

2008-2010

Traffic Growth

In the Omaha Metro Area



Metropolitan Area Planning Agency • 2222 Cuming St., Omaha Nebraska, 68102 • 402-444-6866

August 2012



2008 – 2010 MAPA Traffic Growth Report

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The growth analysis in this publication is based on data compiled by MAPA in cooperation with the cities of Bellevue Council Bluffs, La Vista, Omaha, Papillion; counties of Douglas, Pottawattamie, Sarpy; Iowa DOT, Nebraska DOR, FHWA and FTA.

MAPA Traffic Growth Report: Introduction and Methodology

The Traffic Growth Report is published periodically by the Metropolitan Area Planning Agency (MAPA) as part of its on-going process of monitoring transportation in the Omaha-Council Bluffs metropolitan area. This report provides a unique analysis of the change in vehicular traffic from a regional and sub-regional perspective. Traffic is listed in terms of total **VMT** (vehicle miles traveled), which is calculated by multiplying the length of a road segment by the average weekday daily traffic (AWDT). Statistics in the Traffic Growth Report are primarily derived from volumes shown on the 2010 Traffic Flow Map. For more specific information regarding traffic along or through particular streets or intersections, please consult the MAPA 2010 Traffic Flow Map.

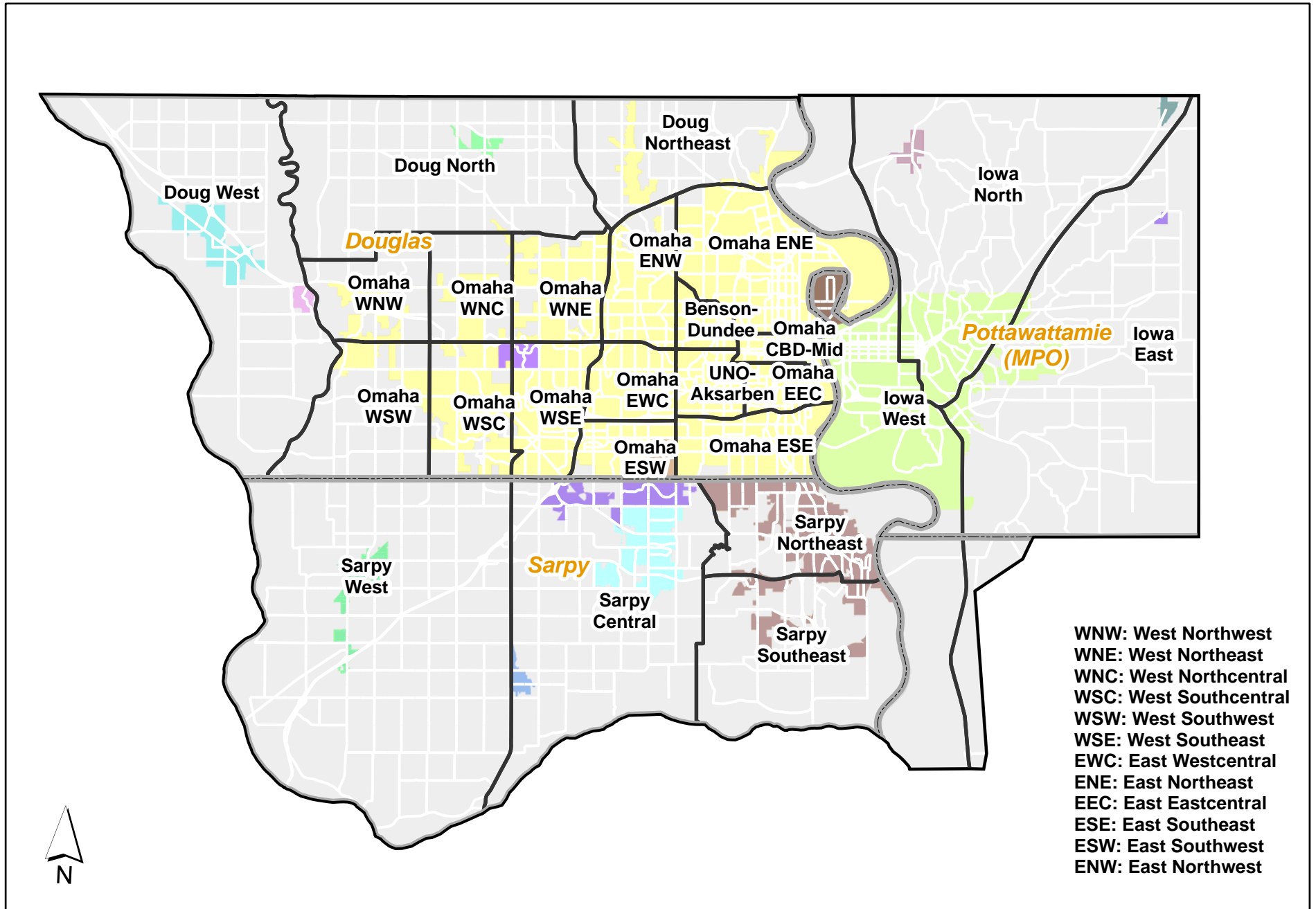
The 2010 Traffic Growth Report adopts a slightly different methodology to measure the changes in VMT at regional and sub-regional levels. The 2010 Traffic Flow Map shows the average weekday daily traffic (AWDT) and hence the 2010 Traffic Growth Report uses the AWDT to estimate VMT. Unlike the 2008 MAPA Traffic Growth Report which utilized “corridors” and “subcorridors” to measure the change in VMT at a sub-regional level, the 2010 Traffic Growth Report utilizes larger sized corridors (page 3) to measure the VMT. The Traffic Growth Report shows the estimated change in VMT from 2008 to 2010 by old-corridors. Also shown are the last ten years change in VMT and last twenty years change in VMT by old-corridors.

Pages 11-14 of the report show average growth rates by Automatic Traffic Recorder (ATR) station over the period 1995 to 2011. The maximum average growth rate of around 6% is observed at station N1 (North of Gretna), while the lowest average growth rate is a decrease of 3% at station I2 (South of Ave N Council Bluffs). The report also shows 2010 Daily VMT by Functional Classification of roadways. Maximum VMT is observed on freeways followed by other principal arterials. The report also shows VMT by County. Douglas County observed a maximum VMT of around 11 million which is approximately 65% of the total VMT in the metro area.

