



RESEARCH REPORT

A publication providing statistical information on Howard County demographics, socioeconomic and employment trends and patterns. Available from the Department of Planning and Zoning by calling (410) 313-4370.

Howard County Domestic Migration – 2010 to 2015

Introduction

Howard County grew by 26,329 residents from 2010 to 2015, from a population of 287,085 in 2000 to 313,414 in 2015, a 9.2 percent increase. This current report discusses domestic migration into and out of Howard County during that period. Domestic migration estimates are derived by the U.S. Census Bureau as part of their intercensal population estimates for counties. These estimates are based on tax data provided by the IRS. By comparing addresses from one year to the next and the number of exemptions claimed on tax forms, estimates are made regarding how people move around the country.

2010 to 2015 Net Domestic Migration

The table on the next page summarizes the cumulative domestic migration patterns in Howard County from 2010 to 2015. All values represent *net* migration, which is defined as in migration minus out migration. The total net migration into the County over the five years was 9,395 residents. This represents about 36 percent of the total population growth of 26,329 during that period. The other components of population growth include natural population increase and international migration.¹

The total net domestic migration includes intrastate, interstate and federal citizens movement. Federal citizens movement is primarily Department of Defense personnel moving to and from overseas assignments. For Howard County, there was a net *in migration* of 9,715 residents from other counties in Maryland and a net *out migration* of 441 residents to other states. There was also a net increase of 121 federal citizens returning from overseas assignments.

¹ In addition to domestic migration, the Census Bureau's intercensal population estimates also include these two other components—international migration and natural population increase (births minus deaths). All three components are combined to comprise the estimated population growth for counties provided by the Census Bureau on an annual basis between each decennial census.

**2010 to 2015 Domestic Migration in Howard County
(Based on Exemptions Reported in IRS Records)**

REGION	Net (In - Out) Migration	REGION	Net (In - Out) Migration
INTRA-STATE MIGRANTS	9,715	INTER-STATE MIGRANTS	(441)
Baltimore Region	4,364	Surrounding States	78
Anne Arundel	345	Washington D.C.	(2)
Baltimore	1,774	Virginia	152
Carroll	292	West Virginia	(99)
Harford	95	Pennsylvania	444
Baltimore City	1,858	Delaware	(417)
Suburban Washington	5,566	Other States by Region	(519)
Frederick	(684)	Northeast	1,945
Montgomery	2,953	North Central	251
Prince George's	3,297	South	(1,682)
Southern Maryland	46	West	(1,033)
Calvert	19	FEDERAL CITIZENS MOVEMENT (1)	121
Charles	(41)		
St. Mary's	68	TOTAL MIGRATION (2)	9,395
Western Maryland	(134)		
Allegany	3	(1) This refers primarily to the movement of Department of Defense personnel and their dependents to and from overseas assignments.	
Garrett	0	(2) Total Migration includes the sum of migration within the state (intra-state), migration to and from other states (inter-state), and federal citizens movement.	
Washington	(137)		
Upper Eastern Shore	(150)	<i>Source:</i> Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.	
Caroline	0		
Cecil	55		
Kent	0		
Queen Anne's	(165)		
Talbot	(40)		
Lower Eastern Shore	23		
Dorchester	(46)		
Somerset	2		
Wicomico	11		
Worcester	56		

