

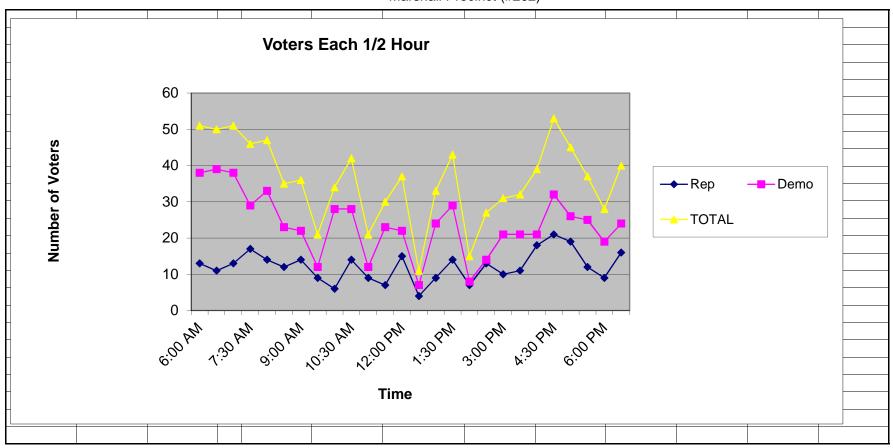
Involved in election related jobs & projects since 1972

- Federal, State and local clients & jurisdictions
- Last 4 decades done redistricting in more than half the nation
- Studied election results and Census data
- Multiple projects on election administration
- Since 2008 have been poll worker in Prince William County, VA

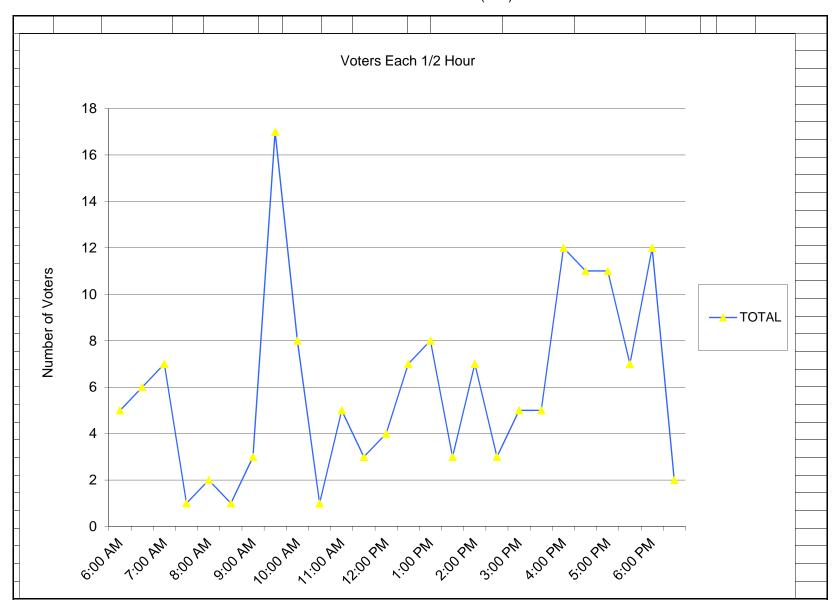
Feb08PPPvoting.xls Marshall Precinct (#202)

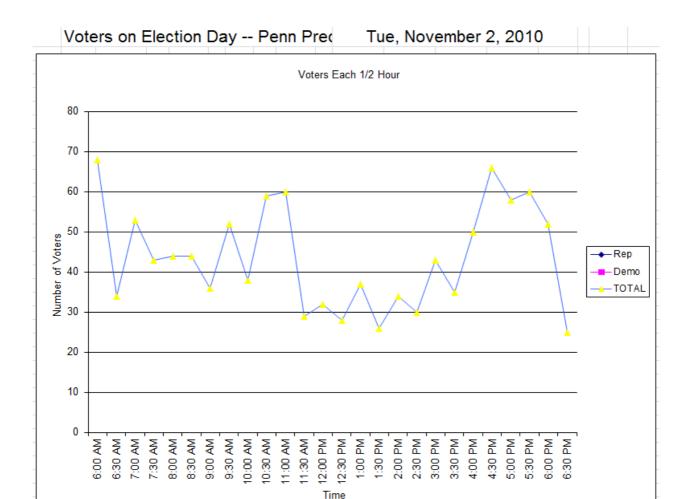
| | | O8 PPP | | | | | | | | |
|----------|------|------------|-------|------|---------------|-------|--|--|--|--|
| | | Cumulative | | | Interval Tota | tals | | | | |
| | Demo | Rep | TOTAL | Demo | Rep | TOTAL | | | | |
| 6:00 AM | 0 | 0 | 0 | | | | | | | |
| 6:30 AM | 38 | 13 | 51 | 38 | 13 | 51 | | | | |
| 7:00 AM | 77 | 24 | 101 | 39 | 11 | 50 | | | | |
| 7:30 AM | 115 | 37 | 152 | 38 | 13 | 51 | | | | |
| 8:00 AM | 144 | 54 | 198 | 29 | 17 | 46 | | | | |
| 8:30 AM | 177 | 68 | 245 | 33 | 14 | 47 | | | | |
| 9:00 AM | 200 | 80 | 280 | 23 | 12 | 35 | | | | |
| 9:30 AM | 222 | 94 | 316 | 22 | 14 | 36 | | | | |
| 10:00 AM | 234 | 103 | 337 | 12 | | 21 | | | | |
| 10:30 AM | 262 | 109 | 371 | 28 | 6 | 34 | | | | |
| 11:00 AM | 290 | 123 | 413 | 28 | 14 | 42 | | | | |
| 11:30 AM | 302 | 132 | 434 | 12 | 9 | 21 | | | | |
| 12:00 PM | 325 | 139 | 464 | 23 | 7 | 30 | | | | |
| 12:30 PM | 347 | 154 | 501 | 22 | 15 | 37 | | | | |
| 1:00 PM | 354 | 158 | 512 | 7 | 4 | 11 | | | | |
| 1:30 PM | 378 | 167 | 545 | 24 | | 33 | | | | |
| 2:00 PM | 407 | 181 | 588 | 29 | | 43 | | | | |
| 2:30 PM | 415 | 188 | 603 | 8 | | 15 | | | | |
| 3:00 PM | 429 | 201 | 630 | 14 | 13 | | | | | |
| 3:30 PM | 450 | 211 | 661 | 21 | 10 | 31 | | | | |
| 4:00 PM | 471 | 222 | 693 | 21 | 11 | 32 | | | | |
| 4:30 PM | 492 | 240 | 732 | 21 | | | | | | |
| 5:00 PM | 524 | 261 | 785 | 32 | | 53 | | | | |
| 5:30 PM | 550 | 280 | 830 | 26 | | 45 | | | | |
| 6:00 PM | 575 | 292 | 867 | 25 | | 37 | | | | |
| 6:30 PM | 594 | 301 | 895 | 19 | | 28 | | | | |
| 7:00 PM | 618 | 317 | 935 | 24 | 16 | 40 | | | | |

Feb08PPPvoting.xls Marshall Precinct (#202)

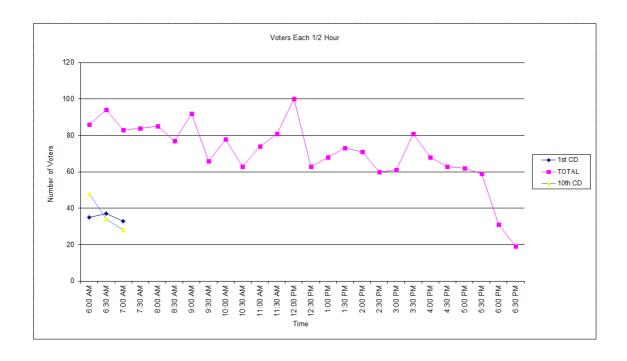


June10Primaryvoting.xls Penn Precinct (210)





| 1/-4 | | 14 | D | E | ا مدناه | G | H /F1 | 0\ | K | | M | N | O T | P | Q | R | S | T U | , |
|-----------------|--|--|---|--|------------|------------|--|------------|---------|------------|----------------------|------------|------------|------------|--|------------|------------|------------|---------------------|
| voters (| on ⊨ | lecti | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Ma | | | | | | TOTAL | Diff | |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | 33 | 28 | | | | | | | | | • | |
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| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 10:00 AM | | | | | | | | | | | | | 139 | 123 | 134 | 136 | 667 | 0 | |
| | | | | | | | | | | | | | 155 | 139 | 151 | 149 | | 0 | |
| | | | 105 | | | | | | | | | | 173 | 151 | | | | 0 | |
| 11:30 AM | | | 105 | 110 | 215 | 882 | 30.91% | | | 74 | | 178 | 189 | 164 | 178 | 173 | 882 | 0 | |
| 12:00 PM | | | 105 | 110 | 215 | 963 | 33.75% | | | 81 | | 197 | 204 | 177 | 195 | 190 | 963 | 0 | |
| 12:30 PM | | | 105 | 110 | 215 | 1,063 | 37.26% | | | 100 | | 219 | 225 | 197 | 214 | 208 | 1,063 | 0 | |
| 1:00 PM | | | 105 | 110 | 215 | 1,126 | 39.47% | | | 63 | | 234 | 239 | 209 | 224 | 219 | 1,125 | -1 | |
| 1:30 PM | | | 105 | 110 | 215 | 1,194 | 41.85% | | | 68 | | 247 | 251 | 224 | 239 | 231 | 1,192 | -2 | |
| 2:00 PM | | | 105 | 110 | 215 | 1,267 | 44.41% | | | 73 | | 265 | 266 | 238 | 251 | 244 | 1,264 | -3 | |
| 2:30 PM | | | 105 | 110 | 215 | 1,338 | 46.90% | | | 71 | | 281 | 282 | 253 | 264 | 256 | 1,336 | -2 | |
| 3:00 PM | | | 105 | 110 | 215 | 1,398 | 49.00% | | | 60 | | 291 | 296 | 265 | 277 | 268 | 1,397 | -1 | |
| 3:30 PM | | | 105 | 110 | 215 | 1,459 | 51.14% | | | 61 | | 303 | 309 | 275 | 291 | 279 | 1,457 | -2 | |
| 4:00 PM | | | 105 | 110 | 215 | 1.540 | 53.98% | | | 81 | | 323 | 326 | 289 | 304 | 298 | 1.540 | 0 | |
| 4:30 PM | | | 105 | 110 | | | | | | 68 | | 337 | 341 | 300 | 317 | 311 | 1,606 | -2 | |
| 5:00 PM | | | 105 | 110 | 215 | 1.671 | 58.57% | | | 63 | | 352 | 354 | 312 | 329 | 324 | 1.671 | 0 | |
| 5:30 PM | | | | | | | | | | | | 364 | 366 | 325 | 341 | 335 | | -2 | |
| 6:00 PM | | | | | | | | | | | | 376 | 380 | 335 | 352 | 347 | 1.790 | -2 | |
| | | | | | | | | | | | | | | | | | | -1 | |
| | | | | | | | | | | | | 385 | 386 | 348 | 362 | | | | |
| | | | | | | | | | | | | | | 240 | | 200 | 0 | 0 | |
| | | | | | | | | | | 0 | | | | | | | 0 | 0 | |
| | | | | | | | | | | | | | | | | | - | 0 | |
| 0.00 / 10 | | | .03 | .10 | 213 | | | | | | | | | | | | | | |
| Total Absent | ρp. | | 162 | 301 | 463 | 1 8/12 | 16 23% | | | 18/12 | | | | | | | | | |
| rotal / Noselit | - | | 102 | 301 | 403 | 1,042 | 10.2370 | | | 1042 | | | | | | | | | |
| Total Registr | ation | 2 853 | | | 2 305 | | | 80 7921% | | | | | | | | | | | |
| rotal Itegisti | actor1 | 2,000 | | | 2,303 | | | 00.1321/0 | | | | | | | | | | | |
| | 6:00 AM 6:30 AM 7:00 AM 7:30 AM 8:00 AM 9:30 AM 9:30 AM 9:30 AM 11:00 AM 11:30 AM 12:30 PM 12:30 PM 13:30 PM 2:30 PM 4:00 PM 4:00 PM 4:00 PM 6:30 PM 6:30 PM 6:30 PM 6:30 PM 6:30 PM 8:30 PM | 6:00 AM 6:30 AM 7:00 AM 7:00 AM 7:30 AM 8:00 AM 8:00 AM 9:30 AM 9:30 AM 9:30 AM 10:00 AM 11:00 AM 11:00 AM 12:00 PM 12:30 PM 1:30 PM 2:30 PM 4:30 PM 4:30 PM 4:30 PM 5:30 PM 6:30 PM 6:30 PM 6:30 PM 6:30 PM 6:30 PM 6:30 PM | 6:00 AM 6:30 AM 7:00 AM 7:30 AM 8:00 AM 8:00 AM 9:00 AM 9:00 AM 9:00 AM 10:00 AM 10:30 AM 11:00 AM 11:30 AM 11:30 AM 11:30 PM 12:30 PM 1:30 PM 2:30 PM 3:30 PM 4:30 PM 4:30 PM 5:30 PM 6:00 PM 6:30 PM 6:30 PM 7:00 PM 6:30 PM 7:00 PM 7:00 PM 8:30 PM | Cumulative 1st CD 6:00 AM 6:30 AM 70:6:30 AM 72 7:30 AM 105 8:30 AM 105 8:30 AM 105 9:30 AM 105 10:30 AM 105 11:00 AM 105 11:00 AM 105 12:30 PM 105 1:30 PM 105 1 | Cumulative | Cumulative | Cumulative 1st CD 10th CD TOTAL EPB 10th CD 10 | Cumulative | 1st CD | Cumulative | Cumulative 10th CD | Cumulative | Cumulative | Cumulative | Cumulative 1st CD 10th CD TOTAL EPB 1st CD 10th CD TOTAL 34326 343 | Cumulative | Cumulative | Cumulative | Cumulative 1st CD |



