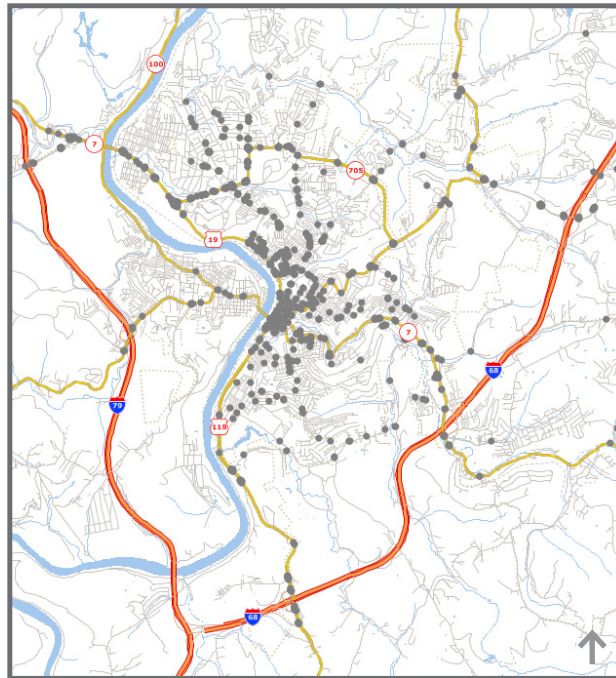


2015 Annual Traffic Report

Prepared by
Morgantown Monongalia Metropolitan Planning Organization

June, 2015



Morgantown Monongalia
Metropolitan Planning Organization

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1. INTRODUCTION

The purpose of this report is to provide the traffic and crash information in the greater Morgantown metropolitan area. It can also be used for analyzing traffic flows, monitoring the impact of regional development, calibrating the regional travel demand model, justifying highway investments, tracking the performance of traffic projects once they are installed, and other transportation-related purposes.

This document was prepared by MMMPO staff. The funding for this report was provided by the Federal Highway Administration, the West Virginia Department of Transportation, Monongalia County, and the City of Morgantown as provided for in the MMMPO's Unified Planning Work Program.

Data Source

The traffic count data in this report was collected for the MPO by the Traffic Group under contract to the West Virginia Department of Transportation. The data utilized in this report is housed on the West Virginia Department of Transportation's Traffic Server operated on behalf of the WVDOH by Transmetric. The 2015 traffic counts were conducted on April 8 and 9 for a 48-hour period at 76 count stations.

The crash data on state-owned roads was obtained from the WV DOH AgileAssets Management System. The crash data on city-owned roads were provided by the city of Morgantown. Crash data used in this report was collected in 2014.

The MMMPO makes no representation as to the accuracy of the data.

Data Availability

This report is available at the MMMPO website, www.planttogether.org. Directional and 15-minute interval volumes and more detailed information of each crash are available upon request.

2. OVERVIEW

REGIONAL ANNUAL DAILY TRAFFIC

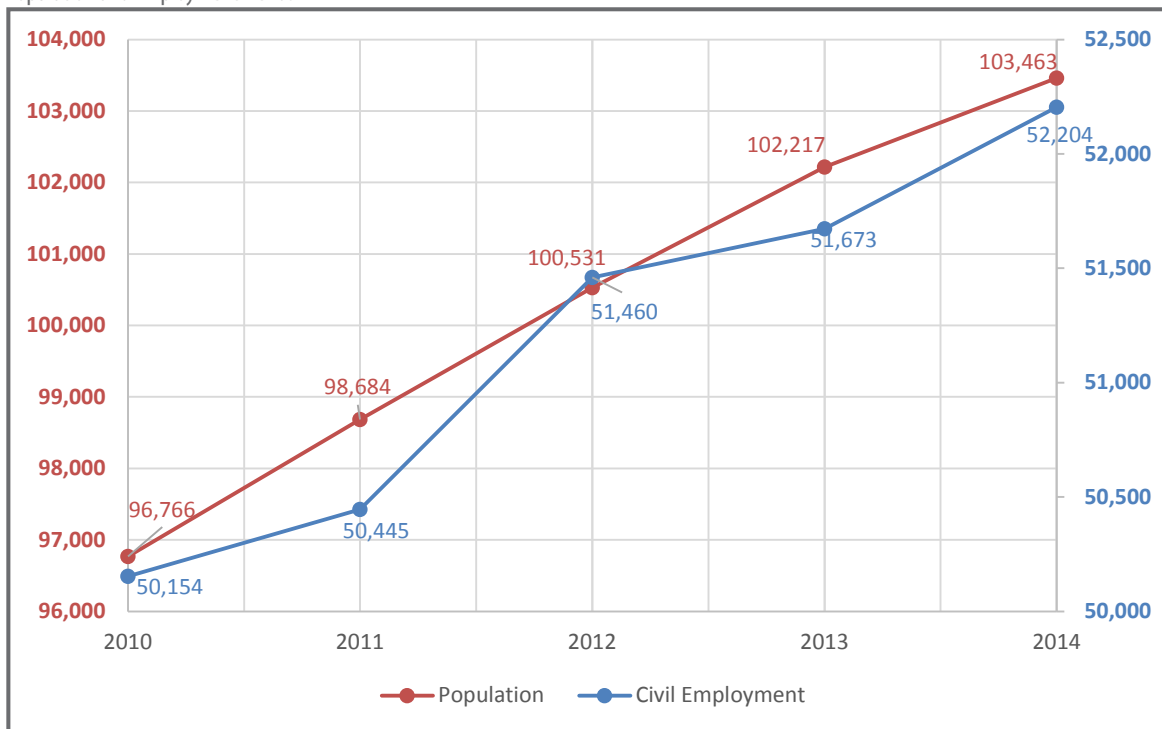
The Morgantown Monongalia MPO counts traffic on certain arterial streets in the Morgantown area. In 2015, there were 76 count stations, 12 of which were classification counts where vehicle types were identified.

