



AUTOMATIC TRAFFIC DATA

May 2023



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

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7. ADT and Percent Change by Station

Part 2 -TRUCK TRAFFIC

1. ATR Locations
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4. ADT and Percent Change by Functional Class
5. ADT and Percent Change by Station

More detailed information is available and can be obtained by contacting Nickie Reis, Traffic Data Section of the Planning and Asset Management Division of the North Dakota Department of Transportation, 608 East Boulevard Ave, Bismarck, ND 58505, (701)328-3458 or nreis@nd.gov

The Fast Lane

(When you just don't have time for the whole report)

May 2023

In the following observations, when I talk about increases and decreases, I am referring to how the numbers compared to the same month one year before. For example: May 2023 versus May 2022. We are now breaking this report down into two parts: Part 1 gives overall information about all the vehicles passing the recording devices and Part 2 deals only with truck traffic.

Part 1 – ALL TRAFFIC

Graph

When we total all the traffic at all the ATRs, we see a graphic depiction of how this year's traffic compares to last year's. For this month, the traffic is 3.2 % higher than it was last May.

Functional Class Groups

When we break the state's highways down into the various classes of highways, we see some interesting facts. Let's look at the following functional classes:

- **Urban Interstate 94** – decreased 0.2 %
- **Rural Interstate 94** – increased 3.8 %
- **Urban Interstate 29 (this group is comprised of only one station)** – increased 0.2 %
- **Rural Interstate 29** – increased 7.0 %
- **Rural Principal Arterial** – increased 8.8 %
- **Rural Minor Arterial** – increased 6.2 %
- **Rural Major Collector – State** – increased 4.5 %
- **Rural Major Collector – County** – increased 3.9 %
- **Urban Principal Arterial** – increased 0.3 %
- **Urban Minor Arterial** – decreased 0.4 %
- **Urban Collector & Local Urban (this group is comprised of only one station)** - increased 0.9 %

Individual Stations

Compared to last May, 64 of the 81 stations showed an increase. Of the remaining 17 stations, 16 decreased and 1 had no change.

Part 2 – TRUCK TRAFFIC

Graph

When we total just the truck traffic at all the ATRs, we see a graphic depiction of how this year's traffic compares to last year's. For this month, truck traffic is 11.8 % higher than it was last May.

Functional Class Groups

- **Urban Interstate** – increased 5.3 %
- **Rural Interstate** – increased 8.1 %
- **Rural Principal Arterial** – increased 18.6 %
- **Rural Minor Arterial** – increased 14.5 %
- **Rural Major Collector – State** – decreased 7.1 %
- **Rural Major Collector – County** – increased 8.5 %
- **Urban Principal Arterial** – increased 5.7 %

Individual Stations

Of the 73 stations that could be used to compare trucks, 62 increased from May 2022. Of the remaining 11 stations, 8 decreased and 3 did not change. The western 1/3 saw 15% of its stations decrease compared to 5% in the eastern 1/3 & 11% in the central 1/3.