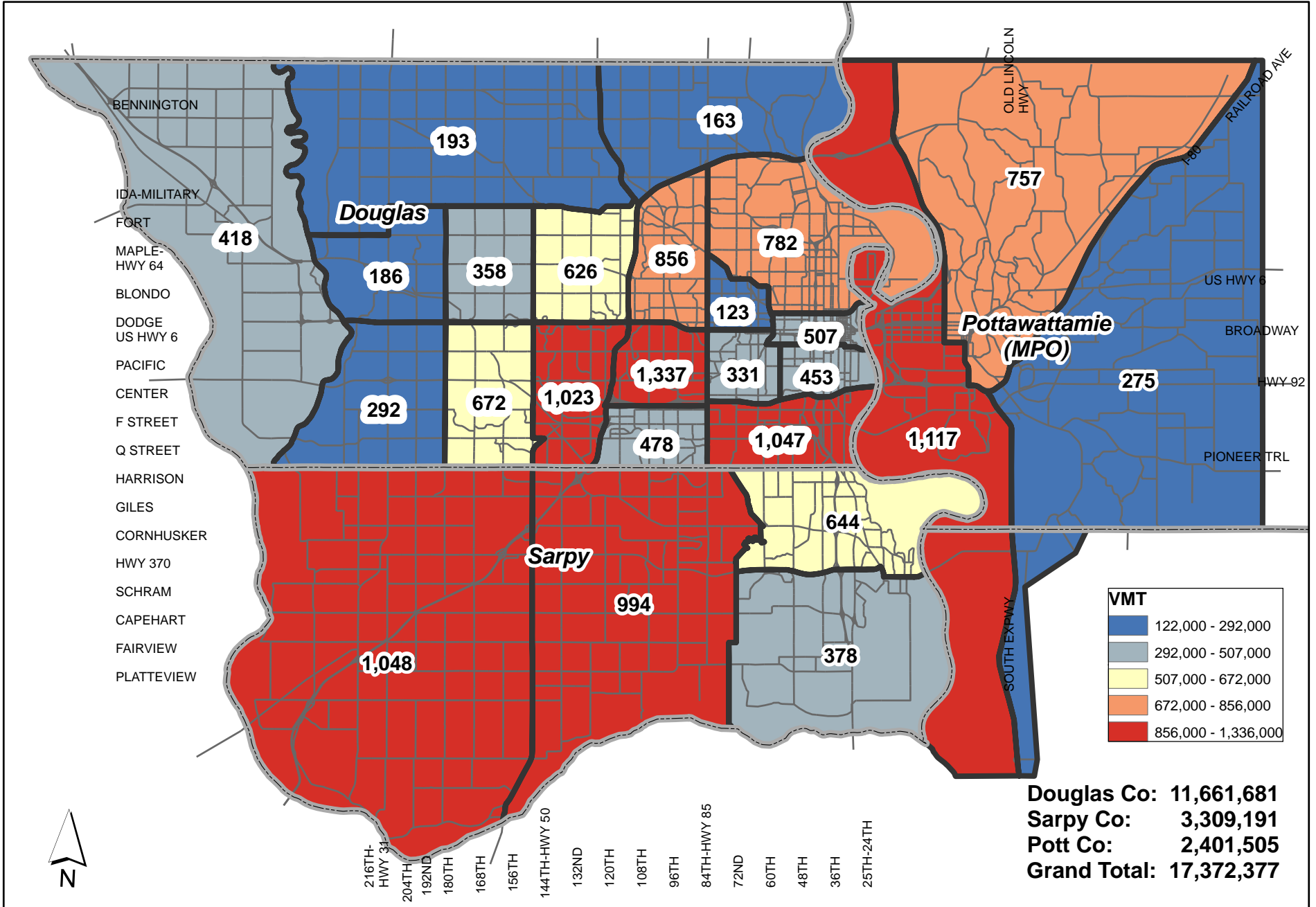
This report shows an average weekday total VMT in 2010 of over 17 million in the metropolitan area. An apples to apples comparison of VMTs from 2008 to 2010 shows an approximate increase of around 1.5% in the metro area. The total Douglas county VMT grew by 3%, Sarpy county VMT decreased by 3% and Pottawattamie county VMT grew by 2% from 2008. The western part of Omaha region along the Dodge Expressway continued to grow which is in accordance with the continued new development in the area, while some areas such as the northeastern and western parts of Sarpy County showed a decrease in traffic.

MAPA's Traffic Growth Report is normally published during odd years following the even year (e.g. 2008 report comes out in 2009). Although this report is behind MAPA's traditional schedule, it is anticipated that the 2012 reports will be published in 2013.

