



82 Hart Field Road Suite 105  
Morgantown, WV 26508  
(304) 291-9571  
[www.plantgether.org](http://www.plantgether.org)

### Agenda

MPO Transportation Technical Advisory Committee Meeting  
MPO Conference Room  
Morgantown Airport Terminal  
August 11, 2015  
1:30 PM

1. Call To Order
2. Approval of Minutes
3. TIP Amendments
4. University Avenue Complete Streets Study and I-79 Access Study Updates
5. Westover/Granville Pedestrian Study Demographics Chapter
6. Status Report on ongoing projects-WVDOH
7. Other Business
8. Meeting Adjournment



82 Hart Field Road  
Morgantown, WV 26508  
(304) 291-9571

[www.plantgether.org](http://www.plantgether.org)

### Memorandum

Date: August 5, 2015  
To: Transportation Technical Advisory Committee Members  
From: Bill Austin, AICP  
Subject: August 11, 2015 TTAC Agenda

Please find below a short description of the items to be considered at the August 11, 2015 CAC Meeting to be held at the MPO Office in the Conference Room at 1:30 PM.

**-Transportation Improvement Program Amendments-**The Division of Highways has requested the following TIP Amendments:

The West Virginia Department of Transportation-Division of Highways has requested the following amendment:

### FY 2015-2016 Add

**Boyers Avenue/US 19 (Monongahela Boulevard) Intersection Improvement**-add turn lane-

Right of Way Project NHPP0019438D Total Cost \$ 1,000 Fed. Funds \$ 800 State Funds \$ 200

Engineering Project NHPP0019437D Total Cost \$ 5,000 Fed. Funds \$ 4,000 State Funds \$ 1,000

Construction Project NHPP0019439D Total Cost \$ 577,000 Fed. Funds \$ 461,600 State Funds \$ 115,400

**Collins Ferry Road** Resurface from University Avenue to Morgantown City Limits .95 miles. Project ACST0057017D Total Cost \$ 66,290 State Funds \$ 66,920

**Grafton-Morgantown Road (US 119)** Resurface from Monongalia County/Taylor County line north 1.15 miles to south of CR 76, Project ACST0119424D Total Cost \$ 90,600 State Funds \$ 90,600

**Harner/West Run (CR 67/1)** Resurface from CR 61/4 to CR 67 1.23 miles-Project ACST0671007D Total Cost \$ 95,700 State Funds \$ 95,700

**Van Voorhis Road (CO59)** Resurface, widen add gutter from WV 705 to CR 67/1 (West Run) Construction Project ACST0059005D Total Cost \$ 1,375,000 Previously State Funded inclusion makes project eligible for Federal Funds

**Indian Creek Road (CR 41)** Resurface from CR 61/4 to CR 67 1.42 miles Project ACST00411079D Total Cost \$ 116,300 State Funds \$ 116,300

**Mason Dixon Highway (WV 7)** Resurface from CR 7/4 to CR 11 2.09 miles Project NHPP 0007277D Total Cost \$ 179,700 State Funds \$ 179,600

**Morgantown Bicycle Signs** (Various Locations) Project TEA2014195D Total Cost \$ 120,000 Federal Funds \$ 96,000 City of Morgantown \$ 24,000

**I-68/Pierpont Road Interchange-** EB Ramp Widen and add turn lanes  
Right of Way Project NHPP0068170D Total Cost \$ \$1,000 Federal Funds \$ 900 State Funds \$100  
Engineering Project NHPP0068169D Total Cost \$ 10,000 Federal Funds \$ 9,000 State Funds \$1,000  
Construction Project (FY 2016-2017) NHPP0068171D Total Cost 320,000 Federal Funds \$ 320,000 State Funds \$ 288,000

**River Road (CO 45)** Resurface from CR 40 to CR 45/8 1.51 miles Project ACST0045070D Total Cost \$ 124,000 State Funds \$124,000

**Smithtown Road (CR 73)** Resurface from Milepost 4.40 to Milepost 6.16 (Junction with CR 73/5) 1.69 miles Total Cost \$152,300 State Funds \$152,300

**Smithtown Road (CR 73)** Resurface from CR 55 to Milepost .40 (.52 miles north of CR 45/5) 1.66 miles Project ACST0073082D Total Cost \$ 117,360 State Funds \$ 117,360

**University Avenue (CR 55)** Resurface from MP0.40 to MP 1.35 (WV 705) 0.95 miles Project ACST0055040D Total Cost \$69,100. State Funds \$69,100

#### **FY 2016-2017 ADD**

**Collins Ferry Connector-**Rail Trail connector from Collins Ferry Road to Rail Trail 0.01 miles Engineering Project NRT2014220DTC Total Cost \$19,000 Federal Funds \$19,000  
Construction Project NRT2014221 Total Cost \$56,000 Federal Funds \$44,800 Local Funds \$11,200.

**Deckers Creek Trail Repairs** Repair Rail Trail pavement repair Engineering-Project NRT2014222DTC Total Cost \$29,344 Federal Funds \$29,344

**Foundry Street Linkage Trail** Construct connection between Foundry Street and Deckers Creek Trail in Morgantown  
Engineering Project TAP2014218DTC Total Cost \$ 12,580 Federal Funds \$ 12,580  
Construction Project TAP2014219D Total Cost \$ 30,320 Federal Funds \$ 24,256 Local Funds \$ 6,064

**Morris Builders Bridge Replacement +1** two bridges Scotts Run, 0.20 miles east of CR 19/12  
Construction Project ACST1925001D Total Cost \$ 1,125,000 State Funds \$ 1,125,000

**Everettville Bridge Replacement** CR 45 bridge over Indian Creek 0.05 miles west of CR 45/5  
Construction Project ACST0045069D Total Cost \$ 500,000 State Funds \$ 500,000

**Arnettville Arch Bridge Replacement** US 19 0.06 miles south of CR 45  
Construction Project ACST0019425D Total Cost \$ 1,200,000 State Funds \$ 1,200,00

**Administrative Adjustments**

**Walnut Street Streetscape** Construct crosswalks Project TEA2012638 Total Cost \$ 297,600  
Federal Funds \$ 238,000 Local Funds move project to FY 2015-16 from FY 2014-15

**Patteson Drive (WV705) Lighting** Install lighting from US 19 (Monongahela Boulevard) to vicinity of University Avenue CR 55) Project HSIP0705016D Total Cost \$ 50,000 Federal Funds \$ 45,000 State Funds \$ 5,000 move project to FY 2016-2017

**Westover Park Loop** Construct pedestrian facility for Westover Park Project TEA 2012

Please note that Administrative Adjustments do not require action by the MPO Policy Board. It is requested that the TTAC recommend approval of the TIP Amendments to the MPO Policy Board.

**-Westover/Granville Pedestrian Study Demographics Chapter-**Please find enclosed a copy of the draft Demographics Chapter for the Westover/Granville Pedestrian Study. We would appreciate your review and any suggestions to improve the Chapter you may have.



82 Hart Field Road Suite 105  
Morgantown WV, 26505  
[www.planttogether.org](http://www.planttogether.org)

## **MINUTES**

MPO Transportation Technical Advisory Meeting  
Morgantown Airport Terminal Building 1<sup>st</sup> Floor  
Morgantown Monongalia MPO Conference Room  
June 9, 2015  
1:30 PM

### **Members Present**

Fouad Shoukry-WV DOH, Brian Carr-WV DOH, Chris Fletcher-City of Morgantown, Rich Wood-Monongalia County, Dave Bruffy-Mountain Line Transit, Bill Austin-MMMPO

### **Others Present**

Jing Zhang-MMMPO

### **1. Call to Order**

Mr. Austin called the meeting to order at 1:30 PM.

### **2. Approval of Minutes**

Mr. Austin noted that the minutes of the May meeting were included in the agenda packet. Mr. Wood moved to approve the minutes as presented; seconded by Mr. Bruffy. With no discussion, the motion was unanimously approved.

Mr. Austin then noted that the TTAC held a special meeting for the Beechurst Ave restriping project and the minutes of that meeting were also included. Mr. Wood moved to approve the minutes as presented; seconded by Mr. Fletcher. With no discussion, the motion was unanimously approved.

### **3. TIP Amendments**

Mr. Austin noted that the Division of Highways has requested the following TIP Amendment. The project is to add a pedestrian access between Caperton Rail Trail and the Rivers Landing Shopping Center in Star City. Mr. Austin noted that this project will enable residents of Star City living in the Coliseum area to walk to the Caperton Rail Trail without crossing Monongahela Blvd. It will bring a very positive impact to the community. Mr. Wood moved to recommend

approve of this TIP Amendment to the Policy Board; seconded by Mr. Fletcher. With no discussion, the motion was unanimously approved.

#### **4. MPO Traffic Count Report**

Mr. Austin noted that the 2015 MPO Traffic Count Report was included in the agenda package. Mr. Austin noted that MPO staff adopted an analytical approach in preparing the traffic count report. The MPO will request recount at four locations in the coming fall. Mr. Austin then noted that this is a concise version of traffic report and the MPO will apply this format to future traffic count reports. The MPO will also produce a comprehensive version of traffic report every three years. The comprehensive version will include time of day information and directional volumes at each count station.

Mr. Bruffy noted that having a map showing traffic volume by road width is very informative for the public to understand the traffic pattern in the area. He then noted that it would be helpful to have a map showing crash locations and a table showing the estimated cost of each crash location. Mr. Fletcher suggested adding the crash percentage information at intersections to the overall report and to add a map showing intersections with high crash frequency.