Using the annual counts taken at several strategic locations, the MPO derives a proxy number for the regional motor vehicle average daily traffic (ADT). Count stations used for the regional ADT are:

- Count station 3114003 on Boyers Ave / Btw Leeway St and University Ave
- Count station 3114004 on Monongahela Blvd / Northwest of Patterson Dr
- Count station 3114026 on Cheat Rd / South of Old Cheat Rd
- Count station 3114038 on Pleasant St / Westover Bridge
- Count station 3114044 on University Ave / North of Greenbag Rd

The 2015 regional ADT is **110,407**. Population and employment trends are provided for context.

Population and Employment Trends

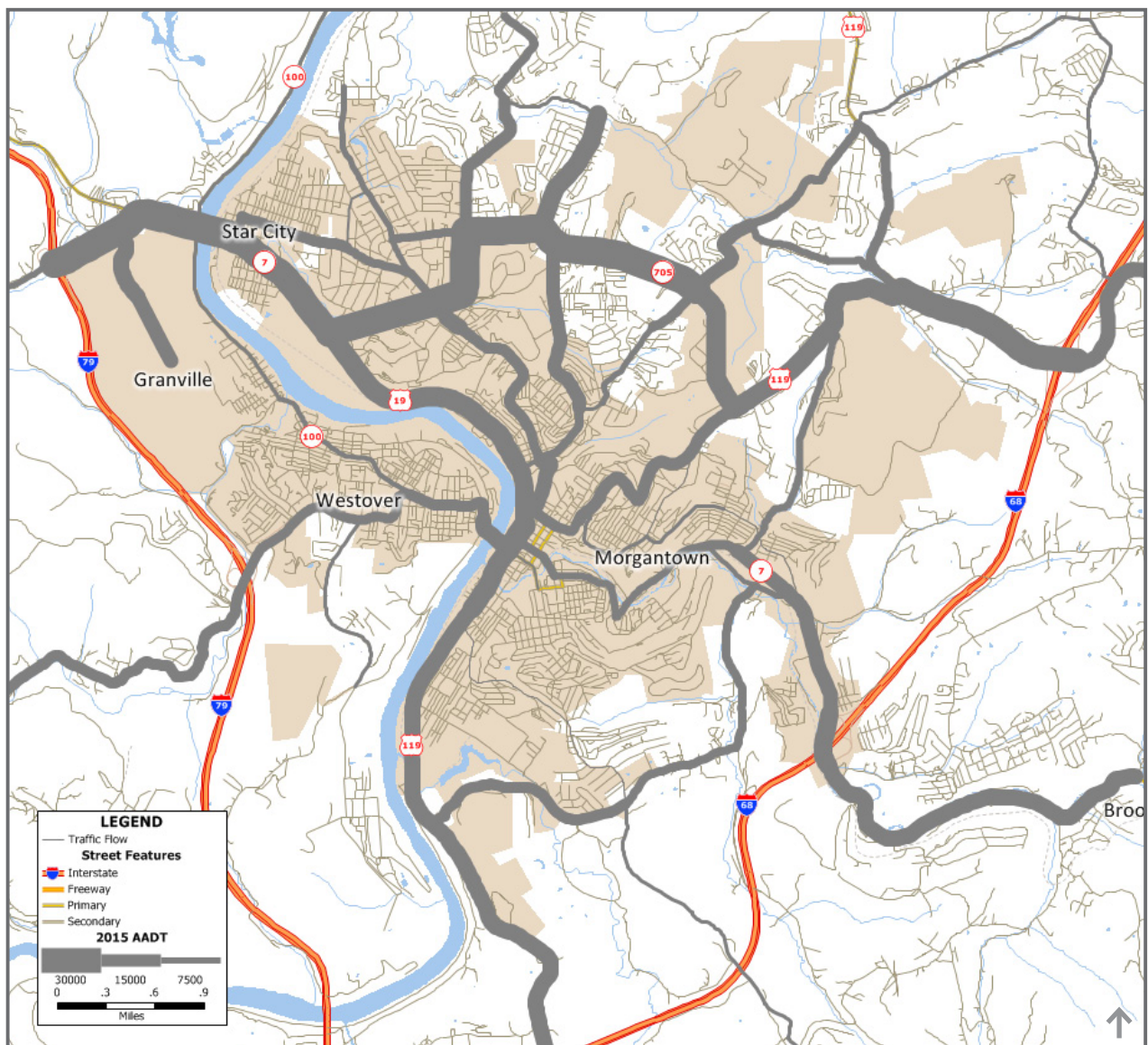


Source: U.S. Census Bureau and U.S. Bureau of Labor Statistics

3. TRAFFIC VOLUMES

2015 TRAFFIC FLOW MAP

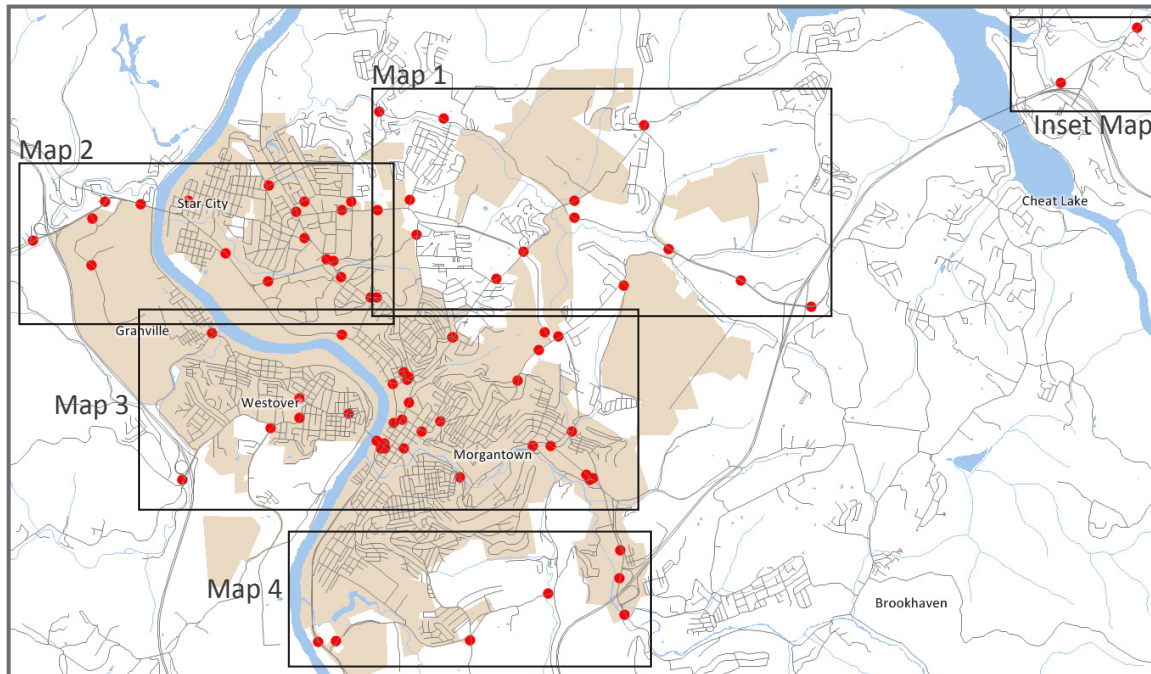
The traffic flow map estimates the traffic volume of a road segment, based on the AADT collected from the count station on that road. The MPO staff converted the point data of individual count stations to linear data representing sections of major roadways, on which counts were conducted or traffic volume could be reasonably estimated from nearby count stations.