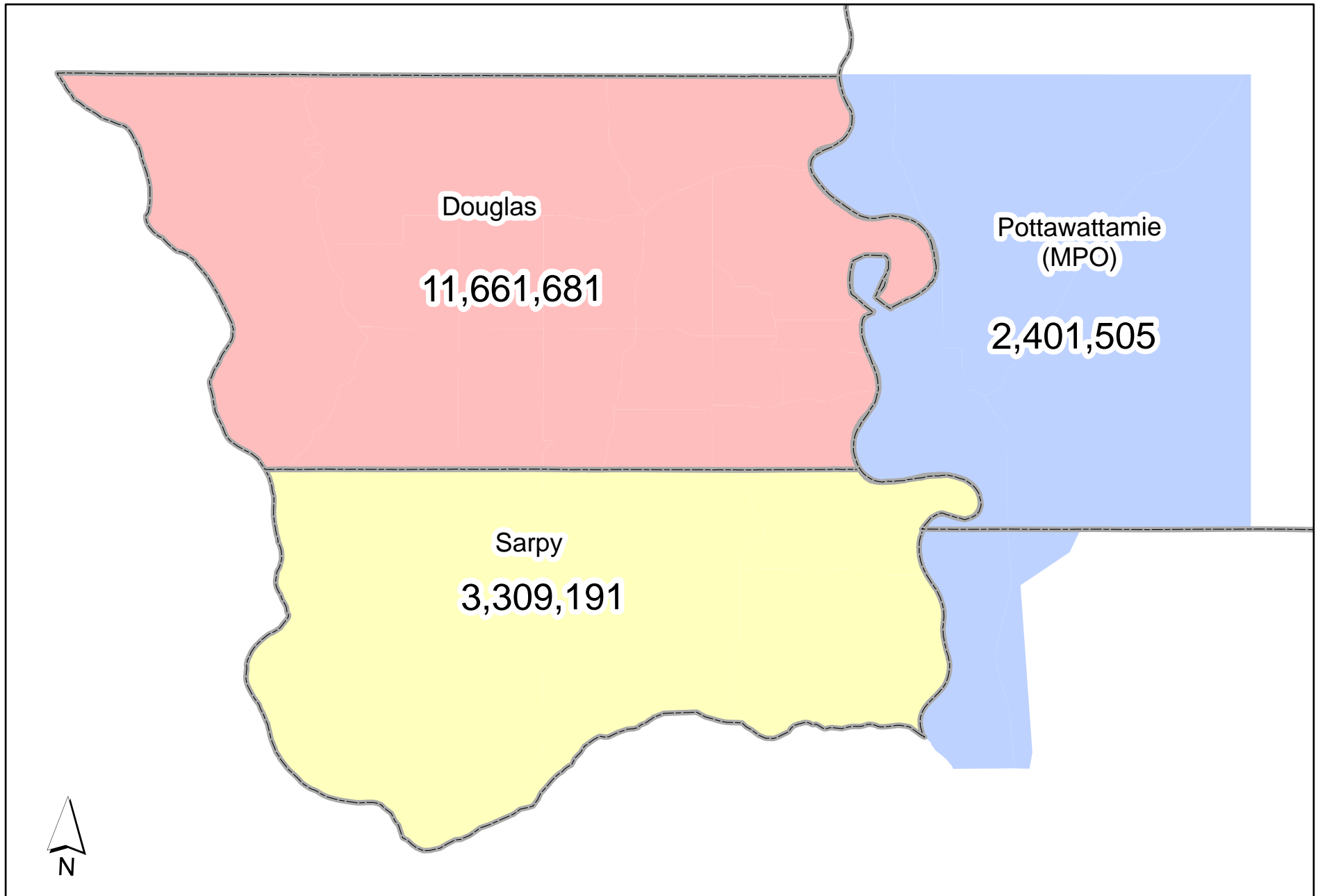
New Corridors



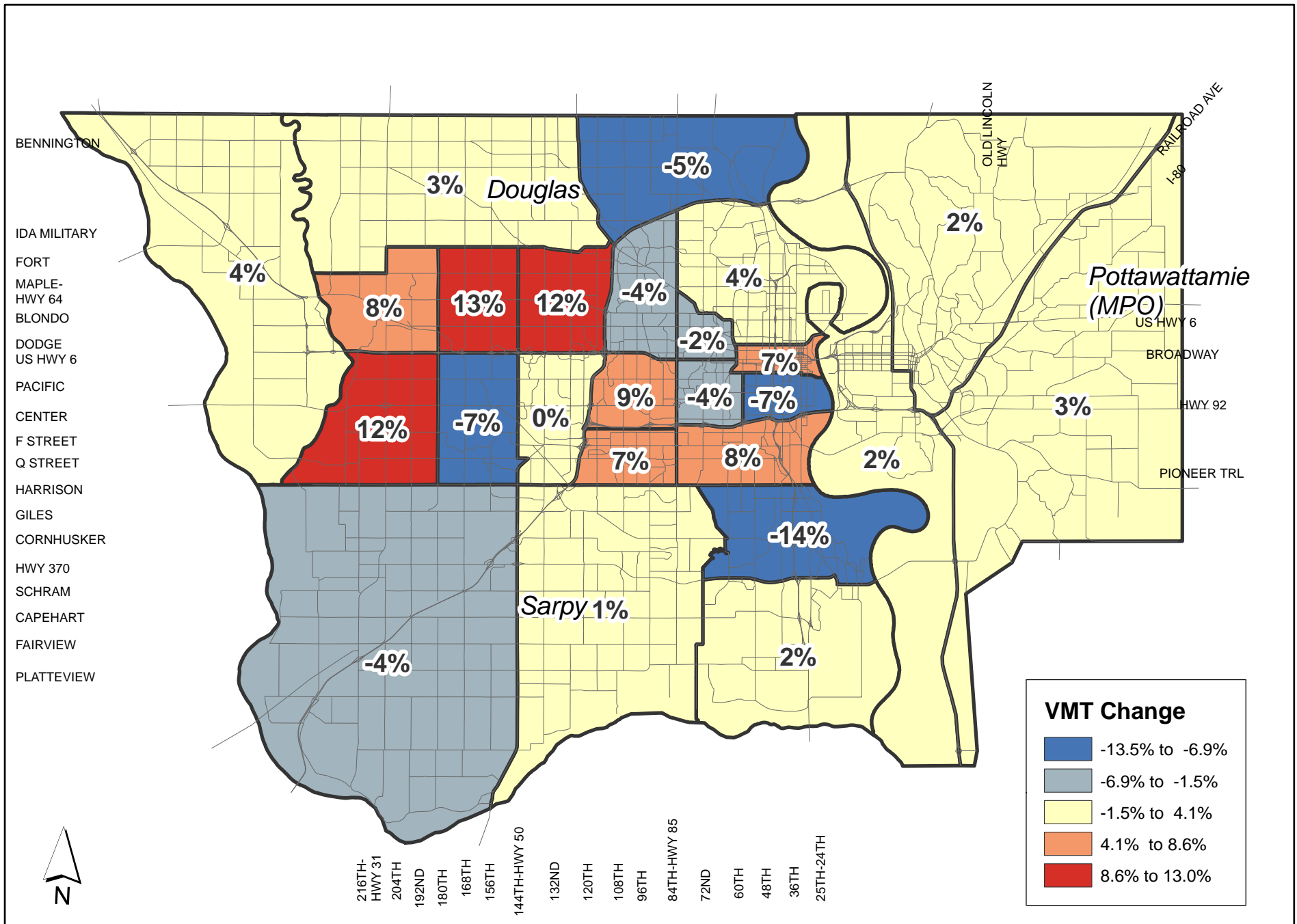
2010 Average Weekday VMT by Corridor (in thousands)