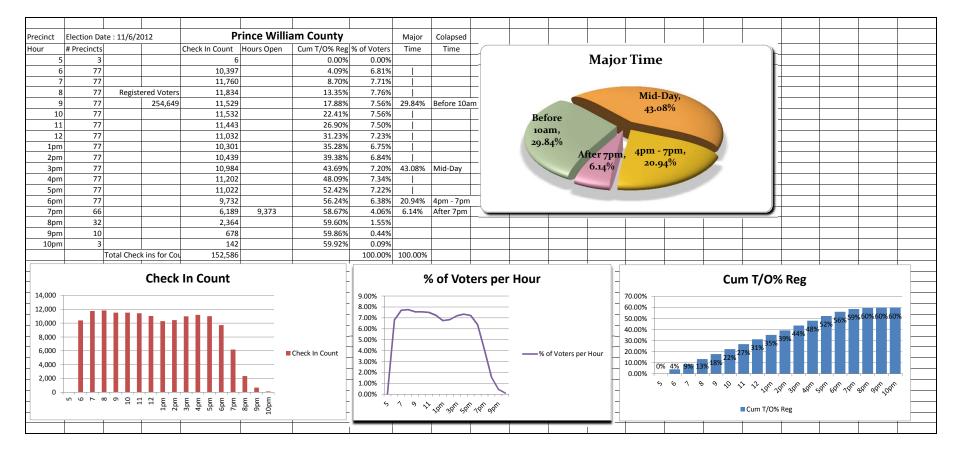
November, 2012 Election

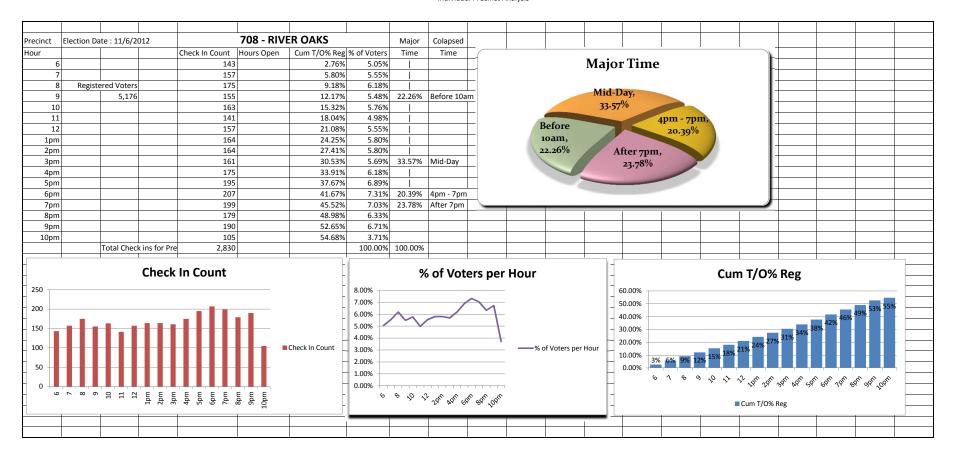
County-wide

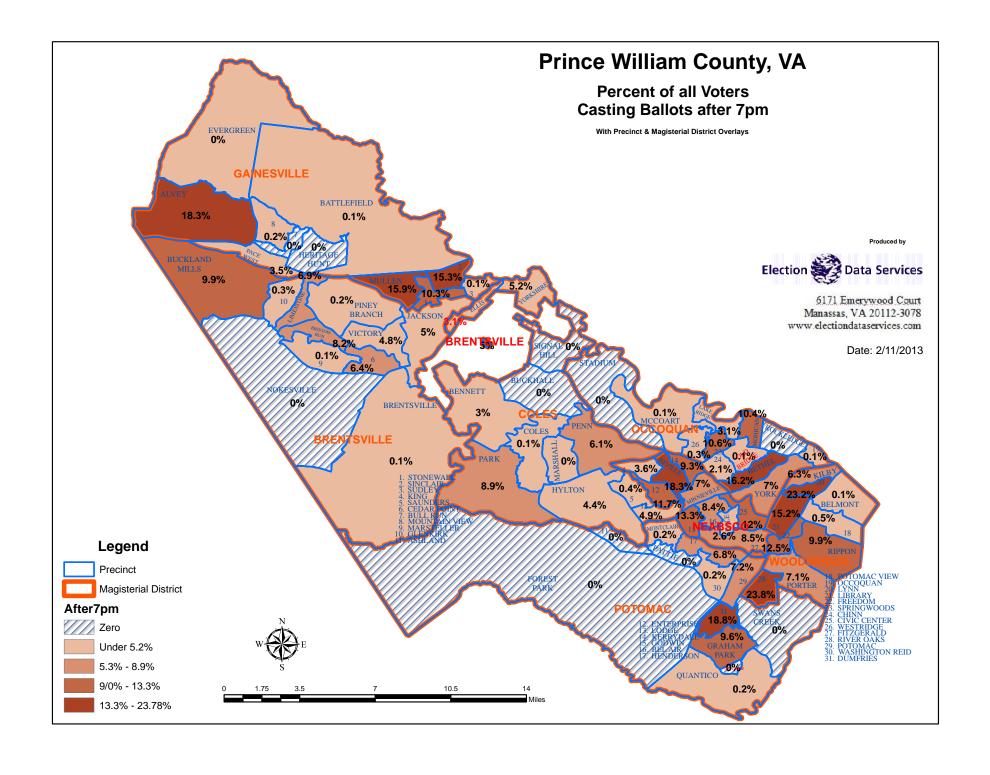
- 77 Total Precincts, 254,649 Registered Voters
- Only 11 closed on time at 7pm
- 34 Closed in next hour
- 22 Closed in 8:00 hour
- Leaving 10 still open at 9pm
- By 10pm Voters still casting ballots in 3 precincts
- Last voter voted at 10:45pm

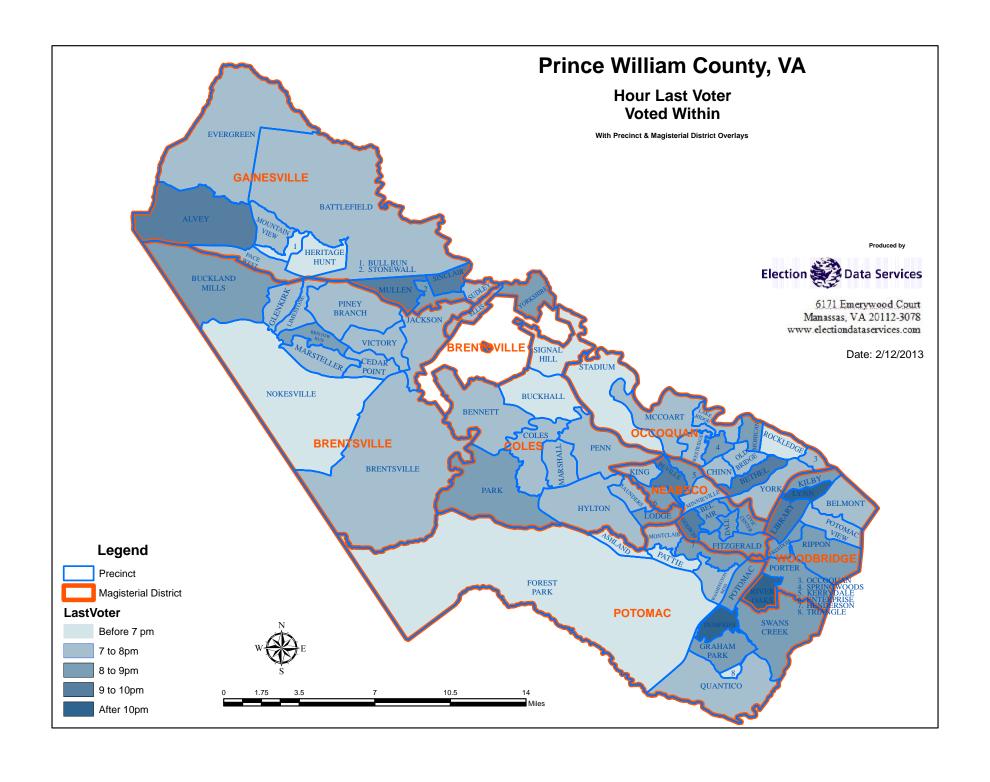
9,373 Voters Cast ballots after 7pm

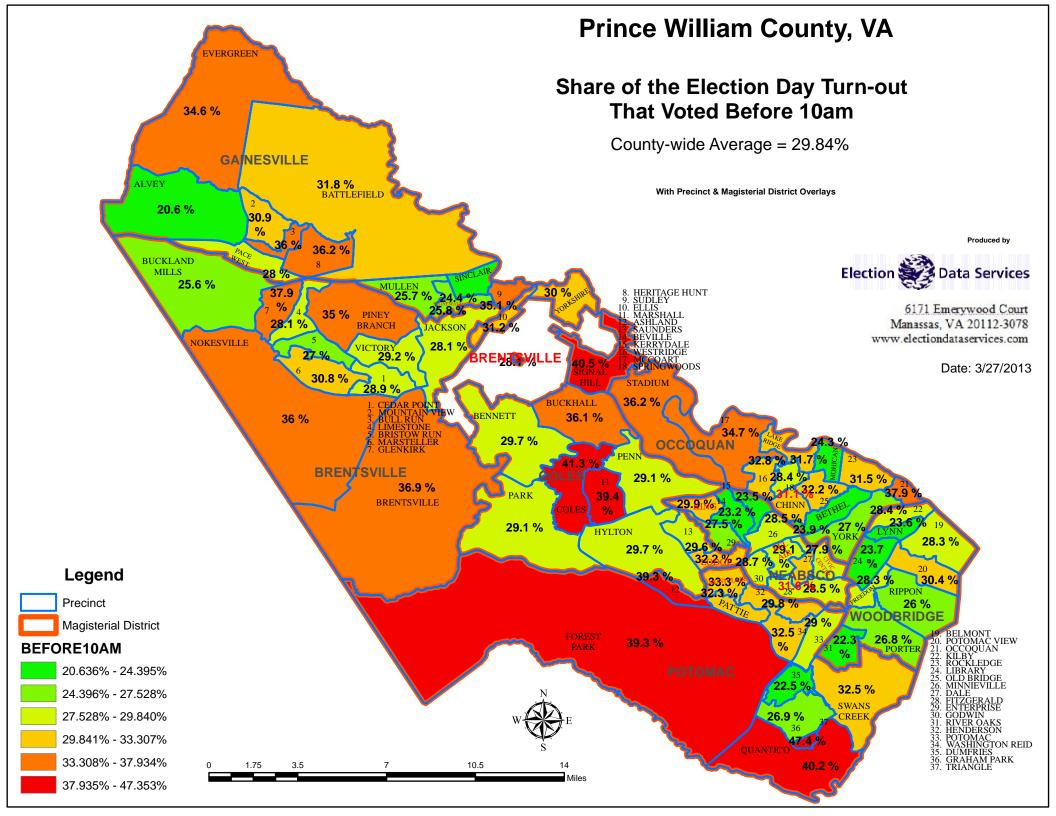
6.14% of people who turned out on election day