Mr. Carr noted that there were count stations with significant changes of AADT from 2014 to 2015. He asked if the data presented in this report will be used in I-79 Access Study and University Corridor Complete Street Study. Mr. Austin noted that this report documented major events and construction during the count period to identify potential causes of large variation in traffic volume between years. The data in this report will be used in the MPO's current studies. Mr. Fletcher moved to accept the Traffic Count Report with recommended changes; seconded by Mr. Bruffy. With no discussion, the motion was unanimously approved.

#### **5. University Avenue Complete Streets Study and I-79 Access Study Update**

Mr. Austin noted that the MPO staff is working with consultants and stakeholders on the I-79 Access Study and the University Ave Corridor Complete Street Study. He noted that next week, the consultant will hold a public meeting at the WVU Erikson Alumni Center and a walk-about along University Ave to gather public input on how to improve the University Ave Corridor. Mr. Austin noted that I-79 Study is updating the modeling, which include integrating new origin-destination data in the MPO's regional model.

#### **6. Creation of a Committee to Revise the MPO's Public Involvement Policy**

Mr. Austin noted that the MPO is in the process of updating its Public Involvement Policy. Mr. Austin asked for a volunteer to serve on a committee to review Public Involvement Policy recommendations. Mr. Fletcher noted that he is willing to serve on the Committee. Mr. Bruffy suggested that the scope of public involvement be associated with the potential impact level of proposed projects, in which projects of high impact potentials require more extensive public involvement than those with low impact potential.

#### **7. Review of Draft outline for the Westover/Granville Pedestrian Study**

Mr. Austin noted that a draft outline for the Westover/Granville Pedestrian Study is included in the agenda package. He noted that the MPO will work with Westover and Granville to develop a pedestrian plan during FY 2015-2016. This study will be conducted in house. Mr. Austin noted

that this is an informational item and requires no action from this committee. Mr. Carr noted that he is willing to participate in the project.

### **8. Status Report on Ongoing Projects-WVDOH**

Mr. Shoukry noted that the district office has been working on the intersection improvement project on Brookhaven Rd and WV 7. The preliminary plan for this project will be done in the next few weeks and will be submitted to the central office in Charleston for review. He then noted that the DOH has completed the construction of the Park-and-Ride parking lot at the I-68 Cheat Lake Exit. Mr. Carr noted that he will attend a meeting for the Collins Ferry Rd/University Ave intersection project tomorrow and will inform the MPO about public meeting on that project.

### **9. Other Business**

Mr. Shoukry presented a draft plan to improve the eastbound ramp at I-68 Exit 7. He proposes to install two dedicated left-turn lanes on the eastbound ramp at that exit.

Mr. Shoukry then presented a draft plan to improve the intersection of Monongahela Blvd and Boyers Ave. The project will add two protected right-turn lanes from Boyers Ave to Mon Blvd and to add one southbound travel lane on Boyers Ave from University Ave to Monongahela Blvd. The purpose of this project is to reduce congestion on Boyers Ave and University Ave. Mr. Austin noted that this project will also improve the northbound traffic flow from Mon Blvd to University by creating a left-turn bay to Leeway St.

Mr. Shoukry then noted that the district office is developing a plan to improve the Campus Dr. and Beechurst Dr intersection. It will include widening the Campus Dr. leg by shifting the existing sidewalk and utility pole toward the south. Mr. Shoukry asked Mr. Zhang to perform a traffic model simulation to estimate the change of level of service based proposed improvements. Mr. Austin noted that it is beneficial to coordinate this project with the University Ave Complete Street Study. Mr. Fletcher noted that it is important to consider the potential impact of expected improvements at 3<sup>rd</sup> Street.

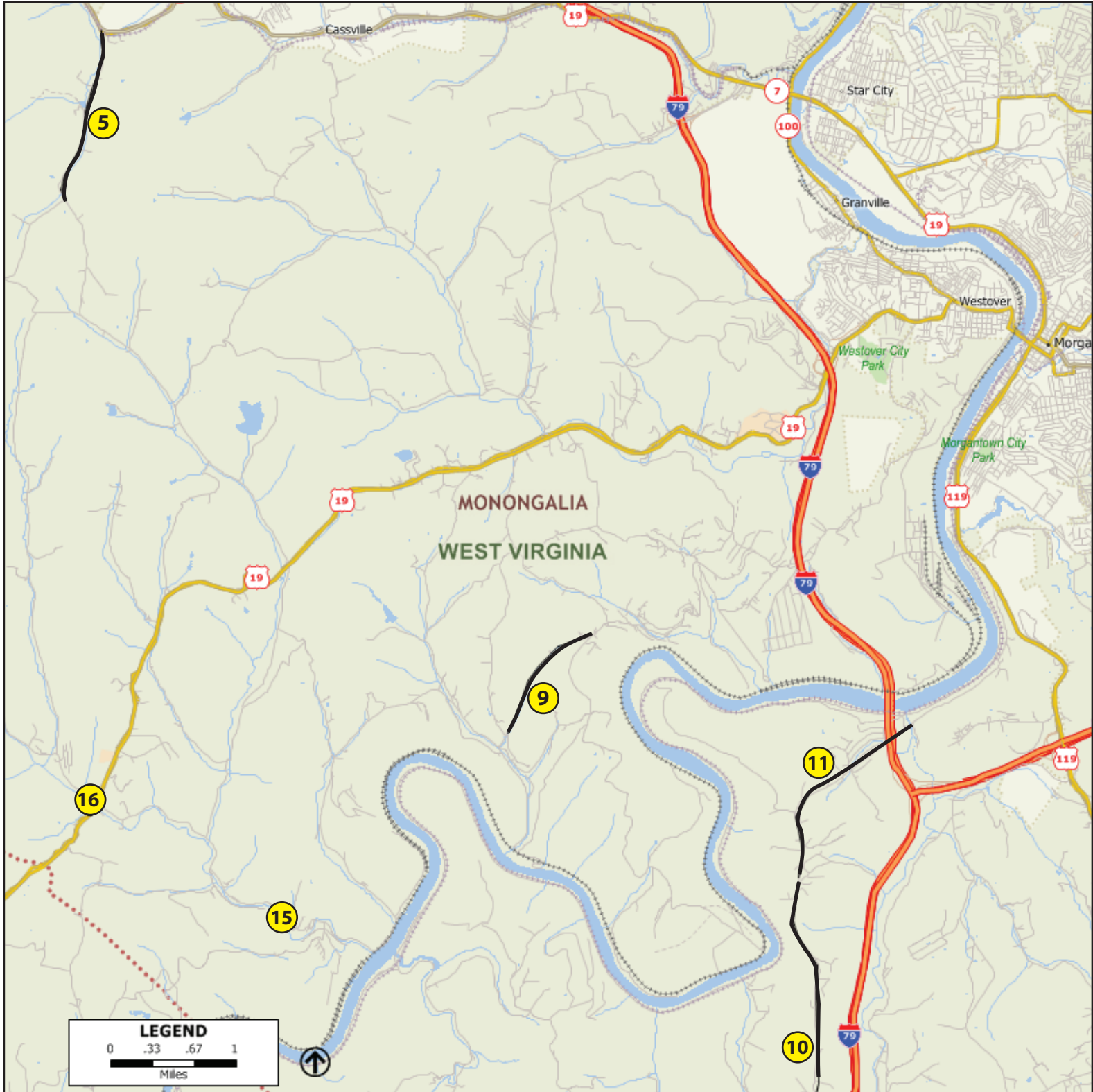
### **10. Meeting Adjournment**

There being no further business. The meeting adjourned at 2:37 PM.



- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li><b>1</b> Boyers Ave/US 19 Improvements (Engineer/Right-of-Way/Construction)</li> <li><b>2</b> Collins Ferry Rd Resurface. from University Avenue to Morgantown City Limits .95 miles.</li> <li><b>3</b> Grafton-Morgantown Rd Resurface (not shown on map) from Monongalia County/Taylor County line north 1.15 miles</li> <li><b>4</b> Harner/West Run (CR 67/1) Resurface from CR 61/4 to CR 67 1.23 miles</li> <li><b>6</b> Mason Dixon Highway Resurface (not shown on map) from CR 7/4 to CR 11 2.09 miles</li> <li><b>7</b> Morgantown Bicycle Signs not shown on map</li> </ul> | <ul style="list-style-type: none"> <li><b>8</b> I-68/Pierpont Road Interchange (not shown on map) EB Ramp Widen and add turn lanes</li> <li><b>12</b> University Avenue Resurface from MP 0.40 to MP 1.35 (WV 705) 0.95 miles</li> <li><b>13</b> Van Voorhis Road Resurface widen add gutter from WV 705 to CR 67/1 (West Run)</li> <li><b>17</b> Collins Ferry Connector Rail Trail connector from Collins Ferry Road to Rail Trail</li> <li><b>18</b> Deckers Creek Trail Repairs trail pavement repair</li> <li><b>19</b> Foundry St. Linkage Trail</li> </ul> |
|---|---|





- |   |  |
|---|--|
| <p><b>5</b> Indian Creek Rd Resurface<br/>from CR 61/4 to CR 67 1.42 miles</p>                | <p><b>11</b> Smithtown Road Resurface<br/>CR 55 to Milepost .40.1.66 miles</p> |
| <p><b>9</b> River Road Resurface<br/>from CR 40 to CR 45/8 1.51 miles</p>                     | <p><b>14</b> Morris Builders Bridge (on Page 1)<br/>replace bridge</p>         |
| <p><b>10</b> Smithtown Road Resurface<br/>from Milepost 4.40 to Milepost 6.16. 1.69 miles</p> | <p><b>15</b> Everettville Bridge Replacement</p>                               |
|   | <p><b>16</b> Arnettville Arch Bridge Replacement</p>                           |

# **Westover/Granville Pedestrian Study**

**Existing Condition: Draft Census Data Analysis**

## PURPOSE

The census data analysis is a part of the Existing Condition Report of Westover/Granville Pedestrian Study. The purpose of this analysis is to 1) identify existing and potential demand for pedestrian facilities, and document the demand for need assessments; 2) provide information for pedestrian facility operation and design, such as signal timing and crosswalk; 3) provide baseline year information for performance measurement on travel patterns in the study area; and 4) provide information for environmental justice assessments on transportation infrastructure investments.

