

Data Requested for:

Senate Majority Policy Committee

**Public Workshop:
Student Flight (Brain Drain) from
Pennsylvania**

April 30, 2019

Submitted by:

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Pennsylvania Population Components of Change (2000 - 2018)

| Year | Population Estimate | Population Change ¹ | Births | Deaths | Natural Increase | Net International Migration | Net Domestic Migration | Net Migration |
|------|---------------------|--------------------------------|---------|---------|------------------|-----------------------------|------------------------|---------------|
| 2000 | 12,284,173 | 20,368 | 145,351 | 129,761 | 15,590 | n.a. | n.a. | 4,778 |
| 2001 | 12,298,970 | 14,797 | 144,639 | 129,870 | 14,769 | n.a. | n.a. | 28 |
| 2002 | 12,331,031 | 32,061 | 142,892 | 129,522 | 13,370 | n.a. | n.a. | 18,691 |
| 2003 | 12,374,658 | 43,627 | 143,933 | 129,143 | 14,790 | n.a. | n.a. | 28,838 |
| 2004 | 12,410,722 | 36,064 | 144,840 | 127,746 | 17,094 | n.a. | n.a. | 18,971 |
| 2005 | 12,449,990 | 39,268 | 144,614 | 127,525 | 17,089 | n.a. | n.a. | 22,179 |
| 2006 | 12,510,809 | 60,819 | 146,870 | 126,454 | 20,416 | n.a. | n.a. | 40,403 |
| 2007 | 12,563,937 | 53,128 | 149,514 | 124,214 | 25,300 | n.a. | n.a. | 27,828 |
| 2008 | 12,612,285 | 48,348 | 149,628 | 125,150 | 24,478 | n.a. | n.a. | 23,870 |
| 2009 | 12,666,858 | 54,573 | 147,203 | 125,128 | 22,075 | n.a. | n.a. | 32,498 |
| 2010 | 12,711,158 | 44,300 | 143,921 | 123,699 | 20,222 | n.a. | n.a. | 24,078 |
| 2011 | 12,744,583 | 33,425 | 142,975 | 127,699 | 15,276 | 27,481 | -8,176 | 19,305 |
| 2012 | 12,766,827 | 22,244 | 142,120 | 125,499 | 16,621 | 25,615 | -18,630 | 6,985 |
| 2013 | 12,776,621 | 9,794 | 141,805 | 130,945 | 10,860 | 29,587 | -29,890 | -303 |
| 2014 | 12,789,101 | 12,480 | 142,202 | 126,713 | 15,489 | 34,772 | -36,475 | -1,703 |
| 2015 | 12,785,759 | -3,342 | 141,913 | 132,623 | 9,290 | 31,937 | -43,725 | -11,788 |
| 2016 | 12,783,538 | -2,221 | 140,256 | 129,938 | 10,318 | 38,222 | -50,399 | -12,177 |
| 2017 | 12,790,447 | 6,909 | 137,428 | 133,891 | 3,537 | 31,291 | -27,426 | 3,865 |
| 2018 | 12,807,060 | 16,613 | 135,905 | 133,562 | 2,343 | 35,377 | -20,463 | 14,914 |

¹ Population change equals births minus deaths (natural increase) plus net migration plus a small residual (not shown).

Sources: U.S. Bureau of the Census, Population Estimates, Components of Change (Vintage 2018); U.S. Bureau of the Census, Population Estimates (Vintage 2009); and PA Dept. of Health, Birth and Death Statistics.

Annual Domestic Migration of Young Adults in Pennsylvania (2006 - 2017)

Domestic Migration into Pennsylvania

| Age Group | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 18-19 | 30,835 | 31,643 | 30,684 | 33,330 | 31,203 | 29,225 | 25,765 | 27,551 | 25,836 | 27,710 | 28,903 | 28,307 |
| 20-24 | 38,976 | 37,909 | 39,272 | 35,184 | 35,458 | 42,653 | 38,322 | 32,319 | 39,757 | 29,560 | 30,737 | 32,742 |
| 25-29 | 29,208 | 34,415 | 30,888 | 32,166 | 36,418 | 32,364 | 25,657 | 33,085 | 35,945 | 36,876 | 41,082 | 37,550 |
| 30-34 | <u>22,868</u> | <u>20,466</u> | <u>19,370</u> | <u>24,426</u> | <u>23,251</u> | <u>23,921</u> | <u>19,254</u> | <u>22,228</u> | <u>20,757</u> | <u>24,700</u> | <u>25,609</u> | <u>25,866</u> |
| Total | 121,887 | 124,433 | 120,214 | 125,106 | 126,330 | 128,163 | 108,998 | 115,183 | 122,295 | 118,846 | 126,331 | 124,465 |
| 18-24 | 69,811 | 69,552 | 69,956 | 68,514 | 66,661 | 71,878 | 64,087 | 59,870 | 65,593 | 57,270 | 59,640 | 61,049 |
| 25-34 | 52,076 | 54,881 | 50,258 | 56,592 | 59,669 | 56,285 | 44,911 | 55,313 | 56,702 | 61,576 | 66,691 | 63,416 |

