTE								1694	1204	1333	1385	964	983	2.0%	--	--
341	ALEXANDER85W								4528	2981	3137	3306	2272	2103	-7.4%	--	--
343	WATFORD_E23_									2792	3142	3201	1878	1797	-4.3%	--	--
345	WILLIAMS_N85									791	943	871	643	716	11.4%	--	--
349	BEULAH_S49__									259	244	259	249	256	2.8%	--	--
351	COLUMBUS_W5									192	167	168	154	155	0.6%	--	--
353	GRANVILLE_E2										534	536	523	545	4.2%	--	--
355	MOHALL_W5__										216	225	228	226	-0.9%	--	--
419	EMERADO_W2								1007	920	906	791	766	764	-0.3%	--	--
423	HARVEY_N3__								104	107	102	107	110	94	-14.5%	--	--
429	LAKOTA_S1__								117	115	112	108	121	115	-5.0%	--	--
447	DUNSEITH_E__								162	117	110	119	152	144	-5.3%	--	--
449	SHEYENNE_N__									198	229	182	184	168	-8.7%	--	--
	MEAN	307	303	298	336	381	727	1023	989	792	861	898	693	673	-1.0%	-0.3%	175.6%

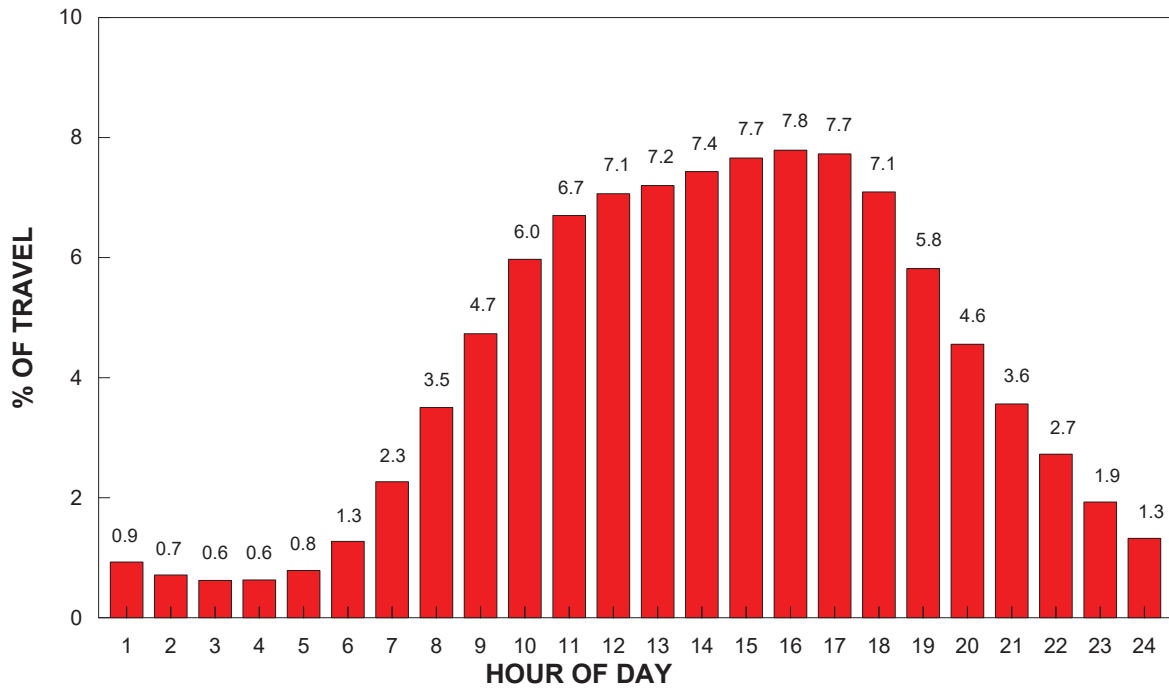
PERMANENT STATION COMPARISON OF TRUCK AADT BY YEAR

STATION NUMBER	LOCATION	2001	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	2020	2021	% CHANGE 2021/2020	% CHANGE 2021/2011	% CHANGE 2021/2001
RURAL MINOR ARTERIAL																	
231	GRAFTON	228	232	274	228	243	237	225	266	277	290	290	301	299	-0.7%	26.2%	31.1%
247	COURTENAY	48	36	40	35	34	44	40	39	34	31	32	38	42	10.5%	-4.5%	-12.5%
249	GARRISON	104	104	104	113	134	158	222	267	174	187	178	195	174	-10.8%	10.1%	67.3%
275	HANNOVER	60	62	66	58	78	89	111	109	116	88	94	86	90	4.7%	1.1%	50.0%
289	MANNING		144	132	283	539	1281	1937	1706	1309	1548	1591	1194	1186	-0.7%	-7.4%	--
291	MARMARTH							211	194	171	197	187	175	245	40.0%	--	--
293	KILLDEER							1766	1800	1516	1881	1704	1060	1144	7.9%	--	--
295	NECHE							116	84	120	126	125	125	167	33.6%	--	--
373	DICKINSON22S									308	306	330	298	319	7.0%	--	--
453	OAKES_S1____									283	302	256	253	281	11.1%	--	--
461	THOMPSON_W15								192	184	185	179	182	204	12.1%	--	--
727	ENDERLIN_E46								318	351	351	346	331	360	8.8%	--	--
759	WILTON_E36__								126	125	119	124	155	170	9.7%	--	--
	MEAN	110	116	123	143	206	362	579	464	382	432	418	338	360	10.2%	5.1%	34.0%
RURAL MAJOR COLLECTOR - STATE																	
267	TRENTON					369	1284	1501	1310	675	1031	1160	788	729	-7.5%	-43.2%	--
493	ST_THOMAS_W_								208	192	184	146	201	201	0.0%	--	--
783	KULM_S56____								36	39	40	67	67	41	-38.8%	--	--
	MEAN					369	1284	1501	518	302	418	458	352	324	-15.4%	-43.2%	--
RURAL MAJOR COLLECTOR - COUNTY																	
101	MINOT55ST_NE								587	437	420	391	387	395	2.1%	--	--
103	MINOT46AV_NE								231	182	178	222	175	180	2.9%	--	--
225	STERLING			40	54	63	80	70	115	141	141	160	152	176	15.8%	120.0%	--
	MEAN			40	54	63	80	70	311	253	246	258	238	250	6.9%	120.0%	--
URBAN PRINCIPAL ARTERIAL																	
287	GRAND FORKS								420	421	418	411	435	469	7.8%	--	--
503	BISMARCK (U)							1706	1832	1748	1613	1679	1674	1724	3.0%	--	--
513	WFARGO_MAIN_(U)									1205	1115	1143	1087	1121	3.1%	--	--
	MEAN							1706	1126	1125	1049	1078	1065	1105	4.6%	--	--

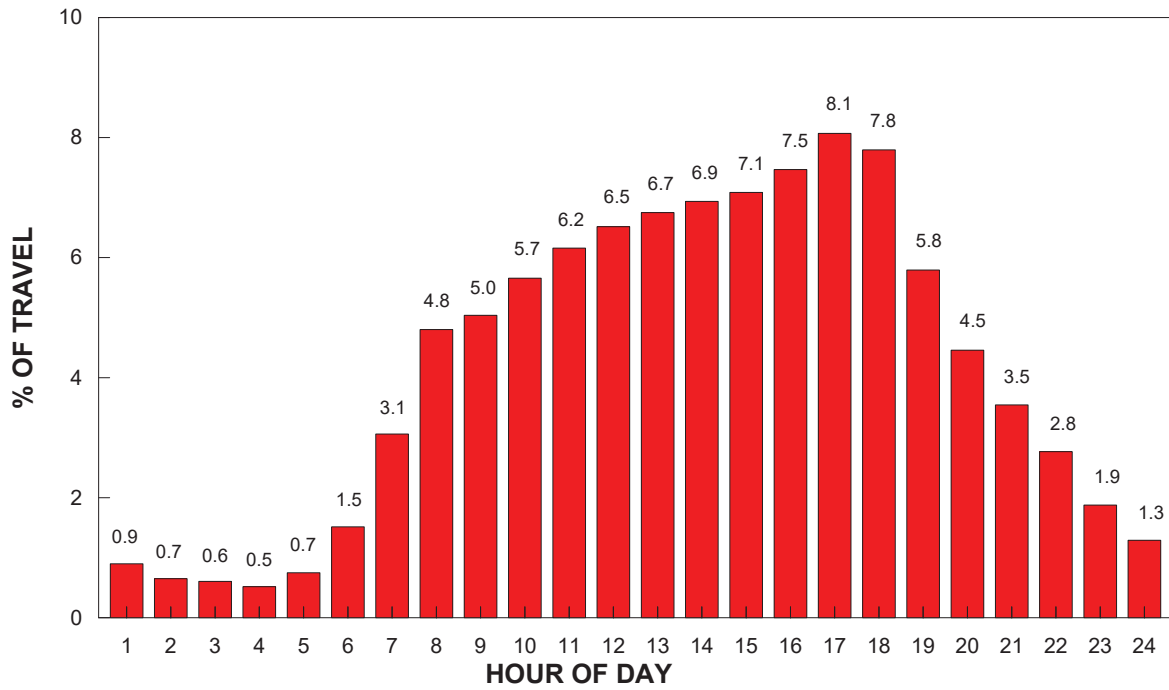
Missing data is the result of years when a recording station was out of service, or not yet installed

HOURLY DISTRIBUTION OF TRAVEL

RURAL INTERSTATE 94

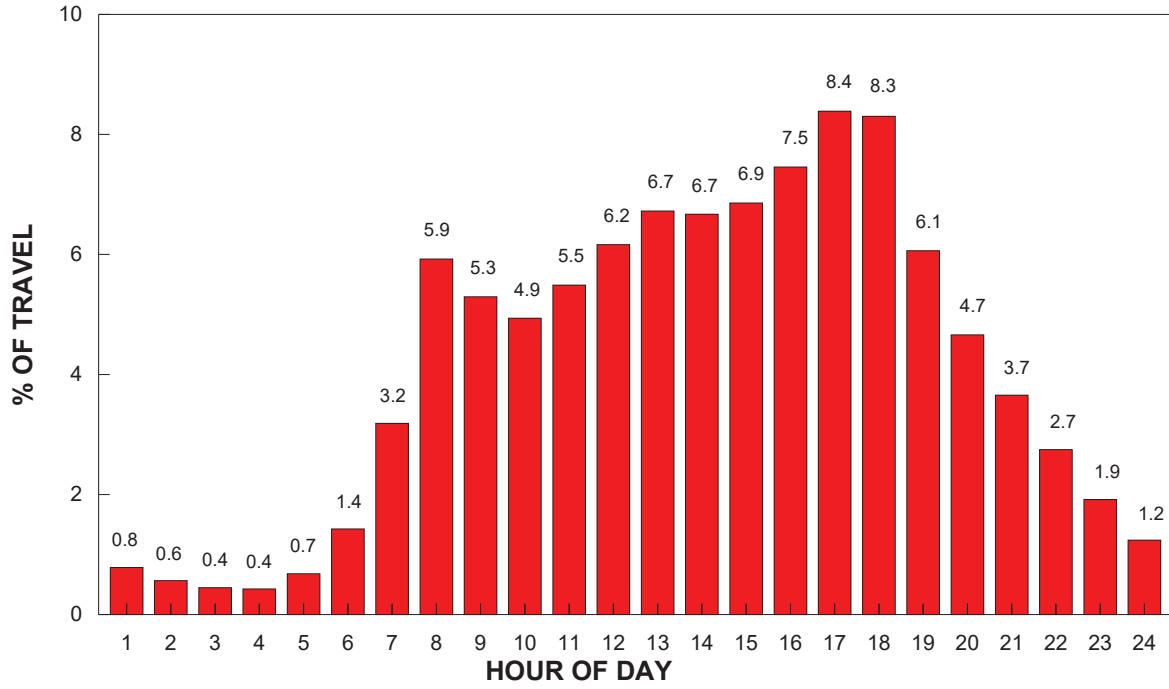


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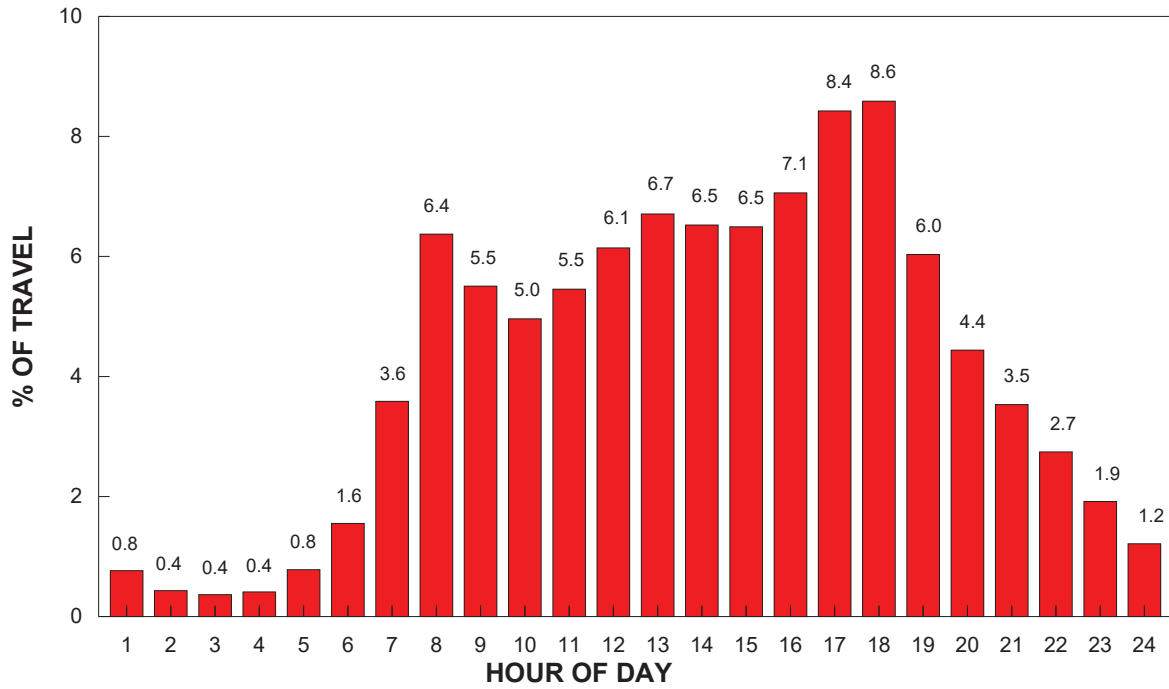


HOURLY DISTRIBUTION OF TRAVEL

URBAN INTERSTATE 94

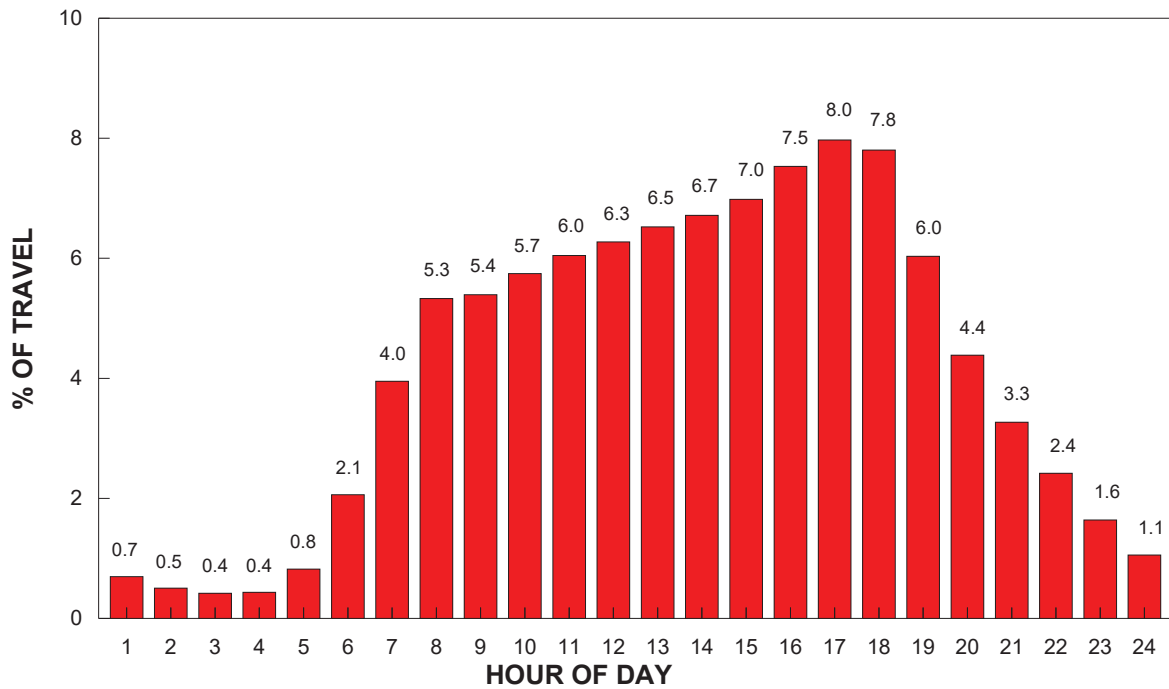


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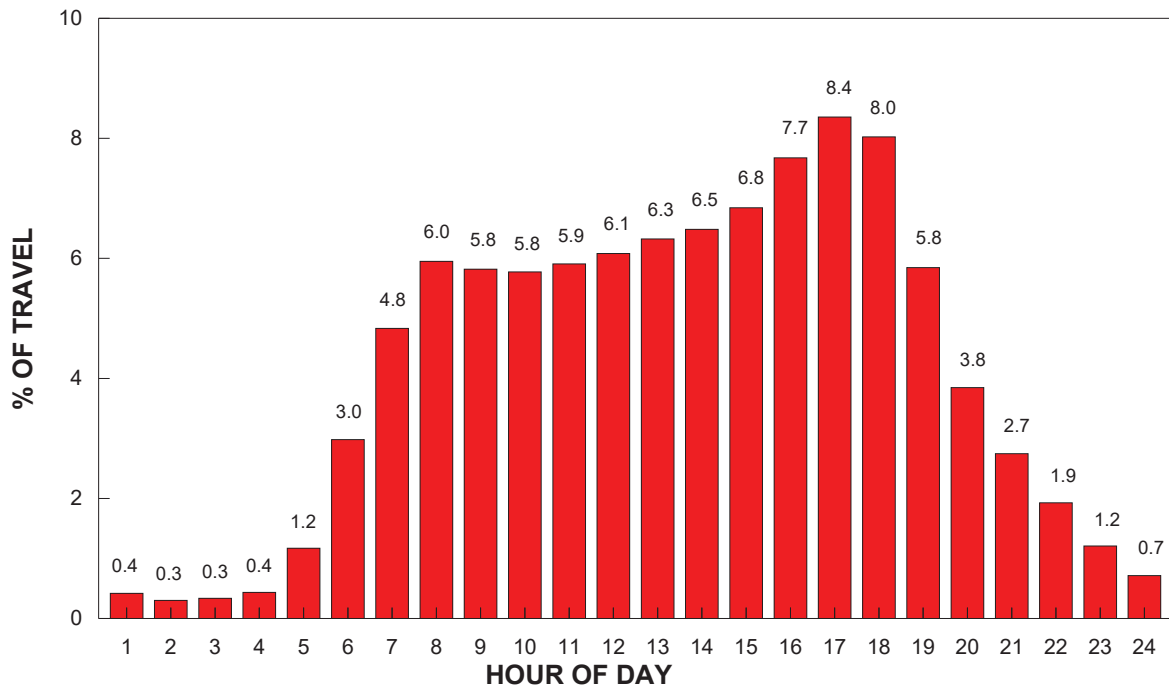