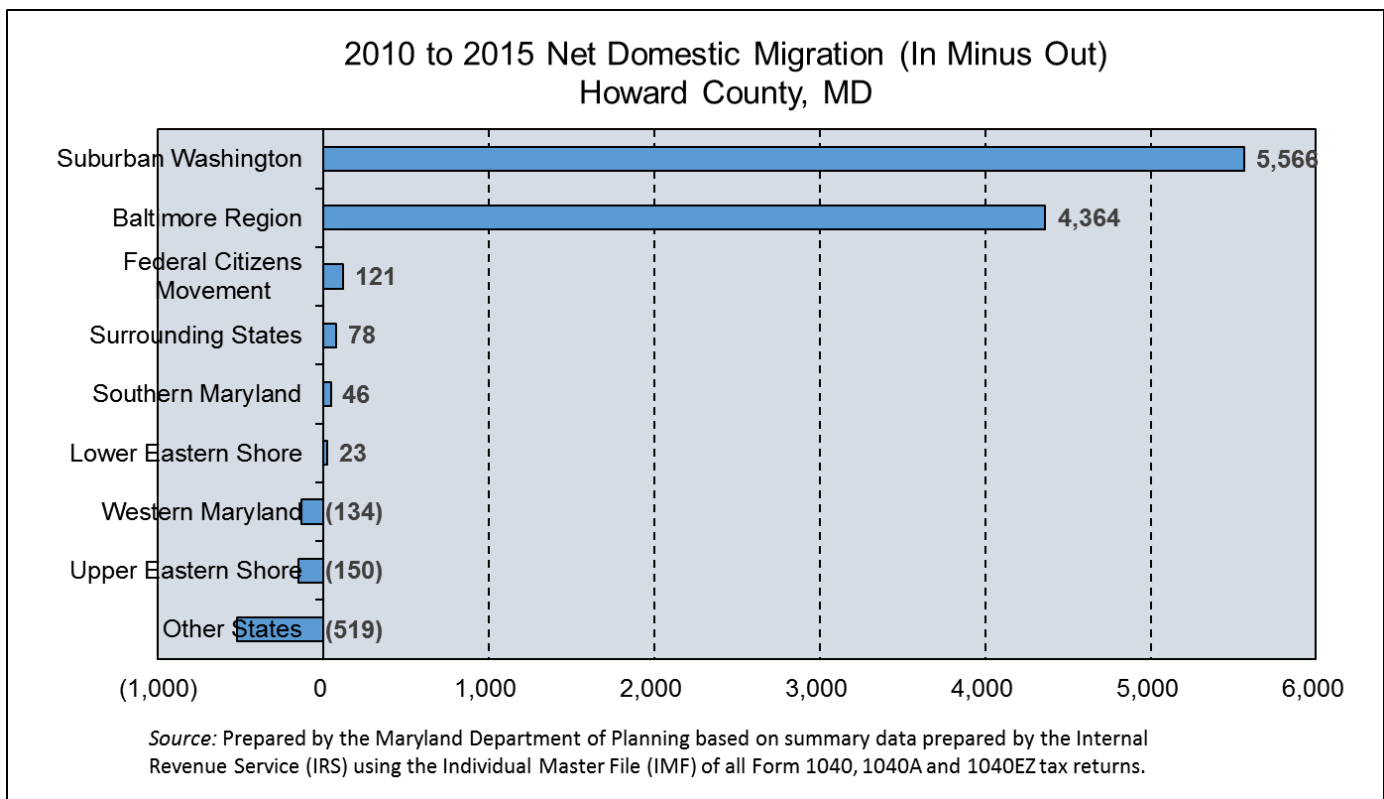
Of the 9,715 net intrastate migrants over the five years, 5,566 came from suburban Washington. This includes 3,297 from Prince George's County and 2,953 from Montgomery County offset by net loss of 684 residents to Frederick County.

The Baltimore region was the source of the next largest number of net in migrants, totaling 4,364. This includes net in migration of 1,858 and 1,774 residents from Baltimore City and Baltimore County, respectively. Another 345, 292, and 95 residents came from Anne Arundel, Carroll and Harford counties, respectively. Of all intrastate migrants, the greatest net influx of Howard County residents came from Prince George's County and the greatest net out-flow moved to Frederick County.