Domestic Migration from Pennsylvania

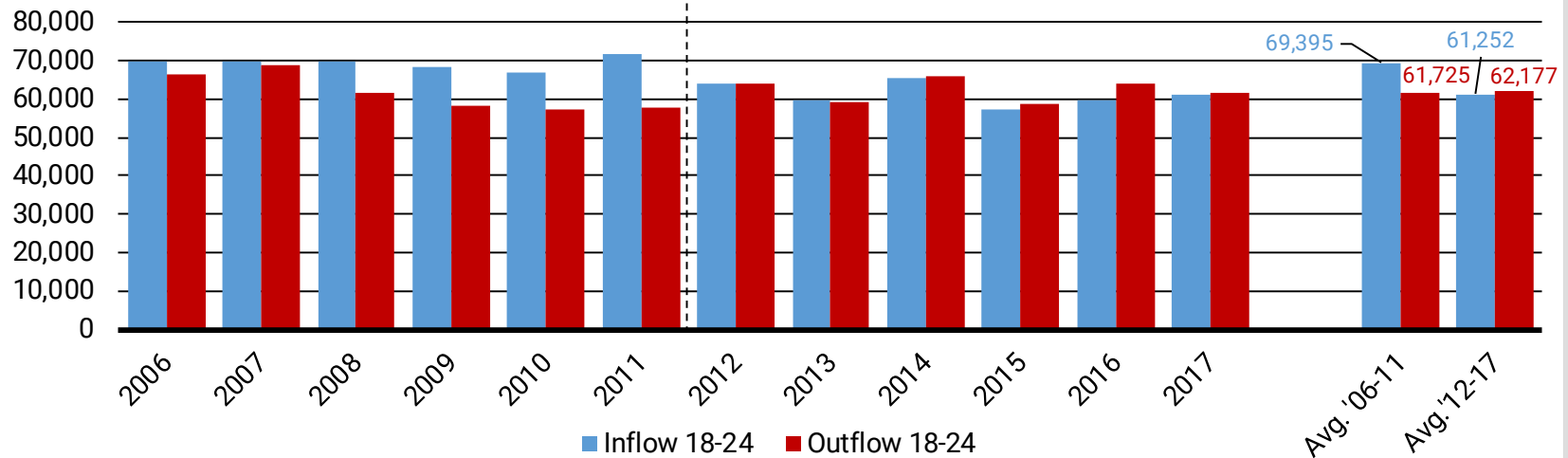
| Age Group | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 18-19 | -20,133 | -24,800 | -19,650 | -21,044 | -18,981 | -19,456 | -22,143 | -18,027 | -19,800 | -19,022 | -16,467 | -21,031 |
| 20-24 | -46,072 | -44,029 | -42,077 | -37,248 | -38,407 | -38,452 | -41,901 | -40,964 | -45,902 | -39,703 | -47,369 | -40,732 |
| 25-29 | -29,333 | -33,206 | -28,438 | -26,468 | -32,593 | -33,398 | -31,998 | -36,158 | -37,624 | -43,701 | -38,873 | -41,829 |
| 30-34 | <u>-21,169</u> | <u>-25,094</u> | <u>-18,304</u> | <u>-16,907</u> | <u>-15,296</u> | <u>-22,113</u> | <u>-18,920</u> | <u>-23,653</u> | <u>-24,450</u> | <u>-21,210</u> | <u>-28,941</u> | <u>-27,598</u> |
| Total | -116,707 | -127,129 | -108,469 | -101,667 | -105,277 | -113,419 | -114,962 | -118,802 | -127,776 | -123,636 | -131,650 | -131,190 |
| 18-24 | -66,205 | -68,829 | -61,727 | -58,292 | -57,388 | -57,908 | -64,044 | -58,991 | -65,702 | -58,725 | -63,836 | -61,763 |
| 25-34 | -50,502 | -58,300 | -46,742 | -43,375 | -47,889 | -55,511 | -50,918 | -59,811 | -62,074 | -64,911 | -67,814 | -69,427 |