HOURLY DISTRIBUTION OF TRAVEL

RURAL PRINCIPAL ARTERIAL

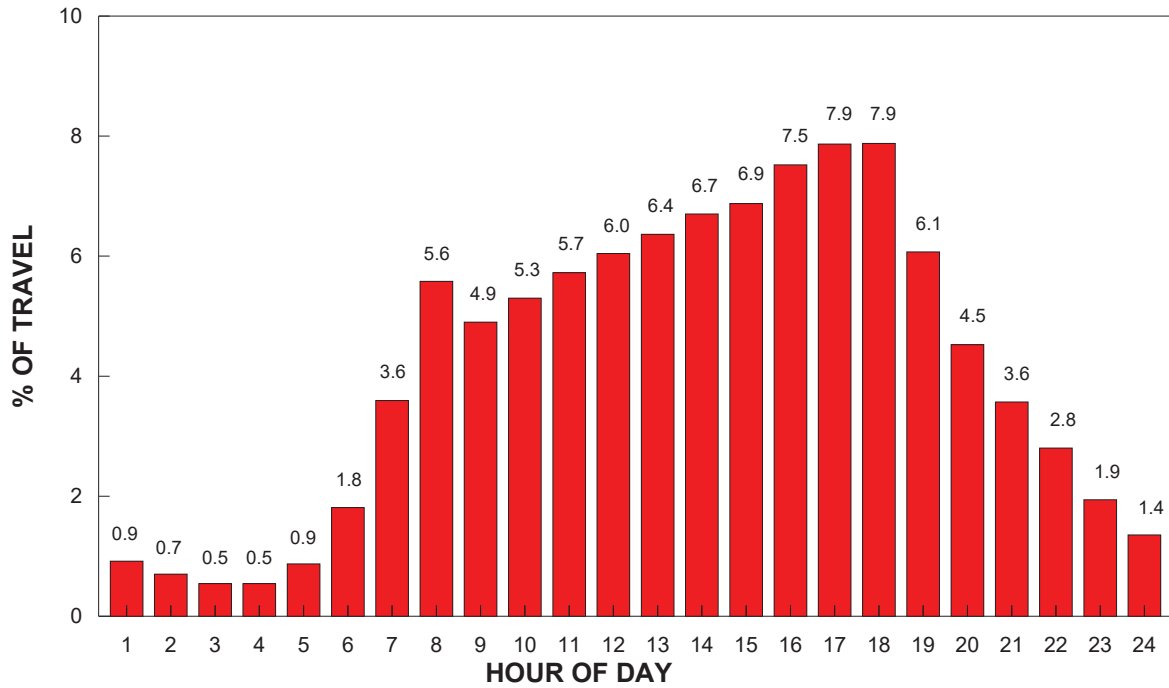


RURAL MINOR ARTERIAL

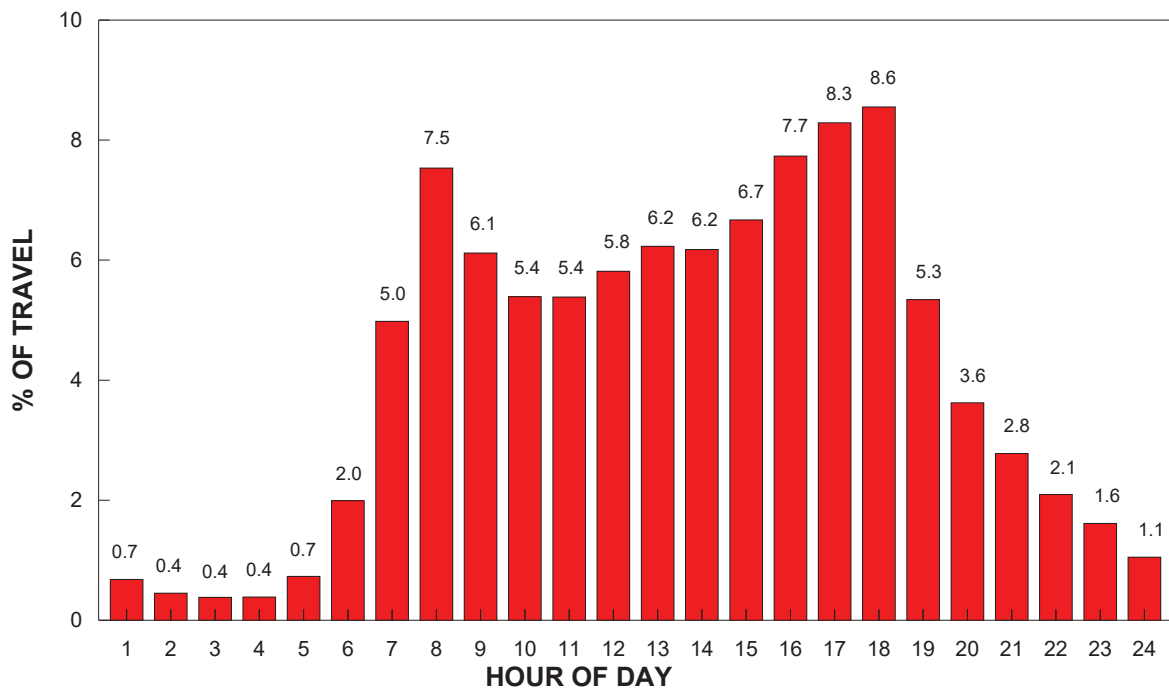


HOURLY DISTRIBUTION OF TRAVEL

RURAL MAJOR COLLECTOR - STATE

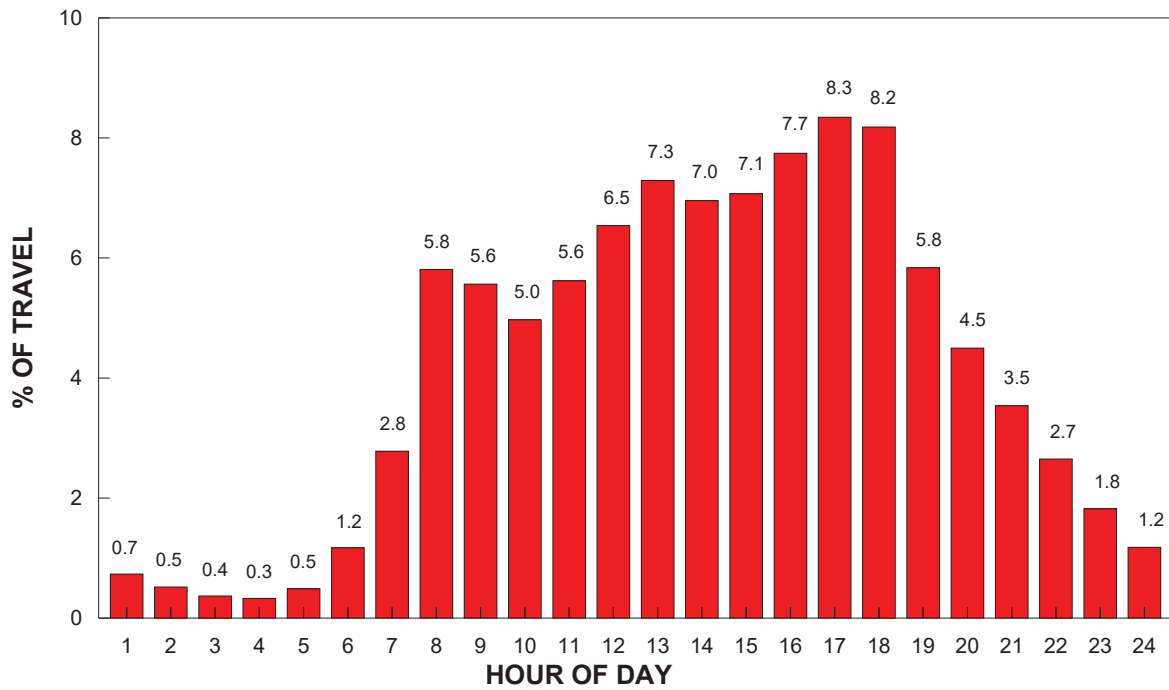


RURAL MAJOR COLLECTOR - COUNTY

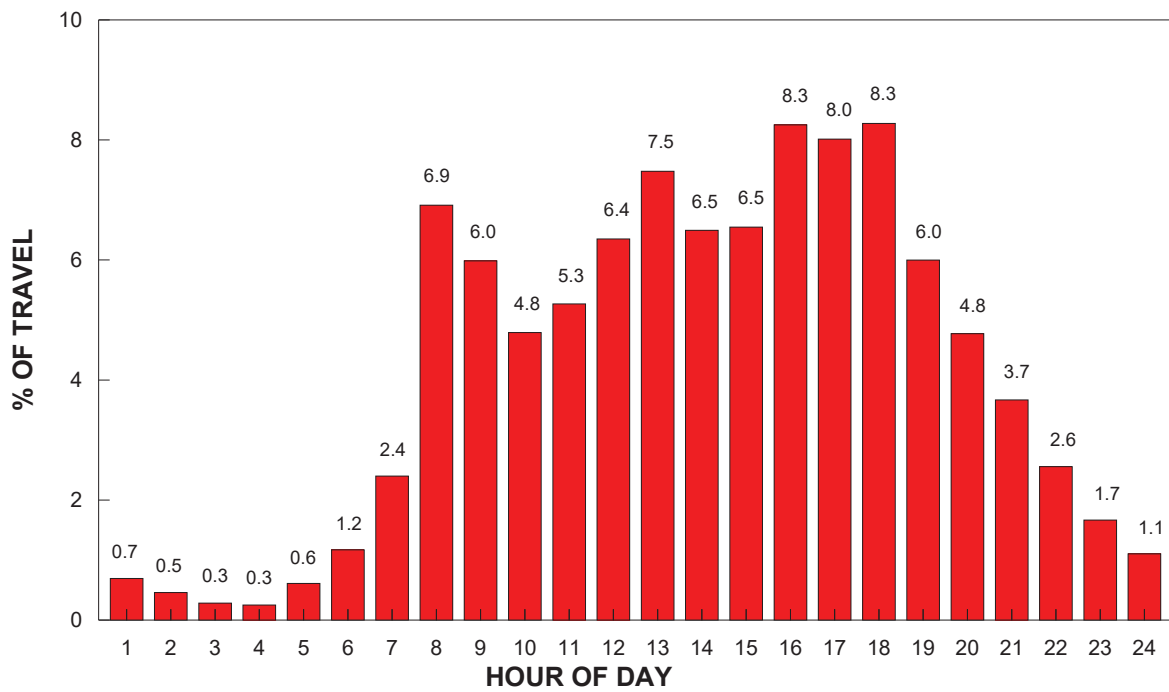


HOURLY DISTRIBUTION OF TRAVEL

URBAN PRINCIPAL ARTERIAL

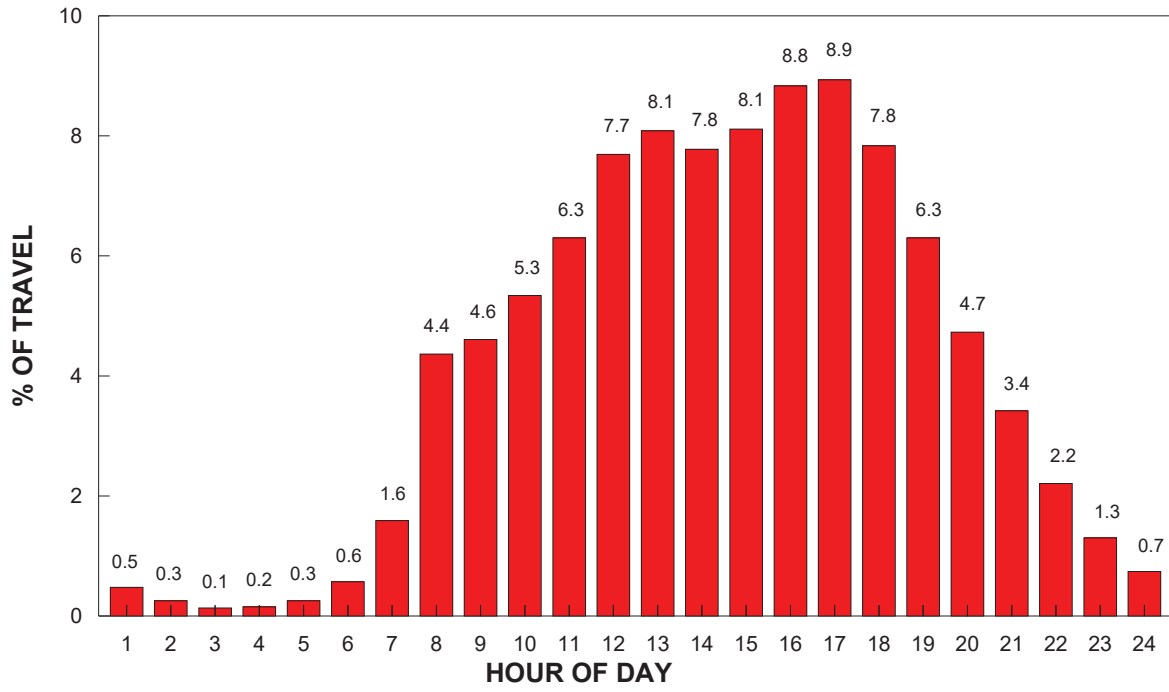


URBAN MINOR ARTERIAL

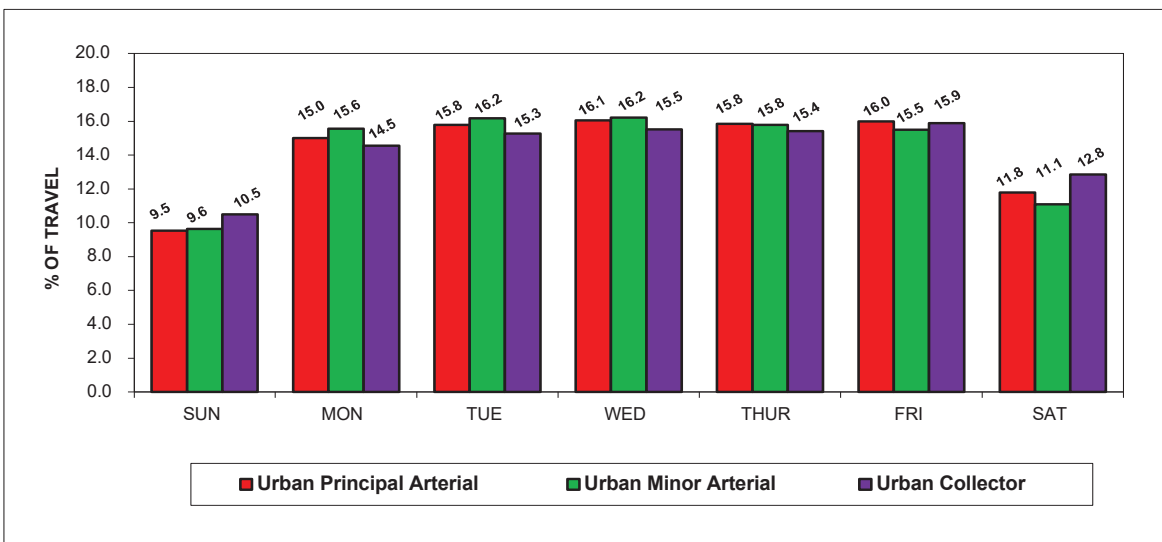
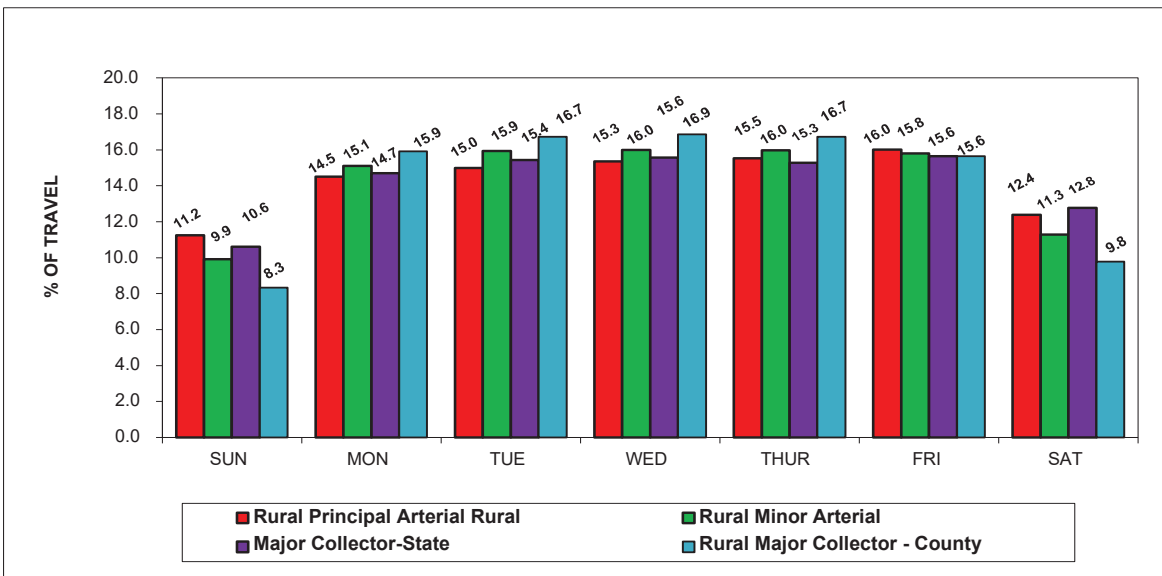
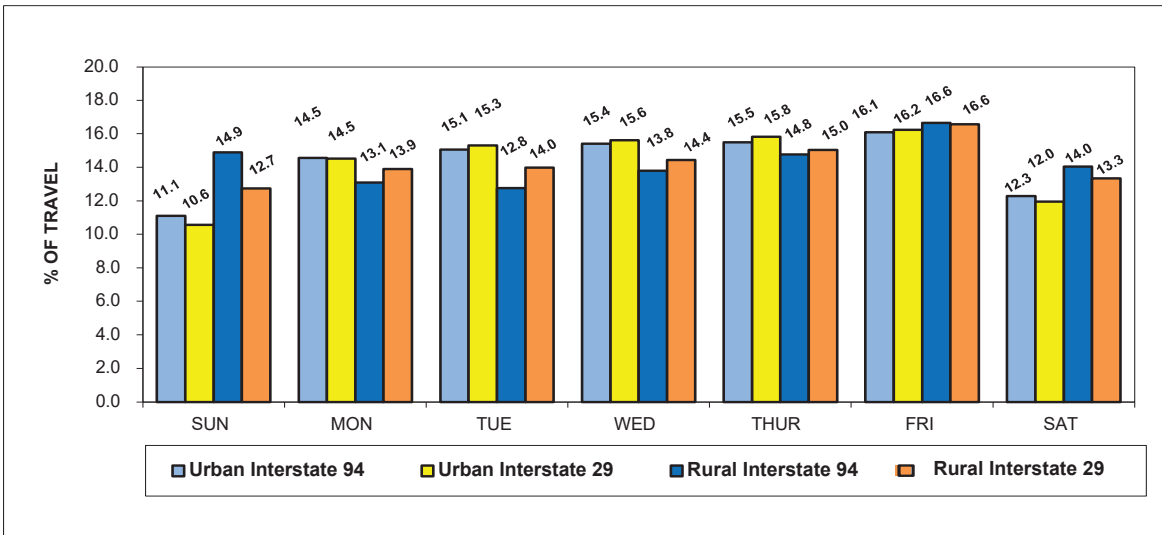