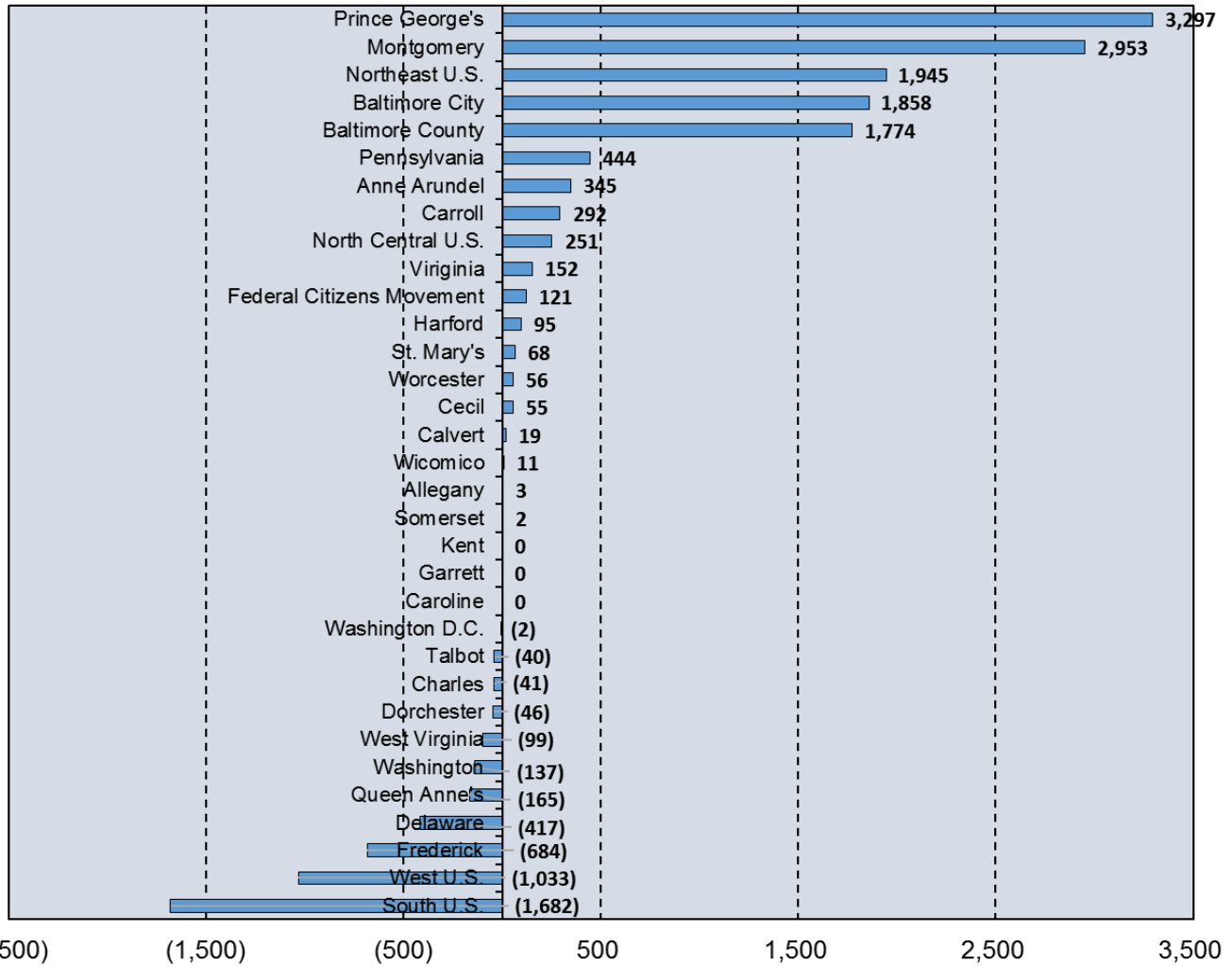
Whereas there was a relatively large net increase of residents to Howard County from both the Washington and Baltimore regions, there were slight net losses of Howard County residents to Western Maryland and the Upper Eastern Shore. There were also very slight gains from Southern Maryland and the Lower Eastern Shore.

The net out migration of 441 residents to other states includes a small net gain of 78 residents from surrounding states offset by a net loss of 519 residents to other regions of the U.S. The greatest net influx of residents, 1,945, came from the Northeastern part of the U.S. This includes the New England States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island and Connecticut as well as the middle Atlantic states of New York and New Jersey. The greatest net out migration from Howard County was 1,628 residents moving to the South, which includes the following states: North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma and Texas. This pattern shows the general trend of U.S. residents moving from north to south. There was also a minor net gain of 251 Howard County residents from North Central states and a net loss of 1,033 Howard County residents moving to Western states.

The charts below depict the results in graphical format better showing order of magnitude differences as well as the respective rankings. The first chart show the net migration of the larger regions. The second chart shows the more detailed results by all counties, states and other U.S. regions listed in the table. *Note on Page 10 of this report, there is a map showing the net migration patterns to and from Howard County for the Baltimore and suburban Washington regions.*