Net Domestic Migration

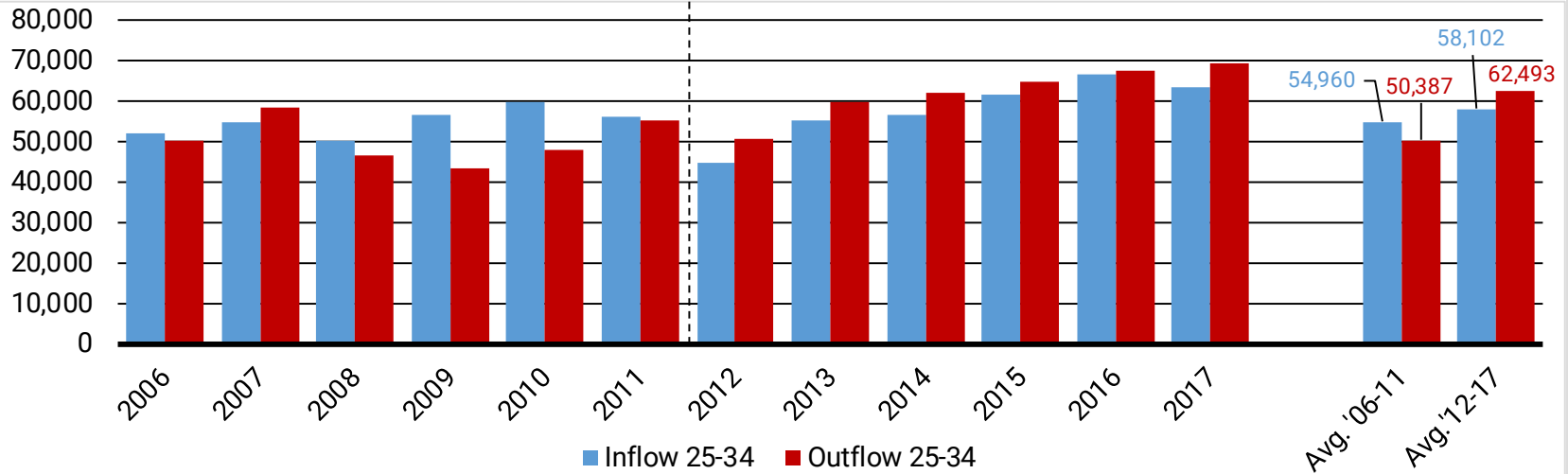
| Age Group | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------|--------------|---------------|--------------|--------------|--------------|--------------|------------|---------------|---------------|--------------|---------------|---------------|
| 18-19 | 10,702 | 6,843 | 11,034 | 12,286 | 12,222 | 9,769 | 3,622 | 9,524 | 6,036 | 8,688 | 12,436 | 7,276 |
| 20-24 | -7,096 | -6,120 | -2,805 | -2,064 | -2,949 | 4,201 | -3,579 | -8,645 | -6,145 | -10,143 | -16,632 | -7,990 |
| 25-29 | -125 | 1,209 | 2,450 | 5,698 | 3,825 | -1,034 | -6,341 | -3,073 | -1,679 | -6,825 | 2,209 | -4,279 |
| 30-34 | <u>1,699</u> | <u>-4,628</u> | <u>1,066</u> | <u>7,519</u> | <u>7,955</u> | <u>1,808</u> | <u>334</u> | <u>-1,425</u> | <u>-3,693</u> | <u>3,490</u> | <u>-3,332</u> | <u>-1,732</u> |
| Total | 5,180 | -2,696 | 11,745 | 23,439 | 21,053 | 14,744 | -5,964 | -3,619 | -5,481 | -4,790 | -5,319 | -6,725 |
| 18-24 | 3,606 | 723 | 8,229 | 10,222 | 9,273 | 13,970 | 43 | 879 | -109 | -1,455 | -4,196 | -714 |
| 25-34 | 1,574 | -3,419 | 3,516 | 13,217 | 11,780 | 774 | -6,007 | -4,498 | -5,372 | -3,335 | -1,123 | -6,011 |

Source: U.S. Bureau of the Census, American Community Survey (ACS), Public Use Microdata Sample (PUMS) single year files (multiple years).

Annual Domestic Migration of College-Age Adults (18-24 Year Olds) in Pennsylvania (2006 - 2017)



Annual Domestic Migration of Young, Working-Age Adults (25-34 Year Olds) in Pennsylvania (2006 - 2017)



Source: U.S. Bureau of the Census, ACS, PUMS single year files (multiple years).

Pennsylvania Domestic Migration for 18-34 Year Olds (2007 and 2017)

| State ¹ | 2007 | | |
|--------------------|----------------|-----------------|----------------|
| | Inflow to PA | Outflow from PA | Net Migration |
| New York | 21,445 | 14,280 | 7,165 |
| New Jersey | 20,265 | 13,363 | 6,902 |
| Virginia | 5,938 | 11,003 | -5,065 |
| Ohio | 7,195 | 9,710 | -2,515 |
| Maryland | 10,365 | 9,548 | 817 |
| All Other | <u>59,225</u> | <u>69,225</u> | <u>-10,000</u> |
| Total | 124,433 | 127,129 | -2,696 |

| State ¹ | 2017 | | |
|--------------------|----------------|-----------------|----------------|
| | Inflow to PA | Outflow from PA | Net Migration |
| New York | 17,913 | 14,577 | 3,336 |
| California | 6,157 | 9,652 | -3,495 |
| Ohio | 6,276 | 9,630 | -3,354 |
| New Jersey | 23,477 | 9,220 | 14,257 |
| Virginia | 6,314 | 8,415 | -2,101 |
| All Other | <u>64,328</u> | <u>79,696</u> | <u>-15,368</u> |
| Total | 124,465 | 131,190 | -6,725 |

¹ States chosen by greatest outflow of individuals from Pennsylvania.

Source: U.S. Bureau of the Census, ACS, PUMS single year files (2007 and 2017).