HOURLY DISTRIBUTION OF TRAVEL

URBAN COLLECTOR

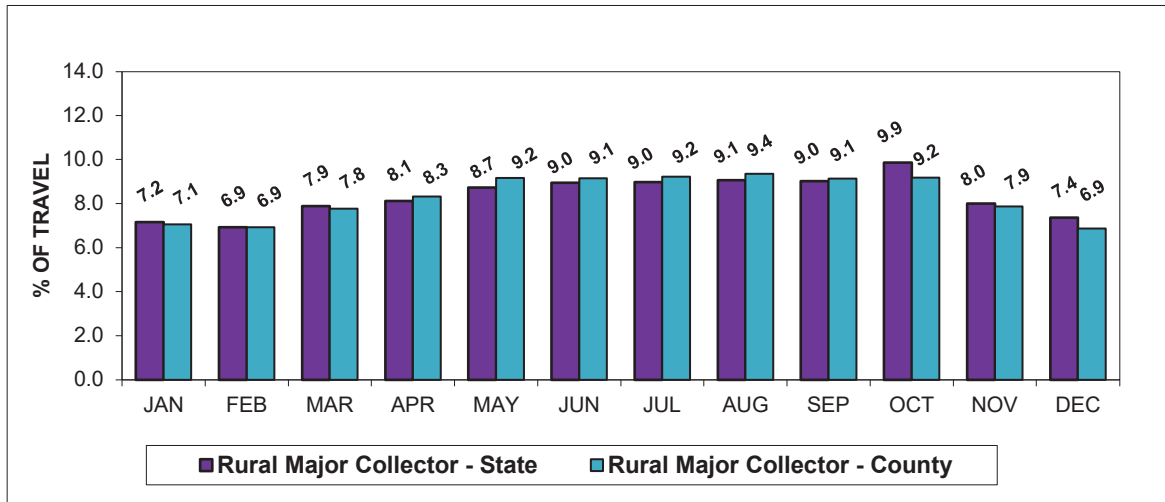
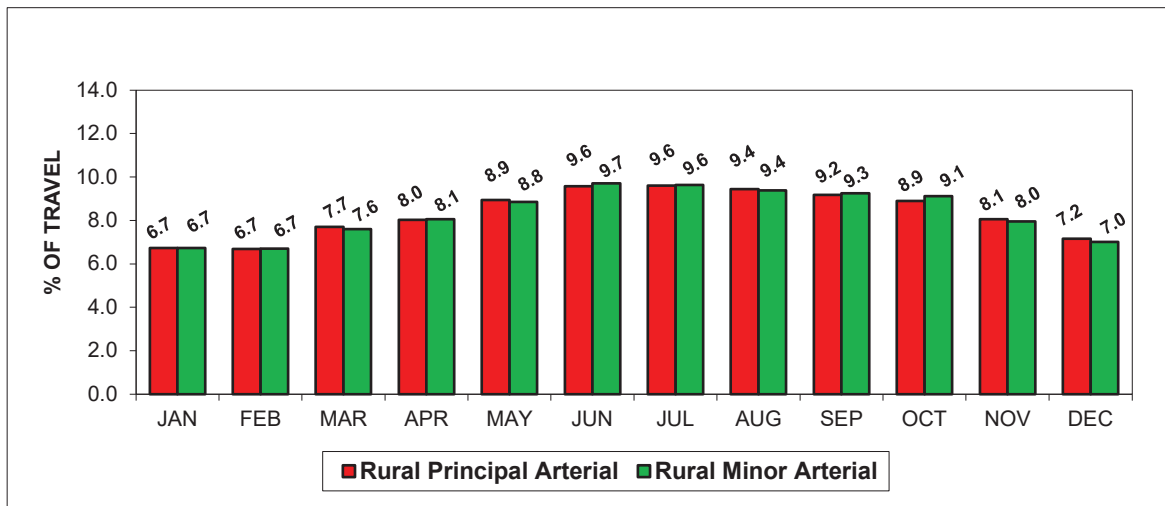
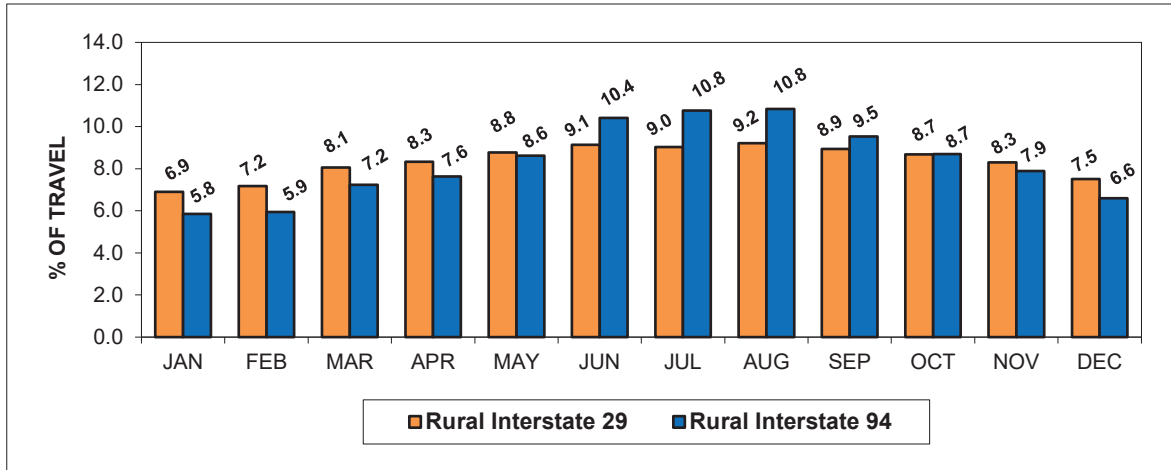


DAILY DISTRIBUTION OF TRAVEL TOTAL VEHICLES



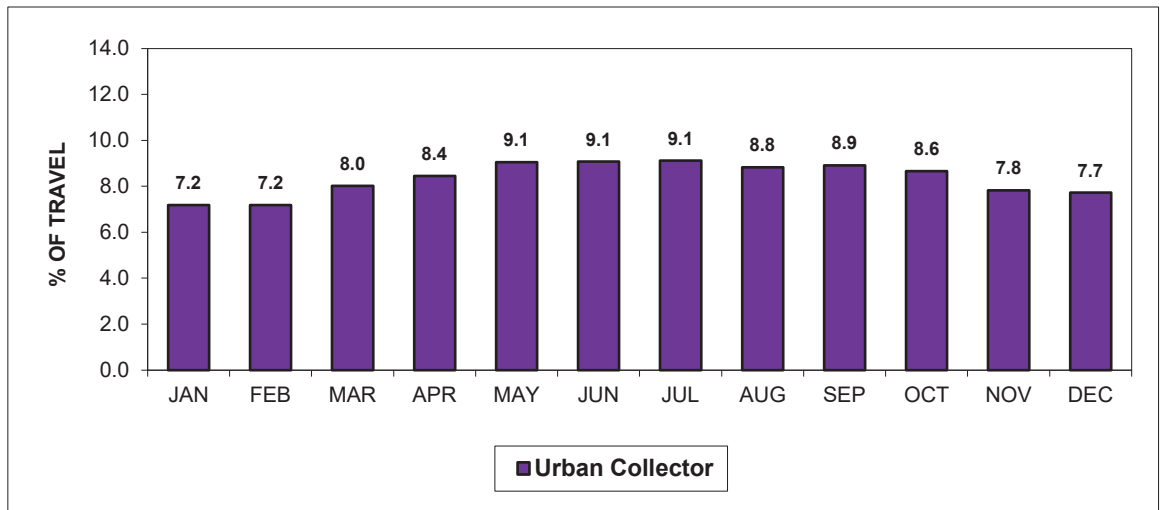
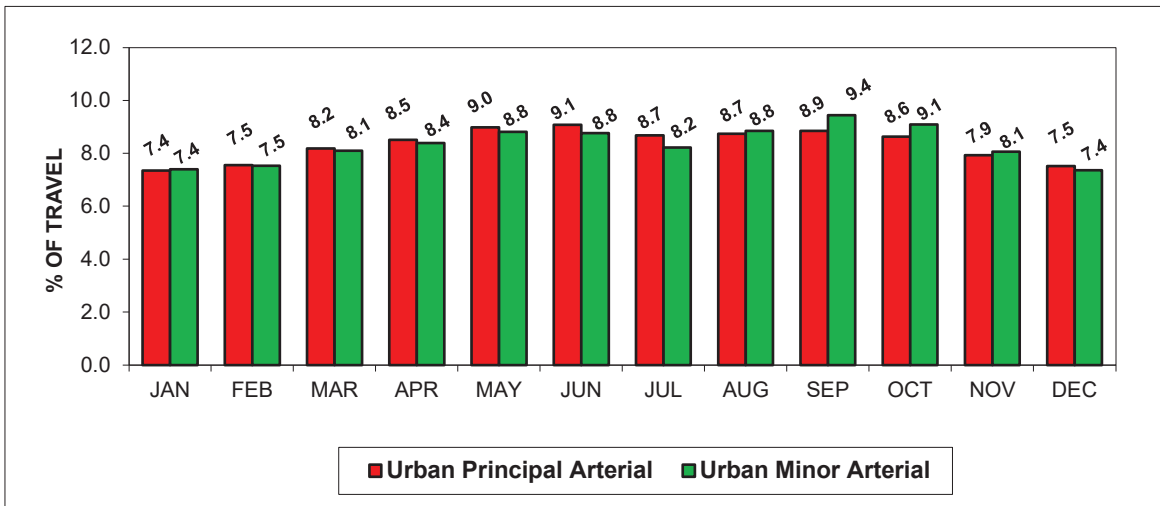
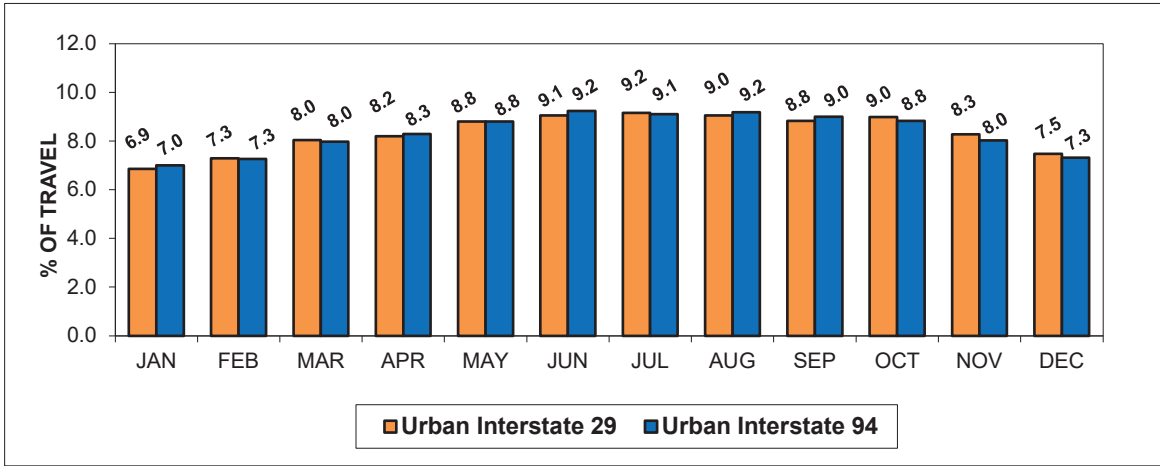
MONTHLY DISTRIBUTION OF ANNUAL TRAFFIC

TOTAL RURAL VEHICLES



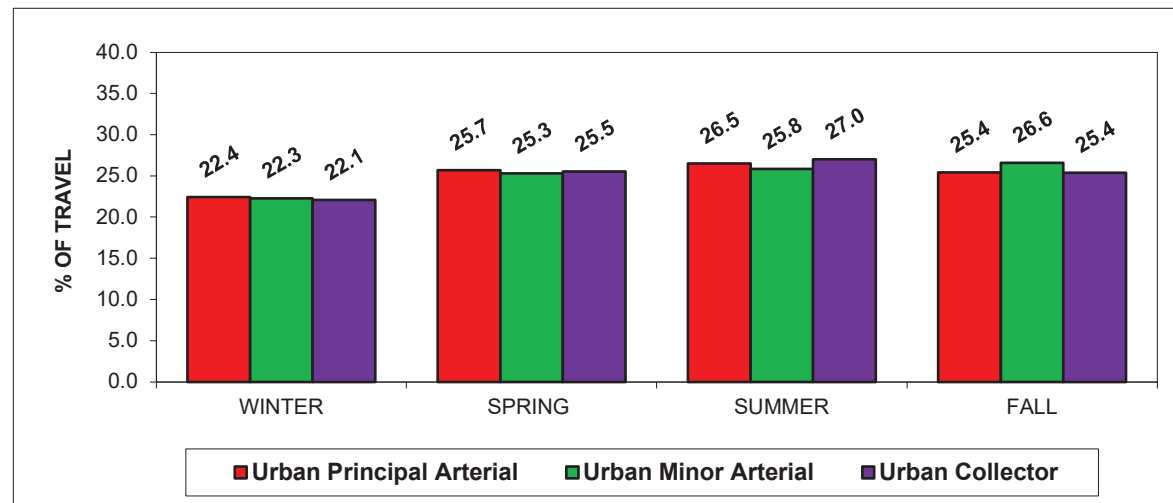
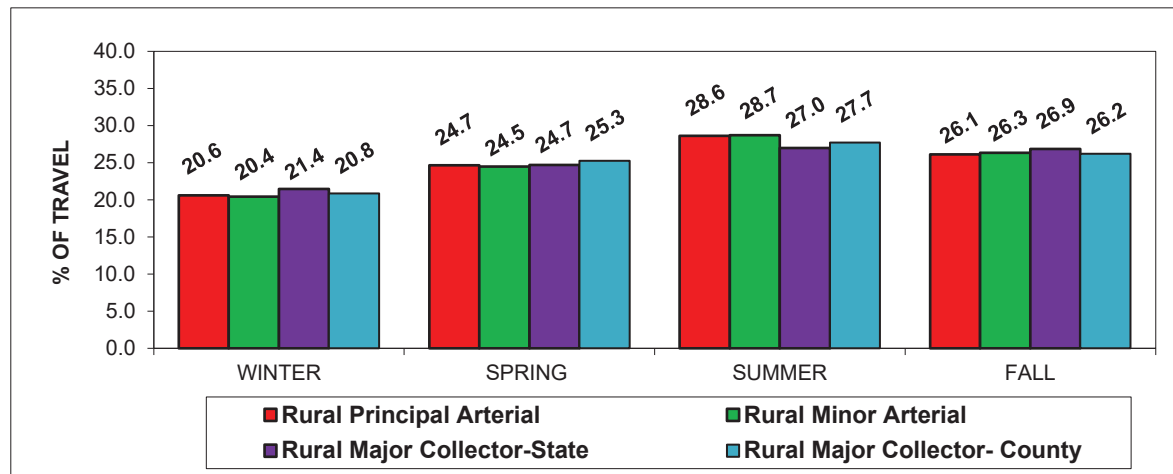
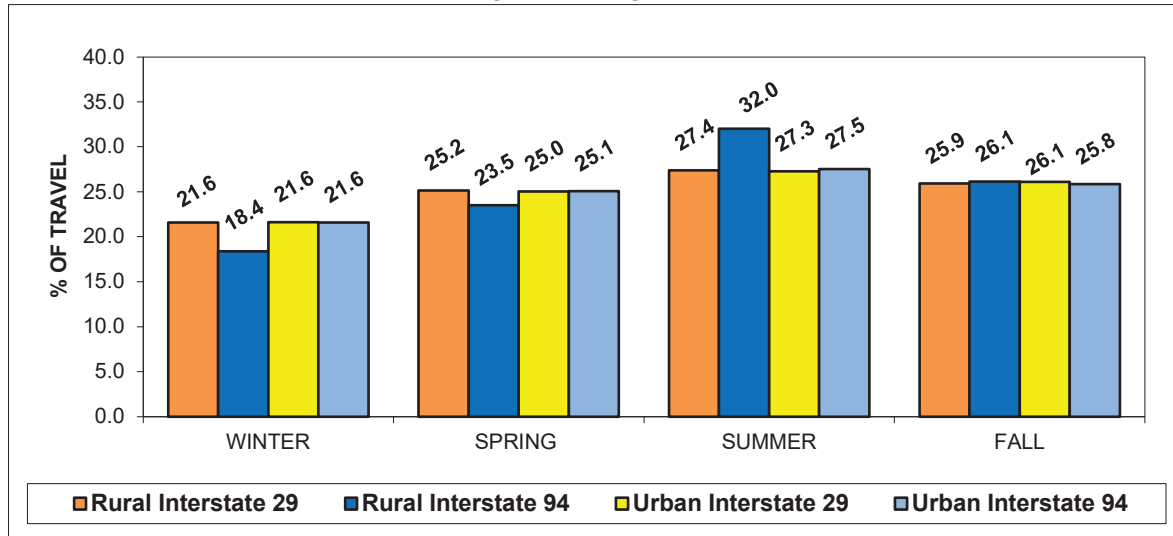
MONTHLY DISTRIBUTION OF ANNUAL TRAFFIC