PART 1

ALL TRAFFIC

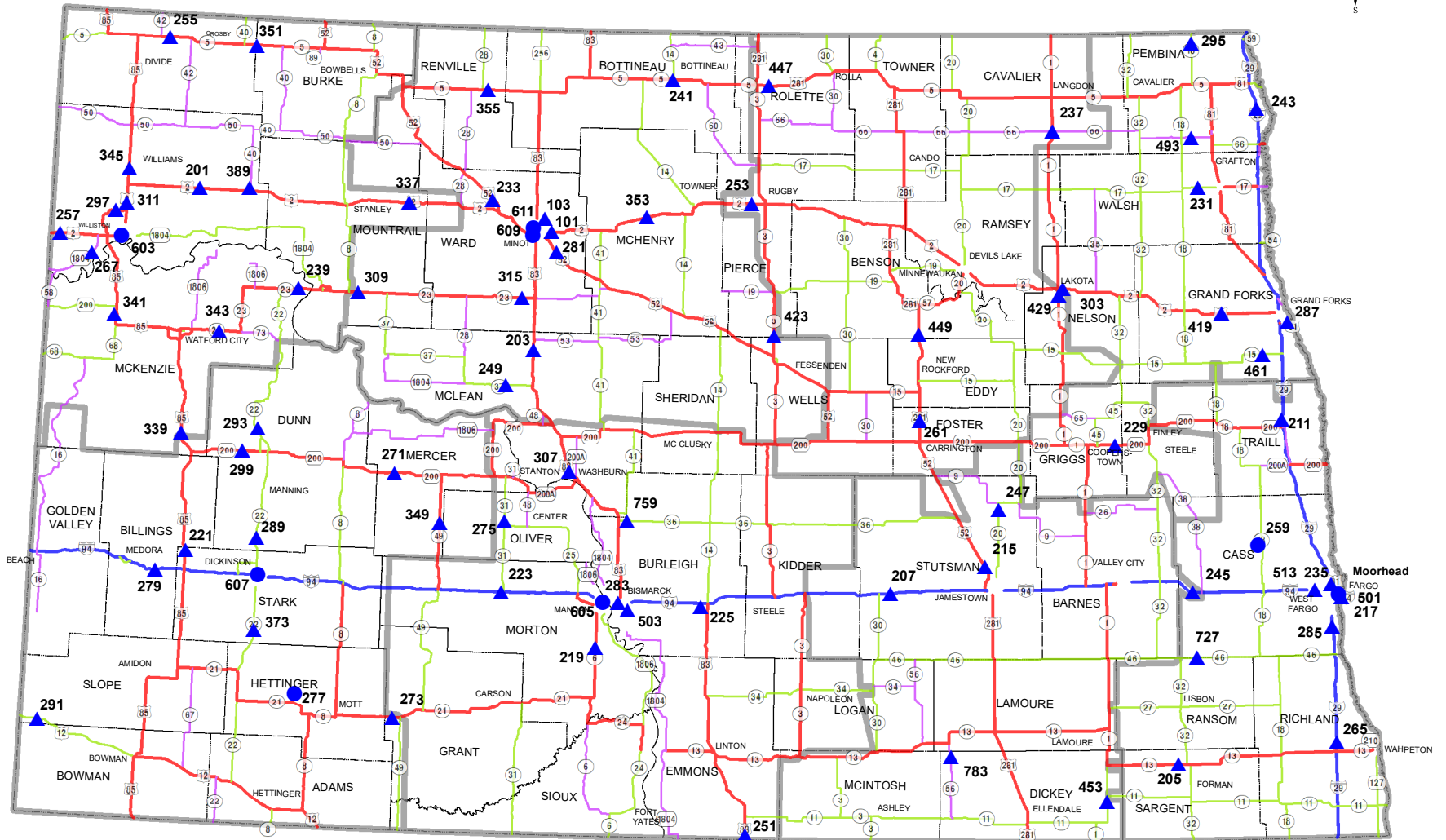
**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR LOCATIONS**

STATION	NAME	HIGHWAY	REF POINT	OFF SET	TYPE	LOCATION
URBAN INTERSTATE 94						
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						
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239	NEW TOWN	23	42.000	0.8986	Class	4.7 MILES EAST OF ND 22
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299	KILLDEER200W	200	88.000	0.5200	Class	6.7 MILES WEST OF JCT. ND 22 AND ND 200
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309	NEWTOWN_EAST	23	58.000	0.7000	Class	8.4 MILES EAST OF NEW TOWN
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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

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR LOCATIONS**

STATION	NAME	HIGHWAY	REF POINT	OFF SET	TYPE	LOCATION
RURAL PRINCIPAL ARTERIAL						
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
389	TIOGA_S40__	40	0.000	0.7000	Class	0.2 MILES SOUTH OF TIOGA
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.
URBAN COLLECTOR AND LOCAL URBAN						
609	MINOT (U)				Volume	16TH AVE BET. 12TH ST SW. & 17TH AVE. SW.