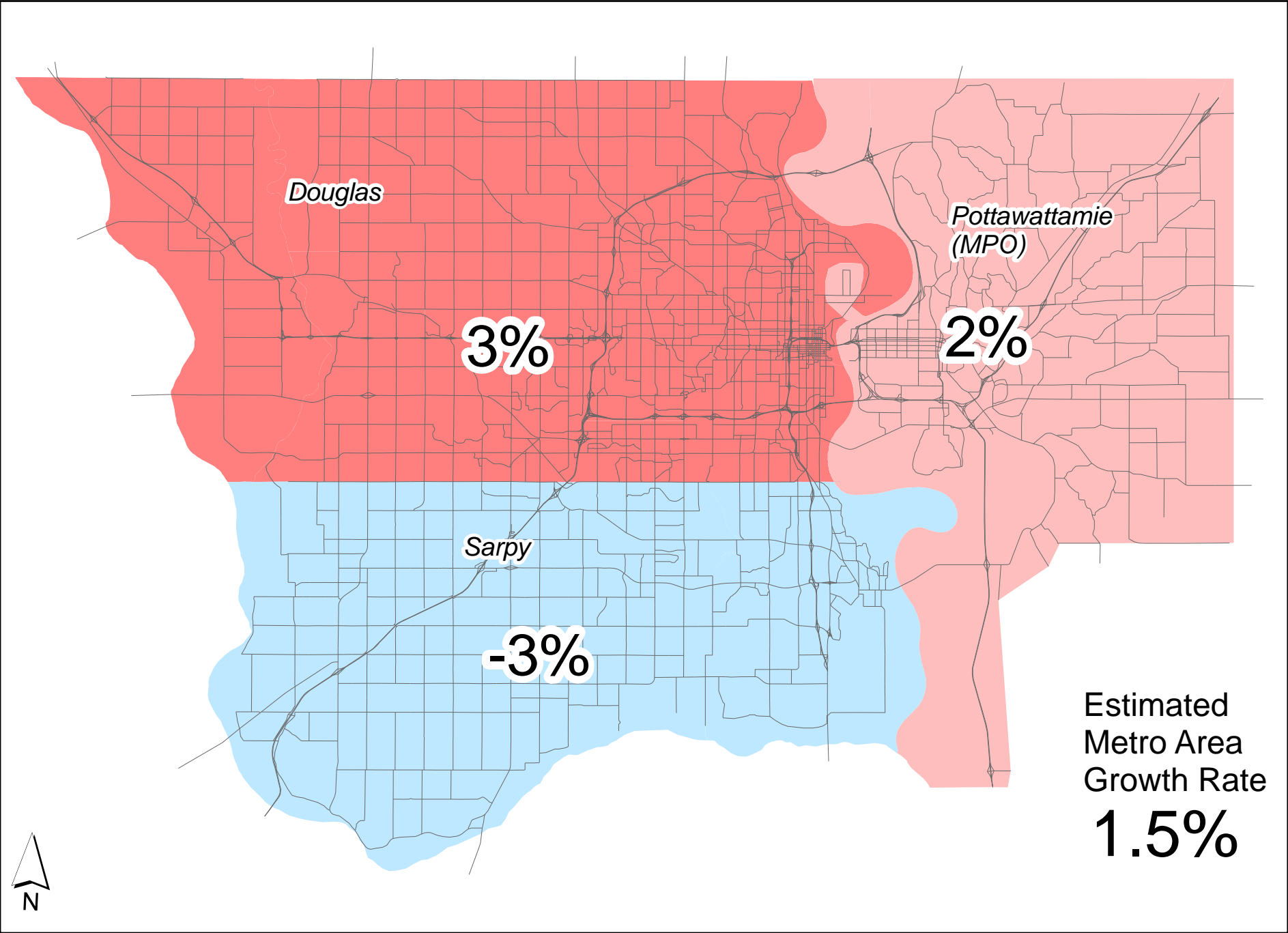
2010 Average Weekday Vehicle Miles Traveled (VMT) by County



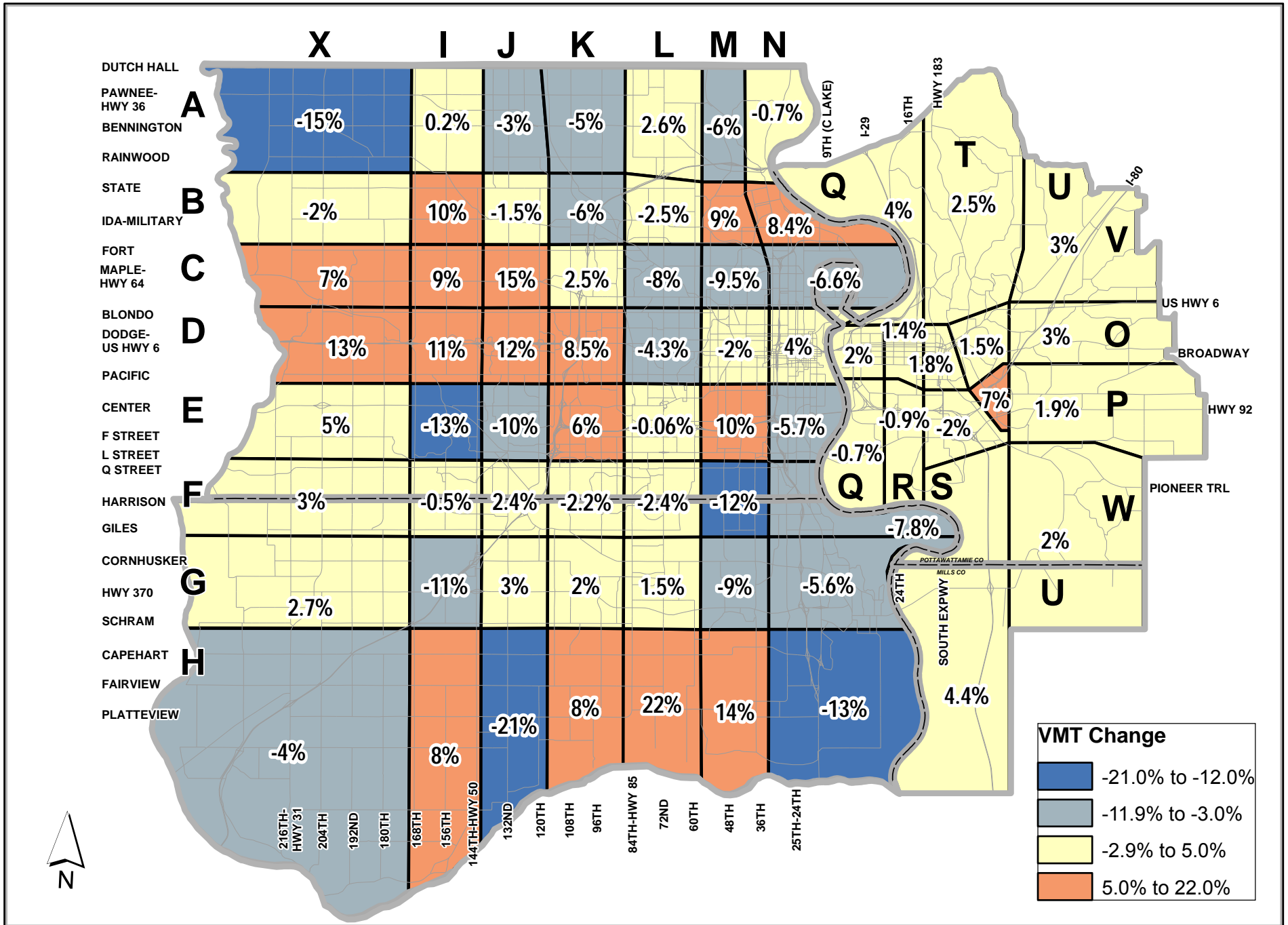
Estimated Change in Vehicle Miles Traveled (VMT) 2008 to 2010 by Corridor