TOTAL URBAN VEHICLES

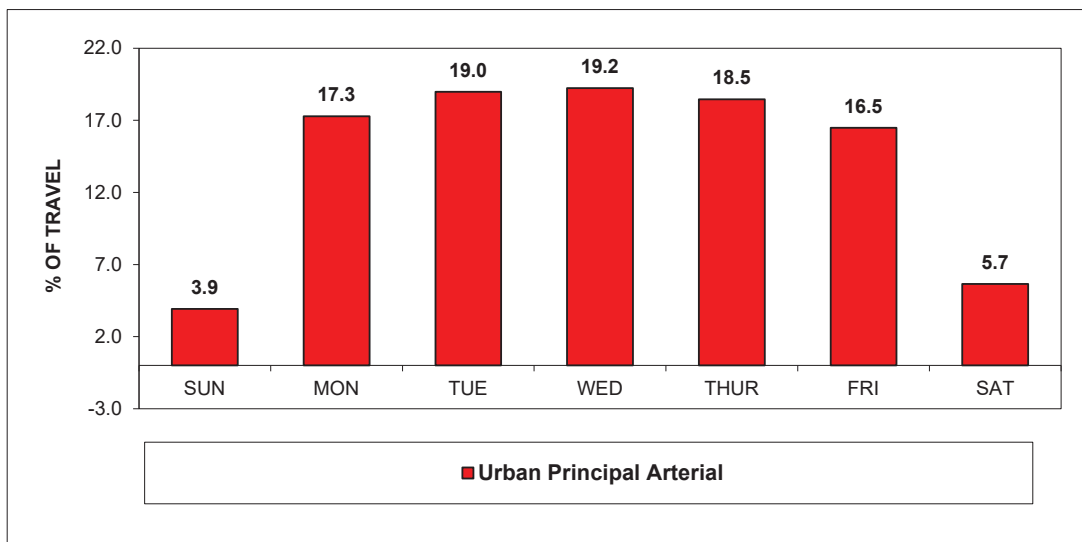
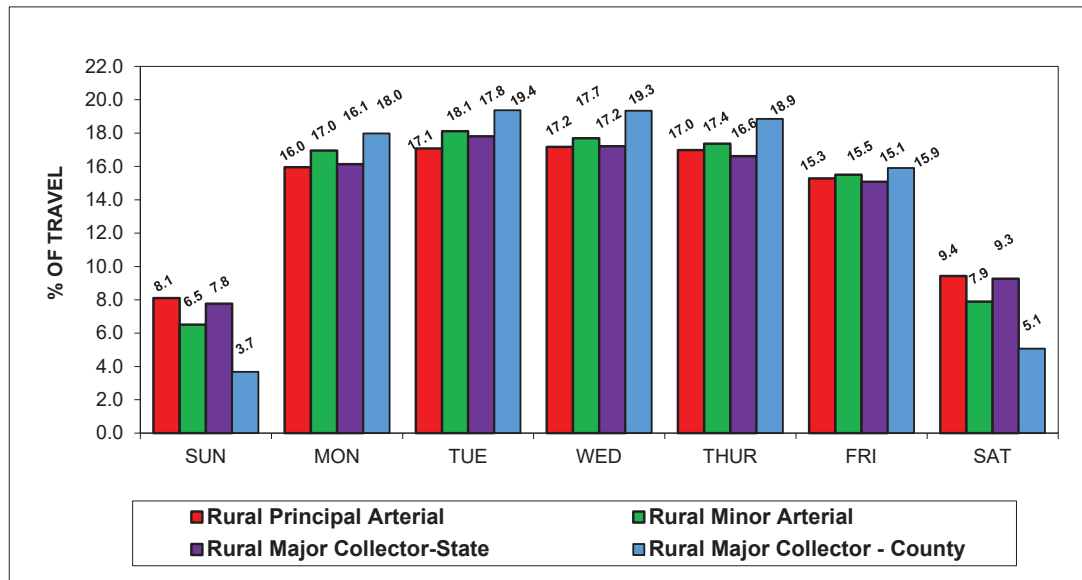
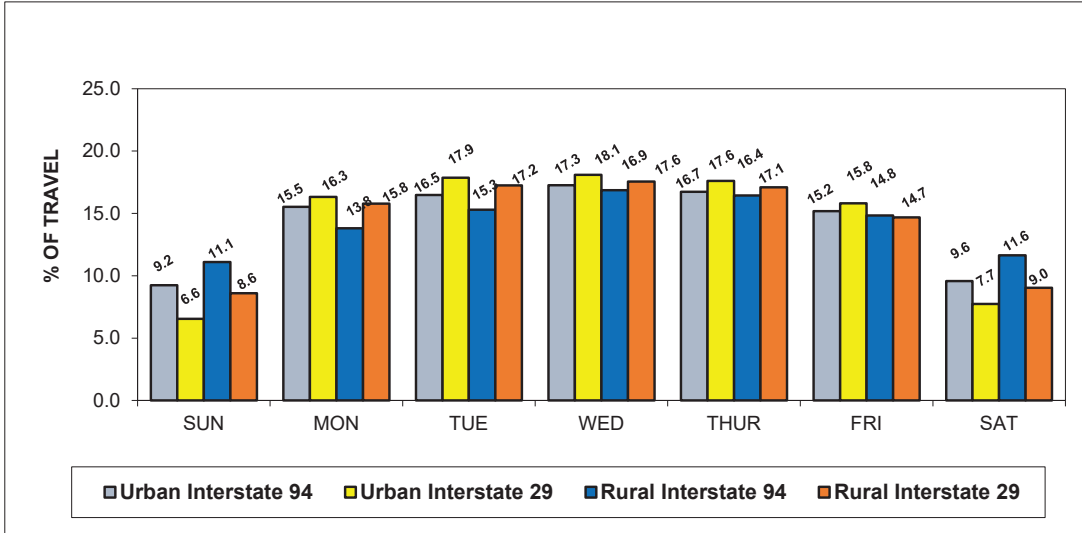


SEASONAL DISTRIBUTION OF TRAVEL

TOTAL VEHICLES

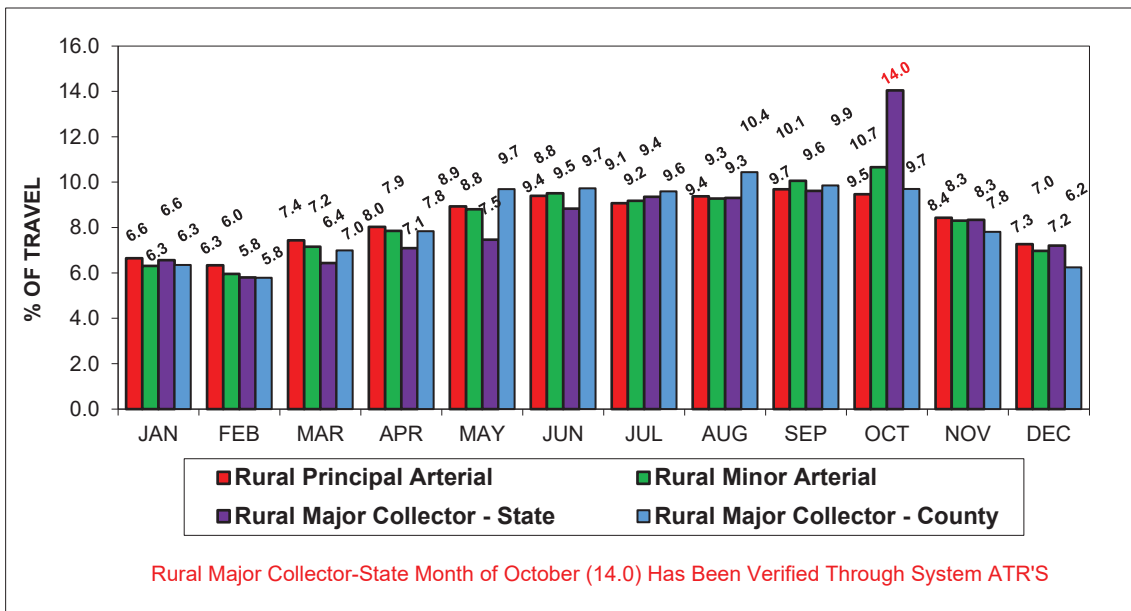
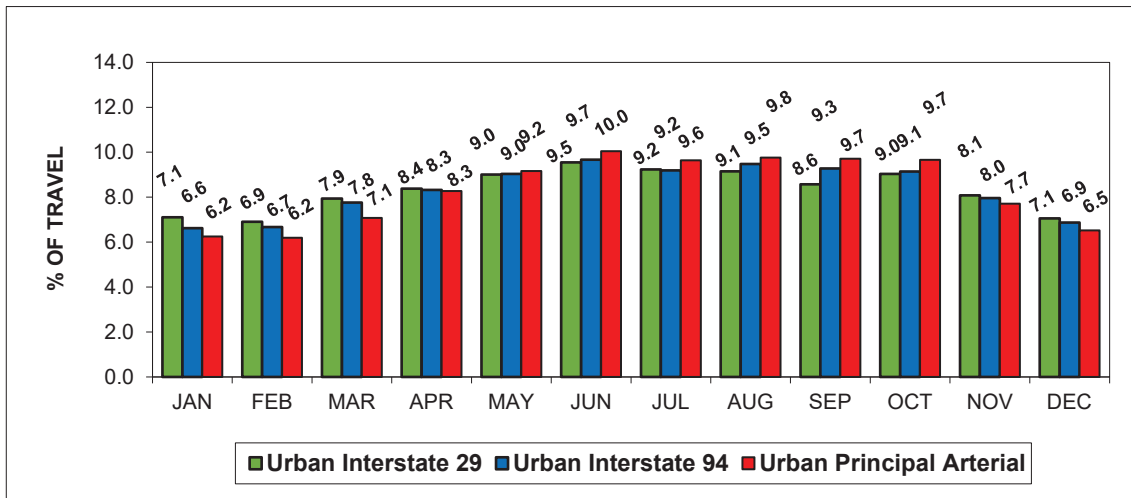
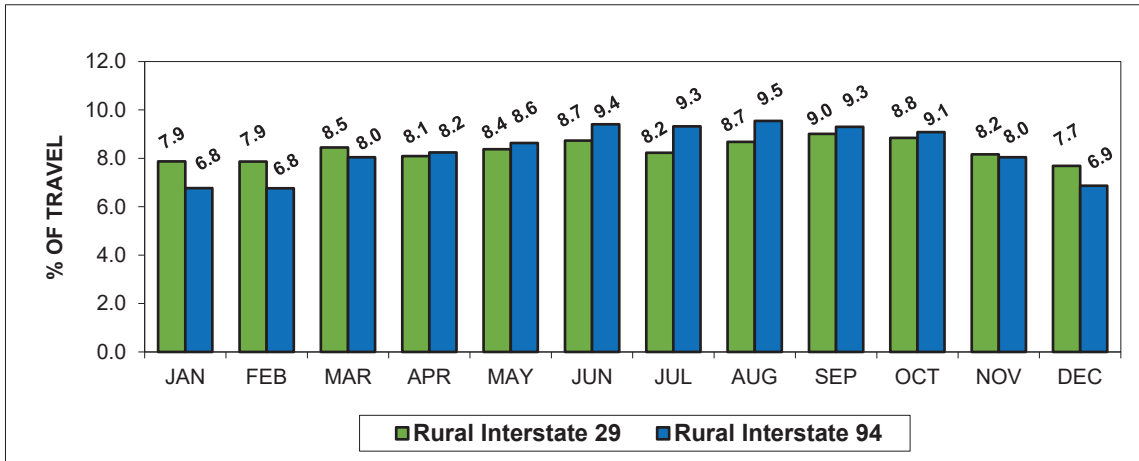


DAILY DISTRIBUTION OF TRAVEL TOTAL TRUCKS



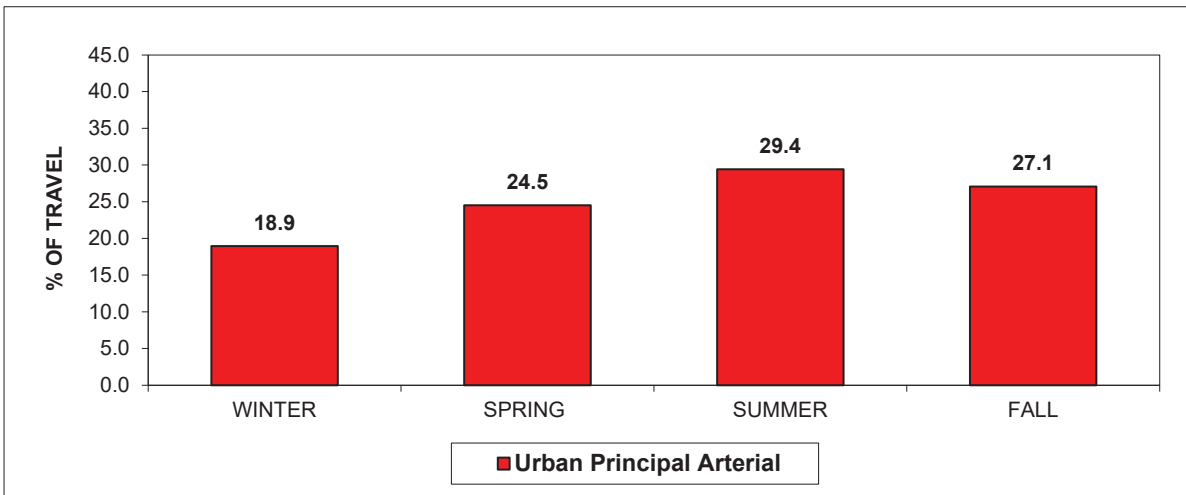
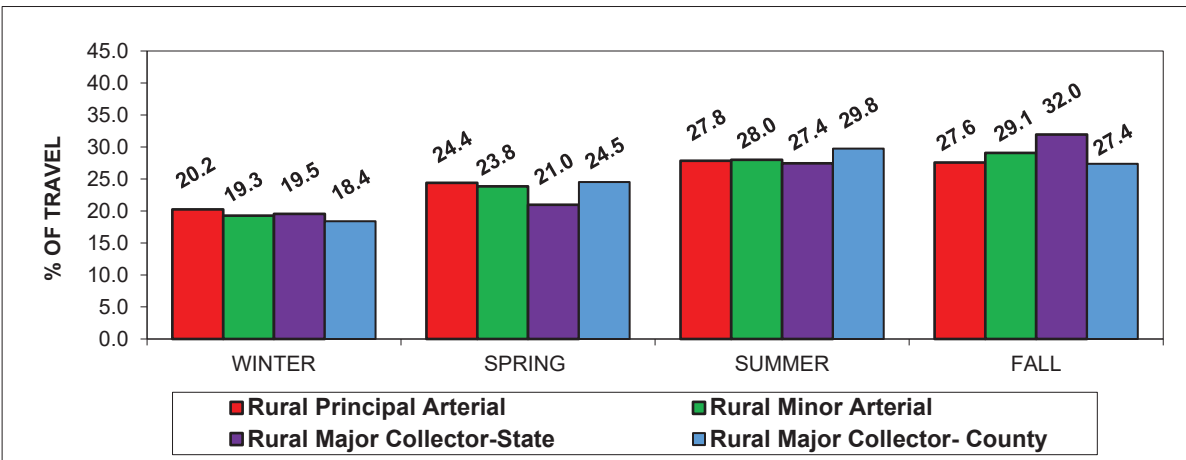
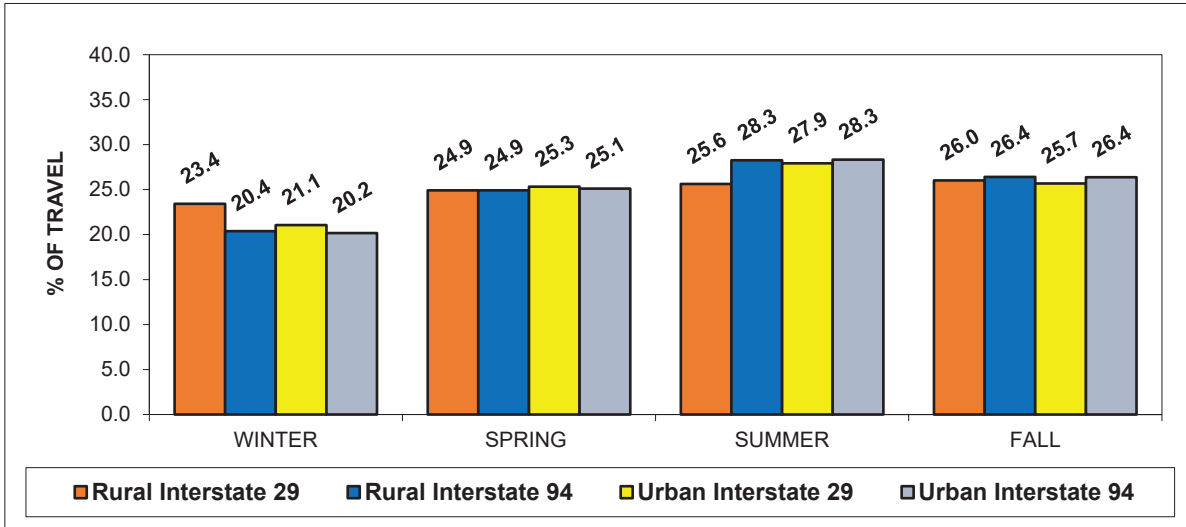
MONTHLY DISTRIBUTION OF ANNUAL TRAFFIC

TOTAL TRUCKS



SEASONAL DISTRIBUTION OF TRAVEL

TOTAL TRUCKS



**PERMANENT STATION
PEAK HOUR & DESIGN HOUR
STATISTICS FOR 2021**

STATION NUMBER	STATION NAME	DIRECTION	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	---- PEAK HOUR ----		----- DESIGN HOUR -----			
				VOLUME	% OF AADT	VOLUME	% OF AADT	VOLUME OPPOSITE DIR	DIRECTIONAL DISTRIBUTION
INTERSTATE RURAL - I-94									
207	MEDINA	EAST	4303	750	17.4%	590	13.7%	690	46-54
		WEST	4211	700	16.6%	594	14.1%	586	50-50
		EAST & WEST	8514	1,428	16.8%	1151	13.5%		
223	NEW SALEM	EAST	4399	606	13.8%	518	11.8%	245	68-32
		WEST	4368	545	12.5%	405	9.3%	364	53-47
		EAST & WEST	8767	1,011	11.5%	821	9.4%		
245	TOWER CITY	EAST	5746	939	16.3%	746	13.0%	541	58-42
		WEST	5737	843	14.7%	727	12.7%	699	51-49
		EAST & WEST	11483	1,677	14.6%	1448	12.6%		
279	PAINTED CANYON	EAST	2501	504	20.2%	357	14.3%	360	50-50
		WEST	2422	552	22.8%	377	15.6%	281	57-43
		EAST & WEST	4923	828	16.8%	702	14.3%		
INTERSTATE RURAL - I-29									
211	BUXTON	NORTH	5796	1,505	26.0%	706	12.2%	562	56-44
		SOUTH	5786	1,187	20.5%	684	11.8%	497	58-42
		NORTH & SOUTH	11582	2,112	18.2%	1325	11.4%		
243	BOWESMONT	NORTH	1183	160	13.5%	140	11.8%	60	70-30
		SOUTH	1158	177	15.3%	141	12.2%	55	72-28
		NORTH & SOUTH	2341	280	12.0%	245	10.5%		
265	MOORETON	NORTH	3501	494	14.1%	405	11.6%	294	58-42
		SOUTH	3517	500	14.2%	390	11.1%	339	53-47
		NORTH & SOUTH	7018	909	13.0%	763	10.9%		
285	DAVENPORT	NORTH	5978	671	11.2%	632	10.6%	679	48-52
		SOUTH	6009	833	13.9%	737	12.3%	488	60-40
		NORTH & SOUTH	11987	1,387	11.6%	1281	10.7%		
INTERSTATE URBAN - I-94									
217	FARGO (U)	EAST	35637	4,604	12.9%	4328	12.1%	3210	57-43
		WEST	36358	3,991	11.0%	3840	10.6%	2080	65-35
		EAST & WEST	71995	7,862	10.9%	7510	10.4%		
283	BISMARCK (U)	EAST	14377	1,617	11.2%	1506	10.5%	1467	51-49
		WEST	14180	1,740	12.3%	1591	11.2%	1324	55-45
		EAST & WEST	28557	3,287	11.5%	3062	10.7%		
INTERSTATE URBAN - I-29									
235	FARGO (U)	NORTH	17186	2,169	12.6%	1913	11.1%	1891	50-50
		SOUTH	16421	2,079	12.7%	1897	11.6%	1871	50-50
		NORTH & SOUTH	33607	4,055	12.1%	3764	11.2%		
PRINCIPAL ARTERIAL RURAL									
201	RAY	EAST	2282	304	13.3%	249	10.9%	237	51-49
		WEST	2283	327	14.3%	253	11.1%	241	51-49
		EAST & WEST	4565	587	12.9%	473	10.4%		
203	MAX	NORTH	2397	426	17.8%	341	14.2%	176	66-34