Automatic Traffic Recorder (ATR) Locations



(12)

Station Type

- ▲ Class
- Volume

Functional Class

- Interstate Rural
- Principal Arterial Rural
- Minor Arterial Rural
- Major Collector

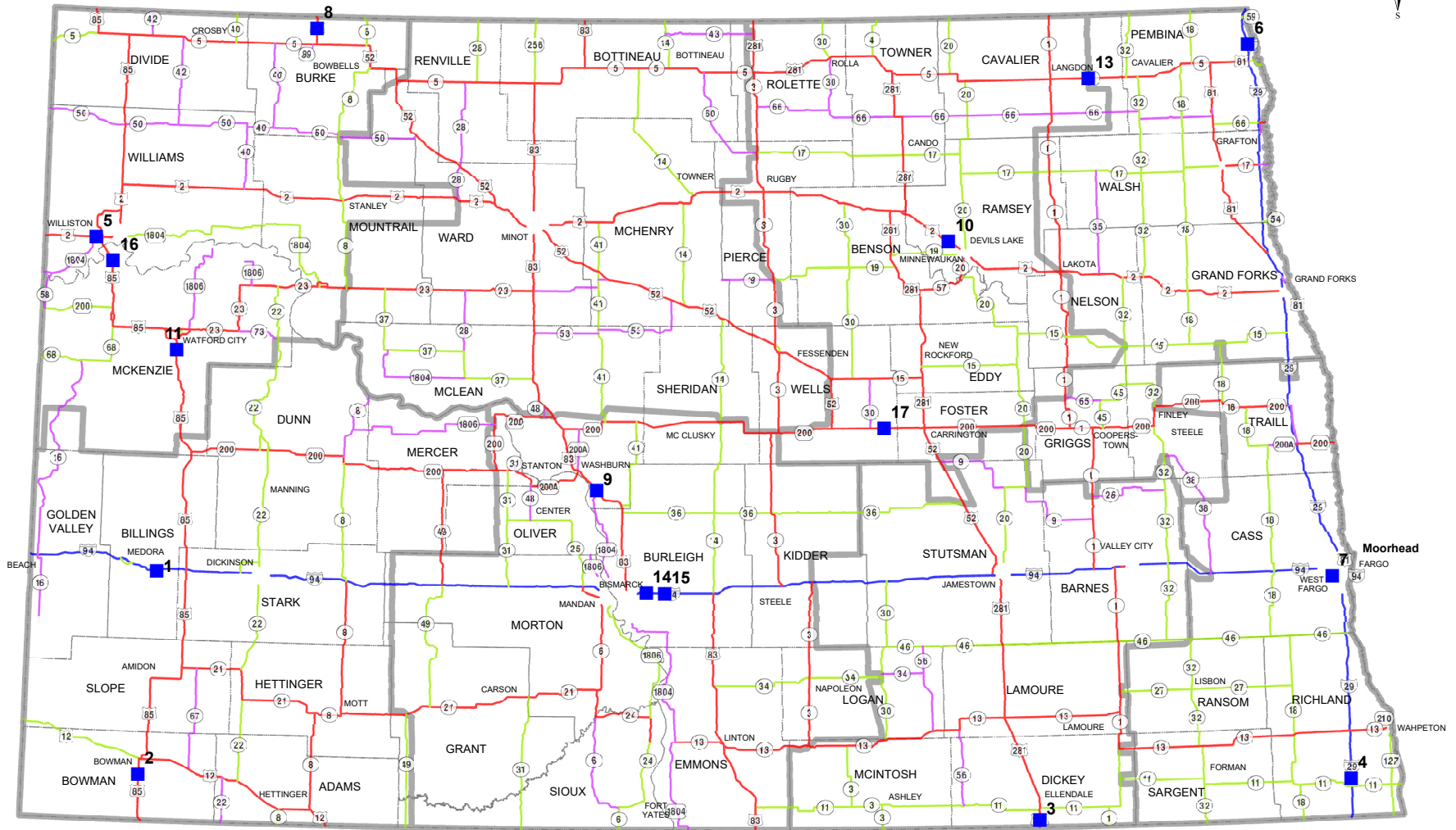
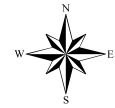
Number of ATR Stations