## METHODOLOGY

MPO staff collected census information from 2009 to 2013 of Westover, Granville, and Monongalia County. Studied topics are population, economy, and transportation. The following tables in the U.S. Census Bureau American Community Survey were used in this analysis.

- Table S101: Age and Sex
- Table S0801: Commuting Characteristics by Sex
- Table S1101: Households and Families
- Table S1401: School Enrollment
- Table B08101: Means of Transportation to Work by Age
- Table DP05: Demographic and Housing Estimates
- Table DP03: Selected Economic Characteristics

## KEY FINDINGS

### Population

- The population of Westover increased from 3,935 in year 2010 to 4054 in year 2013. The population of Granville increased from 647 in year 2010 to 1268 in year 2013.
- In 2013, the median age of the county's population is 29.6. Compared with the County, the median age of the Westover's population is about 10 years older; the median age of the Granville's population is about 12 years older.
- Compared with Monongalia County, Westover and Granville have less race diversity
- In 2013, 11% of Westover's population (460) are college or graduate students. 5% of Granville's population (50) are college or graduate students.

### Households

- The number of households in Westover increased from 1,564 in year 2010 to 1,641 in year 2013. The number of households in Granville increased from 311 in year 2010 to 522 in year 2013.
- Compared with the County, Westover and Granville both have a higher percentage of households with one or more people 60 years and over. (Westover 28.1%, Granville 42.3%)
- Compared with the County, Granville has a higher percentage of renter-occupied housing units. (+10%)

### Economy

- Compared with the County, Westover and Granville have lower median household income and median family incomes. Westover has 11% less in median household income. Granville has 33% less in median household income.
- Compared with the County, Westover and Granville have a lower unemployment rate, varying from 2% to 4% between 2010 and 2013.

### Transportation

- In 2013, the County has 77.8% of its population driving alone. Compared with the County, Westover and Granville both have a higher percentage of commuters driving alone. (Westover 80.6%. Granville 83.8%)
- In 2013, 6.5% of the county's population are walking commuters. Compared with the County, Westover has similar percentage of walking commuters. Granville has a lower percentage of commuters by walking (3.5%). Compared with the County, Granville has higher percentage of the population working at home (8.1%).
- In Westover, walking commuters increased 87% from 2010 to 2013. Nearly 60% of walking commuters are 45 or above years old in 2013. Westover transit commuter increased from 148% from 2010 to 2013.
- Granville walking commuters increased 180% from 2010 to 2013.
- The percentage of Granville commuters who drive alone decreased by 11.3% from 2010 to 2103.
- In 2013, 2.5% of county households have no access to vehicles. Westover and Granville have higher percentage of no vehicle availability. (Westover 3.1%, Granville 5.6%)
- The percentage of workers who are 16 years and over with no vehicle availability increased 22% from 2009 to 2013 in Westover, and 500% from 2009 to 2013 in Granville.

# POPULATION

---

## POPULATION: TOTAL POPULATION

Westover and Granville Total Population

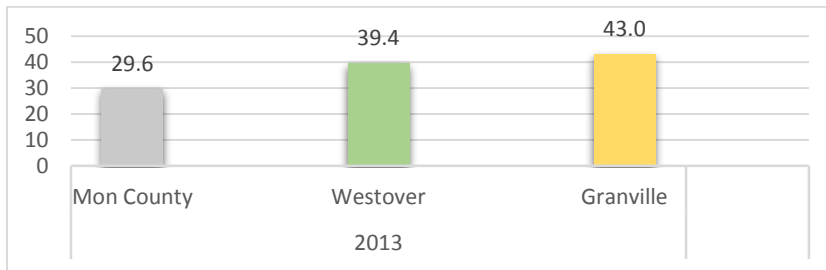
	2010	2011	2012	2013
Westover	3935	3976	3997	4054
Granville	647	644	651	1268

Mon County, Westover, and Granville Total Population Change by Percentage

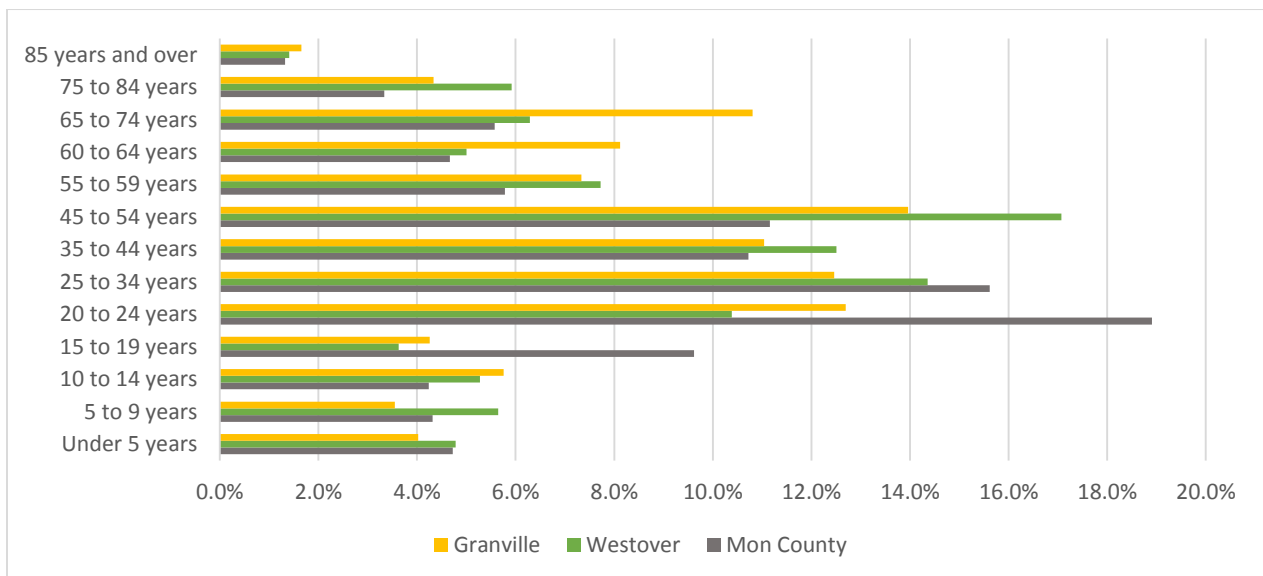
	2011-2010	2012-2011	2013-2012
Mon County	1.9%	2.0%	2.1%
Westover	1.0%	0.5%	1.4%
Granville	-0.5%	1.1%	94.8%

## POPULATION: AGE

Population Median Age

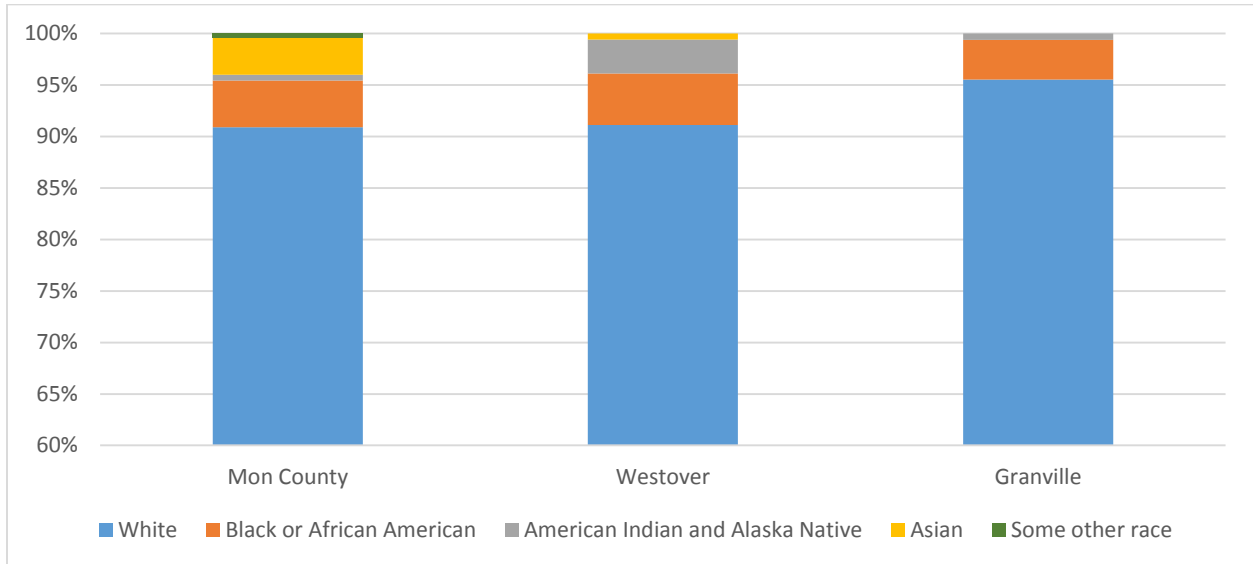


2013 Population Composition by Percentage



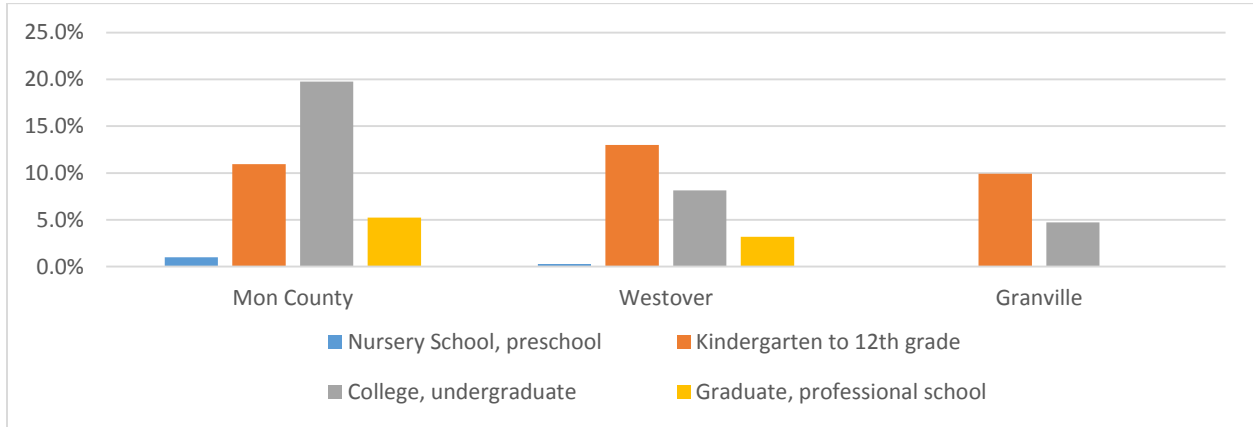
## POPULATION: RACE

Mon County, Westover, and Granville Population Race Composition by Percentage (2013)