**PERMANENT STATION
PEAK HOUR & DESIGN HOUR
STATISTICS FOR 2021**

STATION NUMBER	STATION NAME	DIRECTION	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	---- PEAK HOUR ----		----- DESIGN HOUR -----			
				VOLUME	% OF AADT	VOLUME	% OF AADT	VOLUME OPPOSITE DIR	DIRECTIONAL DISTRIBUTION
PRINCIPAL ARTERIAL RURAL									
203	MAX	SOUTH	2376	424	17.8%	318	13.4%	272	54-46
		NORTH & SOUTH	4773	731	15.3%	600	12.6%		
205	GWINNER	EAST	573	130	22.7%	114	19.9%	22	84-16
		WEST	586	154	26.3%	136	23.2%	36	79-21
		EAST & WEST	1159	209	18.0%	175	15.1%		
215	JAMESTOWN	EAST	1660	270	16.3%	195	11.7%	146	57-43
		WEST	1629	246	15.1%	178	10.9%	142	56-44
		EAST & WEST	3289	436	13.3%	349	10.6%		
219	MANDAN	NORTH	943	137	14.5%	106	11.2%	37	74-26
		SOUTH	941	219	23.3%	123	13.1%	55	69-31
		NORTH & SOUTH	1884	298	15.8%	208	11.0%		
221	FAIRFIELD	NORTH	1361	161	11.8%	141	10.4%	174	45-55
		SOUTH	1380	220	15.9%	175	12.7%	98	64-36
		NORTH & SOUTH	2741	335	12.2%	288	10.5%		
229	COOPERSTOWN	EAST	440	154	35.0%	59	13.4%	59	50-50
		WEST	420	208	49.5%	59	14.0%	32	65-35
		EAST & WEST	860	238	27.7%	108	12.6%		
233	FOXHOLM	EAST	1037	141	13.6%	112	10.8%	50	69-31
		WEST	1070	148	13.8%	124	11.6%	96	56-44
		EAST & WEST	2107	247	11.7%	213	10.1%		
237	NEKOMA	NORTH	415	63	15.2%	54	13.0%	33	62-38
		SOUTH	422	73	17.3%	57	13.5%	48	54-46
		NORTH & SOUTH	837	123	14.7%	103	12.3%		
239	NEW TOWN	EAST	2409	302	12.5%	246	10.2%	243	50-50
		WEST	2435	285	11.7%	258	10.6%	199	56-44
		EAST & WEST	4844	555	11.5%	488	10.1%		
241	BOTTINEAU	EAST	599	143	23.9%	91	15.2%	23	80-20
		WEST	622	135	21.7%	81	13.0%	51	61-39
		EAST & WEST	1221	208	17.0%	149	12.2%		
251	HAGUE	NORTH	416	82	19.7%	54	13.0%	38	59-41
		SOUTH	418	103	24.6%	55	13.2%	34	62-38
		NORTH & SOUTH	834	132	15.8%	100	12.0%		
253	RUGBY	EAST	1357	249	18.3%	170	12.5%	142	54-46
		WEST	1348	260	19.3%	179	13.3%	162	52-48
		EAST & WEST	2705	403	14.9%	323	11.9%		
255	CROSBY	EAST	374	83	22.2%	50	13.4%	23	68-32
		WEST	376	66	17.6%	46	12.2%	26	64-36
		EAST & WEST	750	114	15.2%	86	11.5%		
257	WILLISTON	EAST	868	174	20.0%	98	11.3%	89	52-48
		WEST	897	239	26.6%	118	13.2%	74	61-39
		EAST & WEST	1765	308	17.5%	188	10.7%		
261	CARRINGTON	NORTH	843	169	20.0%	109	12.9%	99	52-48
		SOUTH	844	431	51.1%	101	12.0%	111	48-52

**PERMANENT STATION
PEAK HOUR & DESIGN HOUR
STATISTICS FOR 2021**

STATION NUMBER	STATION NAME	DIRECTION	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	---- PEAK HOUR ----		----- DESIGN HOUR -----			
				VOLUME	% OF AADT	VOLUME	% OF AADT	VOLUME OPPOSITE DIR	DIRECTIONAL DISTRIBUTION
PRINCIPAL ARTERIAL RURAL									
261	CARRINGTON	NORTH & SOUTH	1687	441	26.1%	195	11.6%		
273	NEW LEIPZIG	EAST	181	67	37.0%	28	15.5%	18	61-39
		WEST	183	53	29.0%	29	15.8%	30	49-51
		EAST & WEST	364	85	23.4%	50	13.7%		
281	SAWYER	EAST	2357	412	17.5%	340	14.4%	183	65-35
		WEST	2397	369	15.4%	352	14.7%	103	77-23
		EAST & WEST	4754	558	11.7%	523	11.0%		
297	WILLISTON NW	NORTH	1684	358	21.3%	192	11.4%	177	52-48
		SOUTH	1719	277	16.1%	201	11.7%	169	54-46
		NORTH & SOUTH	3403	469	13.8%	376	11.0%		
299	KILLDEER200W	EAST	739	116	15.7%	97	13.1%	83	54-46
		WEST	743	103	13.9%	89	12.0%	77	54-46
		EAST & WEST	1482	194	13.1%	170	11.5%		
303	MICHIGAN	EAST	1840	378	20.5%	300	16.3%	178	63-37
		WEST	1828	358	19.6%	272	14.9%	201	58-42
		EAST & WEST	3668	619	16.9%	496	13.5%		
307	WASHBURN	NORTH	2659	524	19.7%	381	14.3%	217	64-36
		SOUTH	2645	460	17.4%	352	13.3%	232	60-40
		NORTH & SOUTH	5304	784	14.8%	645	12.2%		
309	NEWTOWN EAST	EAST	2026	369	18.2%	323	15.9%	120	73-27
		WEST	2005	259	12.9%	233	11.6%	95	71-29
		EAST & WEST	4031	530	13.1%	472	11.7%		
311	WILLISTON 2N	EAST	3700	494	13.4%	380	10.3%	326	54-46
		WEST	3678	476	12.9%	402	10.9%	406	50-50
		EAST & WEST	7378	926	12.6%	754	10.2%		
315	RYDER E23	EAST	1085	190	17.5%	161	14.8%	78	67-33
		WEST	1063	178	16.7%	129	12.1%	22	85-15
		EAST & WEST	2148	297	13.8%	250	11.6%		
337	BLAISDELL E2	EAST	1952	352	18.0%	276	14.1%	136	67-33
		WEST	1965	296	15.1%	247	12.6%	42	85-15
		EAST & WEST	3917	436	11.1%	390	10.0%		
339	GRASSY BUTTE	NORTH	1420	194	13.7%	147	10.4%	129	53-47
		SOUTH	1414	199	14.1%	170	12.0%	141	55-45
		NORTH & SOUTH	2834	341	12.0%	295	10.4%		
341	ALEXANDER85W	NORTH	2438	320	13.1%	282	11.6%	188	60-40
		SOUTH	2445	312	12.8%	255	10.4%	136	65-35
		NORTH & SOUTH	4883	551	11.3%	493	10.1%		
343	WATFORD E23	EAST	1871	368	19.7%	329	17.6%	68	83-17
		WEST	1853	372	20.1%	318	17.2%	115	73-27
		EAST & WEST	3724	489	13.1%	441	11.8%		
345	WILLIAMS N85	NORTH	976	151	15.5%	117	12.0%	75	61-39
		SOUTH	943	152	16.1%	115	12.2%	118	49-51

**PERMANENT STATION
PEAK HOUR & DESIGN HOUR
STATISTICS FOR 2021**

STATION NUMBER	STATION NAME	DIRECTION	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	---- PEAK HOUR ----		----- DESIGN HOUR -----			
				VOLUME	% OF AADT	VOLUME	% OF AADT	VOLUME OPPOSITE DIR	DIRECTIONAL DISTRIBUTION
PRINCIPAL ARTERIAL RURAL									
345	WILLIAMS N85	NORTH & SOUTH	1919	242	12.6%	212	11.0%		
349	BEULAH S49	NORTH	763	130	17.0%	102	13.4%	84	55-45
		SOUTH	766	145	18.9%	104	13.6%	36	74-26
		NORTH & SOUTH	1529	200	13.1%	178	11.6%		
351	COLUMBUS W5	EAST	257	91	35.4%	39	15.2%	26	60-40
		WEST	258	58	22.5%	37	14.3%	32	54-46
		EAST & WEST	515	92	17.9%	67	13.0%		
353	GRANVILLE E2	EAST	1349	235	17.4%	177	13.1%	114	61-39
		WEST	1339	220	16.4%	168	12.5%	77	69-31
		EAST & WEST	2688	411	15.3%	310	11.5%		
355	MOHALL W5	EAST	358	61	17.0%	51	14.2%	45	53-47
		WEST	355	84	23.7%	49	13.8%	22	69-31
		EAST & WEST	713	107	15.0%	82	11.5%		
419	EMERADO W2	EAST	3013	491	16.3%	330	11.0%	210	61-39
		WEST	2985	475	15.9%	348	11.7%	238	59-41
		EAST & WEST	5998	889	14.8%	592	9.9%		
423	HARVEY N3	SOUTH	294	45	15.3%	33	11.2%		-
429	LAKOTA S1	NORTH	301	129	42.9%	48	15.9%	30	62-38
		SOUTH	309	118	38.2%	54	17.5%	26	68-33
		NORTH & SOUTH	610	162	26.6%	94	15.4%		
447	DUNSEITH E	NORTH	1387	208	15.0%	144	10.4%	49	75-25
		SOUTH	1407	221	15.7%	192	13.6%	125	61-39
		NORTH & SOUTH	2794	359	12.8%	319	11.4%		
449	SHEYENNE N	NORTH	522	77	14.8%	50	9.6%	31	62-38
		SOUTH	522	81	15.5%	51	9.8%	42	55-45
		NORTH & SOUTH	1044	120	11.5%	93	8.9%		
MINOR ARTERIAL RURAL									
231	GRAFTON	EAST	1223	278	22.7%	148	12.1%	81	65-35
		WEST	1225	321	26.2%	171	14.0%	116	60-40
		EAST & WEST	2448	357	14.6%	291	11.9%		
247	COURTENAY	NORTH	234	92	39.3%	40	17.1%	16	71-29
		SOUTH	230	62	27.0%	36	15.7%	20	64-36
		NORTH & SOUTH	464	111	23.9%	64	13.8%		
249	GARRISON	EAST	863	189	21.9%	130	15.1%	69	65-35
		WEST	858	198	23.1%	136	15.9%	96	59-41
		EAST & WEST	1721	315	18.3%	245	14.2%		
275	HANNOVER	NORTH	347	84	24.2%	47	13.5%	39	55-45
		SOUTH	341	63	18.5%	46	13.5%	27	63-37
		NORTH & SOUTH	688	116	16.9%	84	12.2%		
289	MANNING	NORTH	2042	430	21.1%	369	18.1%	104	78-22
		SOUTH	2027	403	19.9%	350	17.3%	110	76-24

**PERMANENT STATION
PEAK HOUR & DESIGN HOUR
STATISTICS FOR 2021**

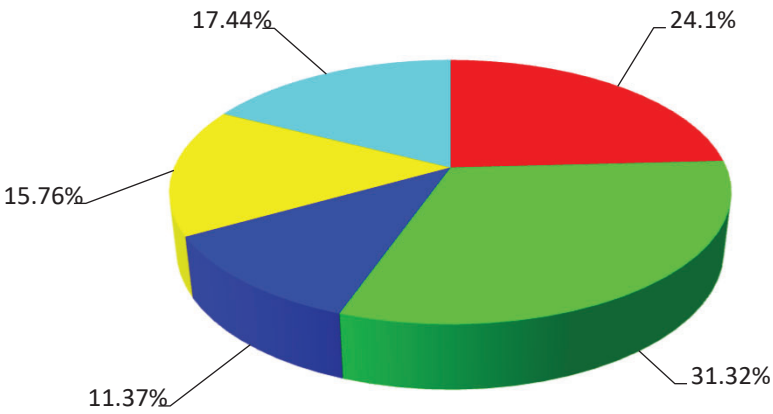
STATION NUMBER	STATION NAME	DIRECTION	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	---- PEAK HOUR ----		----- DESIGN HOUR -----			
				VOLUME	% OF AADT	VOLUME	% OF AADT	VOLUME OPPOSITE DIR	DIRECTIONAL DISTRIBUTION
MINOR ARTERIAL RURAL									
289	MANNING	NORTH & SOUTH	4069	537	13.2%	490	12.0%		
291	MARMARTH	EAST	337	73	21.7%	54	16.0%	26	68-33
		WEST	336	72	21.4%	53	15.8%	39	58-42
		EAST & WEST	673	117	17.4%	93	13.8%		
293	KILLDEER	NORTH	1530	299	19.5%	251	16.4%	51	83-17
		SOUTH	1521	295	19.4%	253	16.6%	101	71-29
		NORTH & SOUTH	3051	390	12.8%	353	11.6%		
295	NECHE	NORTH	162	28	17.3%	19	11.7%	14	58-42
		SOUTH	164	35	21.3%	22	13.4%	6	79-21
		NORTH & SOUTH	326	48	14.7%	38	11.7%		
373	DICKINSON22S	NORTH	862	126	14.6%	98	11.4%		-
453	OAKES S1	NORTH	624	103	16.5%	73	11.7%	47	61-39
		SOUTH	620	109	17.6%	84	13.5%	67	56-44
		NORTH & SOUTH	1244	192	15.4%	149	12.0%		
461	THOMPSON W15	EAST	834	124	14.9%	113	13.5%	47	71-29
		WEST	781	156	20.0%	120	15.4%	68	64-36
		EAST & WEST	1615	245	15.2%	202	12.5%		
727	ENDERLIN E46	EAST	971	159	16.4%	120	12.4%	93	56-44
		WEST	956	172	18.0%	122	12.8%	95	56-44
		EAST & WEST	1927	261	13.5%	230	11.9%		
MAJOR COLLECTOR - COUNTY									
101	MINOT55ST NE	NORTH	1302	192	14.7%	168	12.9%	171	50-50
		SOUTH	1349	246	18.2%	194	14.4%	154	56-44
		NORTH & SOUTH	2651	414	15.6%	346	13.1%		
103	MINOT46AV NE	EAST	613	122	19.9%	103	16.8%	76	58-42
		WEST	605	140	23.1%	109	18.0%	77	59-41
		EAST & WEST	1218	206	16.9%	176	14.4%		
225	STERLING	EAST	442	84	19.0%	65	14.7%	38	63-37
		WEST	420	115	27.4%	52	12.4%	11	83-17
		EAST & WEST	862	137	15.9%	106	12.3%		
259	AYR	EAST	184	62	33.7%	29	15.8%	9	76-24
		WEST	186	53	28.5%	31	16.7%	20	61-39
		EAST & WEST	370	67	18.1%	54	14.6%		
277	REGENT	NORTH	154	32	20.8%	25	16.2%	23	52-48
		SOUTH	160	66	41.3%	28	17.5%	23	55-45
		NORTH & SOUTH	314	72	22.9%	48	15.3%		
MAJOR COLLECTOR - STATE									
267	TRENTON	NORTH	1881	225	12.0%	182	9.7%	131	58-42
		SOUTH	1867	252	13.5%	217	11.6%	175	55-45
		NORTH & SOUTH	3748	434	11.6%	372	9.9%		

**PERMANENT STATION
PEAK HOUR & DESIGN HOUR
STATISTICS FOR 2021**

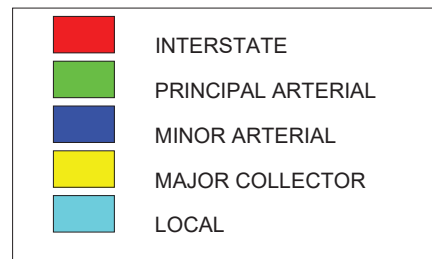
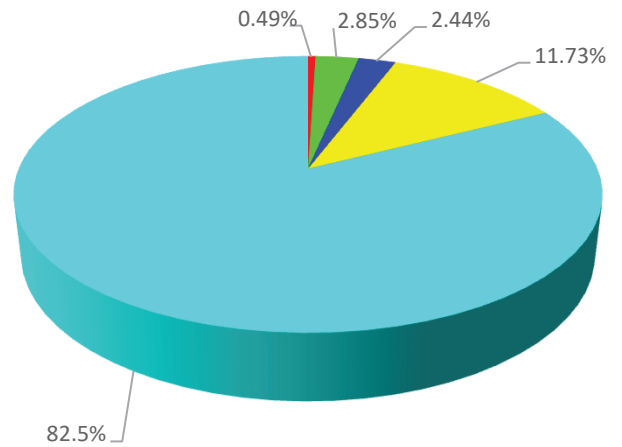
STATION NUMBER	STATION NAME	DIRECTION	ANNUAL AVERAGE DAILY TRAFFIC (AADT)	---- PEAK HOUR ----		----- DESIGN HOUR -----			
				VOLUME	% OF AADT	VOLUME	% OF AADT	VOLUME OPPOSITE DIR	DIRECTIONAL DISTRIBUTION
MAJOR COLLECTOR - STATE									
493	ST THOMAS W	EAST	309	88	28.5%	65	21.0%	51	56-44
		WEST	302	95	31.5%	58	19.2%	63	48-52
		EAST & WEST	611	174	28.5%	121	19.8%		
783	KULM S56	NORTH	96	39	40.6%	19	19.8%	5	79-21
		SOUTH	101	24	23.8%	18	17.8%	9	67-33
		NORTH & SOUTH	197	45	22.8%	32	16.2%		
PRINCIPAL ARTERIAL URBAN									
287	GRAND FORKS	NORTH	11159	1,244	11.1%	1154	10.3%	714	62-38
		SOUTH	10933	1,297	11.9%	1215	11.1%	1147	51-49
		NORTH & SOUTH	22092	2,491	11.3%	2327	10.5%		
501	FARGO (U)	NORTH	11182	1,353	12.1%	1286	11.5%	749	63-37
		SOUTH	12993	1,645	12.7%	1496	11.5%	1004	60-40
		NORTH & SOUTH	24175	2,634	10.9%	2500	10.3%		
503	BISMARCK (U)	EAST	6862	893	13.0%	825	12.0%	651	56-44
		WEST	6651	822	12.4%	744	11.2%	752	50-50
		EAST & WEST	13513	1,608	11.9%	1511	11.2%		
513	WFARGO MAIN (U)	EAST	3281	665	20.3%	456	13.9%	225	67-33
		WEST	3078	674	21.9%	505	16.4%	312	62-38
		EAST & WEST	6359	1,277	20.1%	879	13.8%		
603	WILLISTON (U)	EAST	3017	357	11.8%	325	10.8%	271	55-45
		WEST	3126	433	13.9%	336	10.7%	334	50-50
		EAST & WEST	6143	742	12.1%	643	10.5%		
605	MANDAN (U)	EAST	9029	1,022	11.3%	893	9.9%	1067	46-54
		WEST	9683	1,230	12.7%	1113	11.5%	843	57-43
		EAST & WEST	18712	2,186	11.7%	1960	10.5%		
MINOR ARTERIAL-URBAN									
607	DICKINSON (U)	EAST	1506	297	19.7%	215	14.3%	167	56-44
		WEST	1610	251	15.6%	226	14.0%	101	69-31
		EAST & WEST	3116	420	13.5%	387	12.4%		
611	MINOT (U)	EAST	1005	178	17.7%	142	14.1%	75	65-35
		WEST	1075	209	19.4%	136	12.7%	99	58-42
		EAST & WEST	2080	304	14.6%	247	11.9%		
COLLECTOR URBAN									
609	MINOT (U)	EAST	1281	207	16.2%	150	11.7%	132	53-47
		WEST	1243	194	15.6%	155	12.5%	142	52-48
		EAST & WEST	2524	335	13.3%	292	11.6%		