- | | |
|-----------------------------|----------------------------|
| 8 Rural Interstate | 3 Urban Interstate |
| 40 Rural Principal Arterial | 6 Urban Principal Arterial |
| 13 Rural Minor Arterial | 2 Urban Minor Arterial |
| 9 Rural Major Collector | 1 Urban Collector |

Planning & Asset Management Division
 Traffic Data Section
 March 2023

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Weigh - In - Motion Locations



(13)

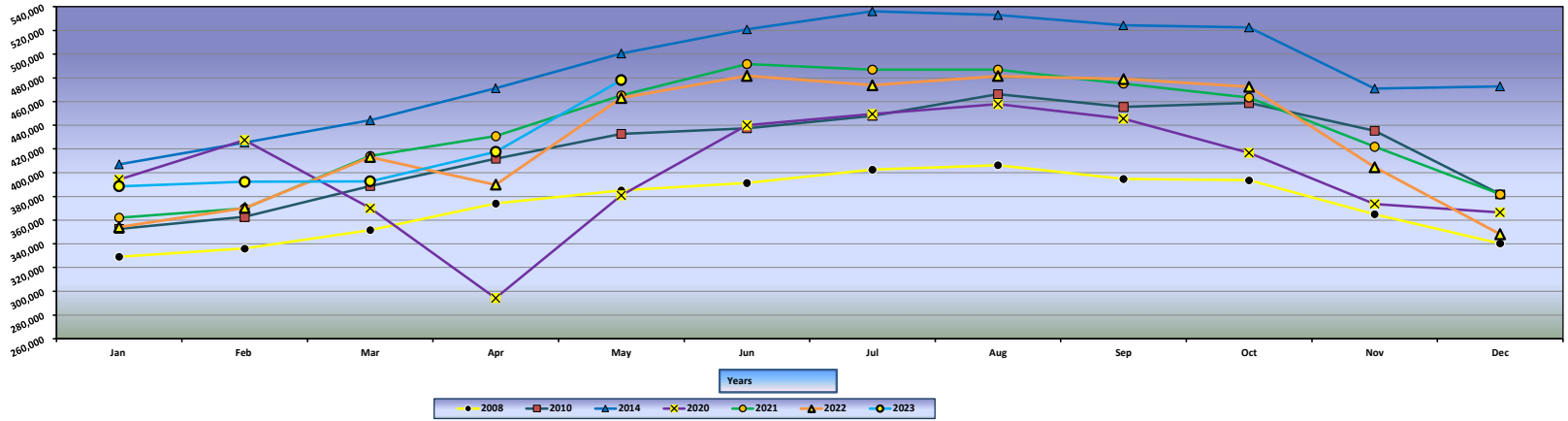
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|---------------|-----------------------------|-----------------------|
| 1 - Belfield | ■ WIM Sites | 14 - Apple Creek East |
| 2 - Bowman | 6 - Joliette | 15 - Apple Creek West |
| 3 - Ellendale | 7 - West Fargo (N/A) | 16 - Panger |
| 4 - Wahpeton | 8 - Portal | 17 - Sykeston |
| 5 - Williston | 9 - Washburn | N/A = NOT ACTIVE |
| | 10 - Devils Lake | |
| | 11 - Watford City (Pending) | |
| | 12 - Buchanan (N/A) | |
| | 13 - Langdon | |