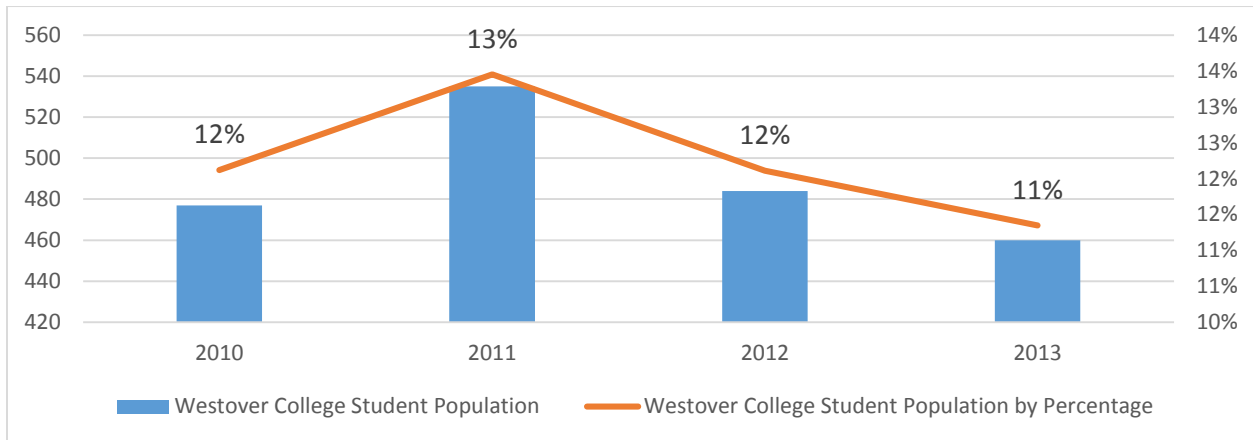


## POPULATION: SCHOOL ENROLLMENT

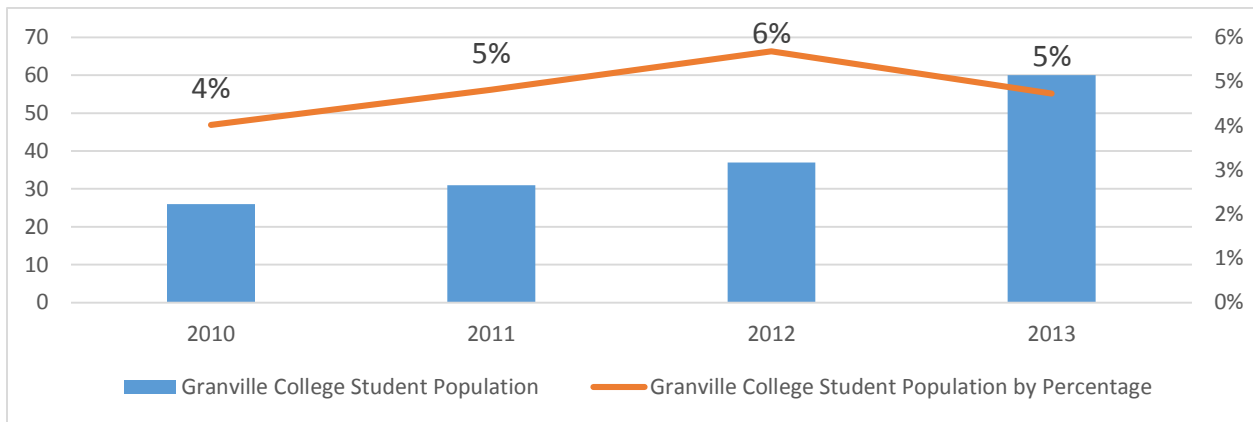
Mon County, Westover, and Granville Population School Enrollment by Percentage (2013)



Westover college student population, including graduate students. (2010 - 2013)



Granville college student population, including graduate students. (2010 - 2013)



## HOUSEHOLDS

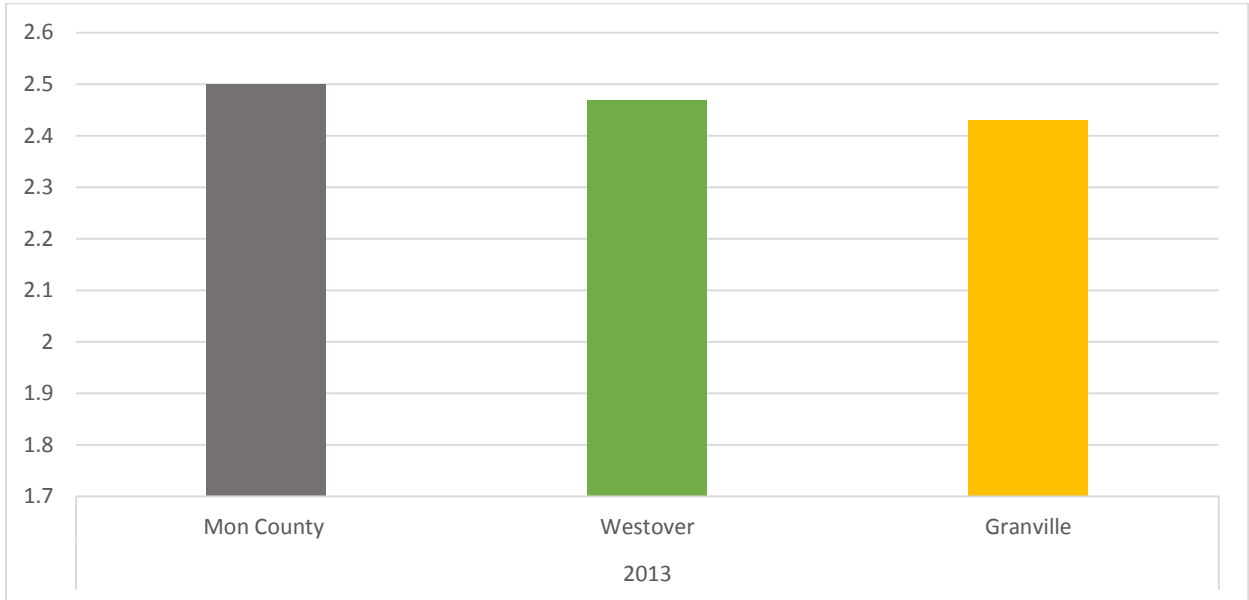
---

### HOUSEHOLDS: TOTAL HOUSEHOLDS

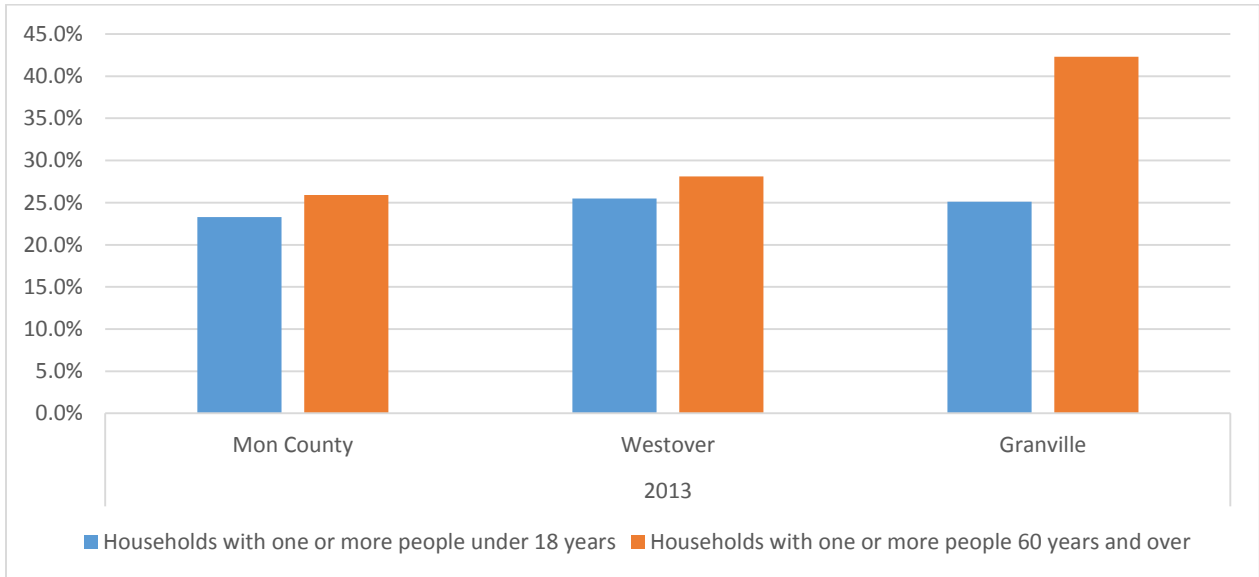
Mon County, Westover and Granville Total Households.