2021 COMPARISON OF VEHICLE MILES TO RURAL ROAD MILES

Vehicle Miles Traveled



Rural Road Miles

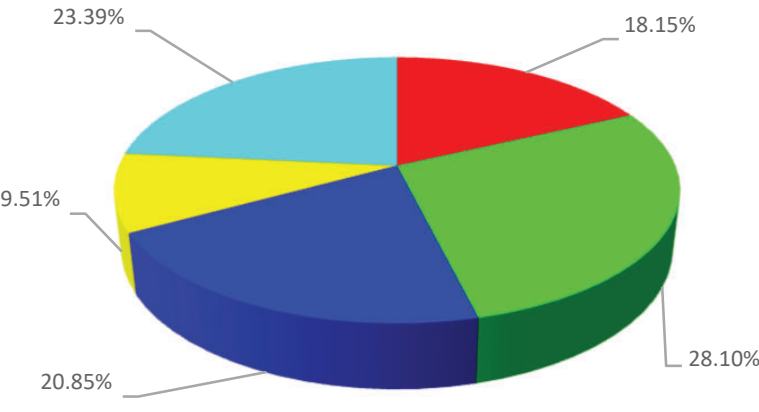


Interesting Facts:

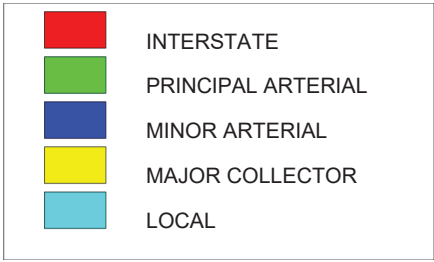
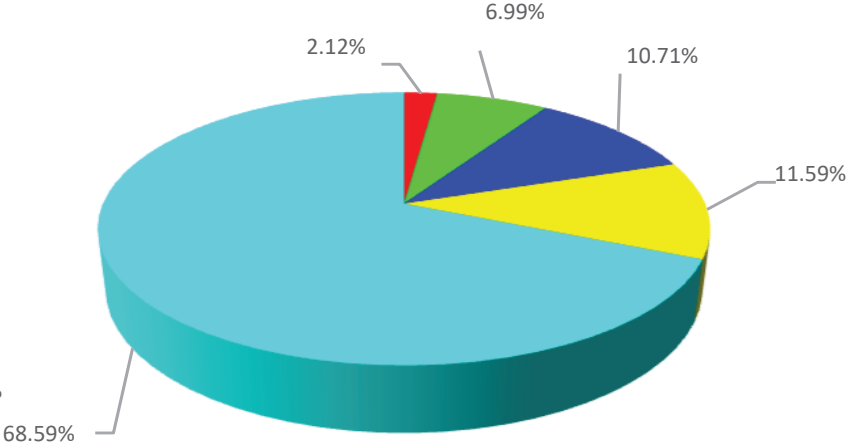
- Local roads comprise about 83% of the roads in the state but only carry about 17% of the traffic.
- Interstates comprise less than 1% of the roads but carry around 24% of the traffic.
- Principal Arterials comprise less than 3% of the roads but carry about 31% of the traffic.

2021 COMPARISON OF VEHICLE MILES TO URBAN ROAD MILES

Vehicle Miles Traveled



Urban Road Miles



Interesting Facts:
 -Local roads comprise about 69% of the urban roads in the state but only carry about 23% of the traffic.

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
SUMMARY OF 2021 EXISTING MILEAGE OF NORTH DAKOTA ROADS AND STREETS
CLASSIFIED BY SYSTEMS**

SYSTEM	SURFACED MILEAGE HARD SURFACES			UNSURFACED MILEAGE		NHS HARD SURFACES	
	BITUMINOUS	CONCRETE	GRAVEL	GRADED/ DRAINED	UNIMPROVED ROADS	TOTALS	
STATE							
INTERSTATE RURAL	247.2	262.5	0.0	0.0	0.0	509.7	509.7
INTERSTATE URBAN	23.0	38.2	0.0	0.0	0.0	61.2	61.2
TOTAL	270.2	300.7	0.0	0.0	0.0	570.9	570.9
PRINCIPAL ARTERIAL RURAL	2,792.6	151.0	0.0	0.0	0.0	2,943.6	2,943.6
PRINCIPAL ARTERIAL URBAN	91.9	67.5	0.0	0.0	0.0	159.4	159.4
TOTAL	2,884.5	218.5	0.0	0.0	0.0	3,103.0	3,103.0
MINOR ARTERIAL RURAL	2,523.7	1.4	0.0	0.0	0.0	2,525.1	
MINOR ARTERIAL URBAN	14.8	3.4	0.0	0.0	0.0	18.2	
TOTAL	2,538.5	4.8	0.0	0.0	0.0	2,543.3	
MAJOR COLLECTOR	1,137.4	17.2	0.0	0.0	0.0	1,154.6	
TOTAL	1,137.4	17.2	0.0	0.0	0.0	1,154.6	
LOCAL RURAL	39.0	0.0	0.9	0.0	0.0	39.9	
LOCAL URBAN	3.7	0.0	0.0	0.0	0.0	3.7	
TOTAL	42.7	0.0	0.9	0.0	0.0	43.6	
TOTAL STATE HIGHWAY SYSTEM	6,873.3	541.2	0.9	0.0	0.0	7,415.4	3,673.9
COUNTY							
	<u>PAVED</u>		<u>GRAVEL</u>	<u>GRADED/ DRAINED</u>	<u>UNIMPROVED ROADS</u>	<u>TOTALS</u>	
MAJOR COLLECTOR RURAL	4,668.0		6,073.9	0.8	3.2	10,745.9	
MAJOR COLLECTOR CITY	205.4		44.2	0.0	0.0	249.6	
TOTAL	4,873.4		6,118.1	0.8	3.2	10,995.5	
PRINCIPAL ARTERIAL RURAL	2.6		0.0	0.0	0.0	2.6	2.6
TOTAL	2.6		0.0	0.0	0.0	2.6	
MINOR ARTERIAL RURAL	0.6		0.0	0.0	0.0	0.6	
TOTAL	0.6		0.0	0.0	0.0	0.6	
LOCAL RURAL ROADS	1,034.6		50,587.7	8,277.1	23,294.6	83,194.0	
LOCAL ROADS CITY	1,229.9		890.7	42.4	72.6	2,235.6	
TOTAL	2,264.5		51,478.4	8,319.5	23,367.2	85,429.6	
TOTAL COUNTY SYSTEM	7,141.1		57,596.5	8,320.3	23,370.4	96,428.3	
URBAN							
PRINCIPAL ARTERIAL	46.6		1.0	0.0	0.0	47.6	44.0
MINOR ARTERIAL	290.8		5.0	0.0	0.0	295.8	
COLLECTOR	329.5		7.3	0.0	0.0	336.8	
LOCAL	1,713.0		255.1	18.1	19.9	2,006.2	
TOTAL URBAN SYSTEM	2,379.9		268.4	18.1	19.9	2,686.3	
TOTAL RURAL ROADS	13,156.8		56,821.2	8,287.8	23,310.8	101,576.6	
TOTAL CITY STREETS	3,778.6		1,044.6	50.6	79.6	4,953.4	
TOTAL	16,935.4		57,865.8	8,338.4	23,390.4	106,530.0	
TOTAL NHS							3,721.5

FUNCTIONAL CLASS SYSTEM

SYSTEM	RURAL	URBAN	TOTAL
INTERSTATE	509.7	61.2	570.9
PRINCIPAL	2,950.3	202.8	3,153.1
MINOR	2,563.4	276.3	2,839.7
COLLECTOR	11,941.9	545.0	12,486.9
LOCAL	83,611.3	3,868.1	87,479.4
TOTAL	101,576.6	4,953.4	106,530.0

2021 URBAN ANNUAL VEHICLE MILES OF TRAVEL BY FUNCTIONAL CLASS
 (VEHICLE MILES OF TRAVEL SHOWN IN THOUSANDS)

CITY	INTERSTATE	PRINCIPAL ARTERIAL	MINOR ARTERIAL	COLLECTOR	LOCAL STREETS	TOTAL
BISMARCK	51,643	222,584	91,284	67,372	78,906	511,789
DEVILS LAKE		17,222	5,909	6,631	5,247	35,009
DICKINSON	15,908	32,399	33,616	15,112	33,249	130,284
FARGO/West Fargo	339,632	175,885	284,541	81,557	307,036	1,188,652
GRAND FORKS	30,655	117,227	50,917	37,347	62,232	298,379
JAMESTOWN	19,066	22,925	10,368	9,874	14,305	76,538
MANDAN	68,007	42,264	34,885	10,057	18,806	174,019
MINOT		124,000	63,920	24,798	102,745	315,463
VALLEY CITY	15,538	5,311	6,442	4,815	6,250	38,356
WAHPETON		11,497	6,918	4,198	11,860	34,474
WILLISTON		66,810	31,832	21,377	55,632	175,650
TOTAL	540,450	838,124	620,633	283,139	696,268	2,978,614

If a particular city has no mileage entry for Interstate, it means there are no Interstates in that city.

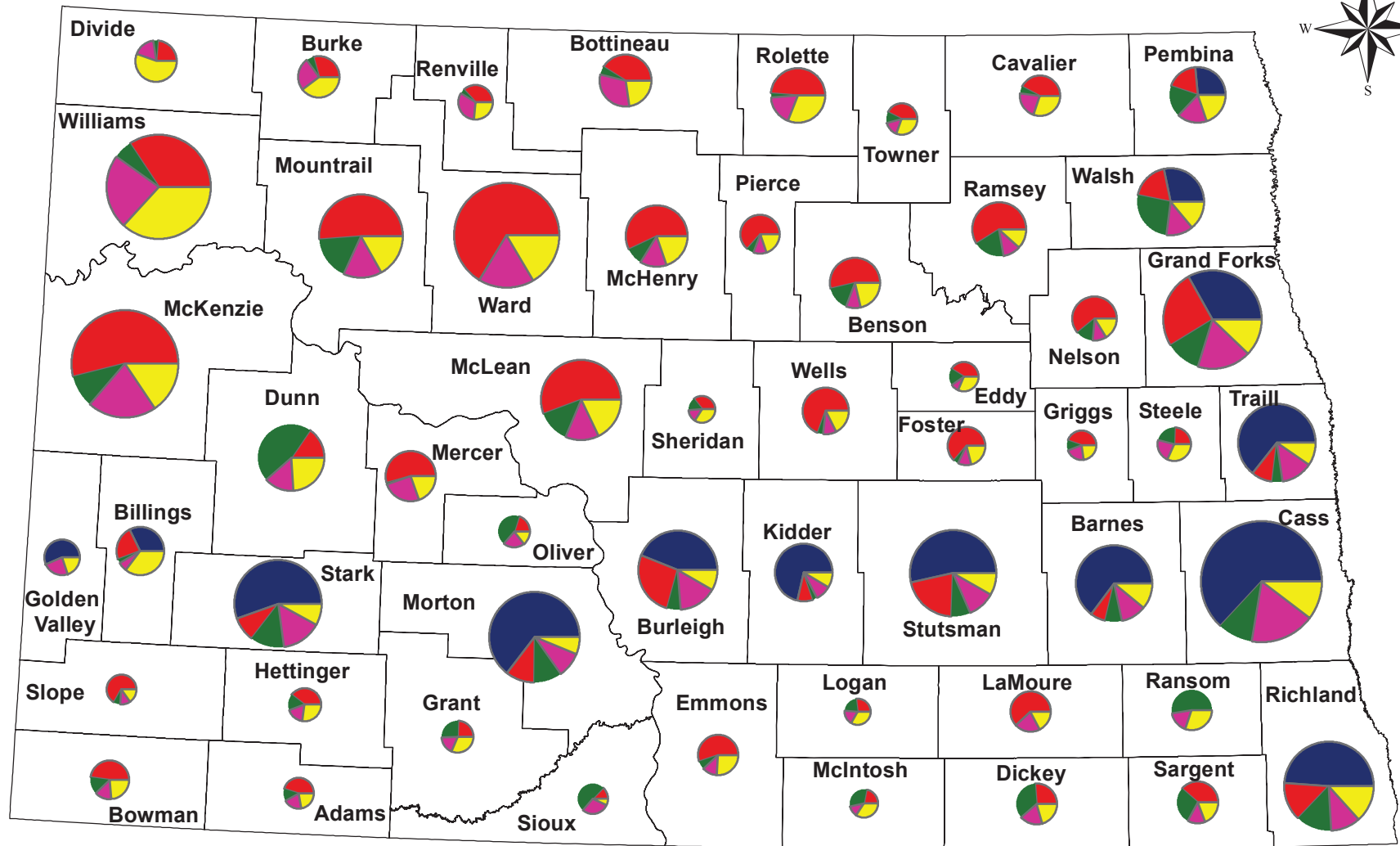
**2021 RURAL ANNUAL VEHICLE MILES OF TRAVEL BY FUNCTIONAL CLASS
(VEHICLE MILES OF TRAVEL SHOWN IN THOUSANDS)**

COUNTY	INTERSTATE	PRINCIPAL ARTERIAL	MINOR ARTERIAL	COLLECTOR	LOCAL ROADS	TOTAL
Adams		13,827	4,005	6,045	6,797	30,673
Barnes	124,177	12,198	13,785	20,631	20,754	191,545
Benson		44,513	12,748	7,838	17,706	82,806
Billings	24,679	17,680	2,080	4,714	26,927	76,079
Bottineau		36,797	4,884	27,745	20,348	89,774
Bowman		23,373	6,909	6,777	11,603	48,662
Burke		16,889	3,097	14,615	22,637	57,238
Burleigh	90,683	55,627	11,511	32,496	16,844	207,162
Cass	304,806		44,916	82,917	49,925	482,564
Cavalier		22,570	2,886	11,495	16,122	53,073
Dickey		14,389	19,537	10,029	11,394	55,349
Divide		13,359	1,926	9,685	31,146	56,116
Dunn		22,456	67,979	21,290	35,096	146,820
Eddy		11,631	5,192	2,554	8,915	28,292
Emmons		29,321	3,643	6,494	13,803	53,261
Foster		29,975	1,936	5,383	9,896	47,190
Golden Valley	23,816			9,979	8,407	42,202
Grand Forks	105,674	81,729	36,529	56,644	38,792	319,369
Grant		8,170	9,125	5,979	10,626	33,900
Griggs		12,673	3,271	6,072	6,563	28,580
Hettinger		14,098	5,760	6,055	9,701	35,615
Kidder	78,148	9,701	2,556	9,357	9,595	109,356
LaMoure		33,215	481	10,863	9,399	53,958
Logan		6,098	4,941	4,022	7,498	22,559
McHenry		70,557	11,512	17,409	24,350	123,827
McIntosh		5,730	8,482	3,310	9,013	26,535
McKenzie		204,204	36,945	78,756	58,875	378,780
McLean		117,800	27,775	28,546	37,722	211,842
Mercer		45,394	869	20,928	16,481	83,672
Morton	174,218	27,662	26,605	24,236	16,696	269,418
Mountrail		116,970	38,796	33,983	38,780	228,528
Nelson		39,497	8,169	6,449	10,564	64,680
Oliver		6,779	14,686	7,351	4,829	33,645
Pembina	26,974	18,907	18,663	17,755	20,110	102,409
Pierce		31,833	2,927	5,473	9,987	50,218
Ramsey		56,273	17,908	10,260	11,273	95,715
Ransom			28,165	9,007	16,251	53,424
Renville		14,171	1,793	12,351	10,136	38,452
Richland	128,172	36,321	33,931	28,274	34,856	261,553
Rolette		47,561	2,607	16,981	30,395	97,544
Sargent		21,668	16,224	7,633	10,876	56,401
Sheridan		8,480	3,760	3,456	8,147	23,843
Sioux		3,854	15,580	8,850	2,171	30,455
Slope		19,702	2,137	3,160	4,523	29,521
Stark	140,093	22,854	31,336	37,232	20,458	251,973
Steele		8,926	7,858	8,325	11,673	36,782
Stutsman	131,026	51,322	17,571	24,685	20,393	244,996
Towner		13,769	3,707	4,972	9,901	32,350
Traill	127,724	17,588	8,379	26,101	18,917	198,709
Walsh	41,895	27,204	38,729	19,036	20,747	147,611
Ward		240,340	586	62,497	59,982	363,404
Wells		49,137	2,523	6,636	12,407	70,704
Williams		122,237	20,501	82,208	130,556	355,503
TOTAL	1,522,084	1,977,027	718,420	995,540	1,101,564	6,314,635

2021 ANNUAL VEHICLE MILES OF TRAVEL BY COUNTY
(VEHICLE MILES OF TRAVEL SHOWN IN THOUSANDS)

COUNTY	RURAL	URBAN	COUNTY TOTAL	PERCENT OF STATE TRAVEL
Adams	30,672.78		30,672.78	0.33%
Barnes	191,544.91	38,356.32	229,901.23	2.47%
Benson	82,805.90		82,805.90	0.89%
Billings	76,079.41		76,079.41	0.82%
Bottineau	89,774.38		89,774.38	0.97%
Bowman	48,662.19		48,662.19	0.52%
Burke	57,237.79		57,237.79	0.62%
Burleigh	207,161.87	511,789.13	718,950.99	7.74%
Cass	482,563.84	1,188,651.21	1,671,215.05	17.98%
Cavalier	53,072.65		53,072.65	0.57%
Dickey	55,348.98		55,348.98	0.60%
Divide	56,116.04		56,116.04	0.60%
Dunn	146,820.47		146,820.47	1.58%
Eddy	28,291.69		28,291.69	0.30%
Emmons	53,260.97		53,260.97	0.57%
Foster	47,190.03		47,190.03	0.51%
Golden Valley	42,201.83		42,201.83	0.45%
Grand Forks	319,368.54	298,379.31	617,747.85	6.65%
Grant	33,899.60		33,899.60	0.36%
Griggs	28,579.78		28,579.78	0.31%
Hettinger	35,615.01		35,615.01	0.38%
Kidder	109,356.33		109,356.33	1.18%
LaMoure	53,957.91		53,957.91	0.58%
Logan	22,559.20		22,559.20	0.24%
McHenry	123,827.43		123,827.43	1.33%
McIntosh	26,535.15		26,535.15	0.29%
McKenzie	378,780.48		378,780.48	4.08%
McLean	211,842.43		211,842.43	2.28%
Mercer	83,671.98		83,671.98	0.90%
Morton	269,417.56	174,019.05	443,436.61	4.77%
Mountrail	228,527.84		228,527.84	2.46%
Nelson	64,679.52		64,679.52	0.70%
Oliver	33,644.82		33,644.82	0.36%
Pembina	102,409.10		102,409.10	1.10%
Pierce	50,218.48		50,218.48	0.54%
Ramsey	95,714.90	35,008.89	130,723.78	1.41%
Ransom	53,423.61		53,423.61	0.57%
Renville	38,451.85		38,451.85	0.41%
Richland	261,553.09	34,474.06	296,027.15	3.19%
Rolette	97,542.90		97,542.90	1.05%
Sargent	56,400.55		56,400.55	0.61%
Sheridan	23,842.89		23,842.89	0.26%
Sioux	30,454.87		30,454.87	0.33%
Slope	29,520.92		29,520.92	0.32%
Stark	251,972.88	130,283.77	382,256.65	4.11%
Steele	36,781.91		36,781.91	0.40%
Stutsman	244,996.31	76,538.02	321,534.33	3.46%
Towner	32,349.75		32,349.75	0.35%
Traill	198,709.33		198,709.33	2.14%
Walsh	147,610.65		147,610.65	1.59%
Ward	363,404.13	315,463.33	678,867.46	7.30%
Wells	70,703.76		70,703.76	0.76%
Williams	355,502.67	175,650.13	531,152.80	5.72%
TOTAL	6,314,634.86	2,978,613.55	9,293,248.41	100.00%