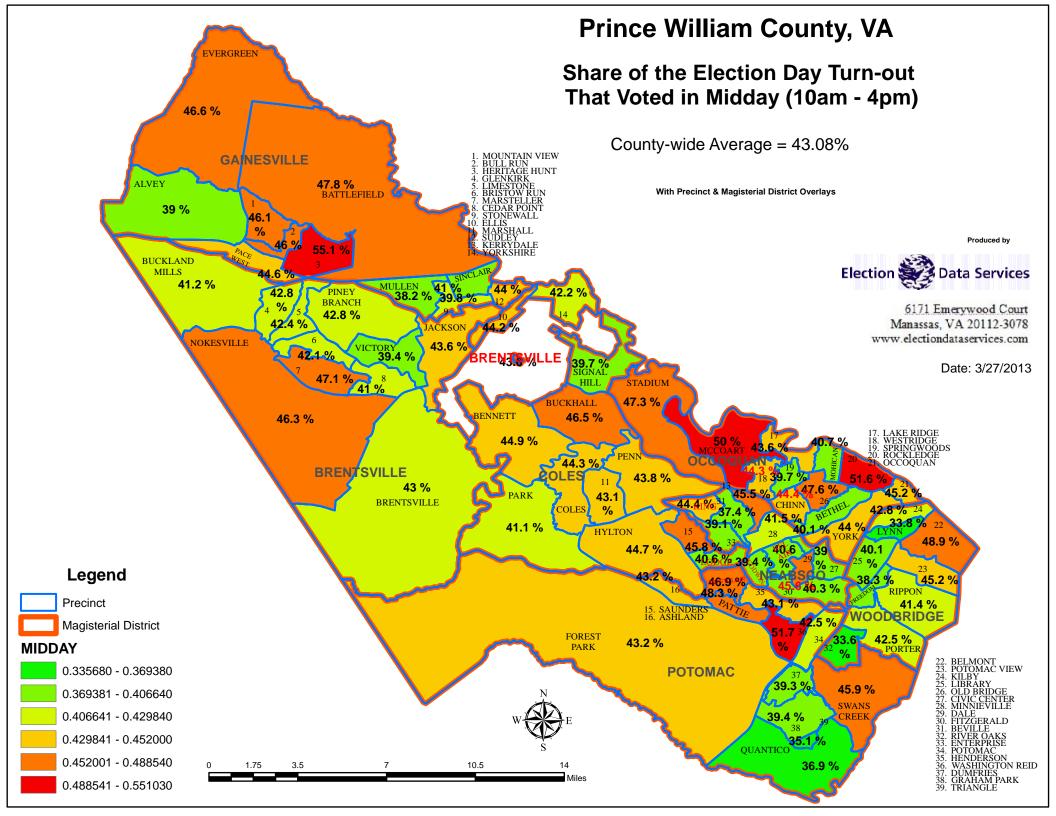


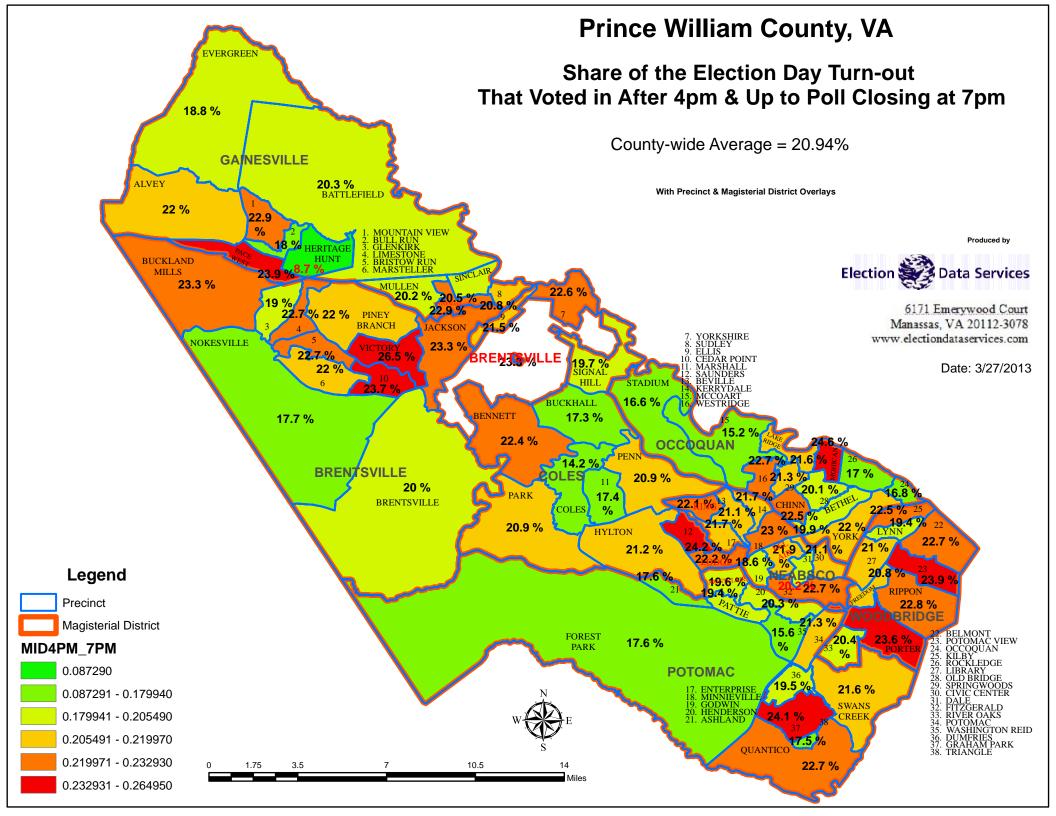


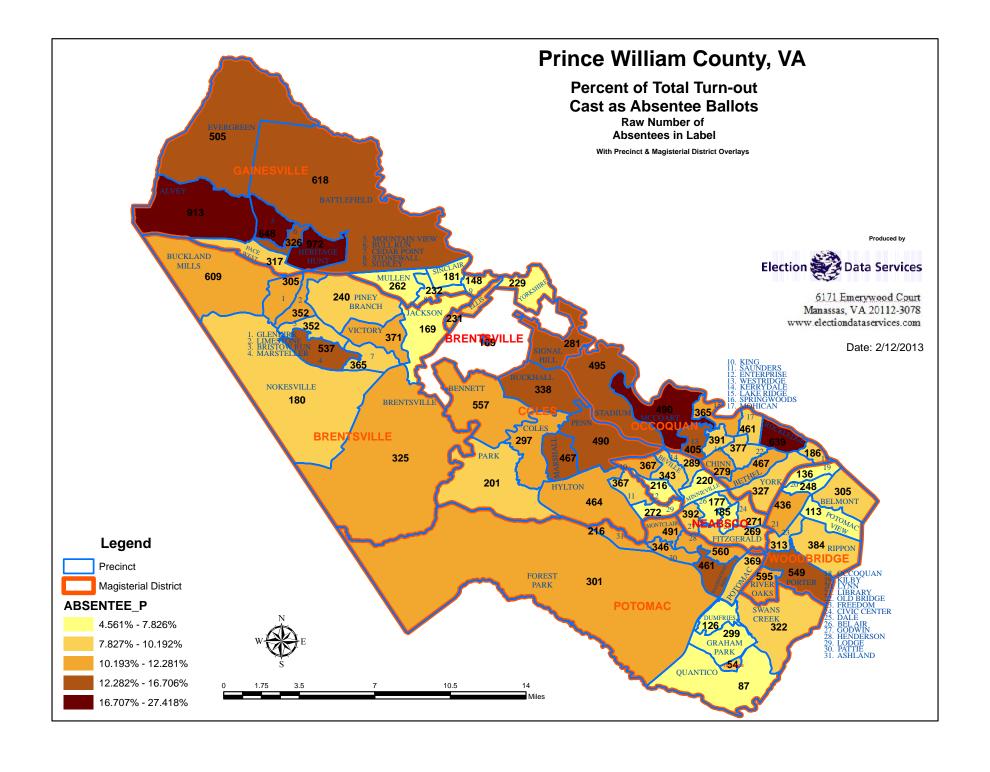








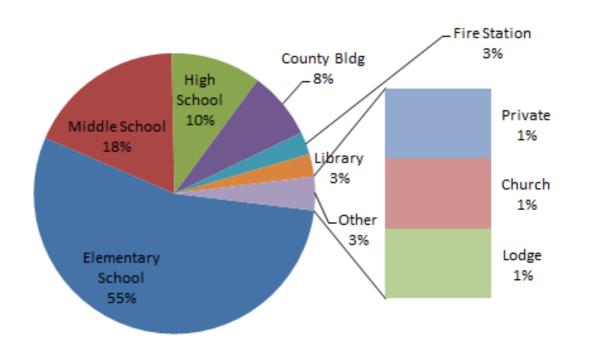


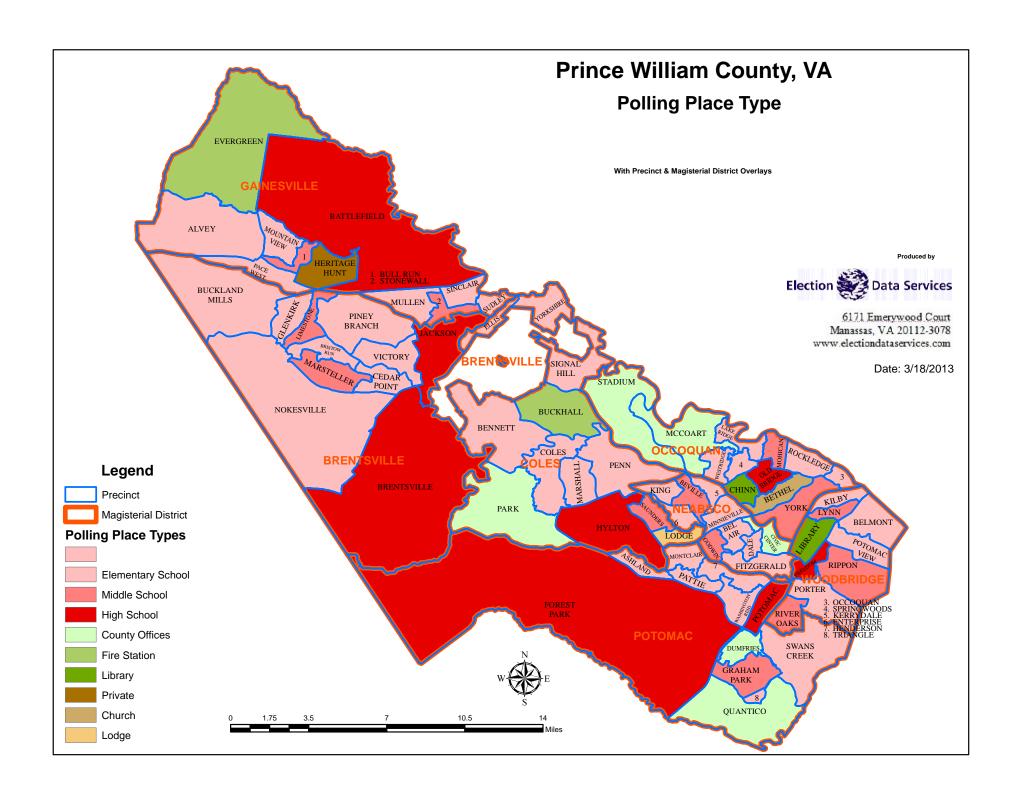


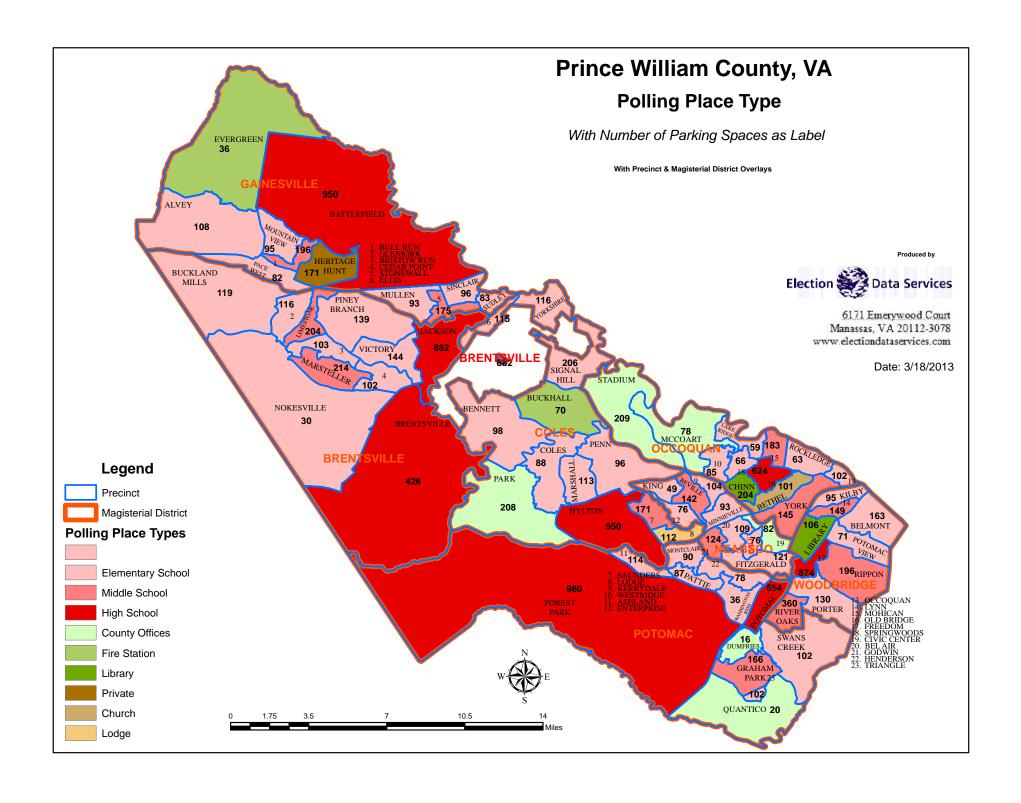