	2010	2013	Percentage of Increase from 2010 to 2013
Mon County	35,073	36,449	4%
Westover	1,564	1,641	5%
Granville	311	522	68%

## HOUSEHOLDS: SIZE

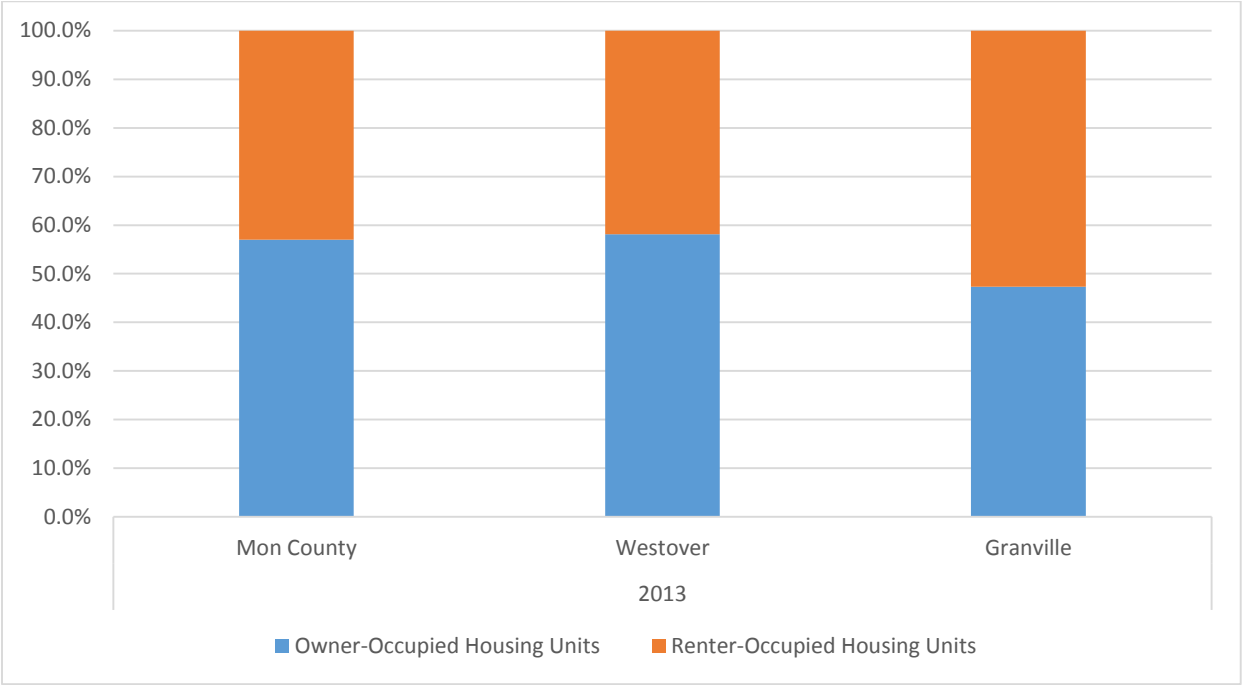


## HOUSEHOLDS: AGE



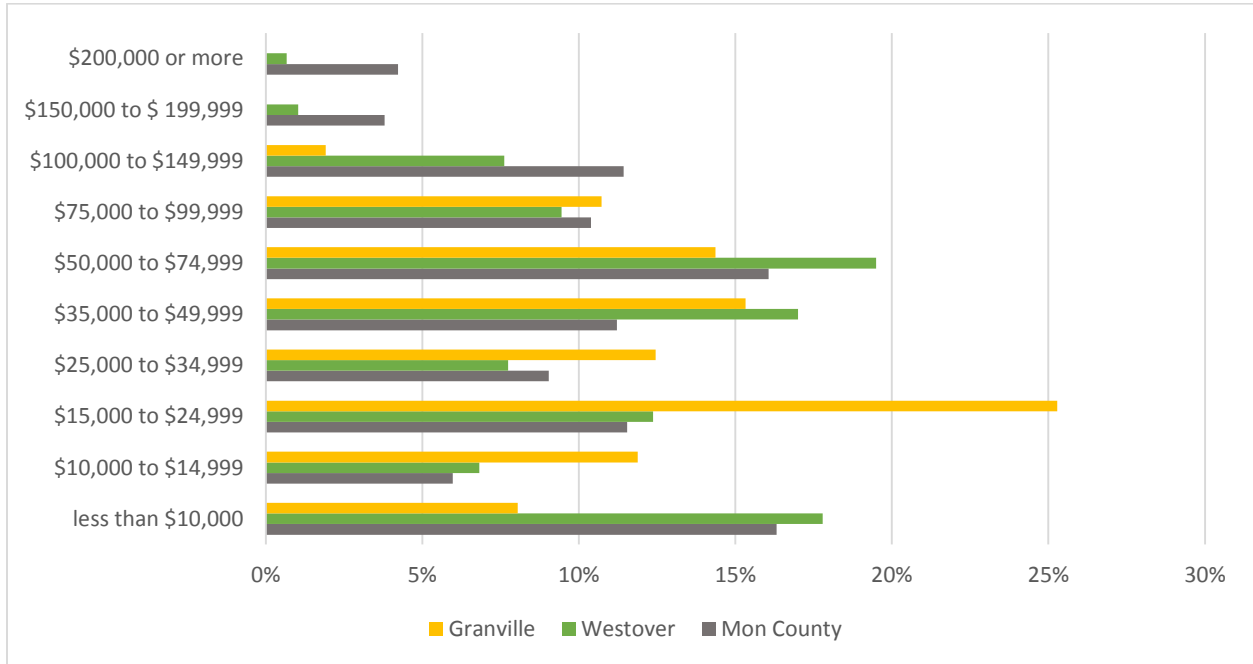


# HOUSEHOLDS: TENURE

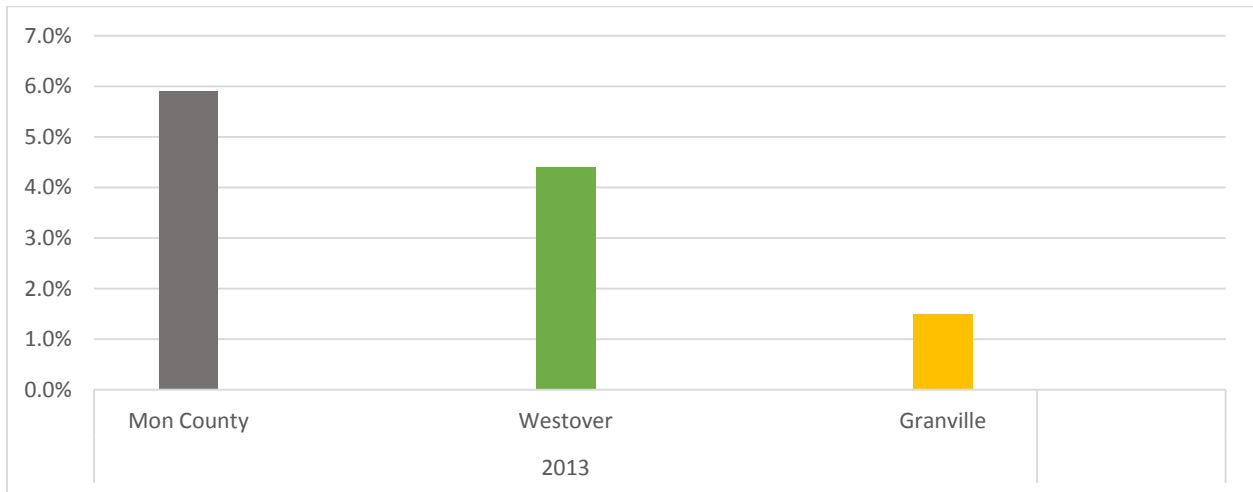


# ECONOMY

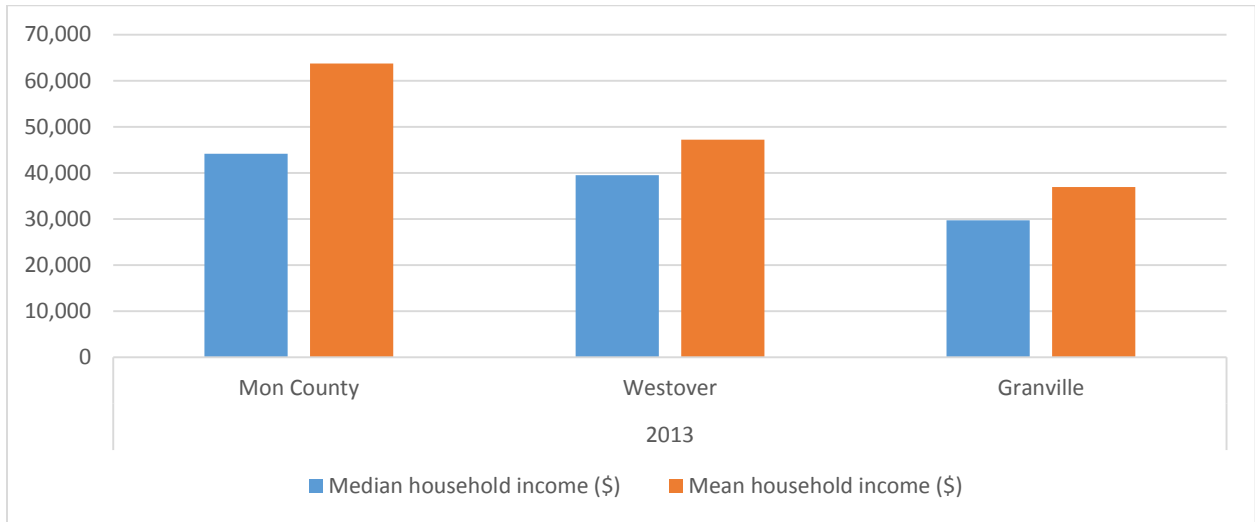
## ECONOMY: HOUSEHOLD INCOME DISTRIBUTION