2010 to 2015 Net Domestic Migration (In Minus Out) Howard County, MD

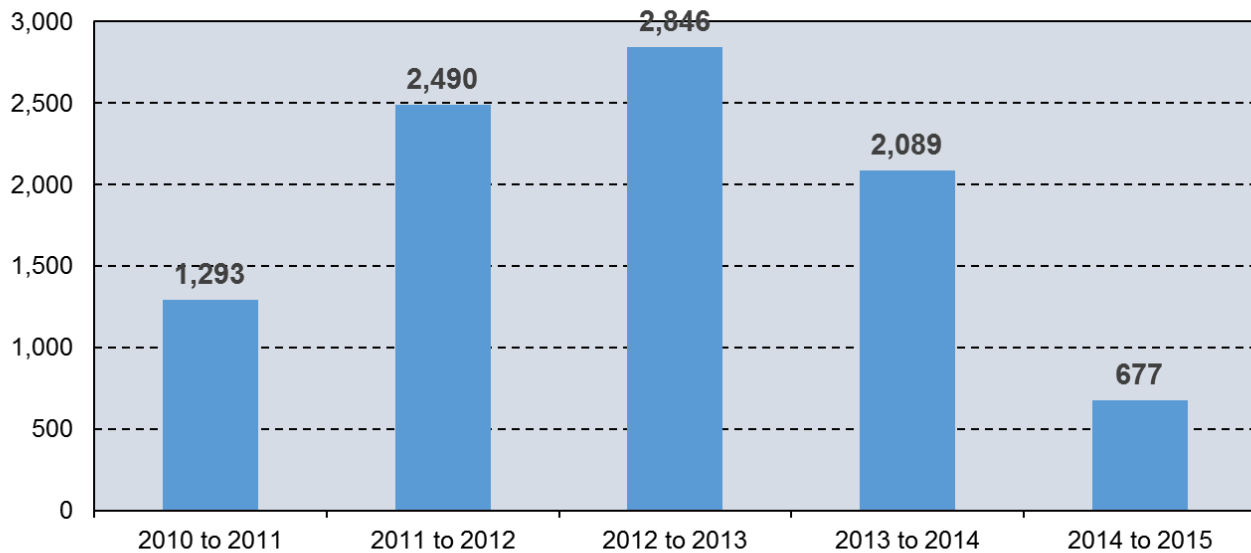


Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.

Annual Net Domestic Migration – 2010 to 2015

Annual net domestic migration to Howard County between 2010 and 2015 reached a peak of 2,846 in 2013, increasing from 1,293 in 2011 and 2,490 in 2012. Following this peak in 2013, the annual inflows decreased the following two years, to 2,089 in 2014 and a five year low of 677 in 2015. The annual numbers are shown in the chart below.

**2010 to 2015 Total Annual Net Domestic Migration (In Minus Out)
Howard County, MD**

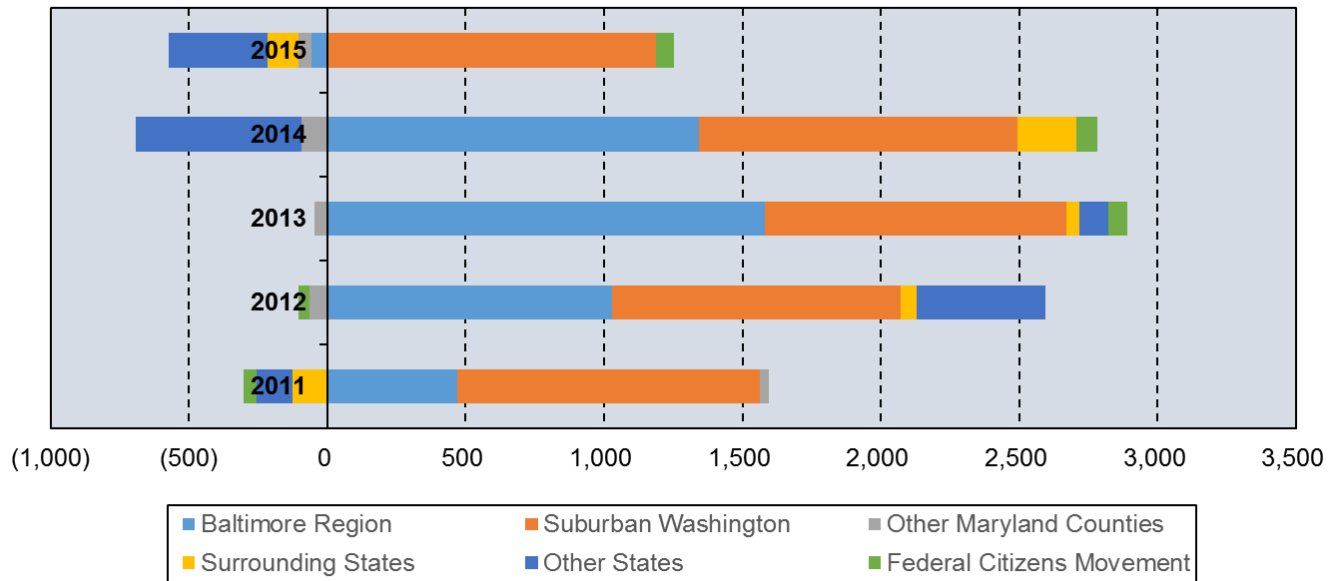


Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.

The charts on the following pages summarize the annual net migration to and from Howard County indicating the destination or originating county, region or state. The first chart depicts the *total net migration* by larger region inside and outside Maryland. The second chart shows the net migration *within Maryland*. The third chart focuses on the net migration *within the Baltimore/ Washington region*. The final chart which shows the net migration *to and from other states*.