2021 RURAL ANNUAL VEHICLE MILES OF TRAVEL BY FUNCTIONAL CLASSIFICATION



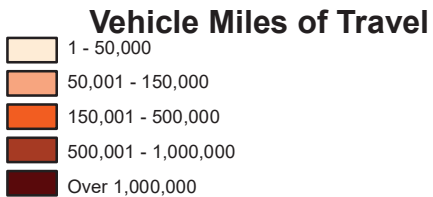
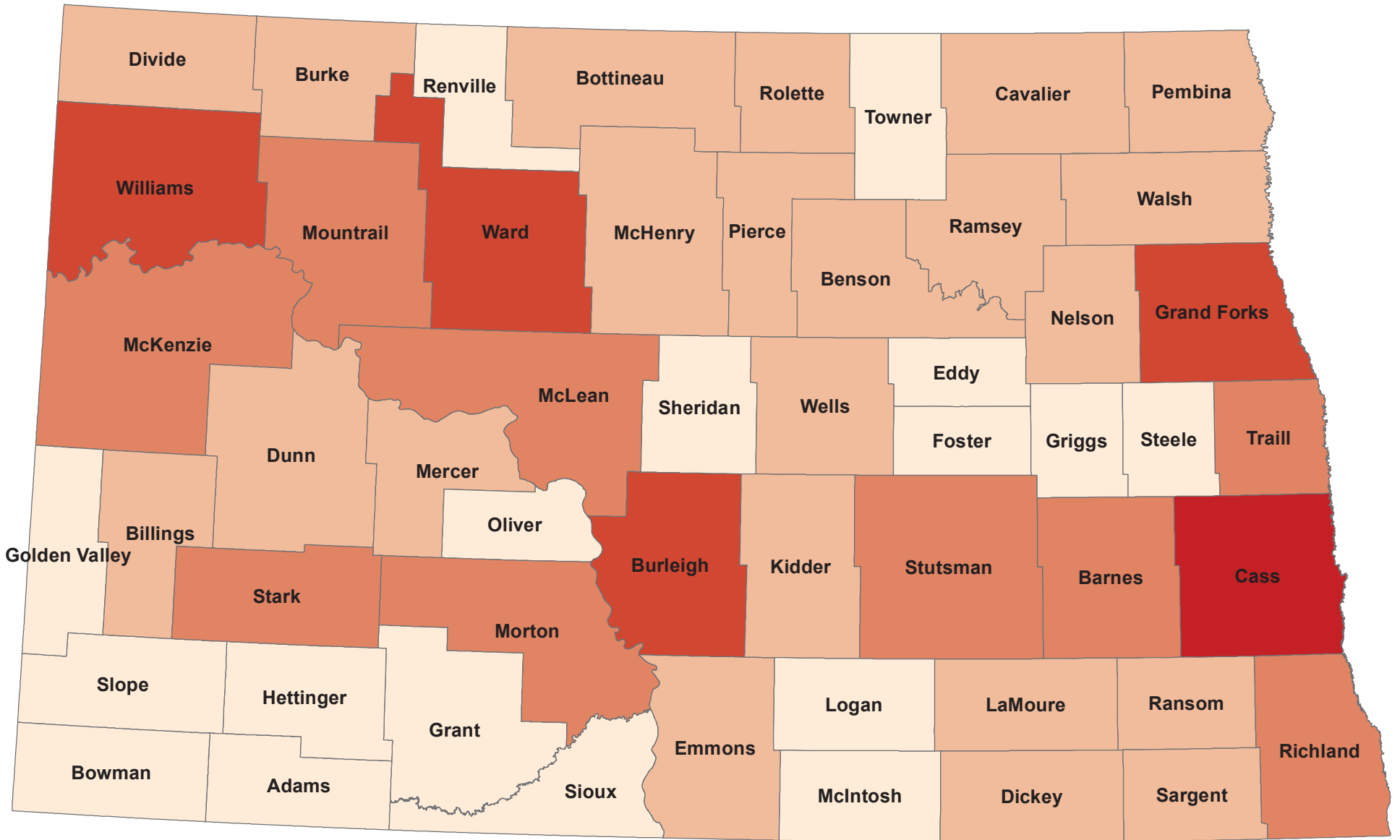
FUNCTIONAL CLASSES

- Interstate
- Principal Arterial
- Minor Arterial
- Major Collector
- Local Road

NOTES: - Data from page 47 of this report.
 - The size of each individual pie chart is representative of the total VMT in that county.

Planning & Asset Management Division
 Traffic Data Section
 June 2022

2021 TOTAL ANNUAL VEHICLE MILES OF TRAVEL



NOTES: - Data from page 48 of this report.
 - Vehicle miles of travel shown in thousands.

Planning & Asset Management Division
 Traffic Data Section
 June 2022

Statewide VMT

All State Highways

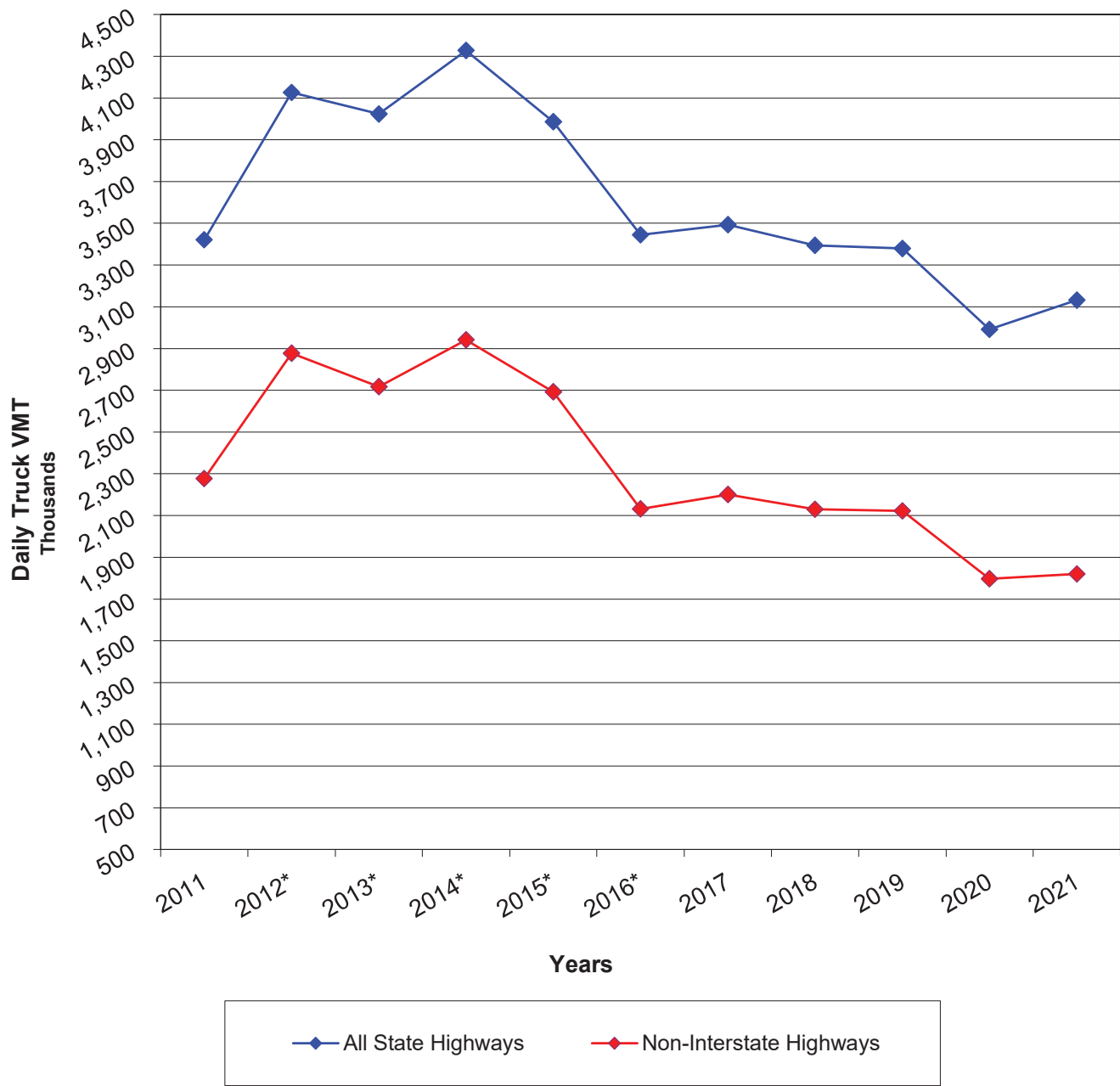
Years	Annual Daily VMT	Annual VMT	Annual Daily Truck VMT	Annual Truck VMT	% Total Trucks
2004	12,834,849	4,684,719,885	2,139,703	780,991,595	16.67%
2005	12,843,726	4,687,959,947	2,109,678	770,032,420	16.43%
2006	12,864,635	4,695,591,775	2,081,109	759,604,785	16.18%
2007	13,143,830	4,797,497,950	2,121,611	774,388,015	16.14%
2008	13,070,318	4,770,666,070	2,216,080	808,869,200	16.96%
2009	13,924,765	5,082,539,225	2,397,242	874,993,330	17.22%
2010	14,820,481	5,409,475,565	2,690,766	982,129,590	18.16%
2011	16,243,388	5,928,836,620	3,420,858	1,248,613,170	21.06%
2012*	18,188,950	6,638,966,750	4,126,648	1,506,226,520	22.69%
2013*	17,989,497	6,566,166,405	4,024,038	1,468,773,870	22.37%
2014*	18,522,863	6,760,844,995	4,327,820	1,579,654,300	23.36%
2015*	17,532,226	6,399,262,490	3,986,324	1,455,008,260	22.74%
2016*	16,825,387	6,141,266,255	3,444,562	1,257,265,130	20.47%
2017	16,621,979	6,067,022,335	3,493,544	1,275,143,560	21.02%
2018	17,109,024	6,244,793,760	3,393,625	1,238,673,125	19.84%
2019	17,038,483	6,219,046,295	3,379,279	1,233,436,835	19.33%
2020	14,313,898	5,224,572,617	2,991,744	1,091,986,560	20.90%
2021	15,471,834	5,647,219,309	3,131,639	1,143,048,347	20.24%

Non-Interstate Highways

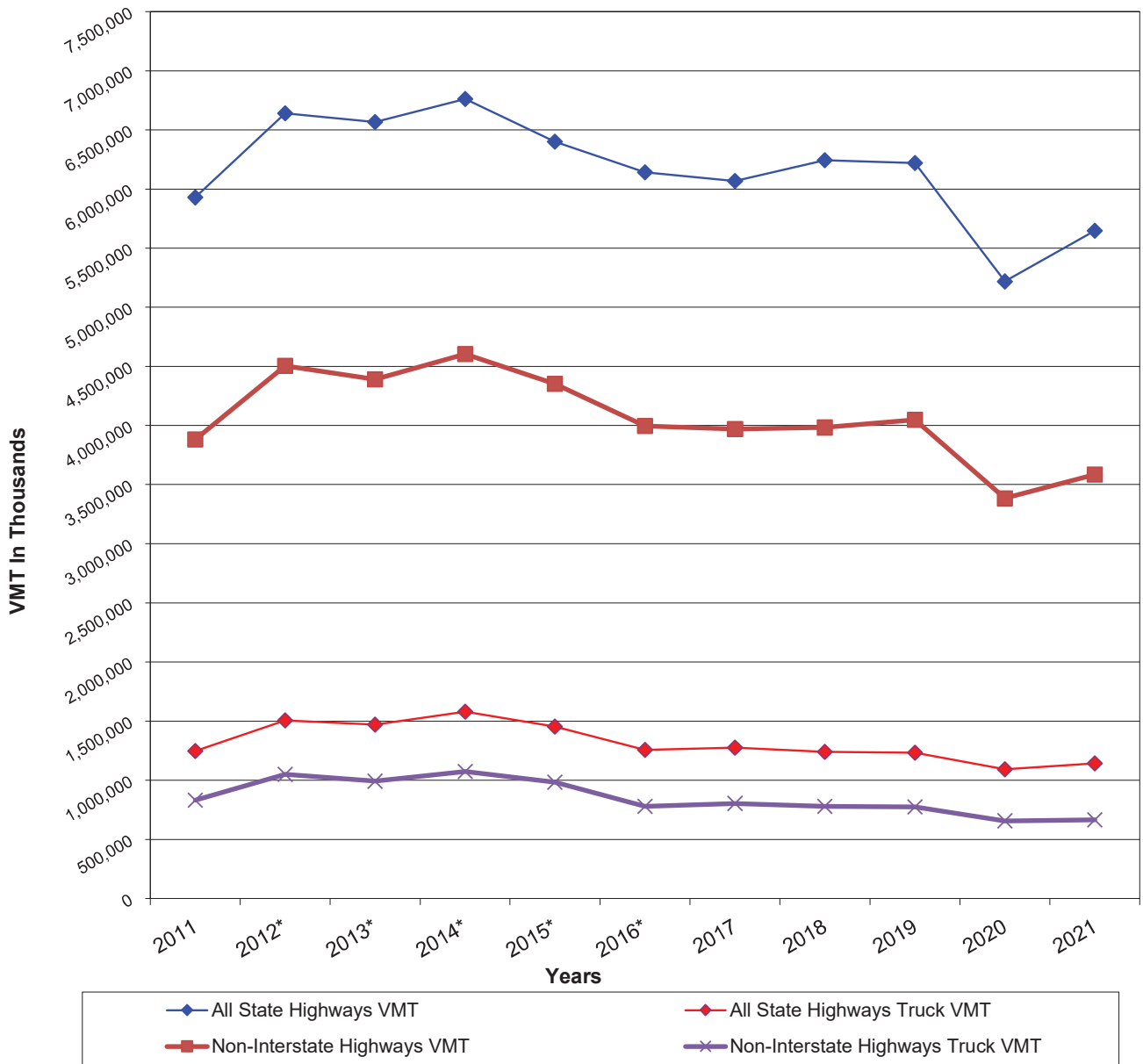
Years	Annual Daily VMT	Annual VMT	Annual Daily Truck VMT	Annual Truck VMT	% Total Trucks
2004	8,106,756	2,958,965,940	1,181,721	431,328,165	14.58%
2005	8,161,190	2,978,834,350	1,154,376	421,347,240	14.14%
2006	8,177,826	2,984,906,490	1,100,032	401,511,680	13.45%
2007	8,131,192	2,967,885,080	1,108,160	404,478,400	13.63%
2008	8,242,828	3,008,632,220	1,213,812	443,041,380	14.73%
2009	8,831,321	3,223,432,165	1,398,467	510,440,455	15.84%
2010	9,480,532	3,460,394,180	1,616,106	589,878,690	17.05%
2011	10,638,070	3,882,895,550	2,276,547	830,939,655	21.40%
2012*	12,340,661	4,504,341,265	2,877,575	1,050,314,875	23.32%
2013*	12,030,216	4,391,028,840	2,717,769	991,985,685	22.59%
2014*	12,615,780	4,604,759,700	2,941,677	1,073,712,105	23.32%
2015*	11,922,369	4,351,664,685	2,693,501	983,127,865	22.59%
2016*	10,948,786	3,996,306,890	2,131,866	778,131,090	19.47%
2017	10,878,158	3,970,527,670	2,200,746	803,272,290	20.23%
2018	10,912,447	3,983,043,155	2,130,594	777,666,810	19.52%
2019	11,090,717	4,048,111,705	2,122,462	774,698,630	17.83%
2020	9,633,503	3,516,228,936	1,797,530	656,098,450	18.66%
2021	9,821,055	3,584,685,249	1,820,145	664,353,056	18.53%

*VMT Numbers were revised because errors were found and corrected.