Planning & Asset Management Division
Traffic Data Section
March 2021

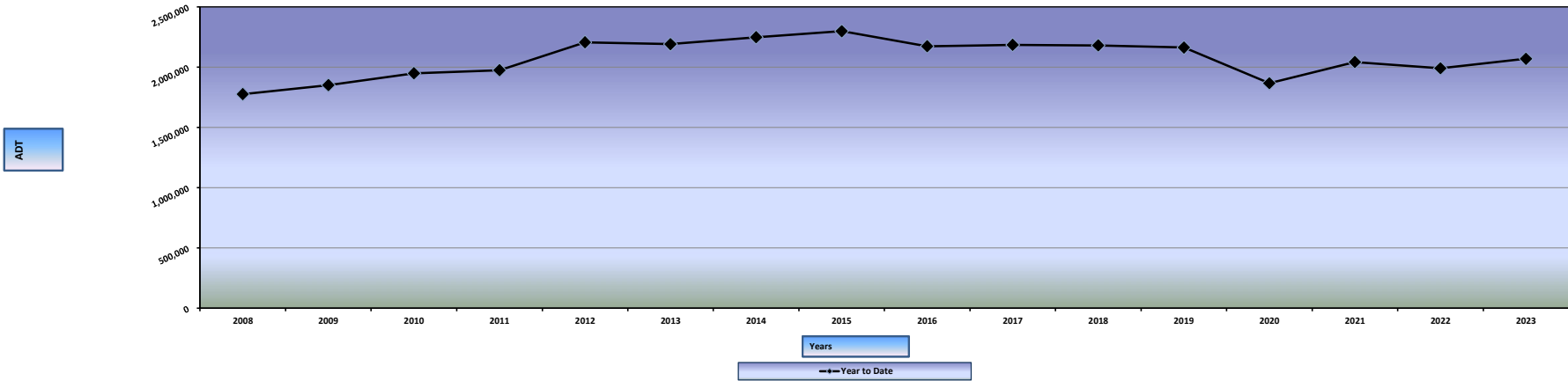
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ADT

Average Daily Traffic
All ATR's



Average Daily Traffic All ATR's Year to Date (January-May)



**STATE OF NORTH DAKOTA
AUTOMATIC TRAFFIC RECORDER DATA BY MONTH
AVERAGE DAILY TRAFFIC AND PERCENT CHANGE BY SYSTEM**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
URBAN INTERSTATE 94													
2023	86160	84864	91977	93309	105540								92370
2022	82605	85788	95619	93578	105790	109173	101794	106444	106234	105072	90415	78985	96791
% CHG	4.3%	-1.1%	-3.8%	-0.3%	-0.2%								
RURAL INTERSTATE 94													
2023	24842	24619	23390	27239	35247								27067
2022	22568	24136	28553	24966	33965	38704	40122	40795	38107	34646	28427	22833	31485
% CHG	10.1%	2.0%	-18.1%	9.1%	3.8%								
URBAN INTERSTATE 29													
2023	30676	31772	31146	33135	36356								32617
2022	27758	28448	33087	32607	36288	37176	35862	36715	36519	36914	32299	27890	33464
% CHG	10.5%	11.7%	-5.9%	1.6%	0.2%								
RURAL INTERSTATE 29													
2023	30402	29836	30455	32432	37405								32106
2022	25906	26375	33007	32339	34947	35237	35163	36754	36617	36977	33232	26726	32773
% CHG	17.4%	13.1%	-7.7%	0.3%	7.0%								
RURAL PRINCIPAL ARTERIAL													
2023	95009	96890	95202	101214	120598								101783
2022	81865	87471	95076	84283	110885	117339	121028	119601	118808	115518	98242	82017	102678
% CHG	16.1%	10.8%	0.1%	20.1%	8.8%								
RURAL MINOR ARTERIAL													
2023	18272	18386	17751	19732	23109								19450
2022	16339	16771	18461	16809	21757	23323	23147	23104	22578	22957	18286	15045	19881
% CHG	11.8%	9.6%	-3.8%	17.4%	6.2%								
RURAL MAJOR COLLECTOR - STATE													
2023	7991	8532	7756	8100	9446	See note below							8365
2022	3861	4010	4449	4107	5304	5200	5046	5257	5472	6015	4531	3997	4771
% CHG	107.0%	112.8%	74.3%	97.2%	78.1%								
RURAL MAJOR COLLECTOR - COUNTY													
2023	4236	4358	4152	4672	5713								4626
2022	4240	4420	4644	4382	5497	5711	5811	5822	5734	5929	4594	3652	5036
% CHG	-0.1%	-1.4%	-10.6%	6.6%	3.9%								
URBAN PRINCIPAL ARTERIAL													
2023	84203	85978	84110	90216	96787								88259
2022	79038	82379	89108	86322	96450	97750	94248	95171	96615	96485	84019	77597	89599
% CHG	6.5%	4.4%	-5.6%	4.5%	0.3%								
URBAN MINOR ARTERIAL													
2023	4564	4871	4736	5139	5388								4940
2022	4581	4875	5086	4682	5412	5032	4778	5045	5425	5127	4577	4092	4893
% CHG	-0.4%	-0.1%	-6.9%	9.8%	-0.4%								