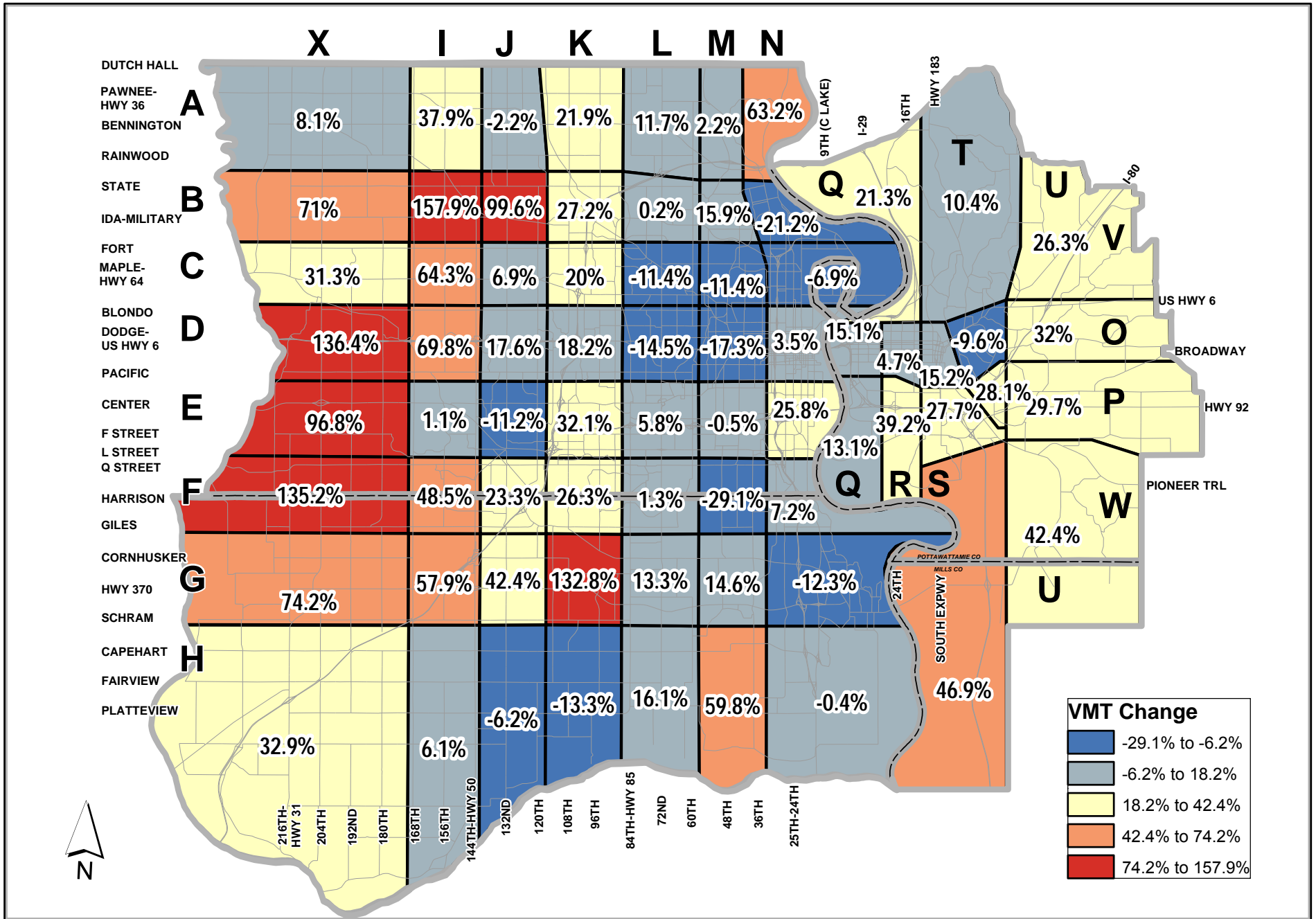
Estimated Change in VMT 2008 to 2010 by County