Preparation

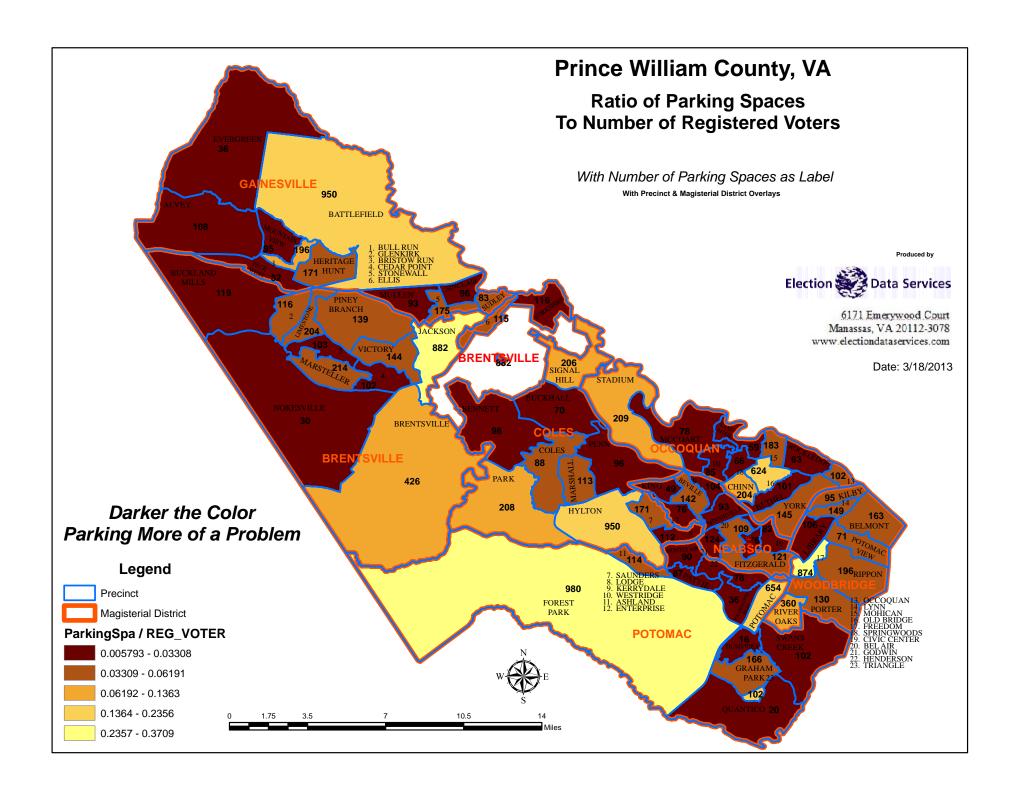
For

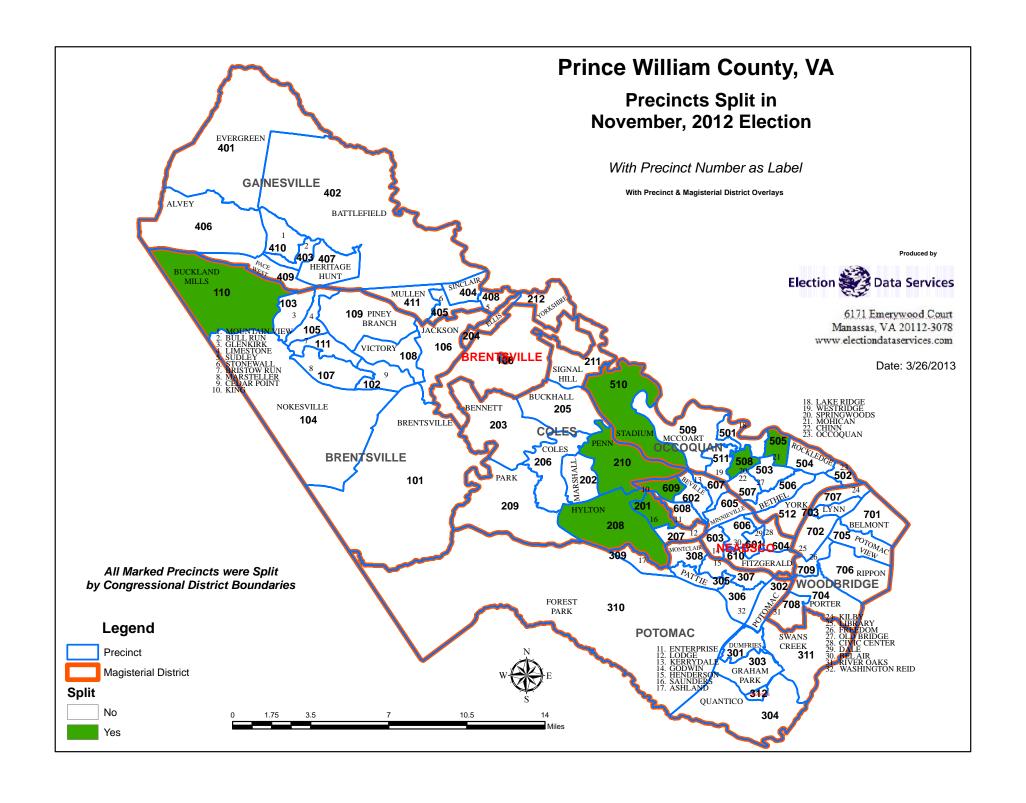
Election

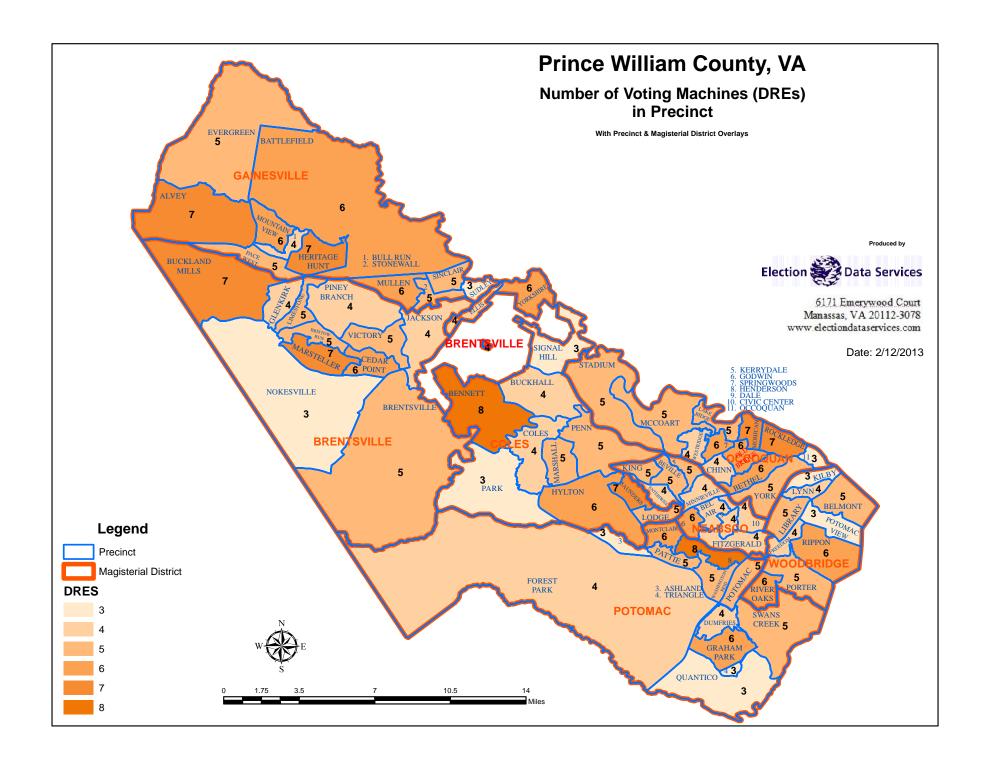


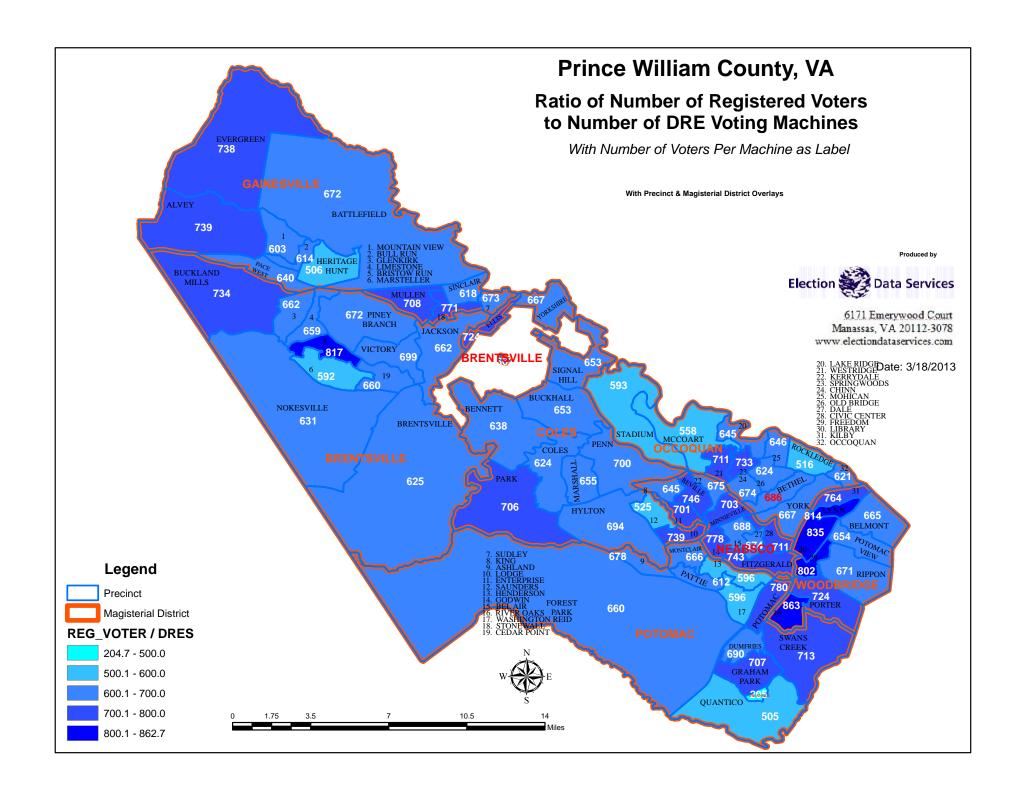


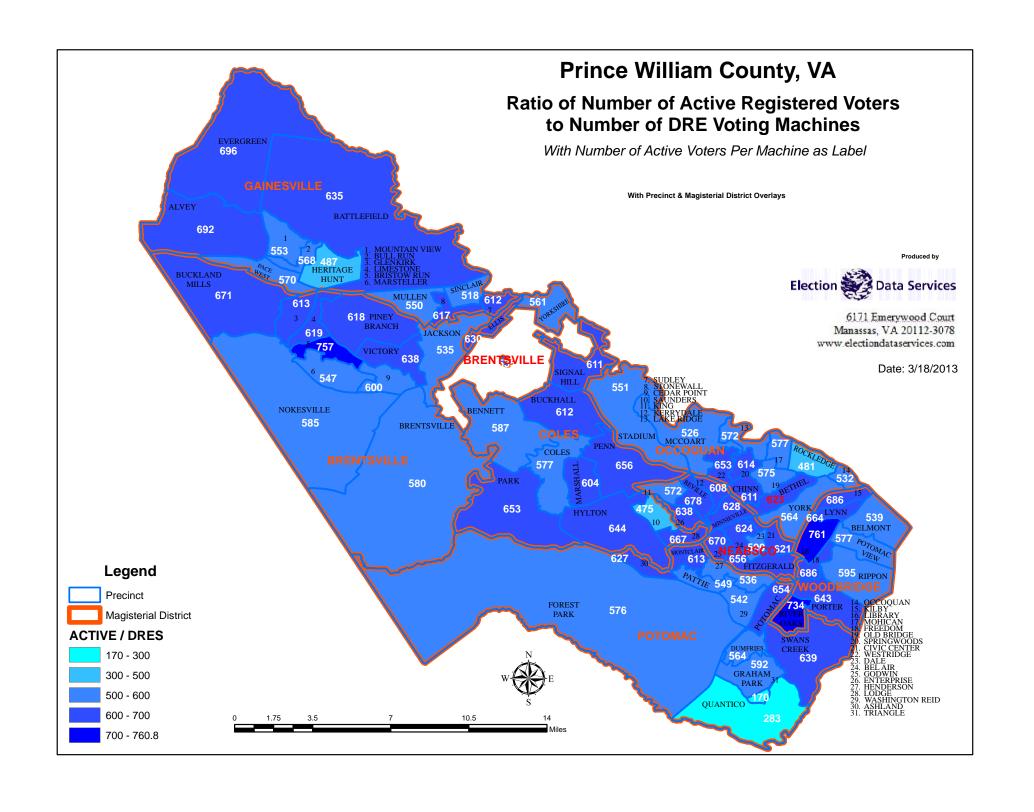