The addition of 1 new ATR station causes our processing software to give this group a larger % CHG than it should have. For the actual change, see The Fast Lane summary.

STATE OF NORTH DAKOTA
 AUTOMATIC TRAFFIC RECORDER DATA BY MONTH
 AVERAGE DAILY TRAFFIC AND PERCENT CHANGE BY STATION

DIRECTION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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URBAN COLLECTOR & LOCAL URBAN

STATION: 609 - MINOT (U)

LOCATION: 16TH AVE BET. 12TH ST SW. & 17TH AVE. SW.

EAST &	2023	2097	2138	2113	2368	2491								
WEST	2022	2062	2150	2221	2140	2468	2610	2362	2382	2454	2451	2223	2089	2301
	% CHG MO.	1.7%	-0.6%	-4.9%	10.7%	0.9%								
	% CHG YR.	1.7%	0.5%	-1.3%	1.7%	1.5%								

- CON** STATION DOWN DUE TO CONSTRUCTION
- REP** STATION DOWN DUE TO REPAIRS
- NEW** NEW STATION, NO PRIOR DATA
- *** TRAFFIC ESTIMATED DUE TO INSUFFICIENT DATA

PART 2

TRUCK TRAFFIC

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR CLASS LOCATIONS**

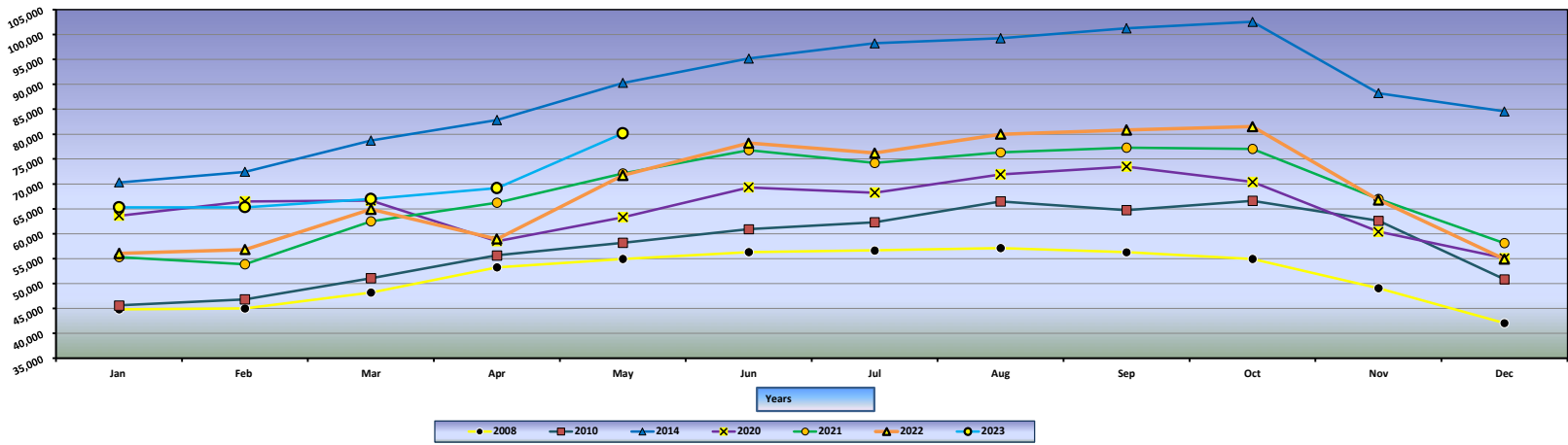