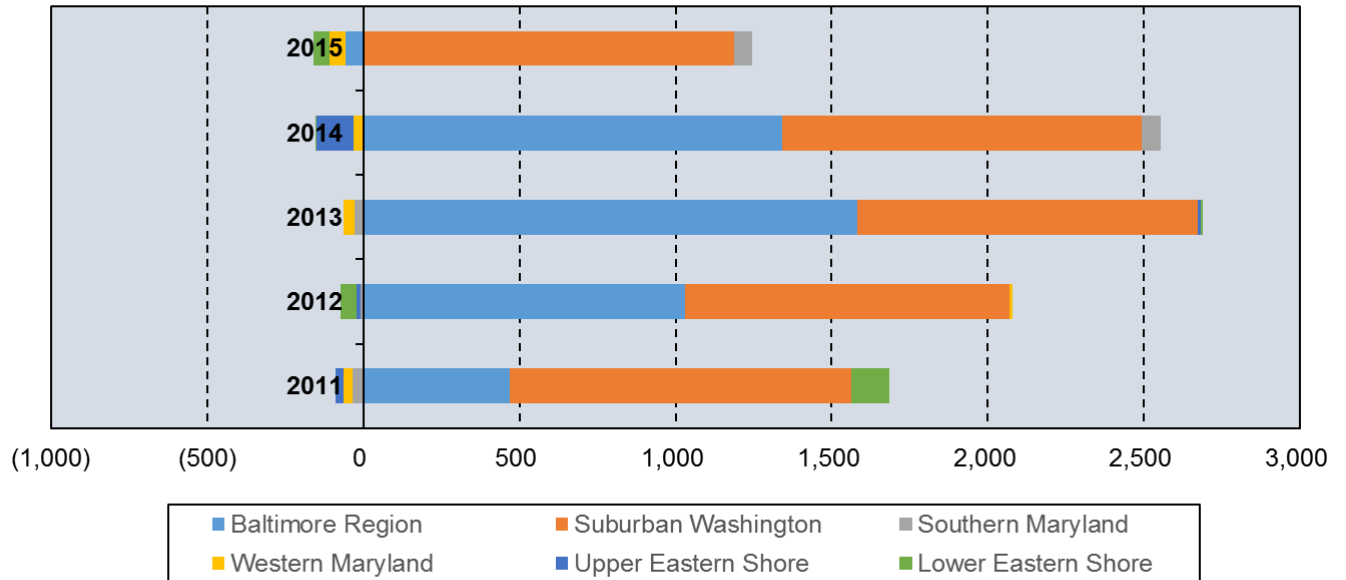
Although net migration changes from one year to the next, the general pattern is relatively consistent with only a few exceptions. Each year, most of the net migrants come to Howard County from suburban Washington. The Baltimore region also has large numbers of net migrants moving to Howard County, except for one year in 2015 when there was a small net out migration from Howard County to the Baltimore region. For all years, there was a net in migration to Howard County from Baltimore County, Baltimore City, Montgomery County, and Prince Georges County. There was a net out migration to Frederick County from Howard County for all years. Carol and Harford Counties were mixed, with some years being net in-flows to Howard County and some years being net out-flows. There was also a small net out migration to surrounding and other States for 2011, 2014 and 2015, and net in migration for 2012 and 2013. For all years, more residents from the Northeast U.S. moved to Howard County than left Howard County. The opposite occurred for Delaware and the South and West U.S. where there was net out migration from Howard County for all five years. The net migration pattern for the other surrounding states and the North Central U.S was mixed, with some net inflow and some net outflow years.

2010 to 2015 Total Annual Net Domestic Migration (In Minus Out) Howard County, MD