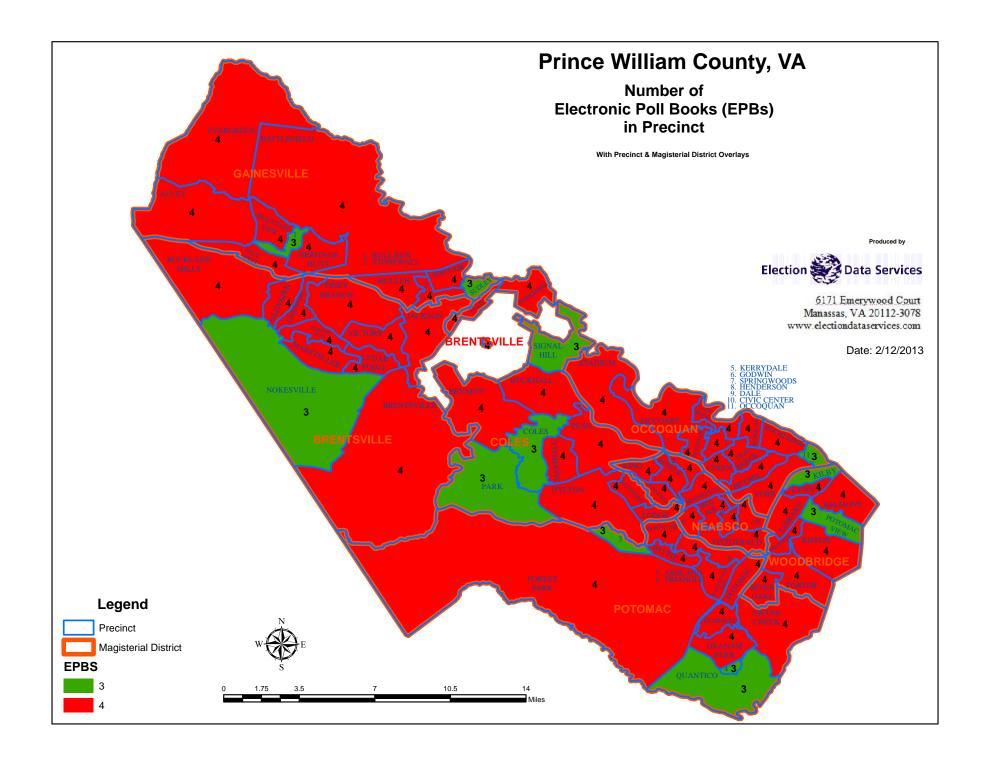




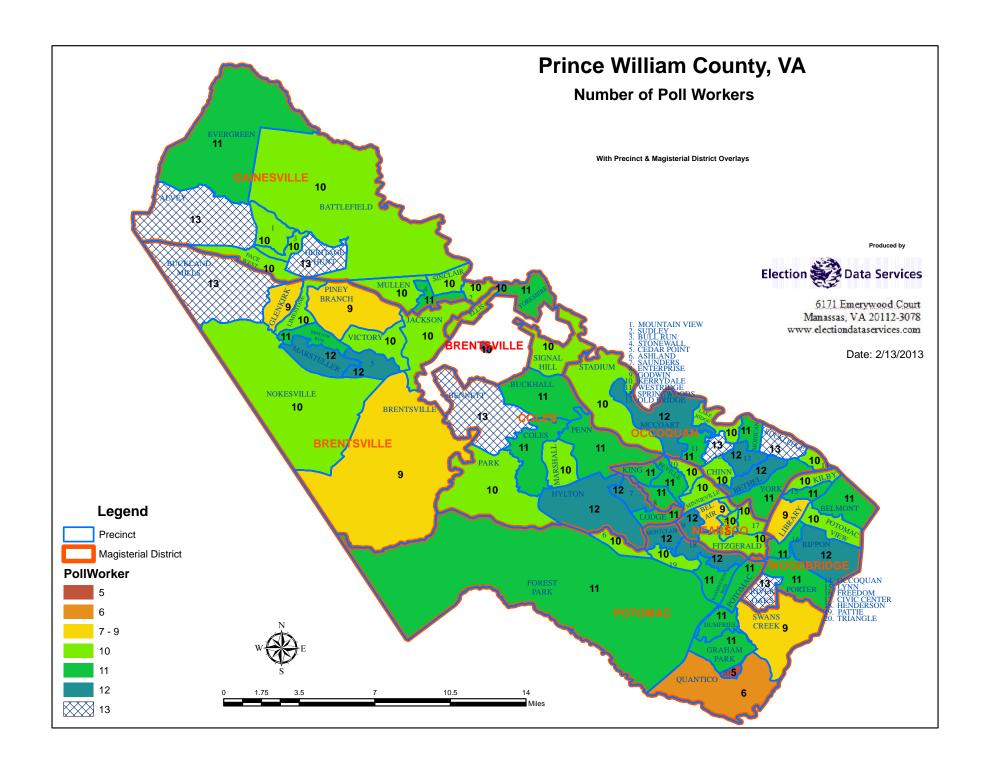


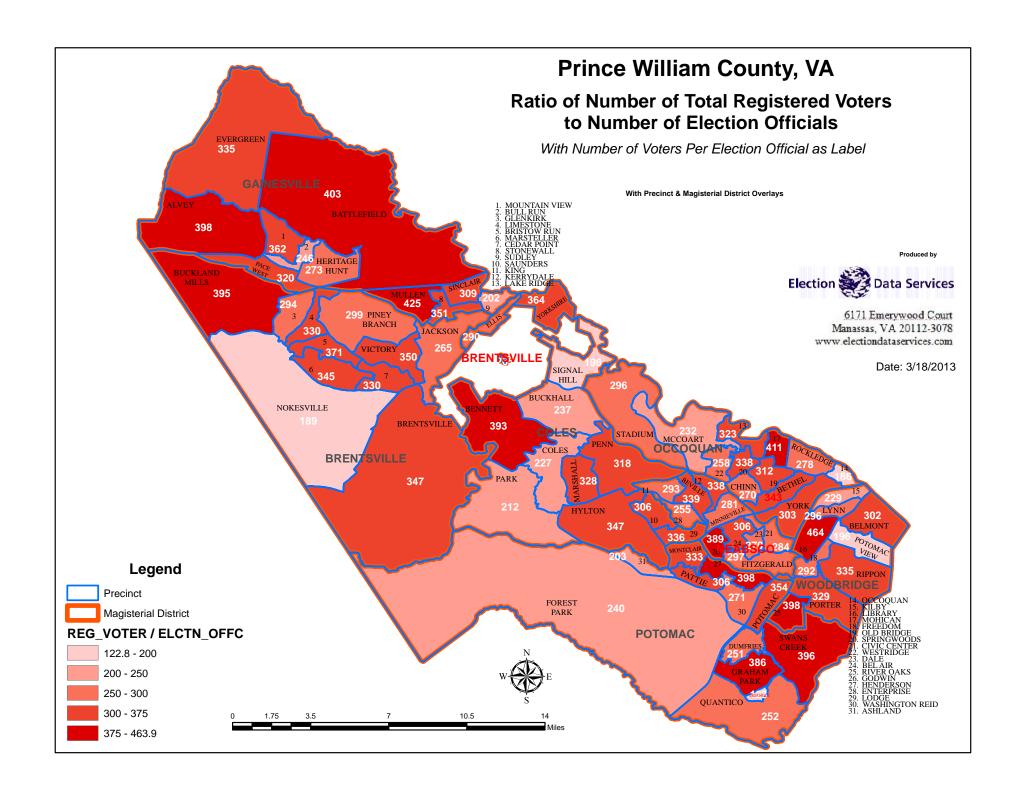


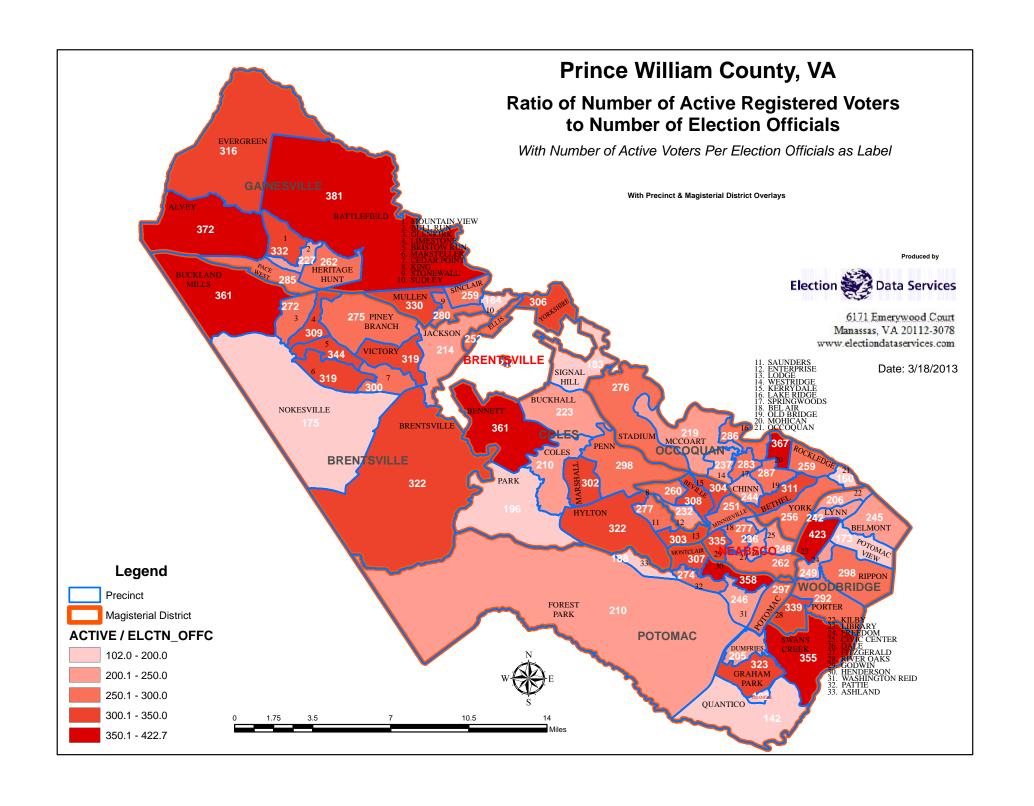




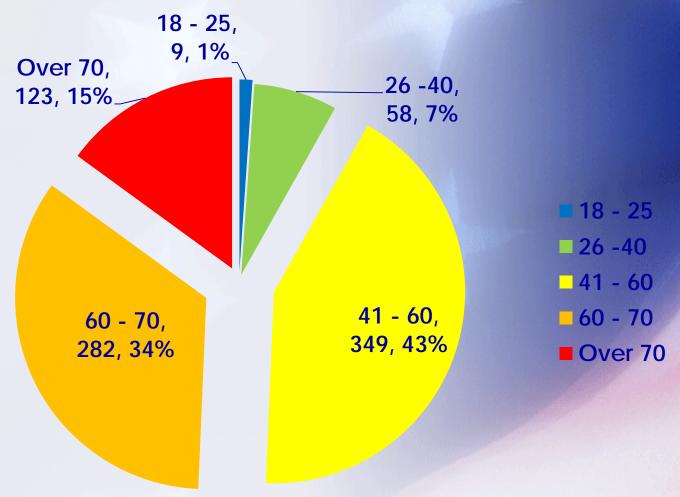
Poll Worker Update