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339	GRASSY_BUTTE	85	113.000	0.8500	Class	1.3 MILES NORTH OF GRASSY BUTTE
341	ALEXANDER85W	85	162.000	0.2080	Class	1/2 MILE W OF ALEXANDER
343	WATFORD_E23_	23	10.000	0.7000	Class	9.1 MILES EAST OF WATFORD CITY
345	WILLIAMS_N85	85	205.000	0.4800	Class	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

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION
ATR CLASS LOCATIONS**

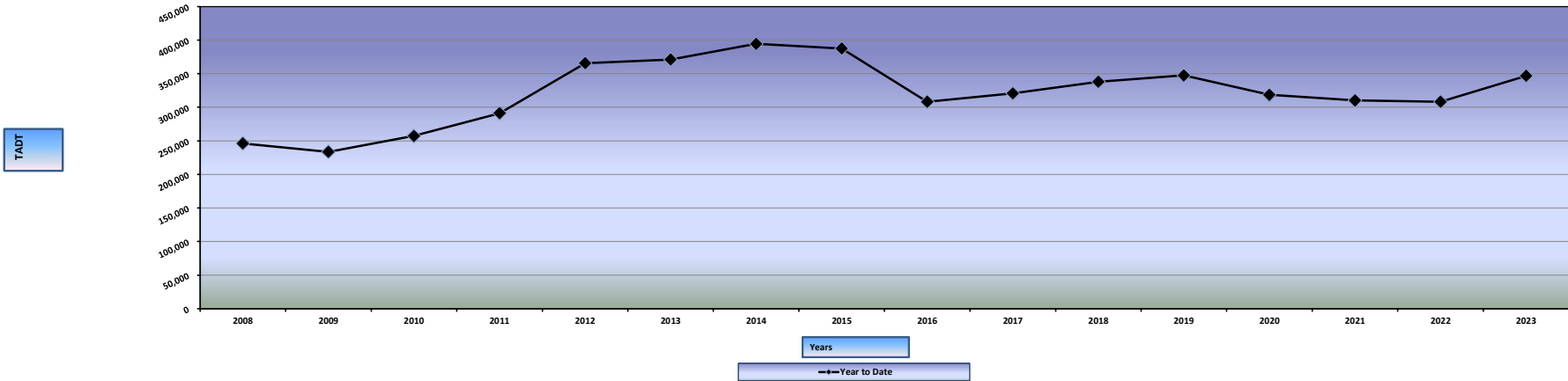
STATION	NAME	HIGHWAY	REF POINT	OFF SET	TYPE	LOCATION
RURAL PRINCIPAL ARTERIAL						
449	SHEYENNE_N__	281	141.000	0.4800	Class	2.5 MILES NORTH OF SHEYENNE
RURAL MINOR ARTERIAL						
231	GRAFTON	17	122.000	0.1293	Class	5.5 MILES WEST OF GRAFTON
247	COURTENAY	20	20.000	0.4196	Class	1.8 MILES SOUTH OF ND 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
389	TIOGA_S40__	40	0.000	0.7000	Class	0.2 MILES SOUTH OF TIOGA
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
URBAN PRINCIPAL ARTERIAL						
287	GRAND FORKS	81 B	942.000	0.4092	Class	S. WASHINGTON BETWEEN 24 AND 28 AVE. S.
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