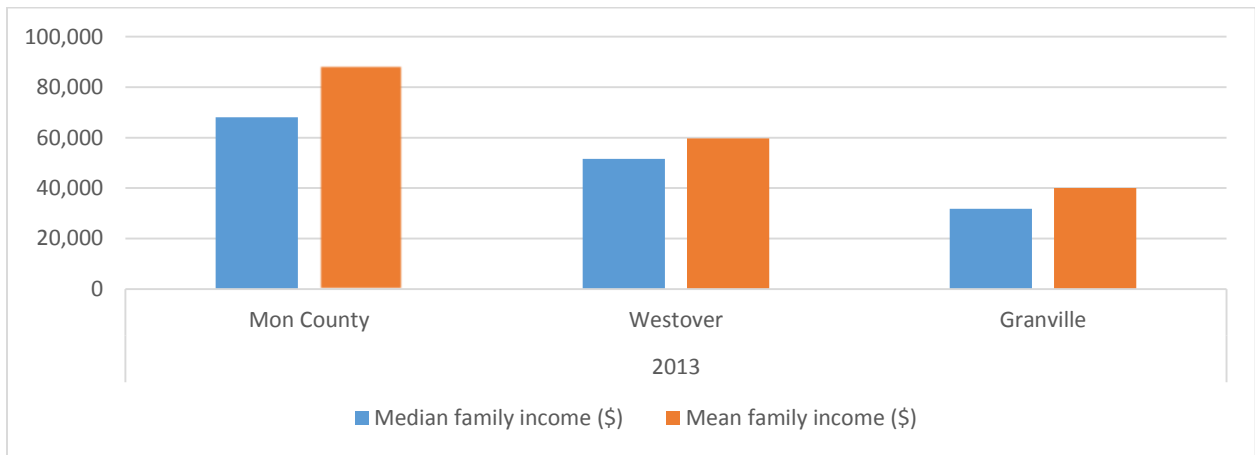
## ECONOMY: PERCENTAGE UNEMPLOYMENT



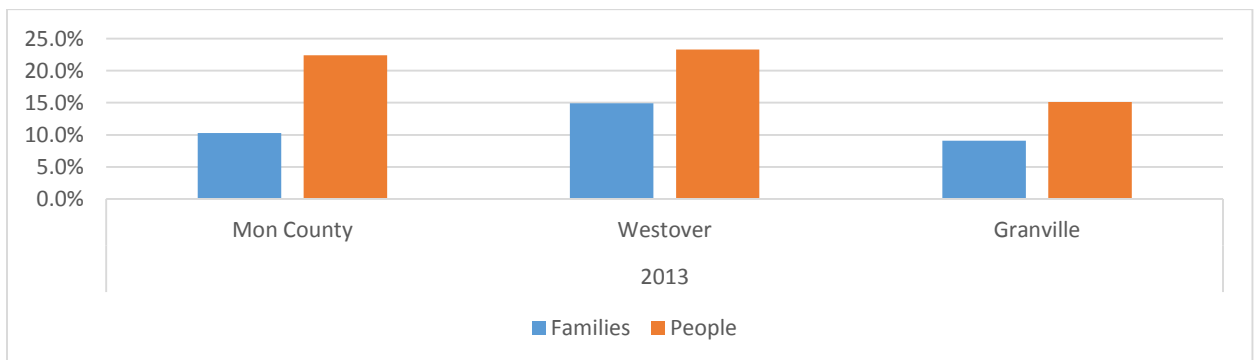
**ECONOMY: MEDIAN HOUSEHOLD INCOME AND MEAN HOUSEHOLD INCOME**



**ECONOMY: MEDIAN FAMILY INCOME AND MEAN FAMILY INCOME**

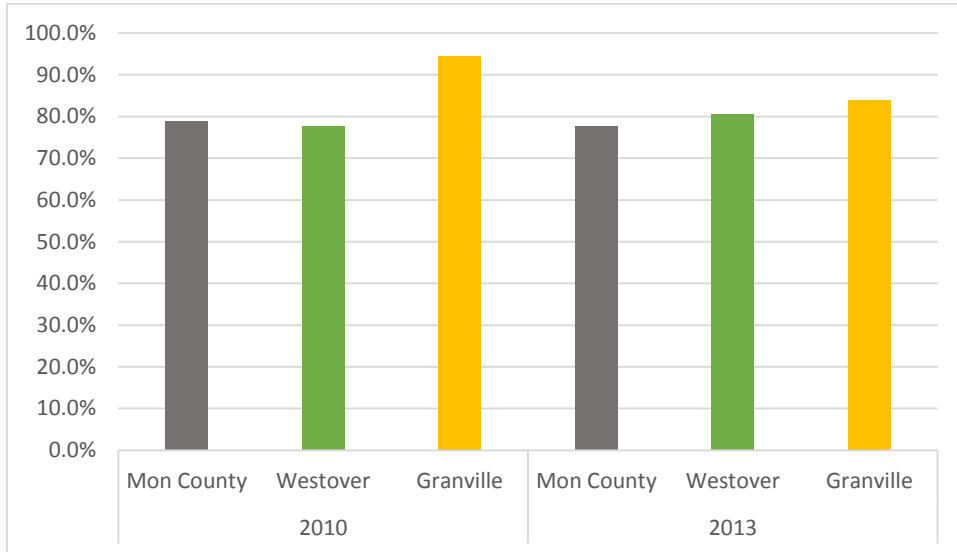


**ECONOMY: PERCENTAGE OF FAMILIES AND PEOPLE WHOSE INCOME IS BELOW THE POVERTY LEVEL**

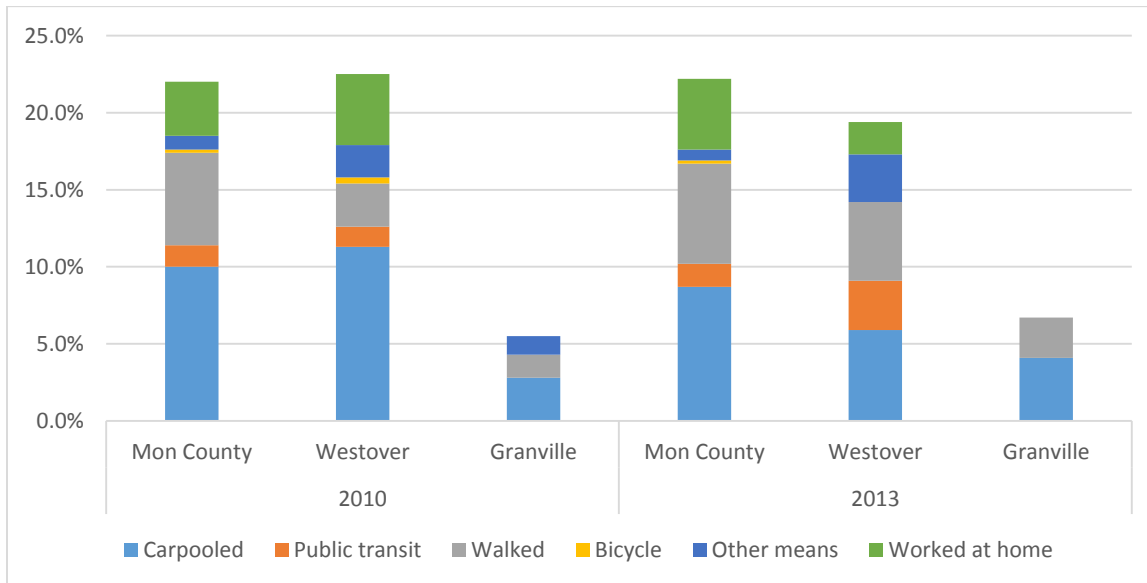


# TRANSPORTATION

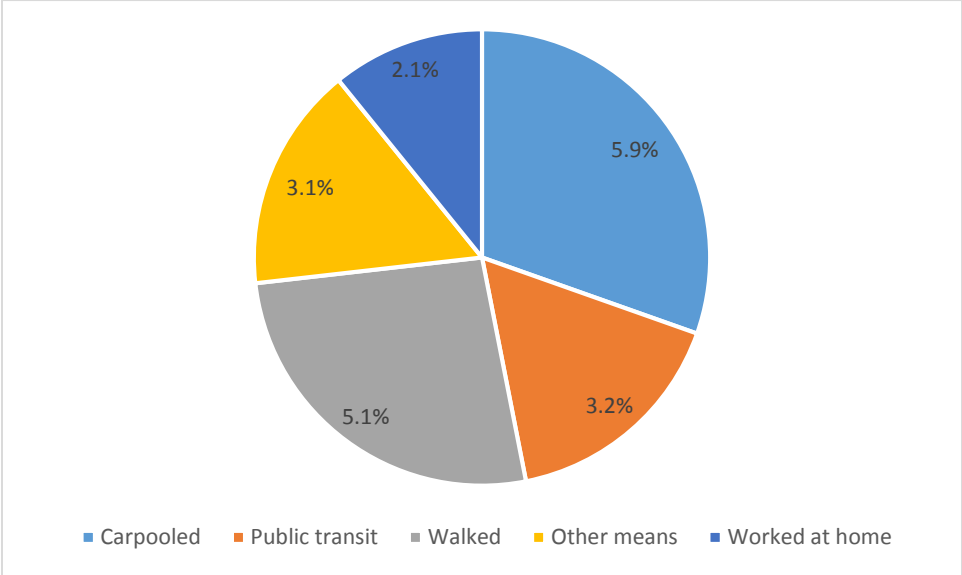
## COMMUTING: DRIVE ALONE BY PERCENTAGE



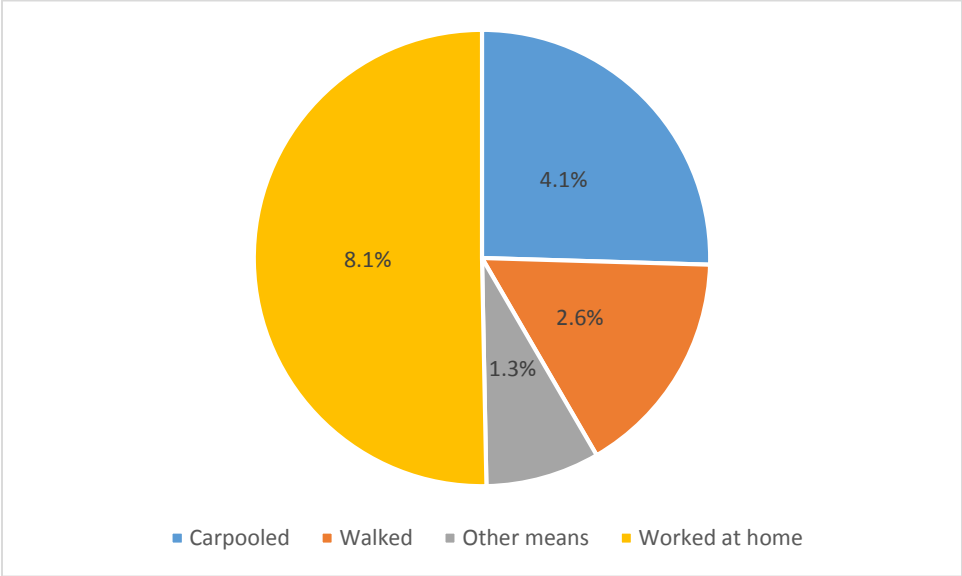
## COMMUTING: OTHER MEANS BY PERCENTAGE



2013 Westover Commuting (other than driving alone)

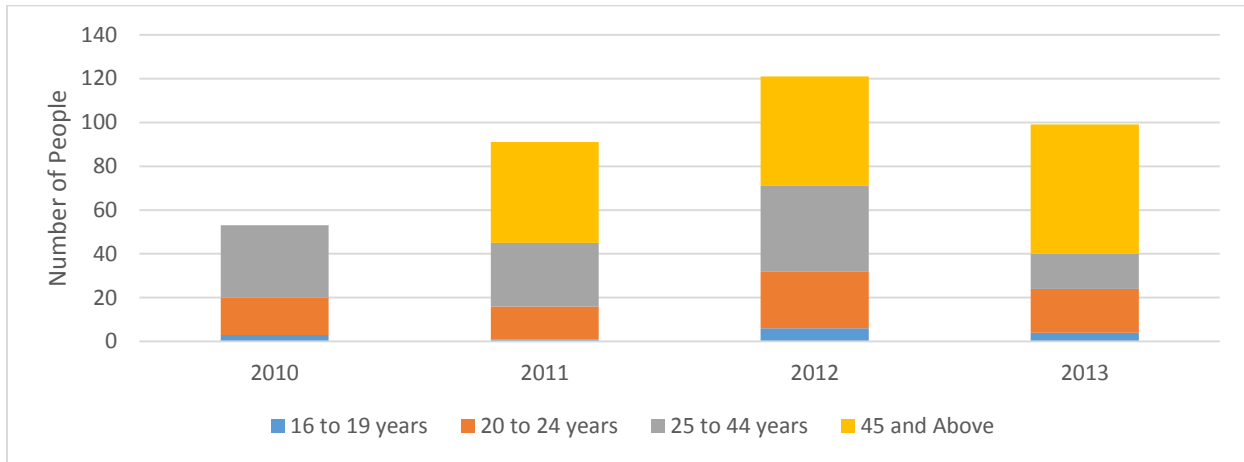