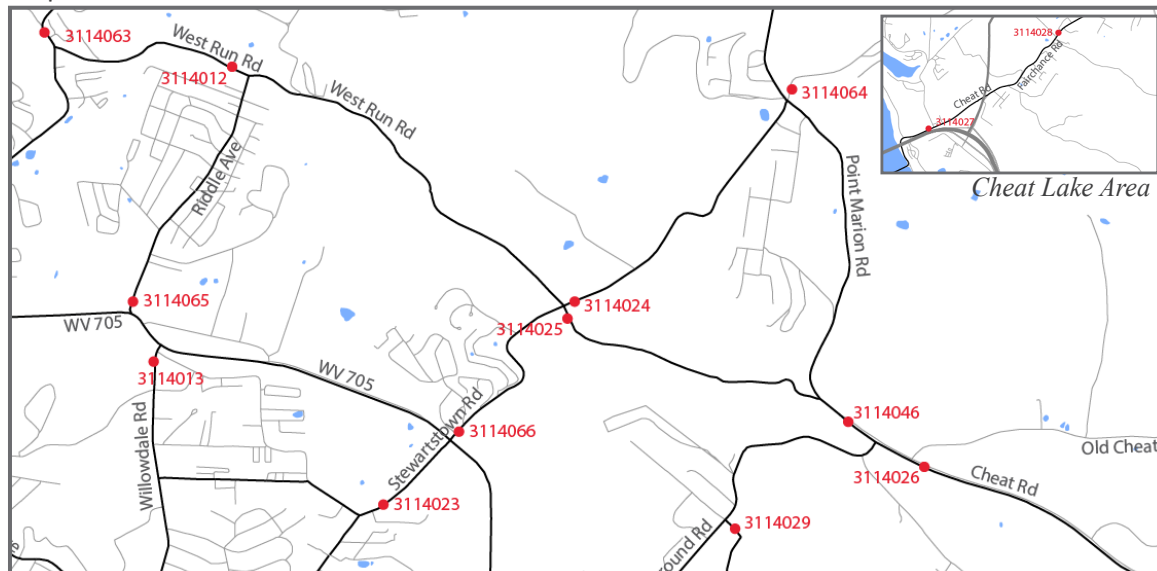
2015 VEHICLE COUNT MAPS AND INDEX

The MPO conducted annual traffic count at 76 locations in the Morgantown metropolitan area in 2015, increasing from 74 count locations as in 2014. Added count stations are the Station 3114075 on Monongahela Blvd / East of Emmett Dr and the Station 3114076 on Chaplin Hill Rd / West of I-68 Interchange. These two new count locations were suggested as part of the I-79 Access Study for the purpose of regional travel demand model calibration.

For illustration purpose, count stations are grouped in four maps and one inset map.