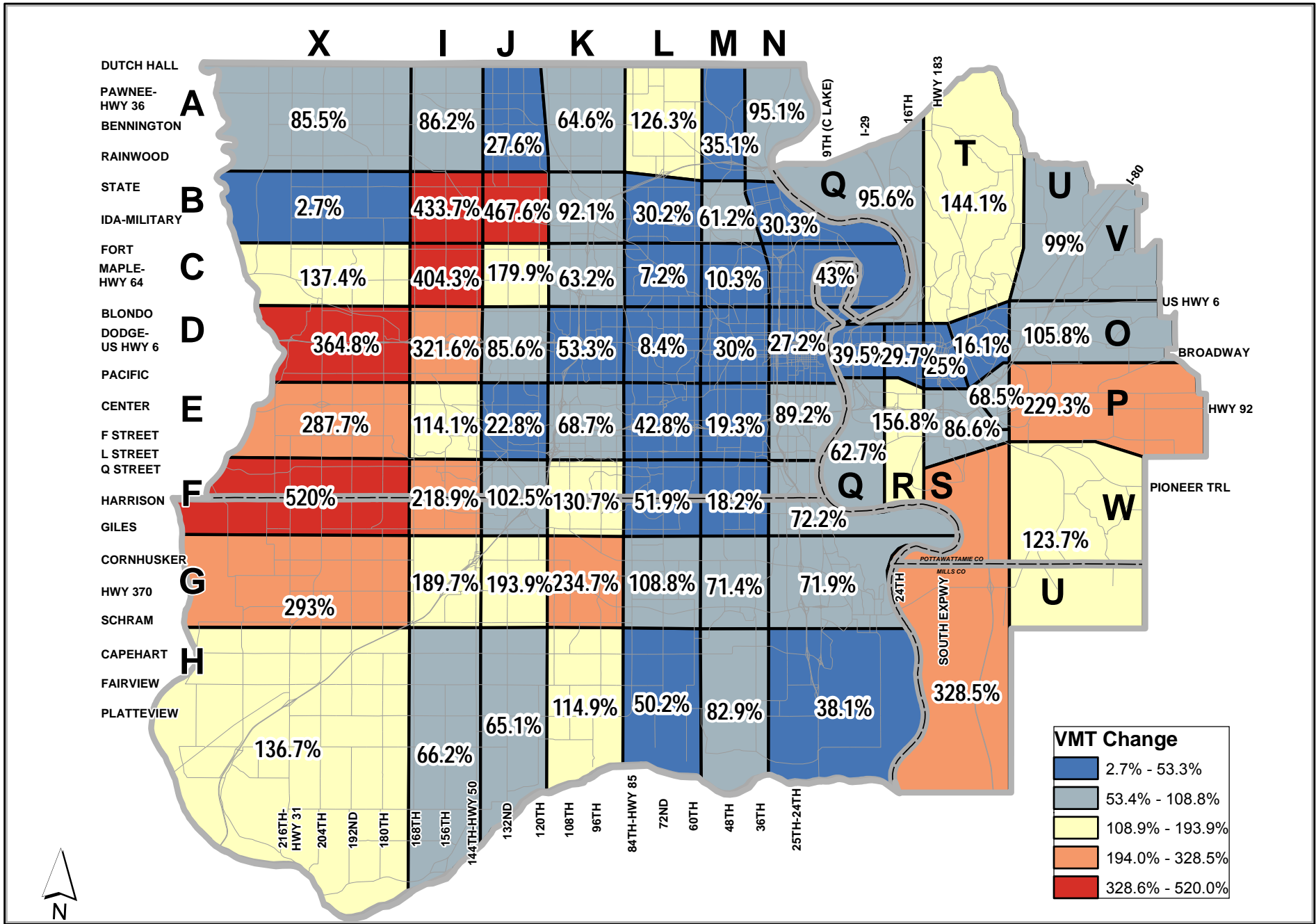
Estimated Change in Vehicle Miles Traveled (VMT) 2008 to 2010



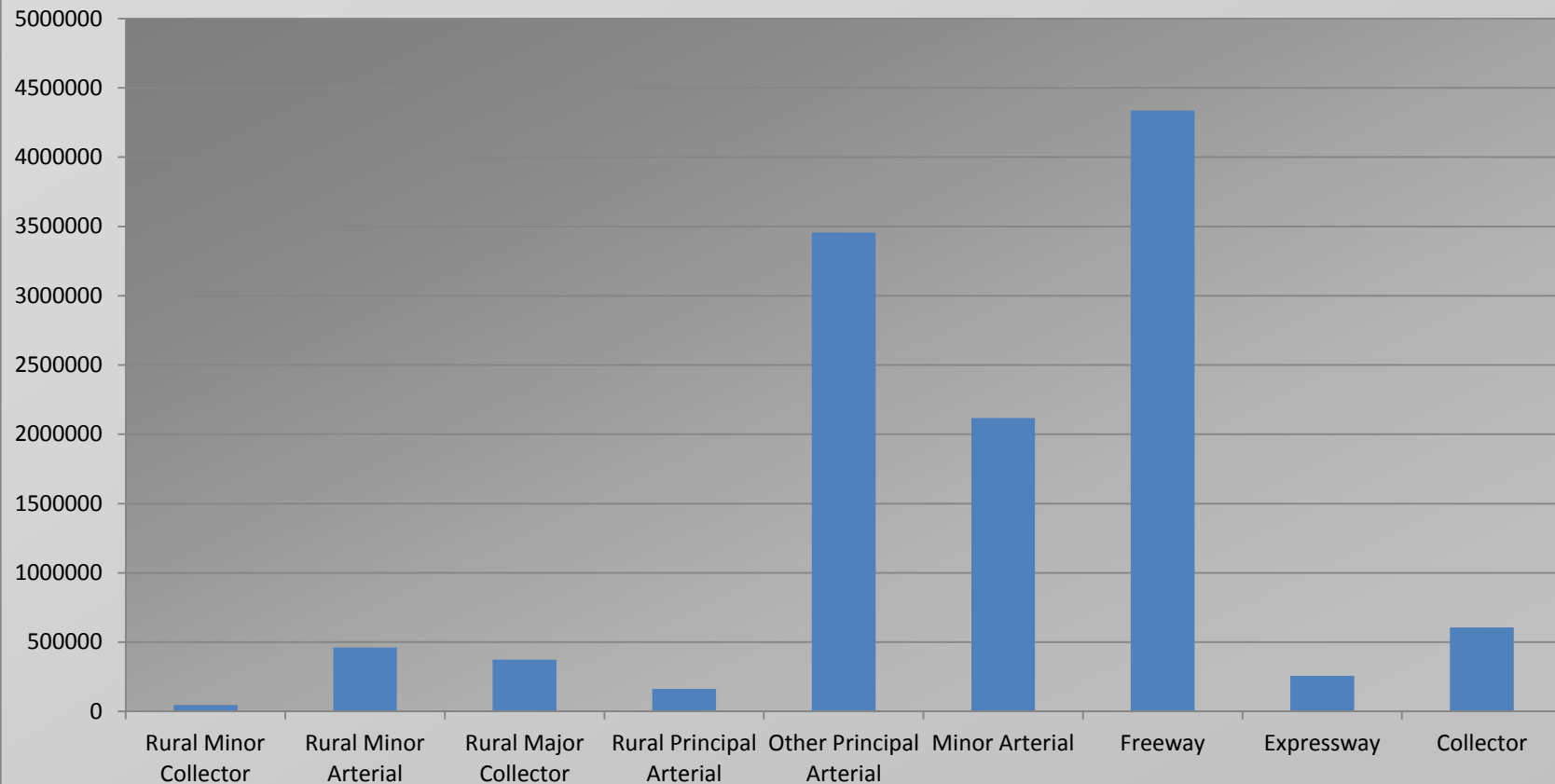
Estimated Change in Vehicle Miles Traveled (VMT) 2000 to 2010