2013 Granville Commuting (other than driving alone)

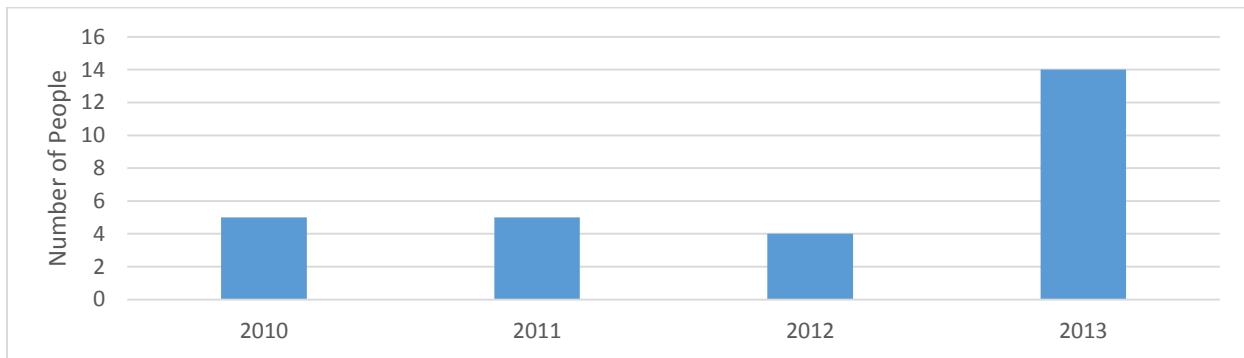


## COMMUTING: WALKING AND TRANSIT

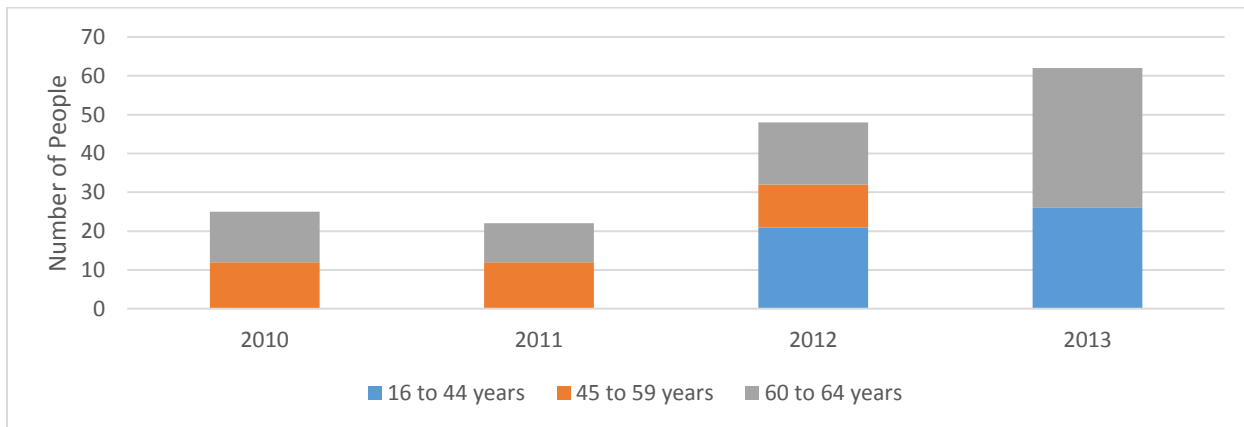
### Westover: Walk to Work by Age



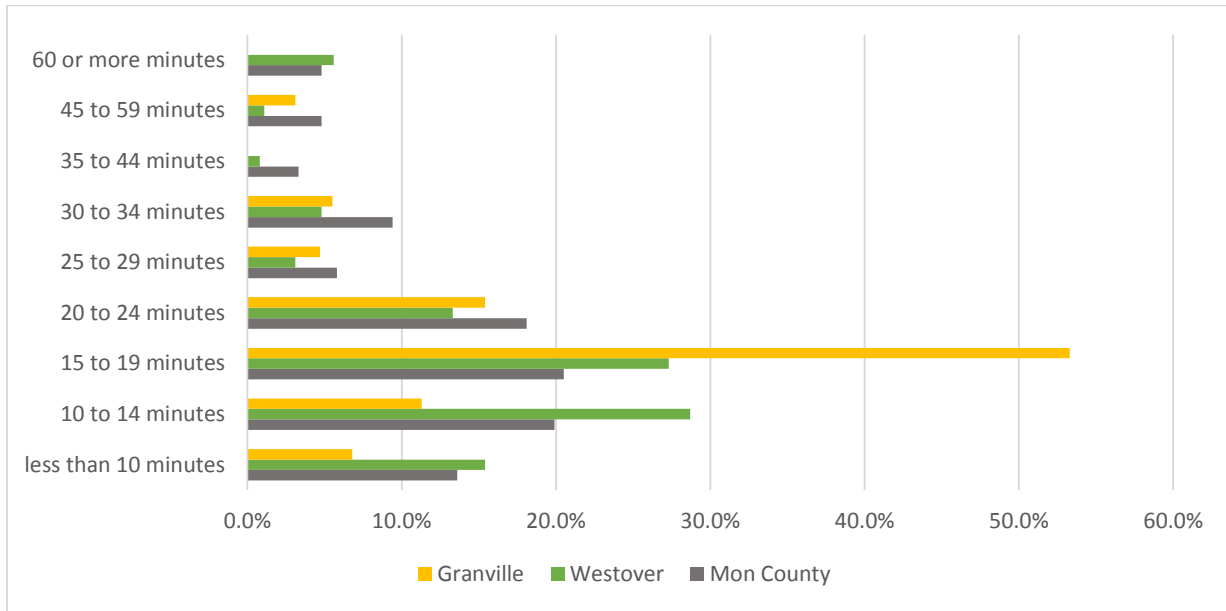
### Granville: Walk to Work



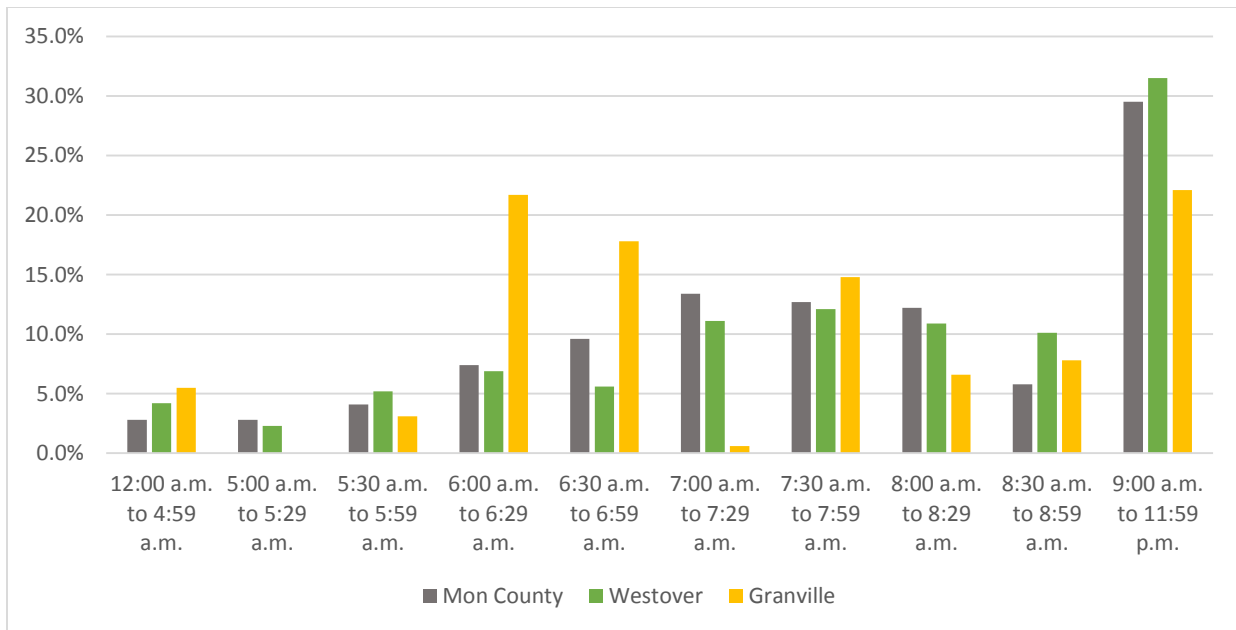
### Westover: Ride Transit to Work by Age



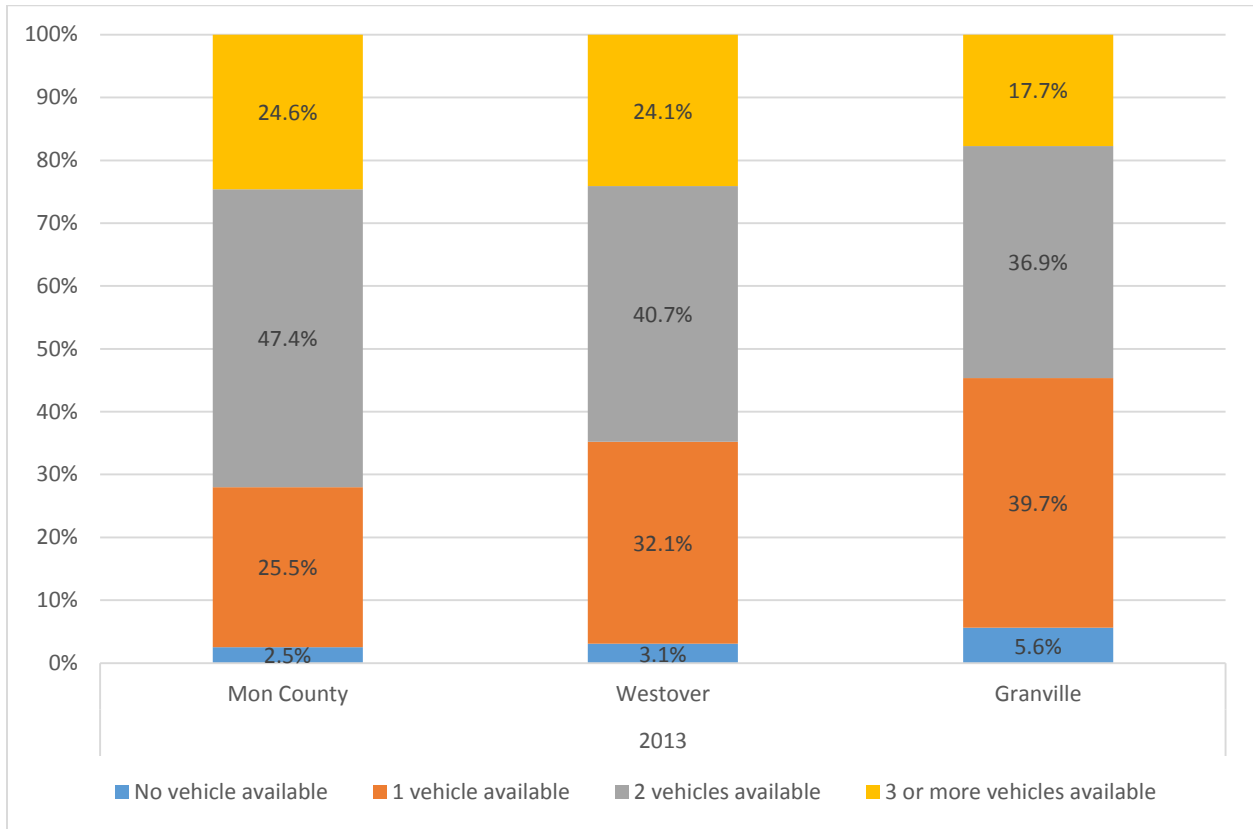
## COMMUTING: TRAVEL TIME TO WORK



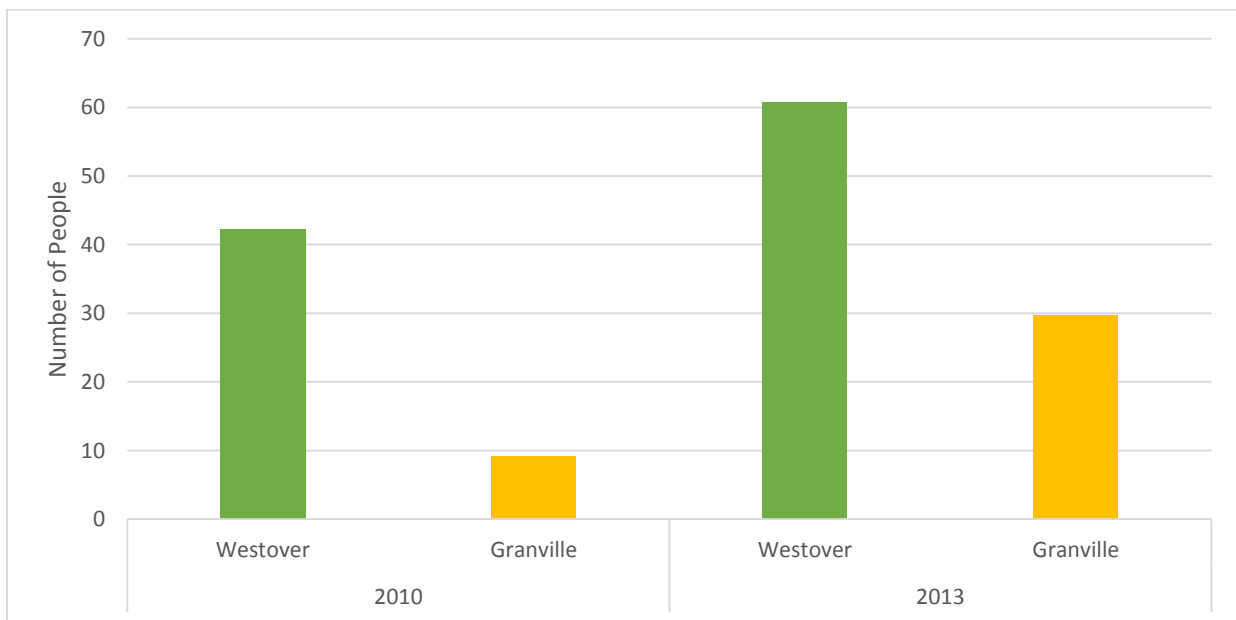
## COMMUTING: TIME LEAVING HOME TO WORK



## HOUSEHOLD VEHICLE AVAILABILITY



## Number of Workers 16 years and over with no vehicle availability





## REFERENCE

The U.S. Census Bureau American Community Survey 5 Years-S0101: Monongalia County, Westover, and Granville

The U.S. Census Bureau American Community Survey 5 Years-S0801: Monongalia County, Westover, and Granville

The U.S. Census Bureau American Community Survey 5 Years-S1101: Monongalia County, Westover, and Granville

The U.S. Census Bureau American Community Survey 5 Years-S1401: Monongalia County, Westover, and Granville

The U.S. Census Bureau American Community Survey 5 Years-B08101: Monongalia County, Westover, and Granville

The U.S. Census Bureau American Community Survey 5 Years-DP03: Monongalia County, Westover, and Granville

The U.S. Census Bureau American Community Survey 5 Years-DP05: Monongalia County, Westover, and Granville