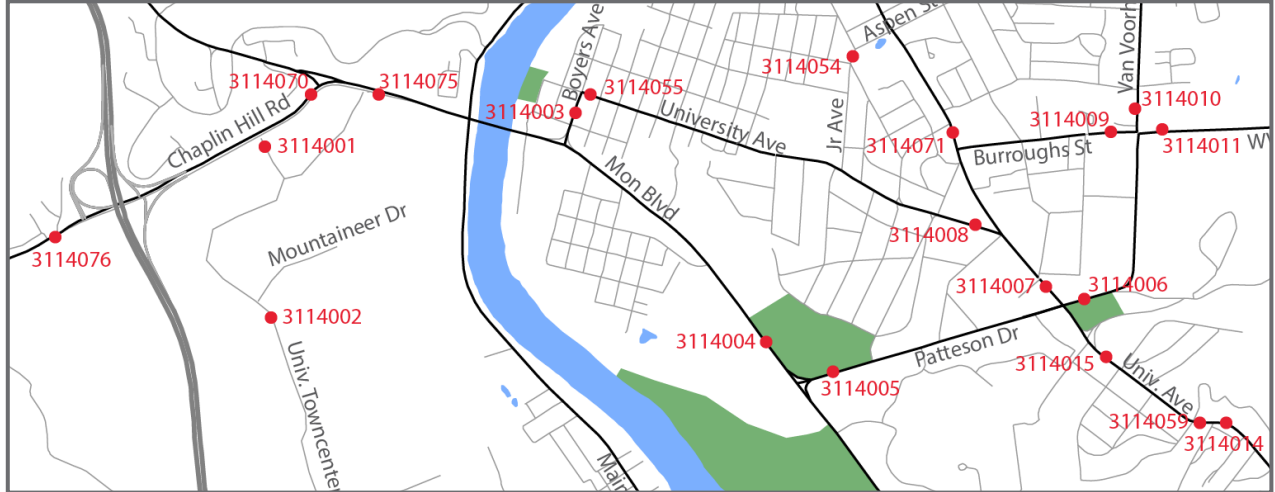


Map 1 *City of Morgantown (5th Ward, 6th Ward), Monongalia County*



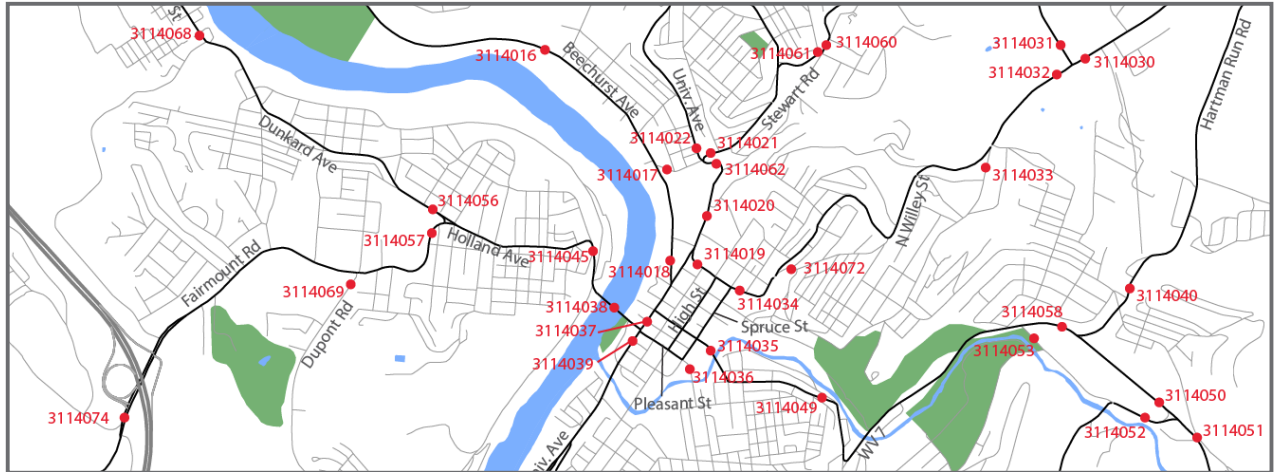
Map 2

Star City, Granville, City of Morgantown (4th Ward and 7th Ward), Monongalia County