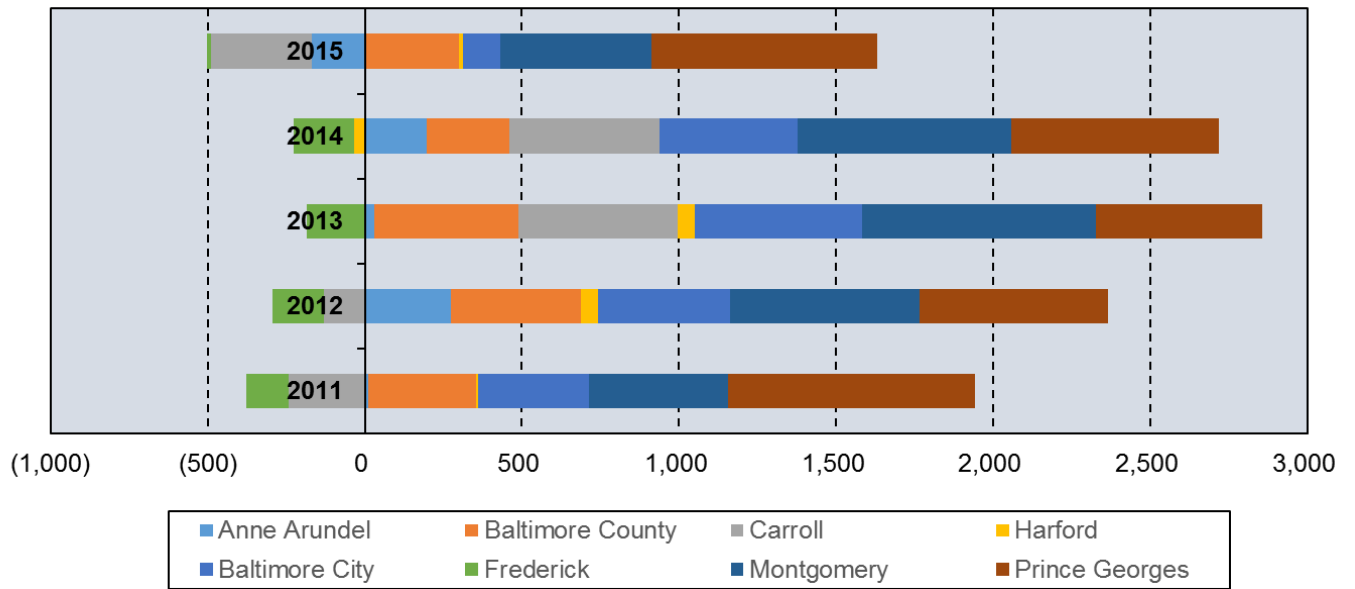
Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.

2010 to 2015 Annual Net Intra-State Migration (In Minus Out) Howard County, MD



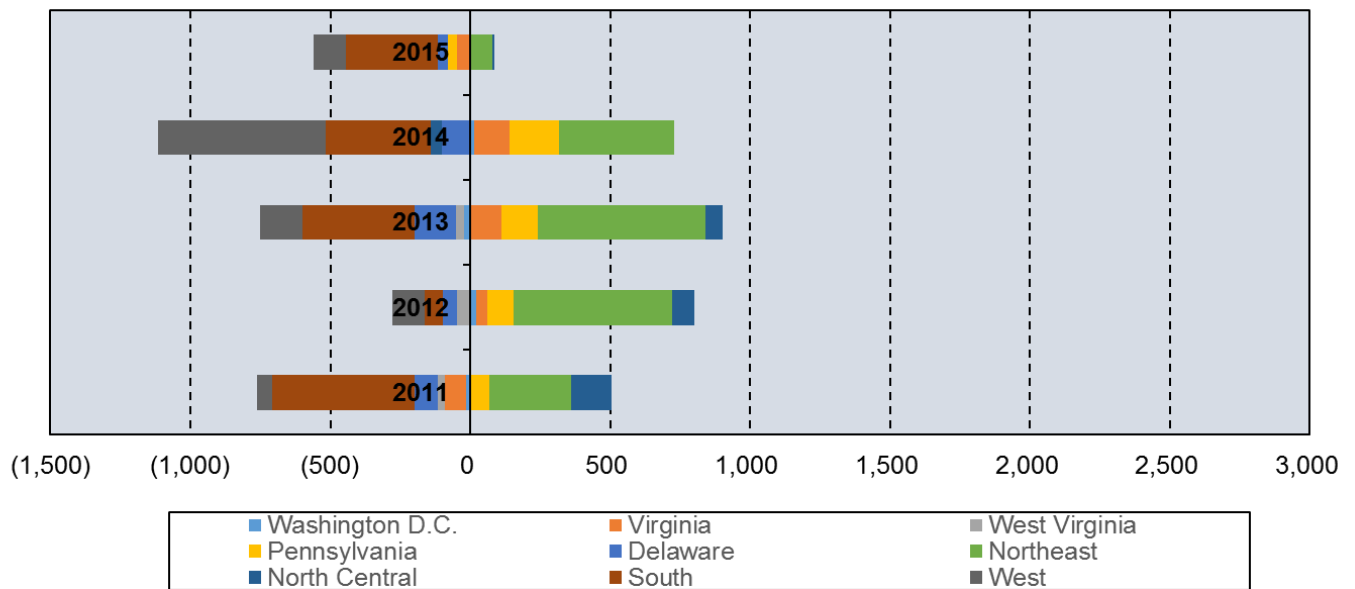
Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.

2010 to 2015 Annual Net Surrounding County Migration (In Minus Out) Howard County, MD



Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.