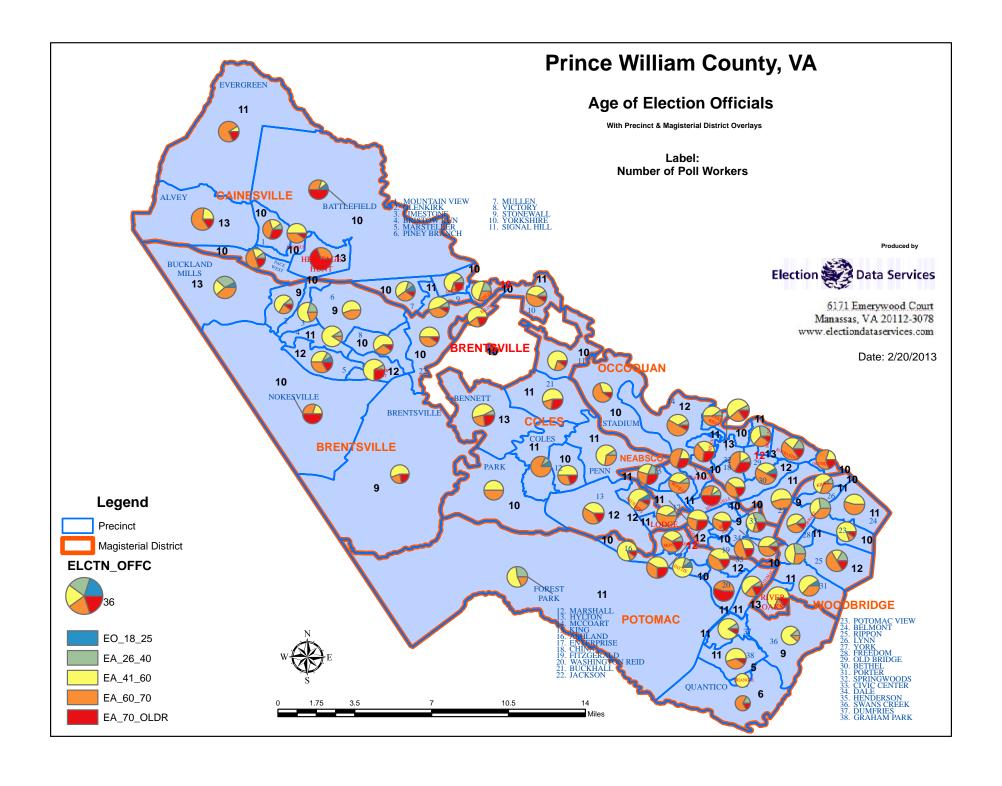




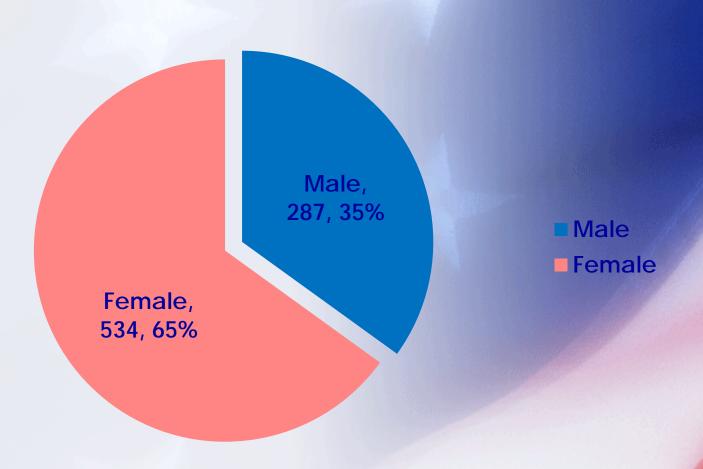


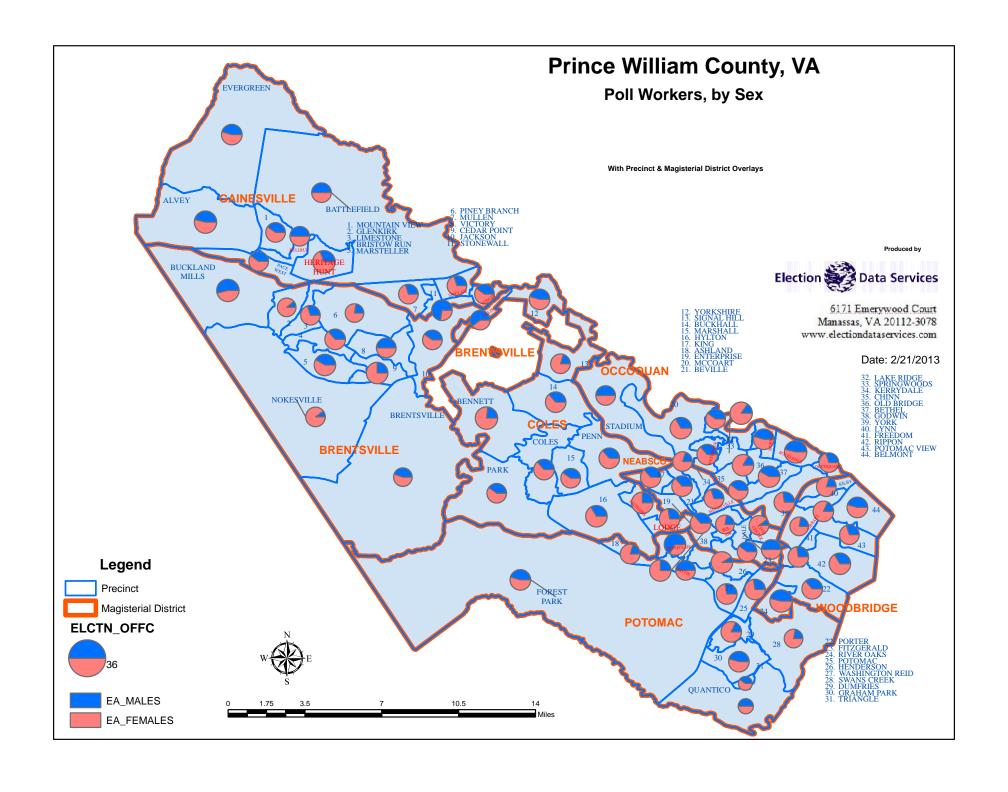
Age of Poll Workers

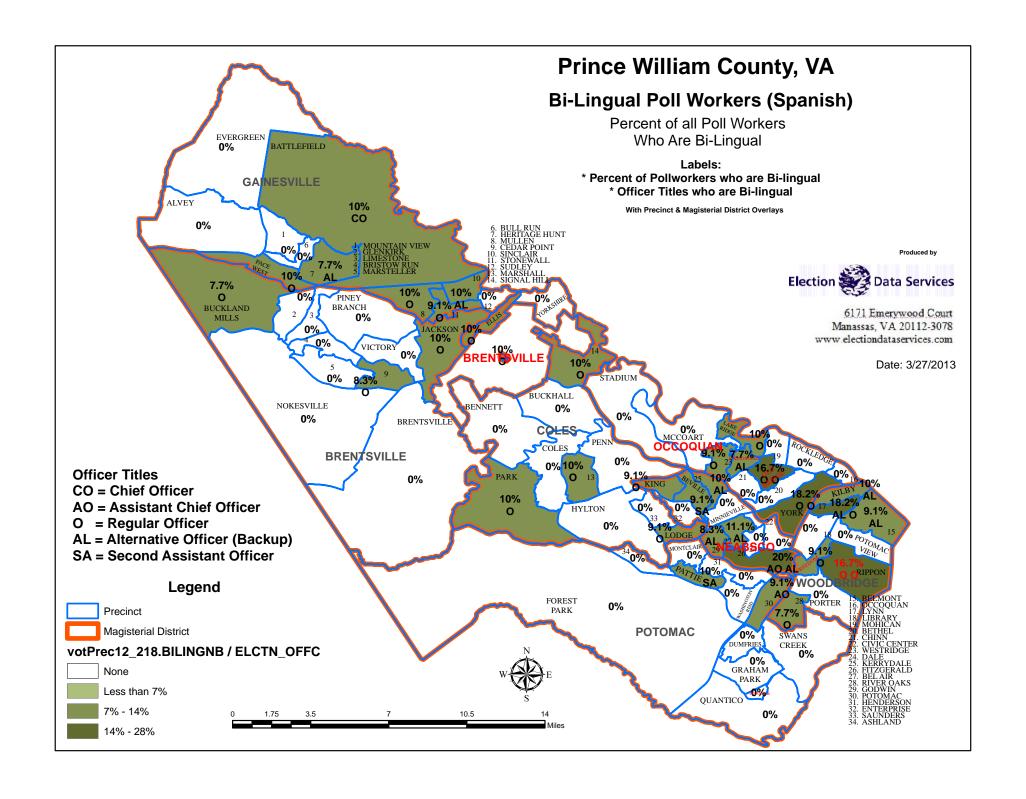




Sex of Poll Workers

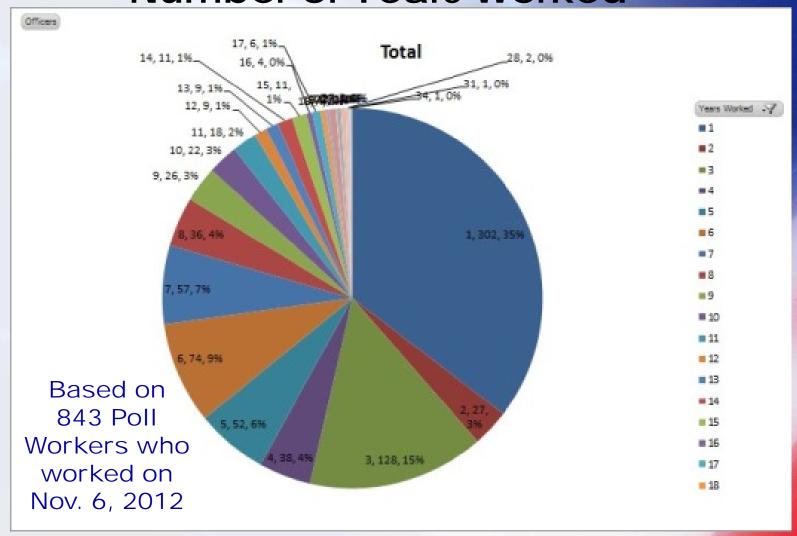