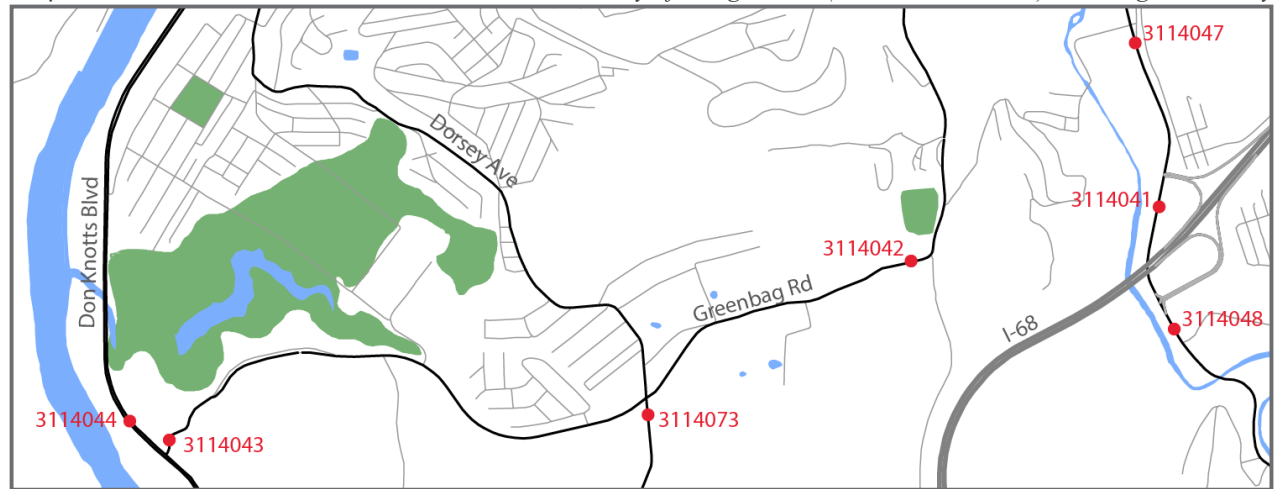
Map 3

Westover, City of Morgantown (1st, 2nd, 3rd, 5th, 6th Ward), Monongalia County



Map 4

City of Morgantown (1st Ward, 6th Ward), Monongalia County



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Station	Location	2011	2012	2013	2014	2015	5 Year Average	2015 Change*
3114001	University Town Center Dr / South of Chaplin Hill Rd	22,287	22,666	16,606	20,735	19,100	20,279	-8%
3114002	University Town Center Dr / South of Mountaineer Dr	13,783	16,209	15,916	23,071	17,675	17,331	-23%
3114003	Boyers Ave / Btw Leeway St and University Ave	13,188	12,273	13,727	13,105	11,980	12,855	-9%
3114004	Monongahela Blvd / Northwest of Patterson Dr	27,439	29,216	32,509	32,997	31,030	30,638	-6%
3114005	Patteson Dr / East of Monongahela Blvd	32,873	31,121	33,336	34,340	33,311	32,996	-3%
3114006	Van Voorhis Rd / Northeast of University Ave	43,715	41,328	39,067	41,105	37,467	40,536	-9%
3114007	University Ave / Northwest of Patterson Dr	12,206	9,893	10,252	9,733	9,817	10,380	1%
3114008	University Ave / West of Collins Ferry Rd	11,817	9,780	8,572	8,976	10,571	9,943	18%
3114009	Burroughs St / West of Van Voorhis Rd	9,702	10,369	10,588	10,814	9,821	10,259	-9%
3114010	Van Voorhis Rd / North of Burroughs St	14,535	15,510	14,683	15,548	15,661	15,187	1%
3114011	Chestnut Ridge Rd / East of Van Voorhis Rd	36,728	32,854	33,865	38,705	34,849	35,400	-10%
3114012	West Run Rd / West of Riddle Ave	5,830	6,459	6,837	6,086	5,086	6,060	-16%
3114013	Willowdale Rd / South of Chestnut Ridge Rd	8,757	16,310	15,026	16,575	15,868	14,507	-4%
3114014	University Ave / Southeast of 8th St	15,432	15,977	16,373	17,064	14,104	15,790	-17%
3114015	University Ave / Southeast of Evansdale Dr	17,283	18,184	21,322	--	18,951	18,935	--
3114016	Beechurst Ave / North of 8th St	17,728	21,422	22,285	24,428	24,715	22,116	1%
3114017	Campus Dr / Northeast of US 19	6,806	7,036	8,359	7,893	6,477	7,314	-18%
3114018	Beechurst Ave / North of Fayette St	21,731	23,194	24,091	25,567	22,539	23,424	-12%
3114019	Willey St / Northwest of Chestnut St	14,305	11,914	13,213	12,604	13,026	13,012	3%
3114020	University Ave / South of College Ave	20,653	13,367	18,500	18,164	18,480	17,833	2%
3114021	Stewart St / East of University Ave	10,278	8,566	8,911	8,287	10,612	9,331	28%
3114022	University Ave / South of 2nd St	12,560	13,105	13,184	--	11,380	12,557	--
3114023	Stewartstown Rd / Northeast of School St	9,931	10,024	11,237	11,254	11,319	10,753	1%
3114024	Stewartstown Rd / Northeast of West Run Rd	9,278	9,887	12,401	10,366	10,710	10,528	3%
3114025	West Run Rd / Southeast of Stewartstown Rd	7,691	8,367	10,107	7,374	8,693	8,446	18%

* 2015 Change = (2015 AADT - 2014 AADT) / 2014 AADT

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Station	Location	2011	2012	2013	2014	2015	5 Year Average	2015 Change
3114026	Cheat Rd / South of Old Cheat Rd	23,665	25,562	25,988	25,562	29,491	26,054	15%
3114027	Cheat Rd / North of County Route 88	--	3,160	4,424	4,364	3,528	3,095	-19%
3114028	Fairchance Rd / North of County Route 69	--	4,970	5,388	5,515	5,000	4,175	-9%
3114029	Hartman Run Rd / Southeast of Mileground Rd	8,576	8,737	--	9,715	8,403	8,858	-14%
3114030	Mileground Rd / East of WV 705	20,819	21,153	23,859	24,239	22,593	22,533	-7%
3114031	WV 705 / North of Mileground	22,591	25,737	25,245	26,528	24,730	24,966	-7%
3114032	Mileground Rd / South of WV 705	15,677	16,535	12,452	16,774	14,497	15,187	-14%
3114033	Charles Ave / Southeast of US 119	1,573	1,443	1,019	2,162	1,914	1,622	-11%
3114034	Willey St / Northeast of Spruce St	12,585	15,400	11,404	12,582	12,408	12,876	-1%
3114035	Walnut St / North of Brockway Ave	11,431	10,527	13,234	11,963	10,735	11,578	-10%
3114036*	Pleasant St / Pleasant Street Bridge	7,865	4,468	10,195	9,063	--	--	-69%
3114037	University Ave / Northeast of Pleasant St	22,775	23,315	26,135	20,116	26,803	23,829	33%
3114038	Pleasant St / Westover Bridge	19,679	20,034	23,041	20,060	18,872	20,337	-6%
3114039	University Ave / South of Westover Bridge	23,817	21,639	23,494	25,193	24,294	23,687	-4%
3114040	Hartman Run Rd / North of Richwood Ave	9,917	9,349	15,679	8,620	7,699	10,253	-11%
3114041*	Earl Core Rd / Btw EB & WB Ramps of I-68	20,525	21,087	22,225	23,127	--	21,741	--
3114042	Greenbag Rd / West of Lower Aarons Creek	11,248	11,092	10,512	11,818	9,878	10,910	-16%
3114043	Greenbag Rd / North of US 119	12,789	14,719	14,119	13,347	13,049	13,605	-2%
3114044	University Ave / North of Greenbag Rd	18,359	17,983	19,924	19,840	19,034	19,028	-4%
3114045	Holland Ave / South of W Park Ave	14,497	14,359	15,000	16,097	14,204	14,831	-12%
3114046	Point Marion Rd / North of Mileground Rd	12,966	13,900	19,069	11,521	11,684	13,828	1%
3114047	Earl L Core Rd / Btw Eljadid St & Sturgiss Ave	--	22,381	23,334	--	17,788	20,561	--
3114048	Earl L Core Rd / North of Brookhaven Rd	--	18,998	20,921	18,884	19,393	19,733	3%
3114049	Brockway Ave / East of Pennsylvania Ave	--	9,030	10,074	8,770	8,614	9,153	-2%
3114050	Earl Core Rd / North of Greenbag Rd	--	15,034	14,646	16,914	17,648	16,403	4%