Estimated Change in Vehicle Miles Traveled (VMT) 1990 to 2010



2010 Daily VMT by Functional Classification

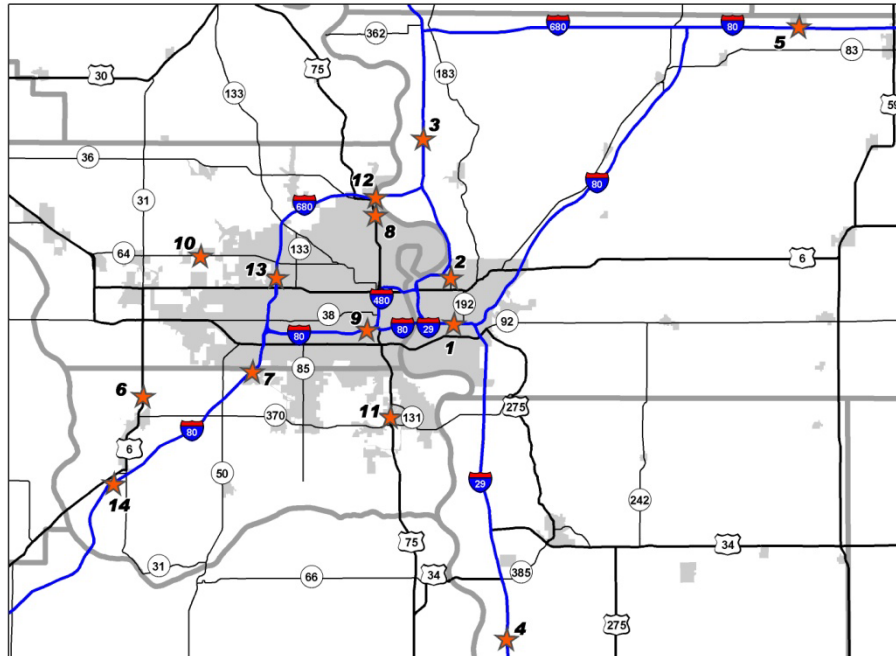


Rural Minor Collector	46,277	Freeway	4,337,244
Rural Minor Arterial	460,662	Expressway	256,987
Rural Major Collector	373,805	Collector	606,099
Rural Principal Arterial	161,104		
Other Principal Arterial	3,455,519		
Minor Arterial	2,116,615		

MAPA Area Continuous Traffic Counts

The States of Nebraska and Iowa both have traffic counting sites that count vehicles on a continuous basis, for all 365 days of the year, in the Omaha-Council Bluffs metro area. These counters, called “Automatic Traffic Recorders” (ATRs), provide an excellent source of traffic data. Traffic data and growth trends for the locations are shown below.

There are currently 14 ATRs in the region, with 9 on the Nebraska side and 5 on the Iowa side. The locations represent a mix of freeways and arterials, and are located in urban, suburban, and rural areas. Historically, these numbers have been consistent with data from MAPA’s Traffic Growth report. The ATR data increased by 2% between 2008 and 2010 which is consistent with the 1.5% growth shown in the Traffic Growth Report. Newly available data for the metro area in 2011 shows traffic decreased between 2010 and 2011 by around 1.7%.



Iowa ATR Locations:

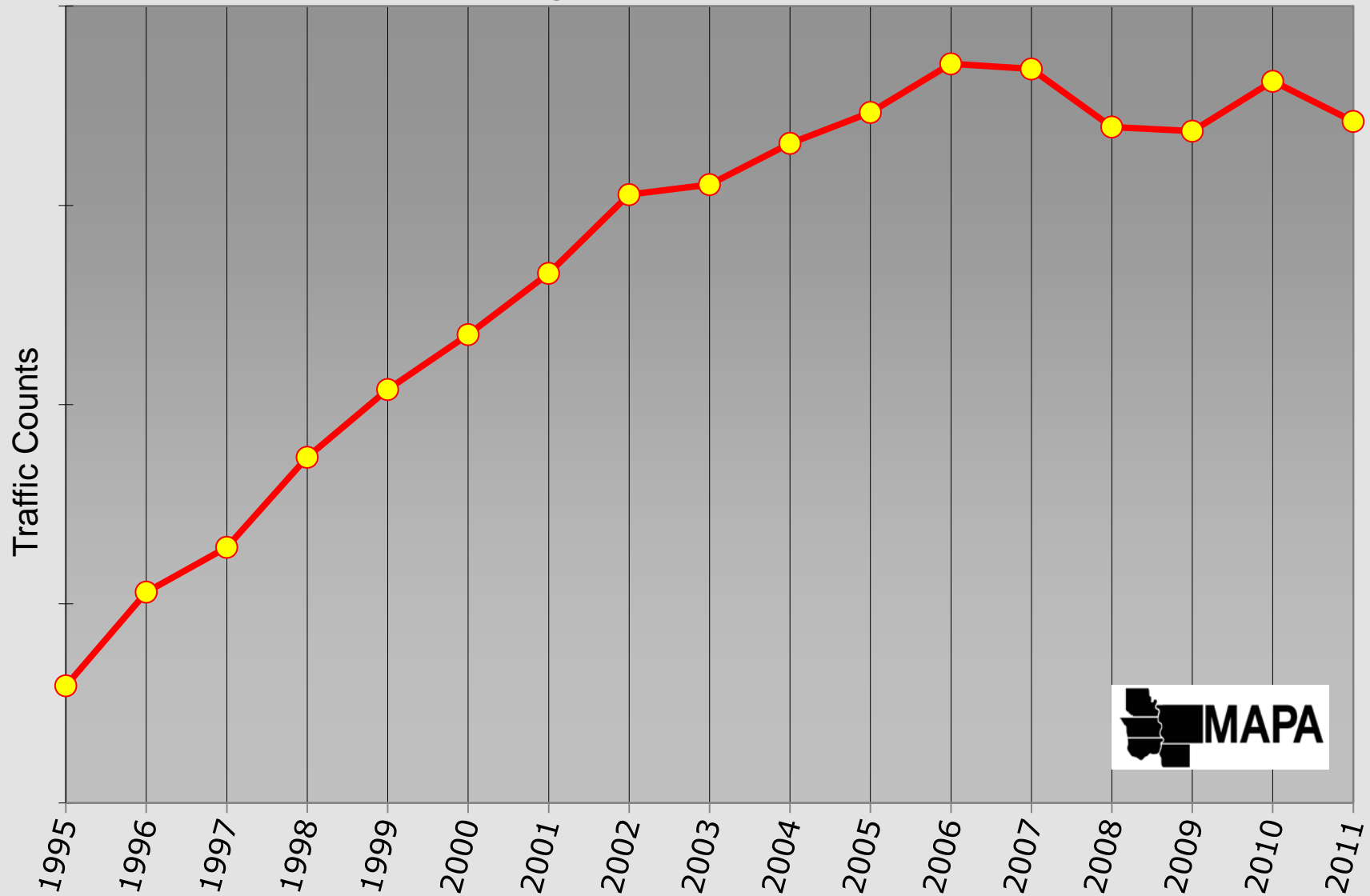
Annual Average Daily Traffic (AADT):