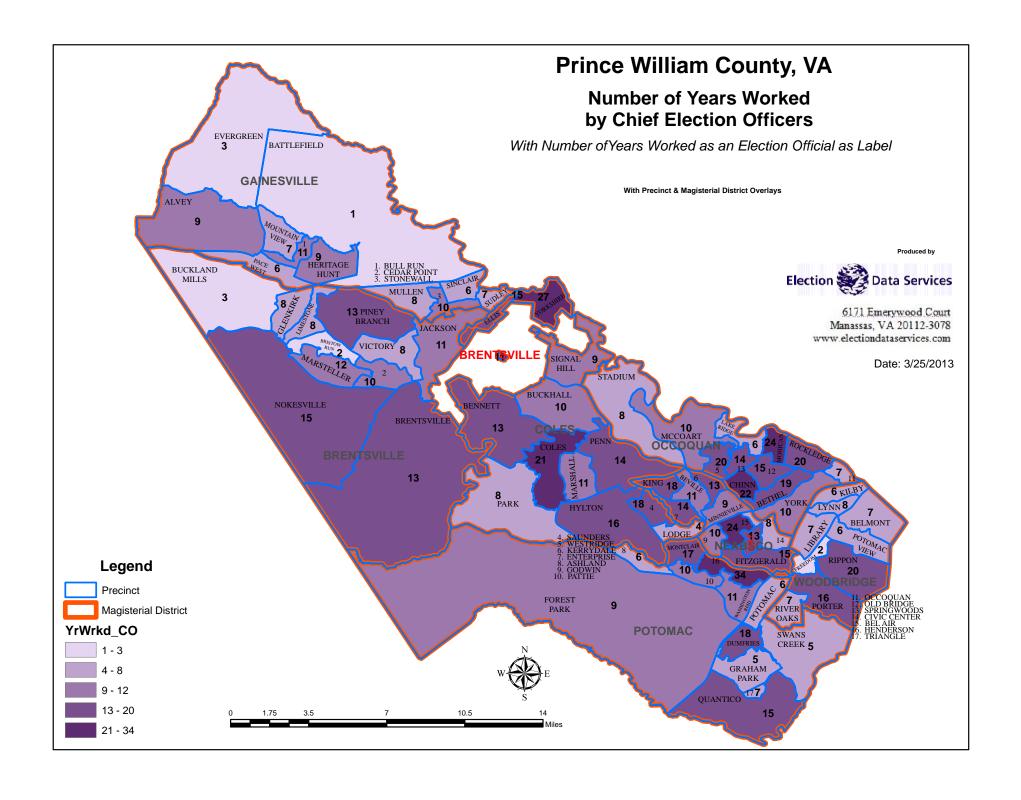


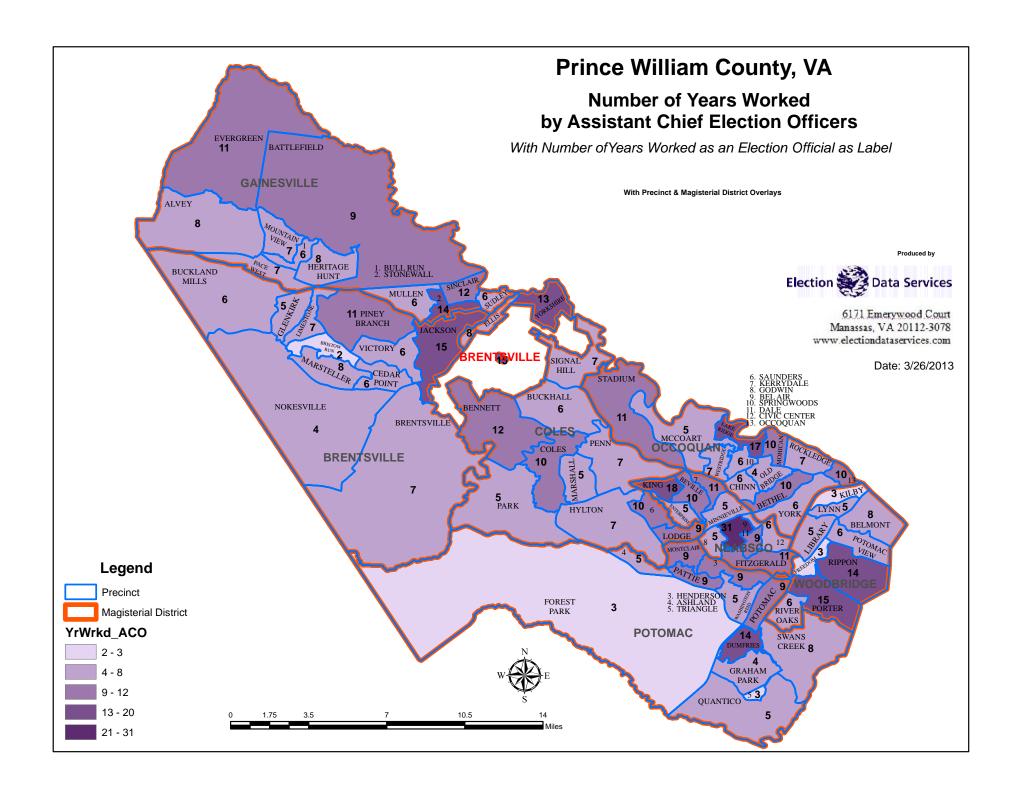


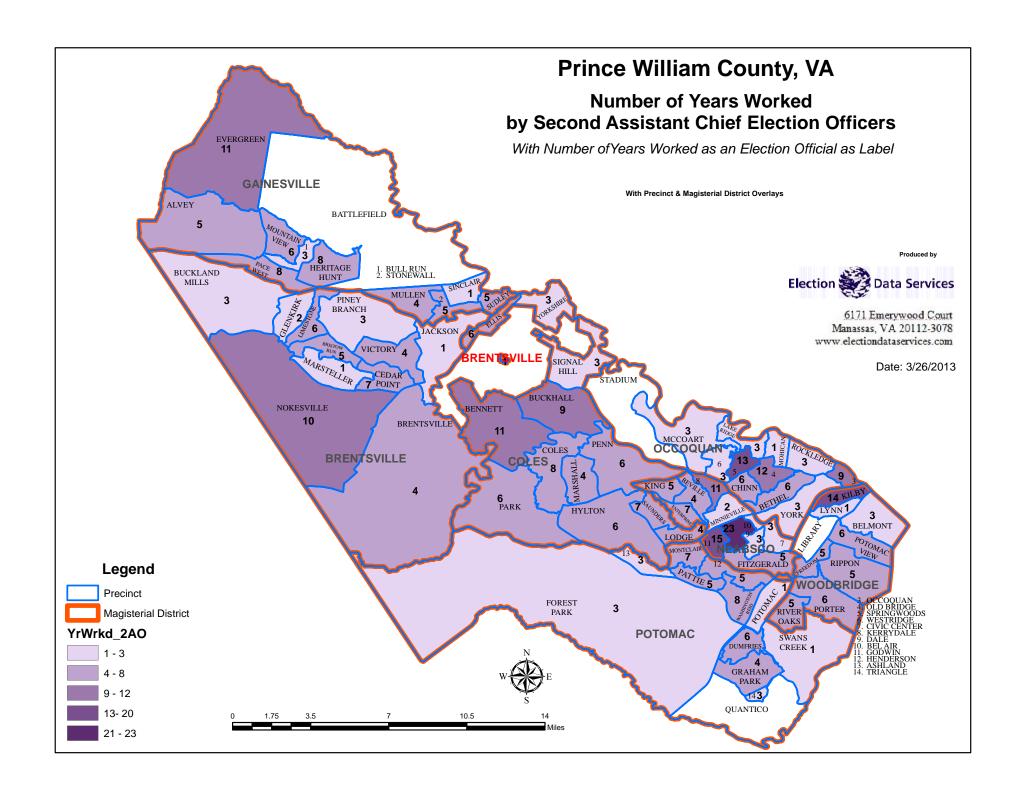
Poll Worker Experience

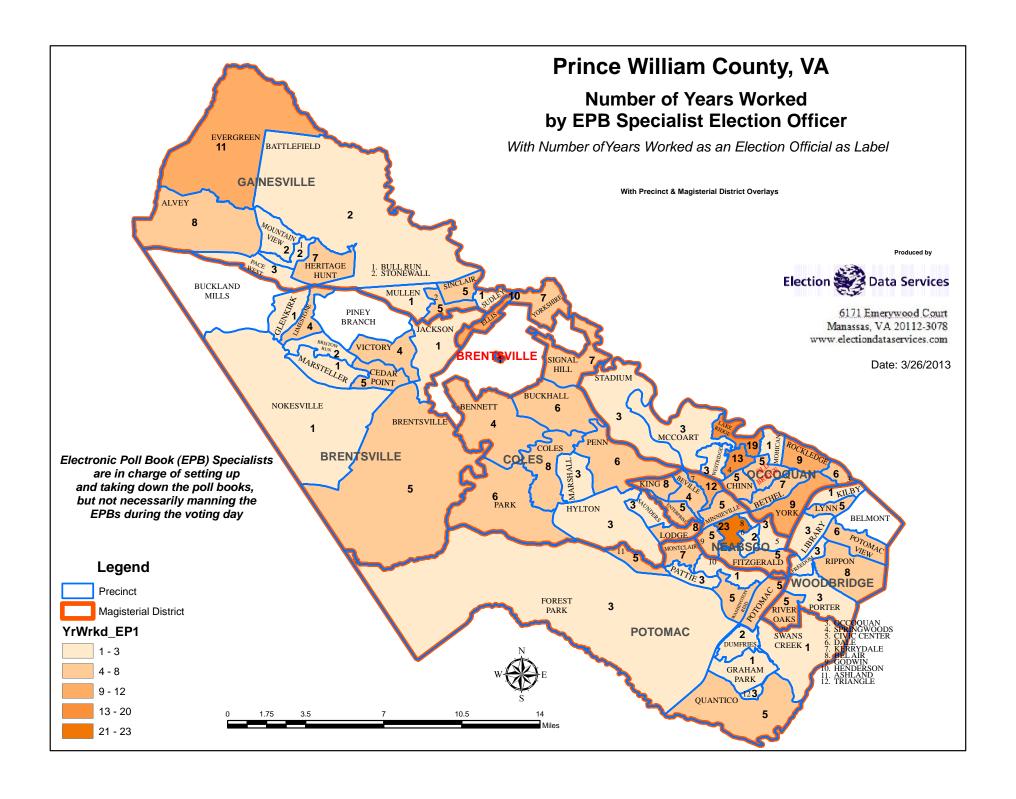
Poll Worker Experience: Number of Years Worked