* Count stations suggested for recount

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Station	Location	2011	2012	2013	2014	2015	5 Year Average	2015 Change
3114051	Sabraton Ave / Northeast of Earl Core Rd	--	2,900	2,864	--	1,613	2,239	--
3114052	Greenbag Rd / Southwest of Earl Core Rd	--	8,149	5,534	7,809	8,087	7,143	4%
3114053	Deckers Creek Rd / Southeast of Powell Ave	--	5,477	5,293	5,506	6,278	5,692	14%
3114054	Aspen Rd / Btw Collins Ferry & Western	--	3,326	3,879	3,570	3,151	3,533	-12%
3114055	University Ave / Btw Boyers & Pleasant	--	12,337	13,180	13,946	13,631	13,586	-2%
3114056	Holland Ave / Northwest of Fairmont Rd	--	5,500	5,660	6,261	5,820	5,914	-7%
3114057	Fairmont Rd / Southwest of Fairmont Rd	--	12,150	13,099	12,954	12,313	12,789	-5%
3114058	Earl L Core Rd / Northeast of Hartman Run Rd	--	10,578	11,652	11,421	11,716	11,596	3%
3114059*	University Ave / East of 8th St	--	16,804	17,557	15,700	--	16,629	--
3114060	Stewart St / South of Stewart Ln	--	8,092	8,783	9,609	7,994	8,795	-17%
3114061*	Stewart St / Btw Hoffman Ave and Protzman St	--	12,506	--	12,504	--	12,505	--
3114062	University Ave / Southeast of Stewart St	--	15,245	12,313	--	18,253	15,283	--
3114063	Van Voorhis Rd / North of West Run Rd	--	--	9,266	9,103	10,742	9,923	18%
3114064	Canyon Rd / Northeast of Point Marion Rd	--	--	3,424	3,268	4,045	3,657	24%
3114065	Pineview Dr / North of WV 705	--	--	18,411	16,048	22,192	19,120	38%
3114066	Stewartstown Rd / Northeast of WV 705	--	--	21,936	17,659	17,002	17,331	-4%
3114067	Cheat Rd / Southwest of S Pierpont Rd	--	--	17,814	18,041	18,333	18,187	2%
3114068	Dunkard Ave / North of Dents Run Blvd	--	--	5,228	4,265	4,544	4,405	7%
3114069	DuPont Rd / South of Fairmont Rd	--	--	4,783	5,045	4,782	4,914	-5%
3114070	Chaplin Hill Rd / South of Monongahela Blvd	--	--	--	36,465	34,025	35,245	-7%
3114071	Collins Ferry Rd / North of Burroughs St	--	--	--	7,640	7,526	7,583	-1%
3114072	Richwood Ave / North of N. Willey St	--	--	--	--	3,998	3,998	--
3114073	Kingwood Pike / South of Greenbag Rd	--	--	--	4,238	4,271	4,255	1%
3114074	Fairmont Ave / Northeast of Mall Rd	--	--	--	--	13,809	13,809	--
3114075	Monongahela Blvd / East of Emmett Dr	--	--	--	--	43,999	43,999	--
3114076	Chaplin Hill Rd / West of I-79	--	--	--	--	7,778	7,778	--

* Count stations suggested for recount

VEHICLE CLASSIFICATION COUNTS

Count Station	Location Description	Percentage of Truck Traffic	Truck Volume
3114006	Van Voorhis Rd / Northeast of University Ave	5%	1873
3114007	University Ave / Northwest of Patterson Dr	3%	275
3114024	Stewartstown Rd / Northeast of West Run Rd	6%	600
3114026	Cheat Rd / South of Old Cheat Rd	4%	1239
3114031	WV 705 / North of Mileground	3%	668
3114044	University Ave / North of Greenbag Rd	4%	685
3114045	Holland Ave / South of W Park Ave	4%	497
3114046	Point Marion Rd / North of Mileground Rd	4%	479
3114048	Earl L Core Rd / North of Brookhaven Rd	8%	1590

ANALYSIS OF VARIATION IN COUNTS

The construction of the Hartman Run Bridge impacted the 2015 counts at the following stations:

- Station 3114029, Hartman Run Rd/Southwest of Mileground Rd
- Station 3114040, Hartman Run Rd/North of Richwood Ave
- Station 3114051, Sabraton Ave/Northeast of Earl Core Rd

The construction of Mon General Hospital Complex at Maple Dr impacted the 2015 counts at the following stations:

- Station 3114065, Pineview Dr/North of WV 705

The construction of apartment complex on University Ave in 2014 impacted the 2014 counts. The variation of volumes between 2014 counts and 2015 counts were reflected at the following stations:

- Station 3114014, University Ave/Southeast of 8th St
- Station 3114017, Campus Dr/Northeast of US 19
- Station 3114021, Stewart St/East of University Ave
- Station 3114037, University Ave/Northeast of Pleasant St
- Station 3114060, Stewart St/South of Stewart Ln

At Station 3114002 (University Town Center Dr/South of Mountaineer Dr), there was 23% decrease in the 2015 count compared to the 2014 count. The 2014 count was considered abnormally high, which probably caused by the extended winter weather on March and early April of 2014 and the Easter Shopping Season at the following weekend (Sunday, 20 April, 2014). The 2015 count at this station is within a reasonable range, compared to the counts of 2011, 2012, and 2013 at that station.

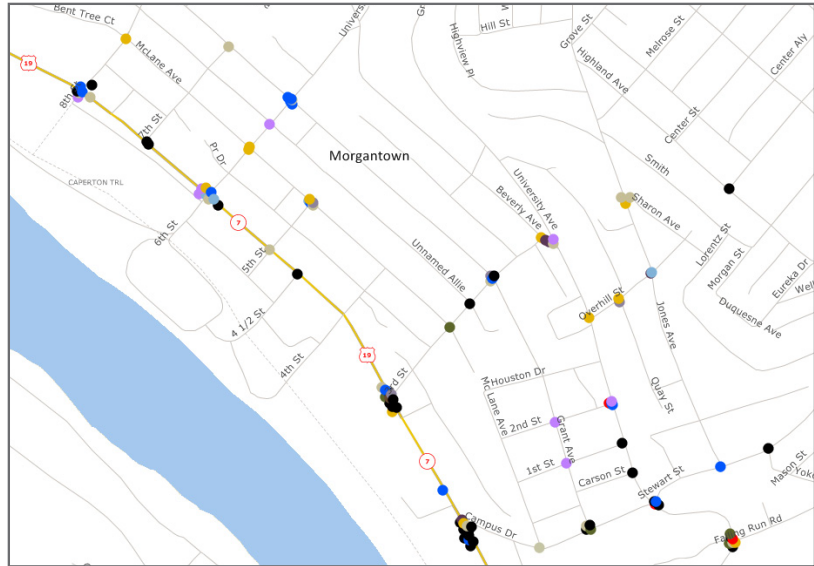
Station 3114008 (University Ave/West of Collins Ferry Rd) and Station 3114045 (Holland Ave/South of W Park Ave) have shown large variation in 2015 counts compared to 2014. However, the 2015 counts of the two stations were within a reasonable range, compared to the counts in 2011, 2012, and 2013. The cause of the abnormally high/low traffic volumes in 2014 counts were not specifically identified.