2010 to 2015 Annual Other State Net Migration (In Minus Out) Howard County, MD



Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.

In and Out Domestic Migration Details

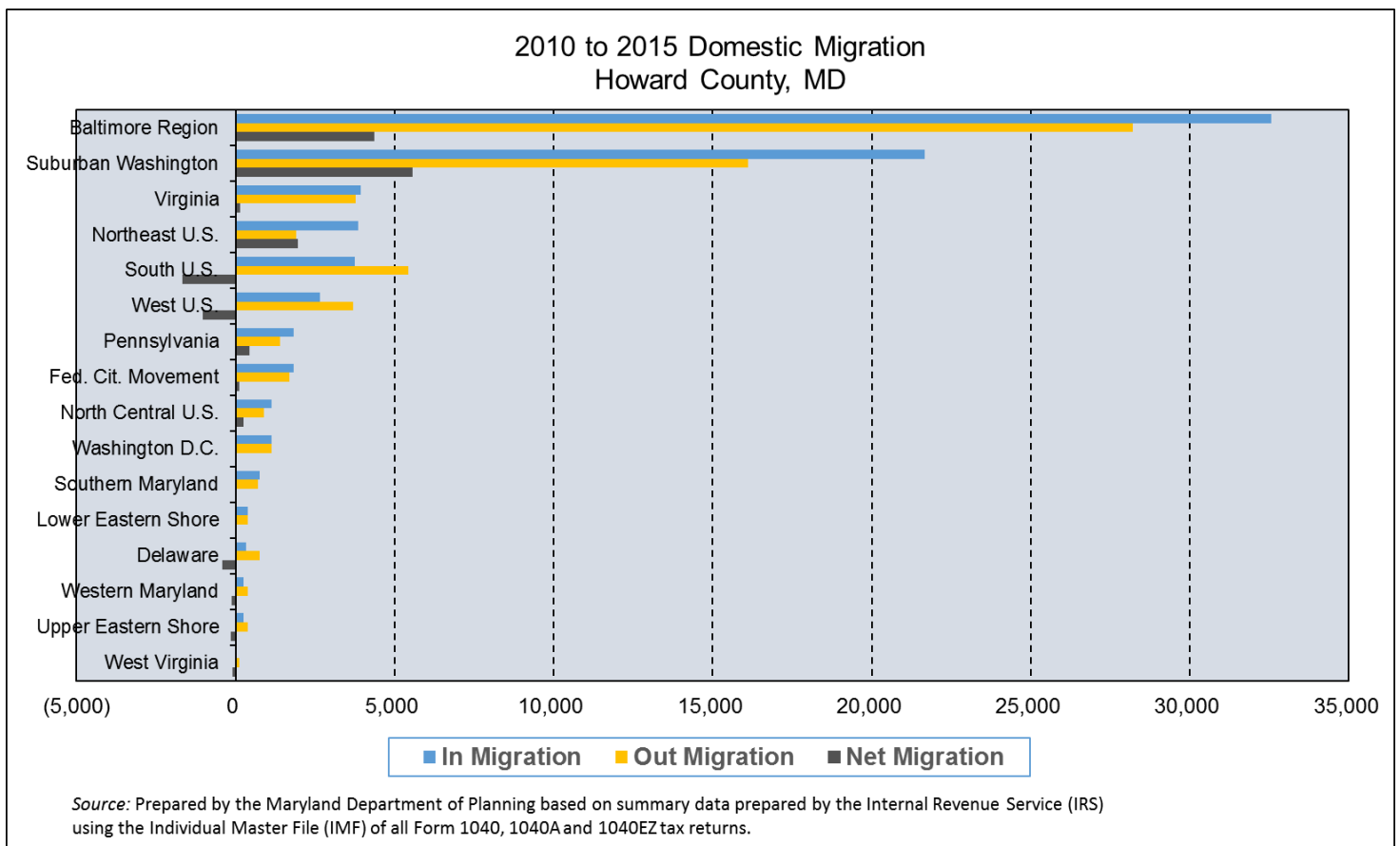
The table below summarizes the total in and out migration for Howard County and the resulting net migration from 2010 to 2015. As previously discussed, net in migration to Howard County was greatest from the suburban Washington and Baltimore regions—mostly from Prince George’s, Montgomery and Baltimore counties and Baltimore City. Not surprisingly, these areas also have the greatest in and out movement. For the Baltimore region, there were 32,568 in migrants and 28,204 out migrants. About 38% of this in migrant total and 38% of the out migrant total applied to Baltimore County alone, representing the biggest movement of all counties. Anne Arundel, Prince George’s and Montgomery counties also had large migrations both to and from Howard County. Although the net migration to Howard County from Anne Arundel County was small at only 355 over 5 years, the total movement was significant with over 20,000 residents moving in each direction.