Annual Daily Truck VMT for Statewide



Annual VMT for Statewide



VMT for Interstate

I-94

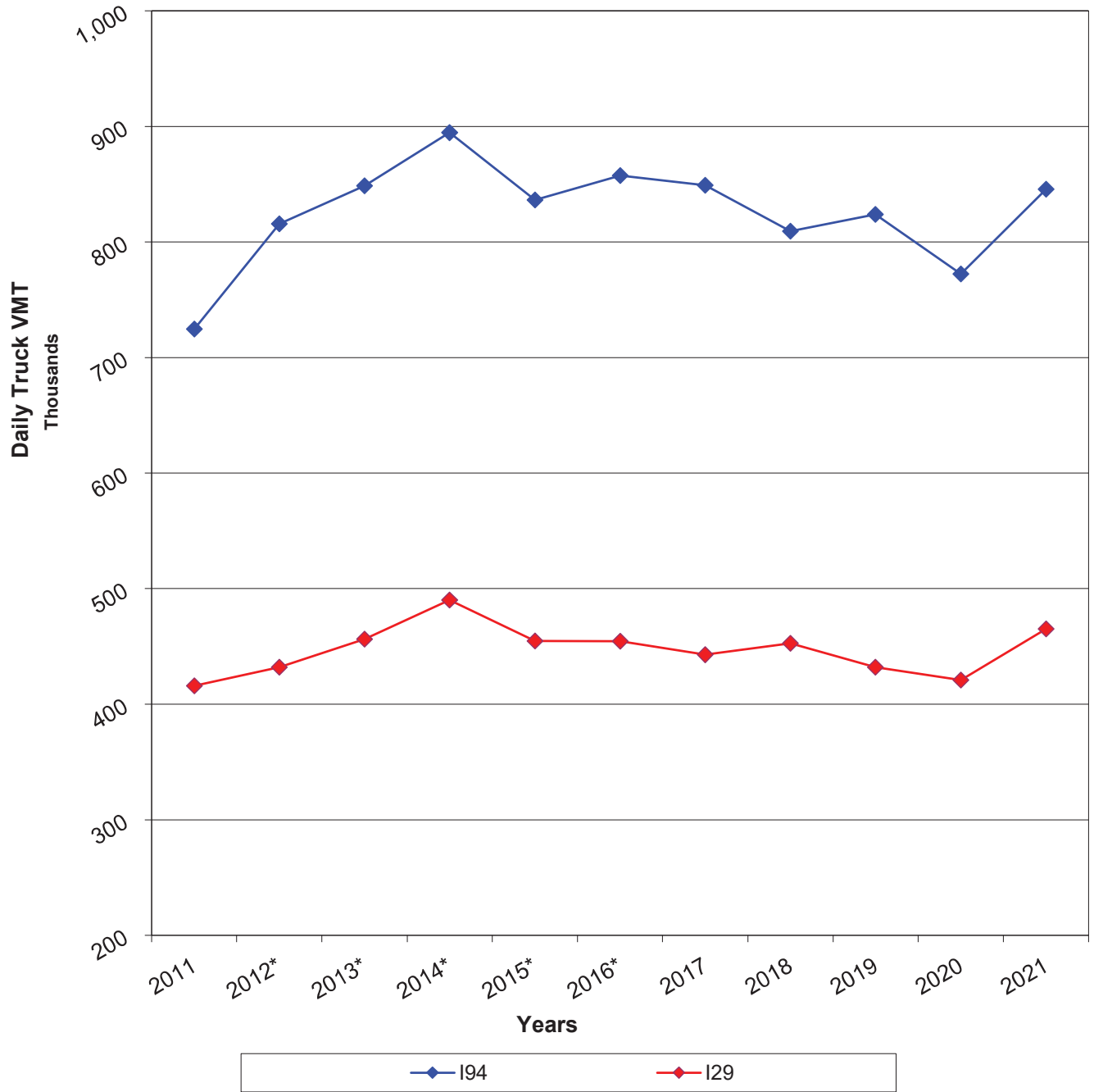
Years	Annual Daily VMT	Annual VMT	Annual Daily Truck VMT	Annual Truck VMT	% Total Trucks	% Combination Trucks
2003	2,692,975	982,935,875	536,105	195,678,325	19.91%	15.91%
2004	2,860,897	1,044,227,405	563,806	205,789,190	19.71%	15.71%
2005	2,821,424	1,029,819,585	563,819	205,794,052	19.98%	15.98%
2006	2,798,960	1,021,620,400	589,420	215,138,300	21.06%	17.06%
2007	3,017,981	1,101,563,065	618,409	225,719,285	20.49%	16.49%
2008	2,850,232	1,040,334,680	608,886	222,243,390	21.36%	17.36%
2009	3,023,712	1,103,654,880	605,289	220,930,485	20.02%	16.02%
2010	3,234,497	1,180,591,405	666,693	243,342,945	20.61%	16.61%
2011	3,521,263	1,285,260,995	724,509	264,445,785	20.58%	16.58%
2012*	3,728,704	1,360,976,960	815,711	297,734,515	21.88%	17.88%
2013*	3,775,958	1,378,224,670	848,650	309,757,250	22.48%	18.48%
2014*	3,733,346	1,362,671,290	894,609	326,532,285	23.96%	19.96%
2015*	3,539,973	1,292,090,145	836,489	305,318,485	23.63%	19.63%
2016*	3,751,447	1,369,278,155	857,303	312,915,595	22.85%	18.85%
2017	3,651,977	1,332,971,605	849,192	309,955,080	23.25%	19.25%
2018	3,842,369	1,402,464,685	809,431	295,442,315	21.07%	17.07%
2019	3,729,866	1,361,401,481	823,981	300,753,279	22.09%	18.09%
2020	3,181,786	1,116,352,191	772,404	281,927,793	25.25%	21.25%
2021	3,511,417	1,281,667,135	845,560	308,629,400	24.08%	20.08%

I-29

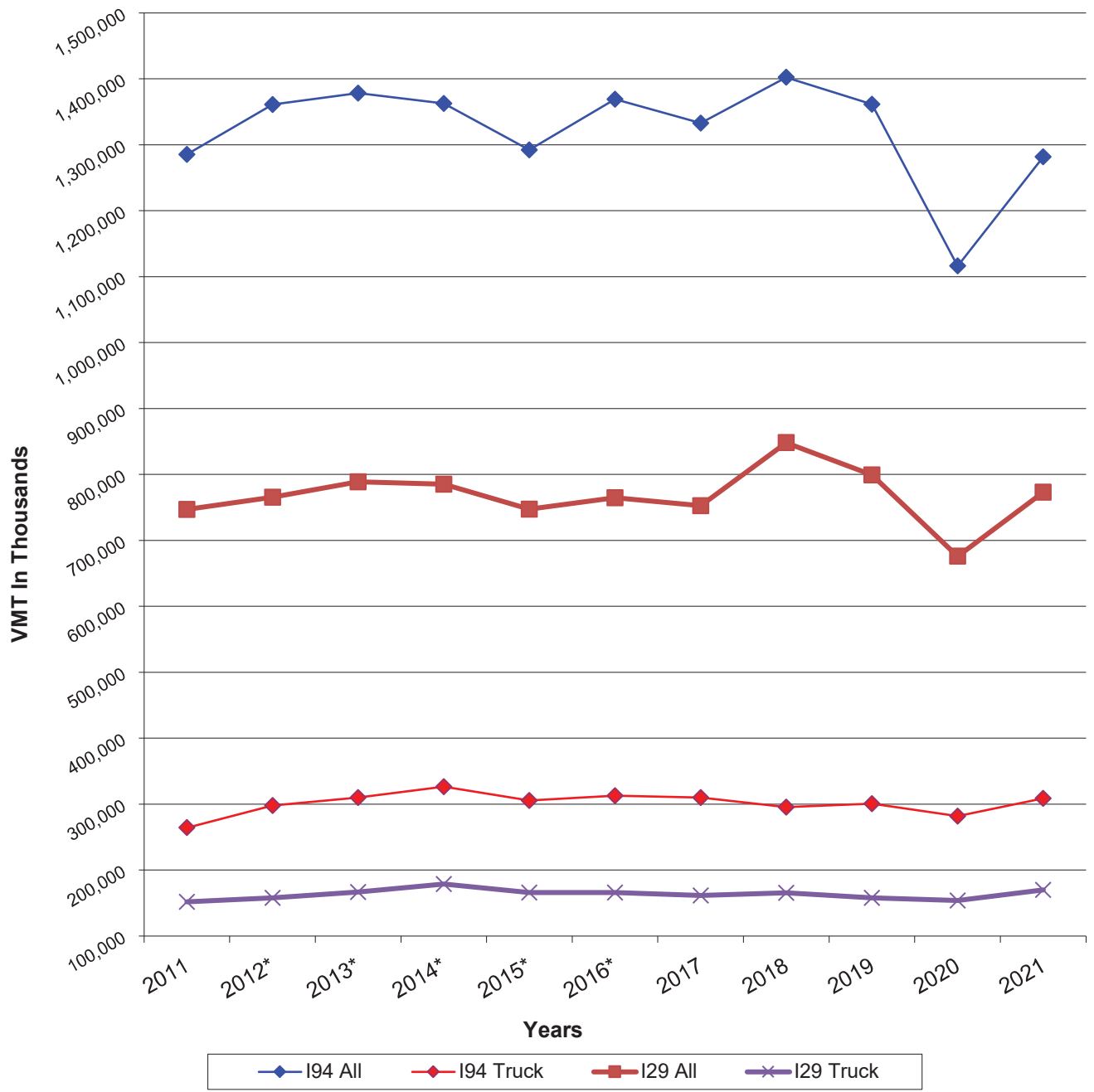
Years	Annual Daily VMT	Annual VMT	Annual Daily Truck VMT	Annual Truck VMT	% Total Trucks	% Combination Trucks
2002	1,739,429	634,891,585	370,917	135,384,705	21.32%	18.32%
2003	1,827,132	666,903,180	385,802	140,817,730	21.12%	18.12%
2004	1,867,196	681,526,540	394,176	143,874,240	21.11%	18.11%
2005	1,861,112	679,305,752	391,483	142,891,441	21.03%	18.03%
2006	1,887,849	689,064,885	391,657	142,954,805	20.75%	17.75%
2007	1,972,376	719,917,240	394,295	143,917,675	19.99%	16.99%
2008	1,954,977	713,566,605	392,635	143,311,775	20.08%	17.08%
2009	2,048,101	747,556,865	392,097	143,115,405	19.14%	16.14%
2010	2,083,822	760,595,030	406,578	148,400,970	19.51%	16.51%
2011	2,045,921	746,761,165	416,022	151,848,030	20.33%	17.33%
2012*	2,097,149	765,459,385	431,953	157,662,845	20.60%	17.60%
2013*	2,160,887	788,723,755	456,210	166,516,650	21.11%	18.11%
2014*	2,151,301	785,224,865	490,125	178,895,625	22.78%	19.78%
2015*	2,047,448	747,318,520	454,925	166,047,625	22.22%	19.22%
2016*	2,094,994	764,672,810	454,622	165,937,030	21.70%	18.70%
2017	2,061,684	752,514,660	442,835	161,634,775	21.48%	18.48%
2018	2,324,048	848,277,520	452,829	165,282,585	19.48%	16.48%
2019	2,190,201	799,423,714	432,060	157,702,205	19.72%	16.72%
2020	1,843,874	673,013,999	421,035	153,678,023	22.83%	19.83%
2021	2,117,692	772,957,711	465,157	169,782,148	21.97%	18.97%

*VMT Numbers were revised because errors were found and corrected.

Annual Daily Truck VMT for Interstate



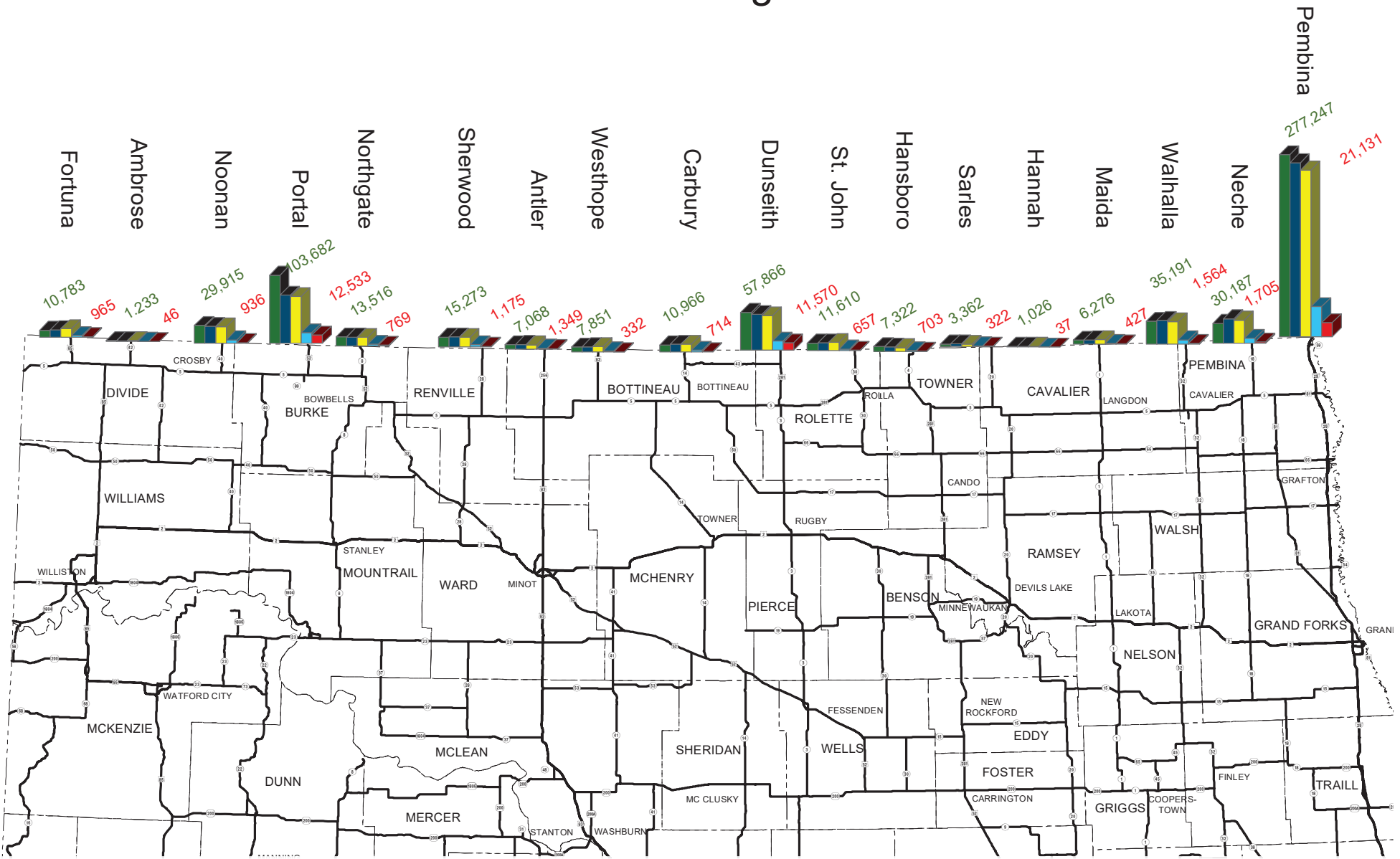
Annual VMT for Interstate



BORDER CROSSINGS
(VEHICLES ENTERING THE UNITED STATES FROM CANADA)

PORT OF ENTRY	HWY	----- AUTOMOBILES -----			----- TRUCKS -----		
		FISCAL 2020	FISCAL 2021	% CHANGE	FISCAL 2020	FISCAL 2021	% CHANGE
FORTUNA	85	2,678	965	-63.97%	2,331	994	-57.36%
AMBROSE	42	321	46	-85.67%	6	2	-66.67%
NOONAN	40	5,145	936	-81.81%	2,740	1,291	-52.88%
PORTAL	52	16,078	12,533	-22.05%	60,850	67,664	11.20%
NORTHGATE	8	2,410	769	-68.09%	6,193	5,014	-19.04%
SHERWOOD	28	3,515	1,175	-66.57%	4,065	2,441	-39.95%
ANTLER	256	2,027	1,349	-33.45%	1,191	1,157	-2.85%
WESTHOPE	83	1,733	332	-80.84%	3,385	1,505	-55.54%
CARBURY	14	3,200	714	-77.69%	859	301	-64.96%
DUNSEITH	281	14,375	11,570	-19.51%	20,121	18,643	-7.35%
ST. JOHN	30	2,486	657	-73.57%	293	245	-16.38%
HANSBORO	4	1,340	703	-47.54%	223	106	-52.47%
SARLES	20	694	322	-53.60%	322	537	66.77%
HANNAH	CMC 1013	186	37	-80.11%	58	68	17.24%
MAIDA	1	1,250	427	-65.84%	412	233	-43.45%
WALHALLA	32	6,978	1,564	-77.59%	5,444	5,875	7.92%
NECHE	18	7,631	1,705	-77.66%	4,607	4,451	-3.39%
PEMBINA	I-29	45,897	21,131	-53.96%	160,735	180,858	12.52%
TOTAL		117,944	56,935	-51.73%	273,835	291,385	6.41%

Total Auto Volume Entering from Canada



Bar Chart Years

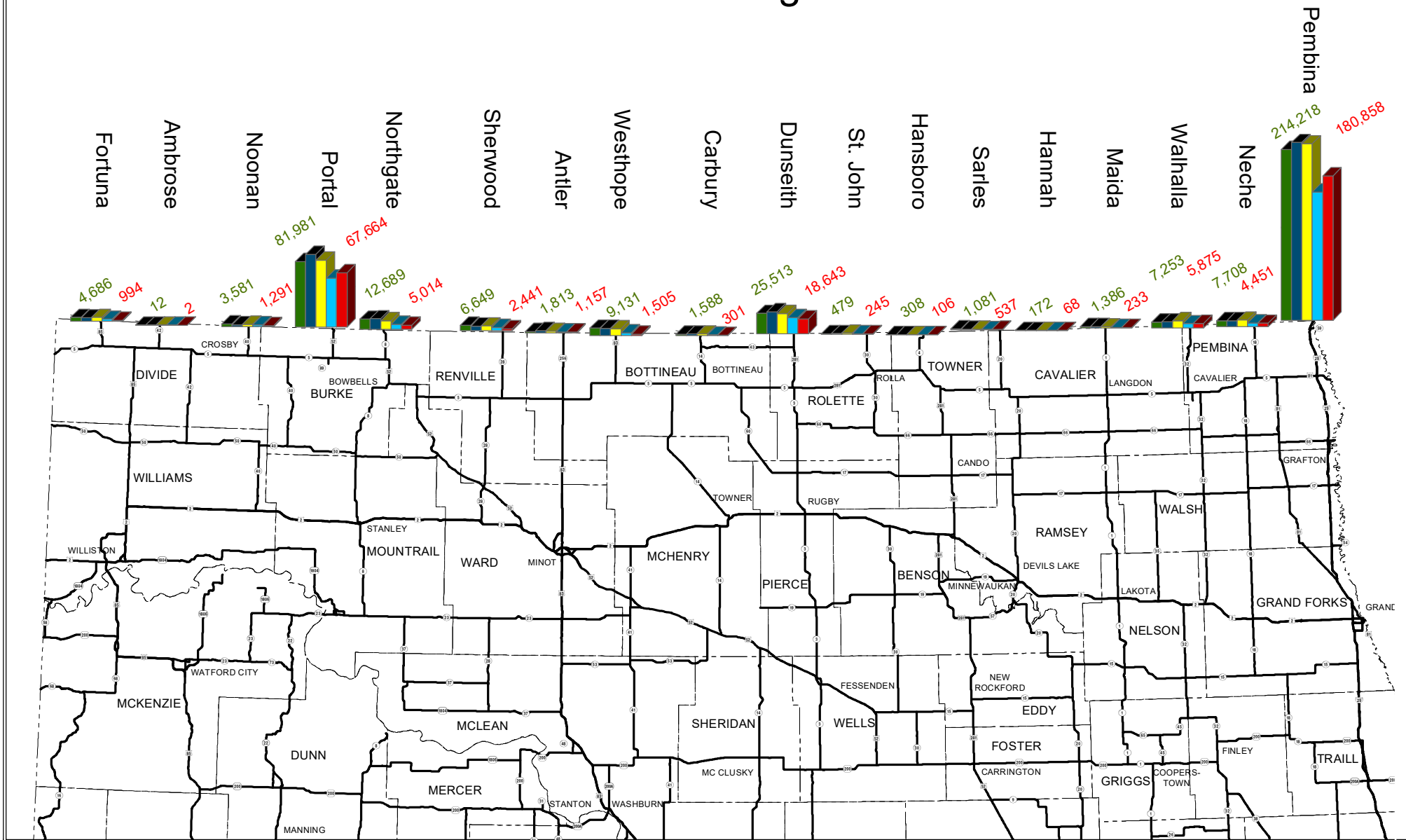


NOTE - The size of the bar chart corresponds to total autos by border crossing.
 - The numbers given above the charts are for the years 2017 (green) and 2021 (red).
 - This border crossing data is provided by the U.S. Department of Homeland Security.
 - The reporting period was for the 2021 fiscal year which ran from Oct. 1, 2020 to Sept. 30, 2021.



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Total Truck Volume Entering from Canada



Bar Chart Years



NOTE - The size of the bar chart corresponds to total trucks by border crossing.
 - The numbers given above the charts are for the years 2017 (green) and 2021 (red).
 - This border crossing data is provided by the U.S. Department of Homeland Security.
 - The reporting period was for the 2020 fiscal year which ran from Oct 1, 2020 to Sept. 30, 2021.



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