The following stations will be recounted in the fall of 2015, due to unexplainable variation:

- Station 3114036, Pleasant Street Bridge
- Station 3114041, Earl L Core Rd/Btw EB & WB Ramps of I-68
- Station 3114059, University Ave / East of 8th St
- Station 3114061 Stewart St/Btw Hoffman Ave and Protzman St

4. CRASH DATA (2014)

MAJOR INTERSECTION CRASH AREAS



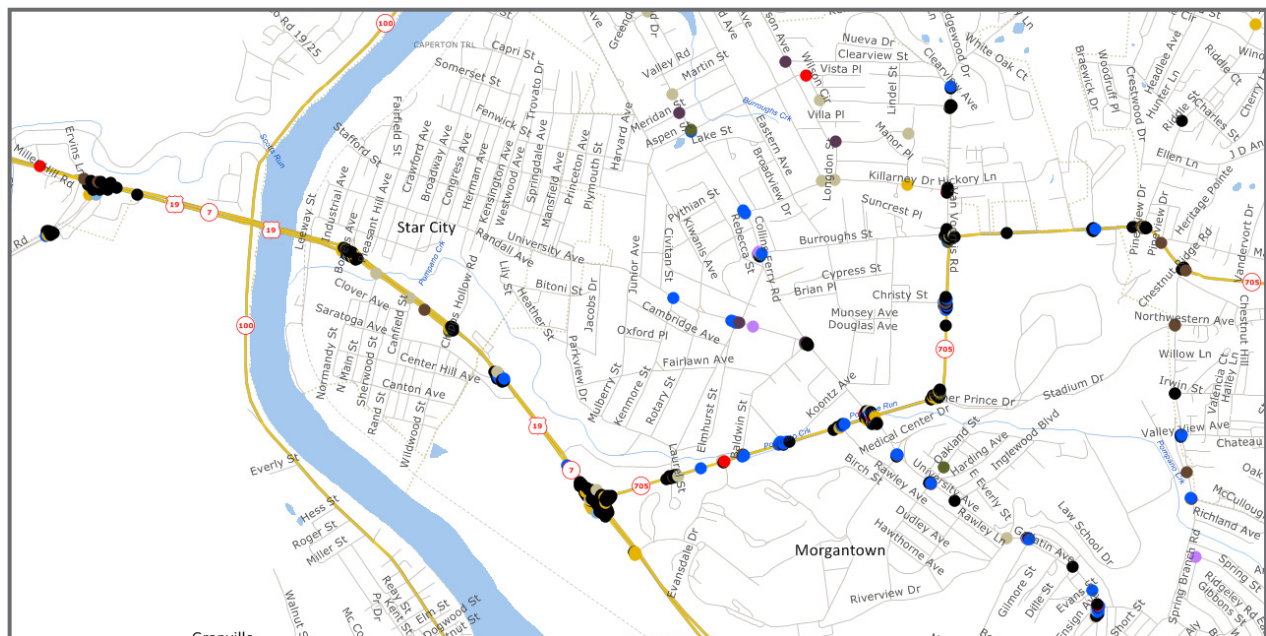
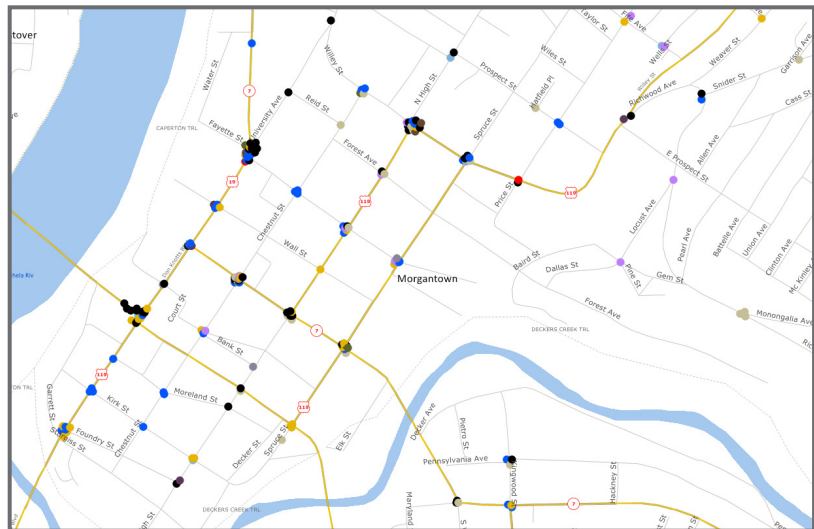
LEGEND