Route	Location	2000	2002	2004	2006	2008	2009	2010	2011
I-29/80	.6 Mi West of IA-192	69,496	76,024	75,623	79,350	79,516	75,586	75,988	71,830
IA 192	South of Ave N	10,474	10,061	9,442	9,047	8,858	9,057	8,719	6,428
I-29	3 Mi North of South I-680 Jct	20,202	21,070	21,319	21,484	21,033	20,171	20,593	18,729
I-29	4 Mi South of US-34 Jct (Pacific)	11,221	11,917	12,101	12,495	12,300	11,762	11,868	10,683
I-80	1.5 Mi West of Co M-16 (Shelby)	21,441	22,379	22,496	22,670	22,752	22,190	22,950	18,529

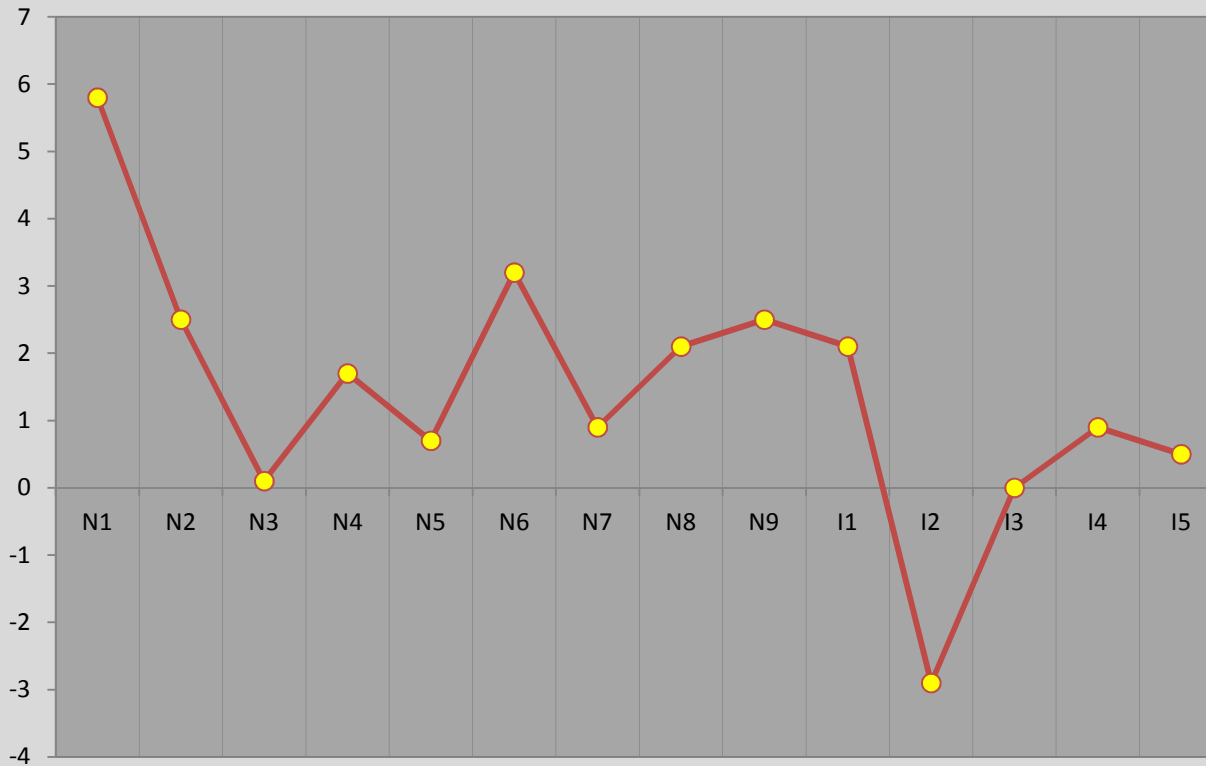
Nebraska ATR Locations:

Route	Location	2000	2002	2004	2006	2008	2009	2010	2011
US 6	North of Gretna	7,123	9,156	11,703	13,424	15,470	14,261	15,048	15,383
I-80	Just South of Douglas-Sarpy Line	49,930	53,750	56,682	60,285	57,913	58,408	60,148	59,745
US 75	30th Street South of I-680 in Omaha	15,277	14,932	14,708	14,607	14,549	14,515	14,218	14,207
I-80	I-80 at 36th Street in Omaha	158,153	166,966	168,298	170,739	165,167	164,863	166,955	174,490
N-64	At 160th Street	n/a	n/a	n/a	n/a	22,417	22,243	22,584	23,051
US 75	Just North of Jct. N-370 in Bellevue	40,355	43,806	44,441	44,273	42,463	42,282	43,712	43,197
I-680	Mormon Bridge in Omaha	15,141	16,046	16,254	15,656	15,401	14,717	16,000	15,688
I-680	I-680 North of Dodge Street	65,600	70,000	73,000	80,095	80,077	81,889	84,107	81,592
I-80	West of Gretna Interchange	33,158	36,595	39,500	41,400	38,889	38,924	40,830	40,565

MAPA MPO-Region ATR Counts 1995 - 2011



Average Growth Rates by Station 1995-2011



- | | | | |
|----|--------------------------------------|----|--------------------------------------|
| N1 | North of Gretna | N8 | I-680 North of Dodge Street in Omaha |
| N2 | Just South of Douglas - Sarpy Line | N9 | West of Gretna Interchange |
| N3 | 30th Street South of I-680 in Omaha | I1 | .6 Mi W of IA 192 Council Bluffs |
| N4 | I-80 at 36th Street in Omaha | I2 | S of Ave N Council Bluffs |
| N5 | At 160th Street | I3 | 3.0 Mi N of S Jct. I 680 Honey |
| N6 | Just North of Jct. N-370 in Bellevue | I4 | 4.0 Mi S of US 34 Pacific Jct. |
| N7 | Mormon Bridge in Omaha | I5 | 1.5 Mi W of CO M16 Shelby |