Average Daily Truck Traffic
All ATR's

TADT



Average Daily Truck Traffic All ATR's Year to Date (January-May)



STATE OF NORTH DAKOTA
AUTOMATIC TRAFFIC RECORDER DATA BY MONTH
AVERAGE TRUCK DAILY TRAFFIC AND PERCENT CHANGE BY SYSTEM

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
URBAN INTERSTATE													
2023	11289	11172	12071	12258	13894								12137
2022	10616	10312	12067	11419	13192	14631	14121	14554	14520	14246	11892	10116	12641
% CHG	6.3%	8.3%	0.0%	7.3%	5.3%								
RURAL INTERSTATE													
2023	16106	15927	16086	16379	18510								16602
2022	14427	14655	17907	15879	17123	18239	17630	18633	18869	18732	16050	13362	16792
% CHG	11.6%	8.7%	-10.2%	3.1%	8.1%								
RURAL PRINCIPAL ARTERIAL													
2023	28119	28277	29034	30127	35468								30205
2022	22574	23428	25498	22847	29901	32619	32187	33863	34405	33972	28346	22845	28540
% CHG	24.6%	20.7%	13.9%	31.9%	18.6%								
RURAL MINOR ARTERIAL													
2023	4382	4463	4509	4994	5664								4802
2022	3848	3869	4326	3782	4946	5515	5399	5490	5365	6282	4542	3546	4743
% CHG	13.9%	15.4%	4.2%	32.0%	14.5%								
RURAL MAJOR COLLECTOR - STATE													
						See note below							
2023	1841	2059	1741	1685	2093								1884
2022	778	787	916	845	1195	1207	1165	1292	1476	1999	1046	919	1135
% CHG	136.6%	161.6%	90.1%	99.4%	75.1%								
RURAL MAJOR COLLECTOR - COUNTY													
2023	540	541	544	562	800								597
2022	510	492	560	593	737	851	823	915	898	908	635	466	699
% CHG	5.9%	10.0%	-2.9%	-5.2%	8.5%								
URBAN PRINCIPAL ARTERIAL													
2023	3028	2892	2979	3153	3736								3158
2022	2444	2415	2644	2695	3533	3963	3726	4019	4071	4116	3279	2832	3311
% CHG	23.9%	19.8%	12.7%	17.0%	5.7%								

The addition of 1 new ATR station causes our processing software to give this group a larger % CHG than it should have. For the actual change, see The Fast Lane summary.

STATE OF NORTH DAKOTA
 AUTOMATIC TRAFFIC RECORDER DATA BY MONTH
 TRUCK AVERAGE DAILY TRAFFIC AND PERCENT CHANGE BY STATION

DIRECTION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
URBAN PRINCIPAL ARTERIAL														
STATION: 513 - WFARGO_MAIN_ (U)														
LOCATION: HIGHWAY 10B - MAIN ST. WEST OF 15TH ST NW														
EAST &	2023	951	864	934	960	1059								
WEST	2022	887	872	959	930	1120	1202	1098	1192	1256	1234	1154	942	1071
	% CHG MO.	7.2%	-0.9%	-2.6%	3.2%	-5.4%								
	% CHG YR.	7.2%	3.2%	1.1%	1.7%	0.0%								

CON STATION DOWN DUE TO CONSTRUCTION
REP STATION DOWN DUE TO REPAIRS
NEW NEW STATION, NO PRIOR DATA
***** TRAFFIC ESTIMATED DUE TO INSUFFICIENT DATA