Street Features

- Interstate
- Freeway
- Primary
- Secondary

Collision Type

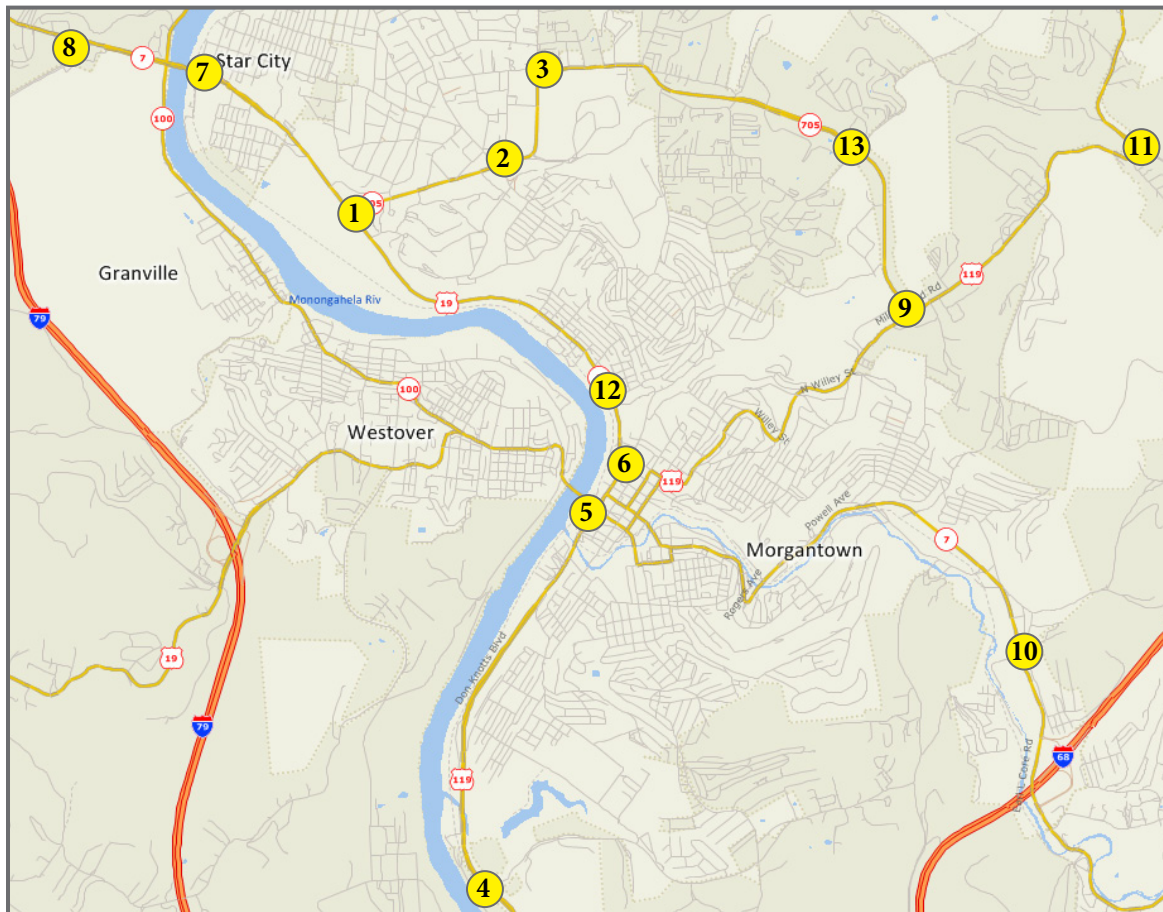
- Angle (Front to Side) Opp. Direction (46)
- Angle (Front to Side) Oppo. Direction (40)
- Angle (Front to Side) Same Direction (47)
- Angle - Direction Not Specified (51)
- Head-On (34)
- Rear End (419)
- Rear-to-Rear (6)
- Rear-to-Side (9)
- Right Angle (203)
- Sideswipe, Opposite Direction (39)
- Sideswipe, Same Direction (110)
- Single Vehicle Crash (126)



HIGH VOLUME INTERSECTION CRASH FREQUENCY

The following table shows the crash frequency at intersections with high traffic volumes in the Morgantown metropolitan area. No fatality was reported at those intersections in 2014.

Map #	Intersection	2014 Crash	2014 Injury Crash Percentage
1	Mon Blvd & Patteson Dr	56	20%
2	Patteson Dr & University Ave	34	26%
3	Van Voorhis Rd & Chestnut Ridge Rd	29	21%
4	Greenbag Rd & Don Knotts Blvd	19	26%
5	University Ave & Pleasant St	17	12%
6	University Ave & Beechurst Ave	17	0%
7	Mon Blvd & Boyers Ave	17	29%
8	Mon Blvd & Chaplin Hill Rd	15	7%
9	WV 705 & Mileground Rd (Roundabout)	14	0%
10	Earl L Core Rd & Eljadid St	16	19%
11	Mileground Rd & Cheat Rd	14	21%
12	Beechurst Ave & Campus Dr	12	33%
13	WV 705 & Stewartstown Rd	10	30%

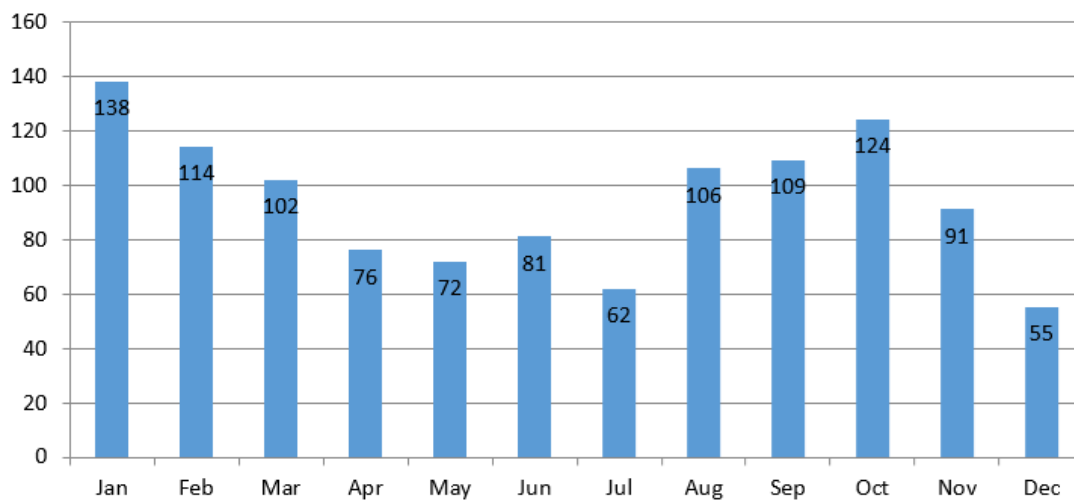


INTERSECTION CRASH TYPES

Crash Types	2014 Crash	Percentage
Rear End	419	37%
Right Angle	203	18%
Single Vehicle Crash	126	11%
Sideswipe, Same Direction	110	10%
Angle (Front to Side) Same Direction	47	4%
Head-On	34	3%
Sideswipe, Opposite Direction	39	3%
Rear-to-Rear	15	1%
Angle (Front to Side) Opposite Direction	86	8%
Angle - Direction Not Specified	51	5%

2014 CRASH FREQUENCY BY MONTH

The following table shows the total number of reported crashes in the area in 2014 by month.



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Metropolitan Planning Organization