2010 to 2015 Domestic Migration in Howard County
(Based on Exemptions Reported in IRS Records)

REGION	In Migration	Out Migration	Net Migration	REGION	In Migration	Out Migration	Net Migration
INTRA-STATE MIGRANTS	55,874	46,159	9,715	INTER-STATE MIGRANTS	18,658	19,099	(441)
Baltimore Region	32,568	28,204	4,364	Surrounding States	7,244	7,166	78
Anne Arundel	10,402	10,057	345	Washington D.C.	1,134	1,136	(2)
Baltimore	12,377	10,603	1,774	Virginia	3,924	3,772	152
Carroll	2,247	1,955	292	West Virginia	25	124	(99)
Harford	744	649	95	Pennsylvania	1,831	1,387	444
Baltimore City	6,798	4,940	1,858	Delaware	330	747	(417)
Suburban Washington	21,665	16,099	5,566	Other States by Region	11,414	11,933	(519)
Frederick	1,143	1,827	(684)	Northeast	3,856	1,911	1,945
Montgomery	9,360	6,407	2,953	North Central	1,139	888	251
Prince George’s	11,162	7,865	3,297	South	3,754	5,436	(1,682)
Southern Maryland	760	714	46	West	2,665	3,698	(1,033)
Calvert	246	227	19	FEDERAL CITIZENS MOVEMENT (1)	1,824	1,703	121
Charles	349	390	(41)				
St. Mary’s	165	97	68	TOTAL MIGRATION (2)	76,356	66,961	9,395
Western Maryland	244	378	(134)				
Allegany	25	22	3	(1) This refers primarily to the movement of Department of Defense personnel and their dependents to and from overseas assignments.			
Garrett	0	0	0	(2) Total Migration includes the sum of migration within the state (intra-state), migration to and from other states (inter-state), and federal citizens movement.			
Washington	219	356	(137)	Source: Prepared by the Maryland Department of Planning based on summary data prepared by the Internal Revenue Service (IRS) using the Individual Master File (IMF) of all Form 1040, 1040A and 1040EZ tax returns.			
Upper Eastern Shore	242	392	(150)				
Caroline	0	0	0				
Cecil	78	23	55				
Kent	0	0	0				
Queen Anne’s	113	278	(165)				
Talbot	51	91	(40)				
Lower Eastern Shore	395	372	23				
Dorchester	20	66	(46)				
Somerset	29	27	2				
Wicomico	110	99	11				
Worcester	236	180	56				

Of the surrounding states, most movement occurred to and from Virginia, with 3,924 in migrants and 3,772 out migrants. This is followed by Pennsylvania with 1,831 in migrants compared to 1,387 out migrants. There were relatively fewer migrants to and from Washington D.C., Delaware and West Virginia.

Over the five years, there was also significant movement to and from the Northeast U.S. with 3,856 residents moving to Howard County and 1,911 residents leaving Howard County, resulting in a net population increase in the county of 1,945. There was even greater movement to and from the South U.S. with 3,754 in migrants to Howard County and 5,436 out migrants. Despite this large in migration from the South U.S., the even larger outflow resulted in a net population loss of 1,682. The West and North Central regions of the U.S. had comparatively less movement. The in and out migration values were also closer in these regions off-setting each other and resulting in relatively small net migration numbers—a net loss of 1,033 to the West and a net gain of only 251 from the North Central region. The chart below shows these results in graphical format ranked from highest to lowest total movement.



The amount of total domestic movement is striking, with 76,356 residents moving to Howard County and 66,961 residents moving out of Howard County from 2010 to 2015. This is a total movement of 143,317 residents, or an average of 28,663 per year, about 551 per week and 79 per

day. Another interesting way to look at this is the following: given that Howard County grew by 26,329 residents from 2010 to 2015 (which includes natural growth, domestic and international migration), for each of these “new residents,” 2.9 domestic residents moved to the county and 2.5 domestic residents moved out of the county. This clearly shows that while Howard County has experienced steady growth over the five-year period, reaching a total population of 313,414, an even more significant movement of residents both in and out of the County occurred.

Howard County Net Domestic Migration Map, Surrounding Jurisdictions

The map below shows the net five-year domestic migration patterns for Howard County and surrounding jurisdictions, representing the majority of the total resident movement from 2010 to 2015. The thicker arrows indicate larger numbers, corresponding to the tables in this report.