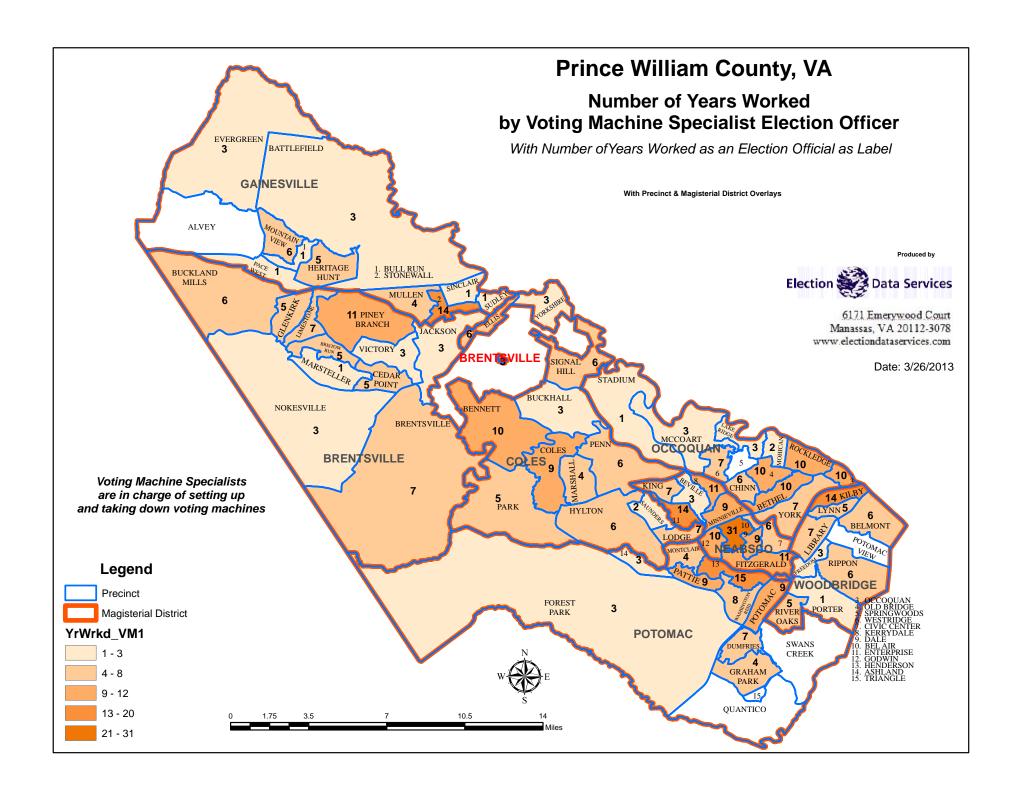


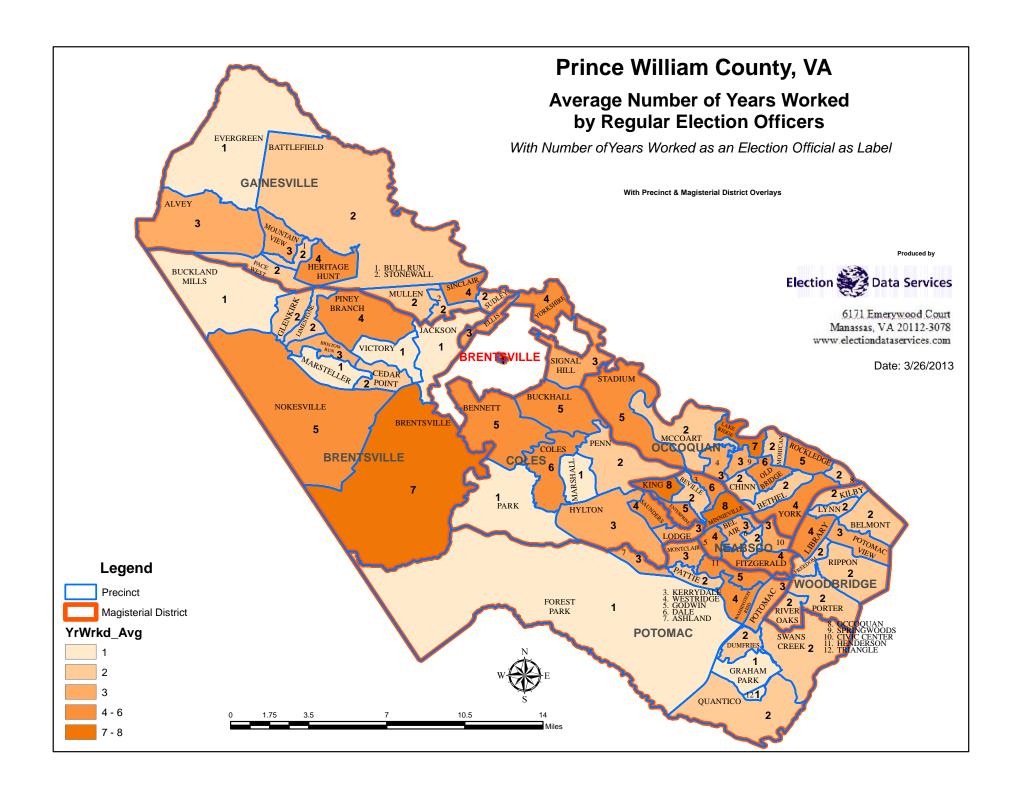


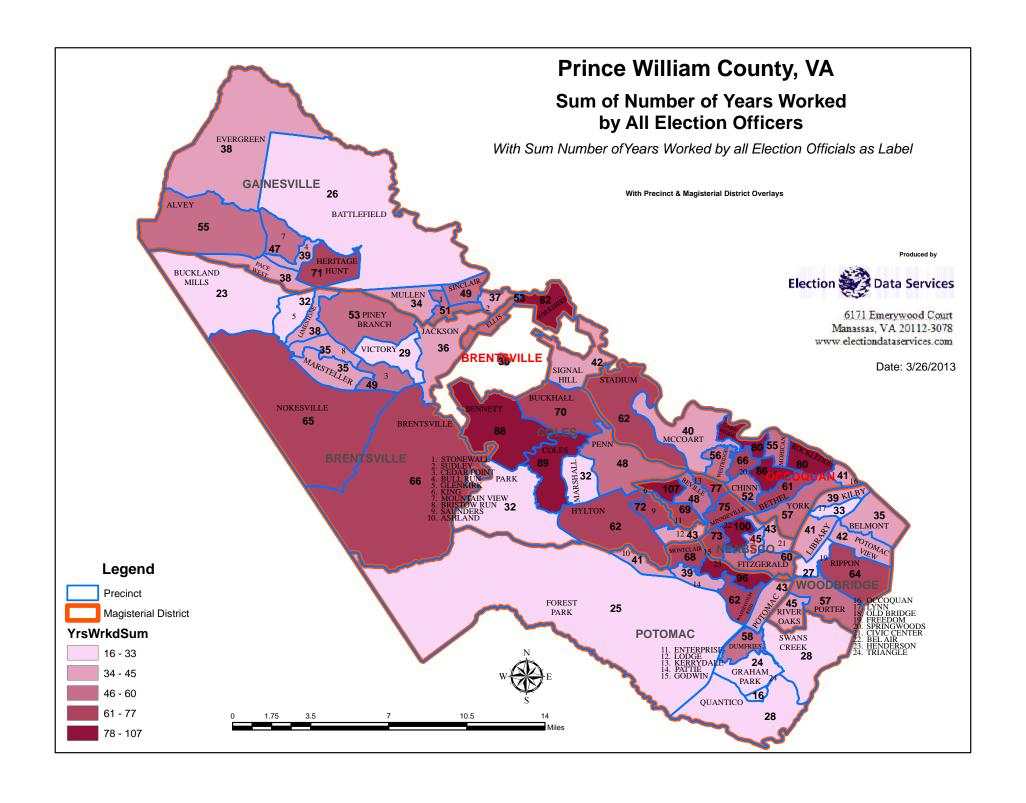


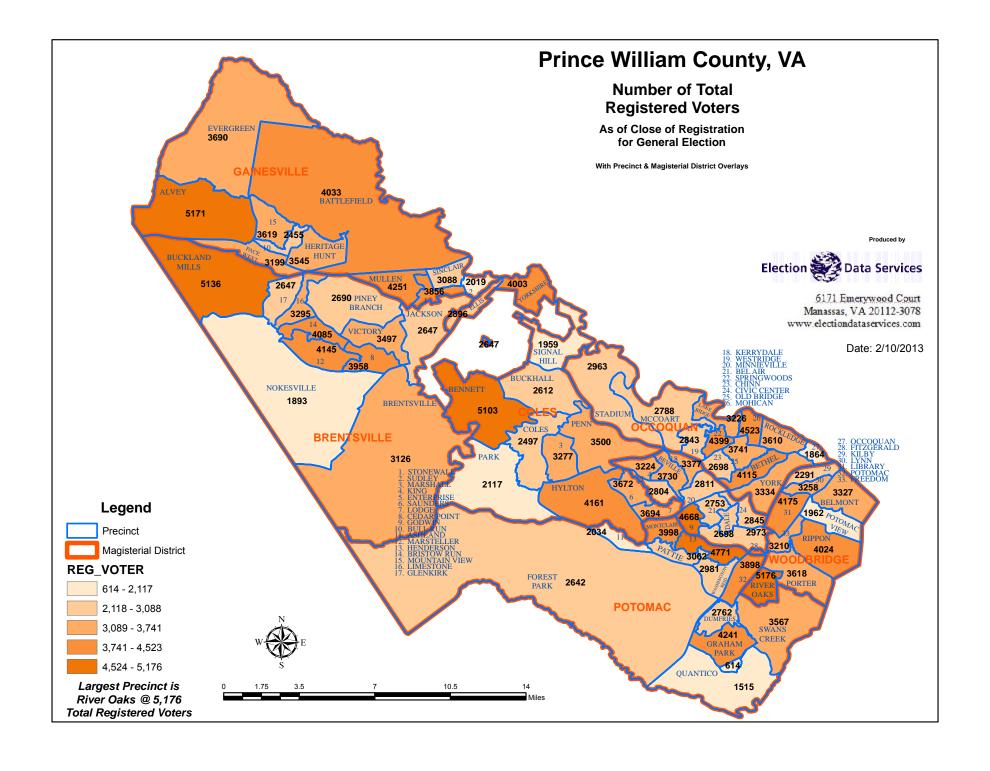


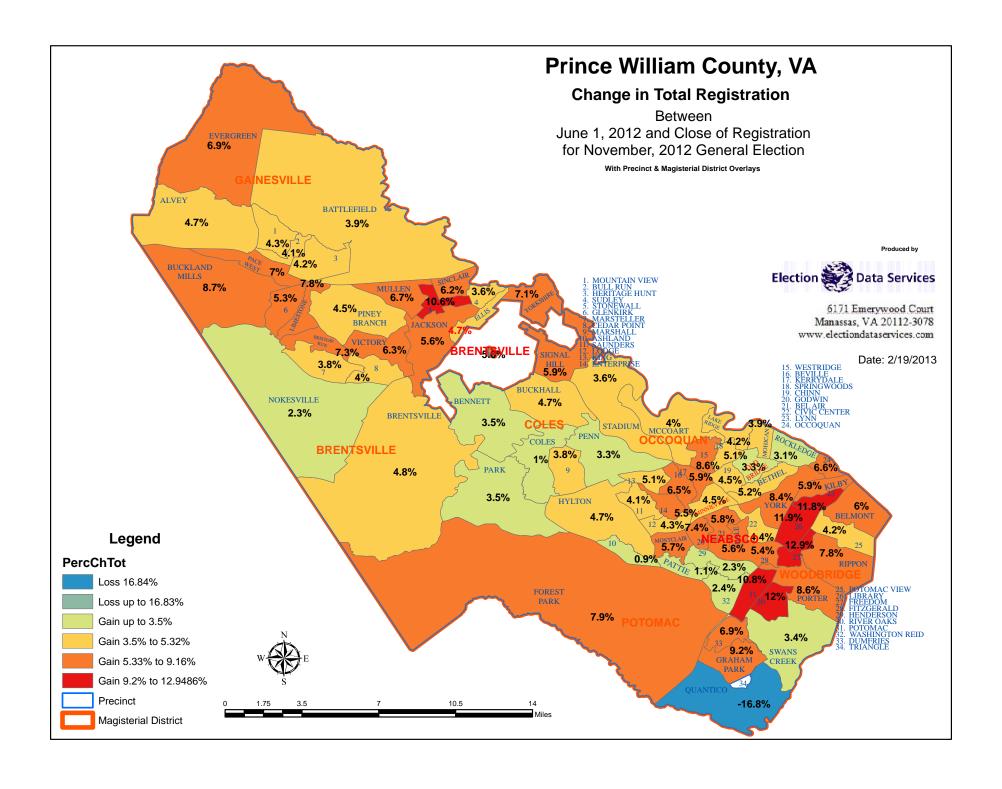


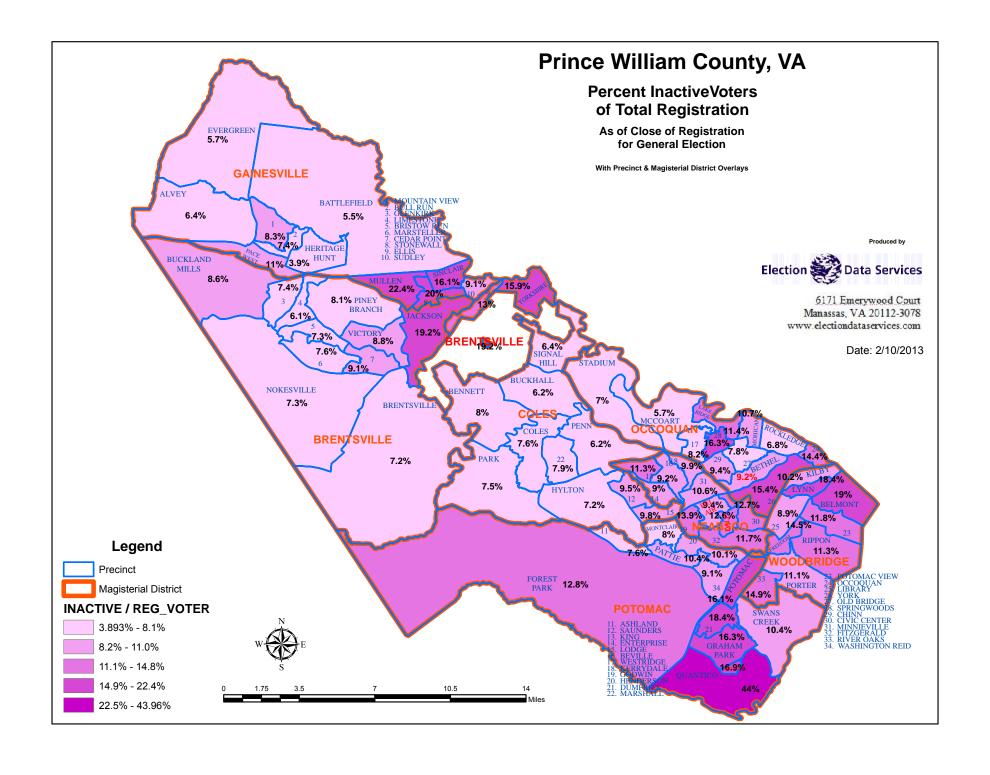










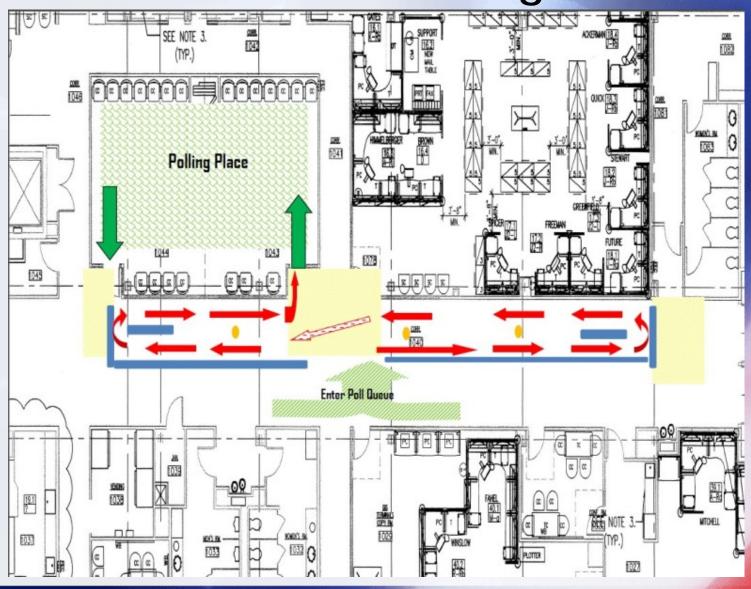


Election

Day

Activities

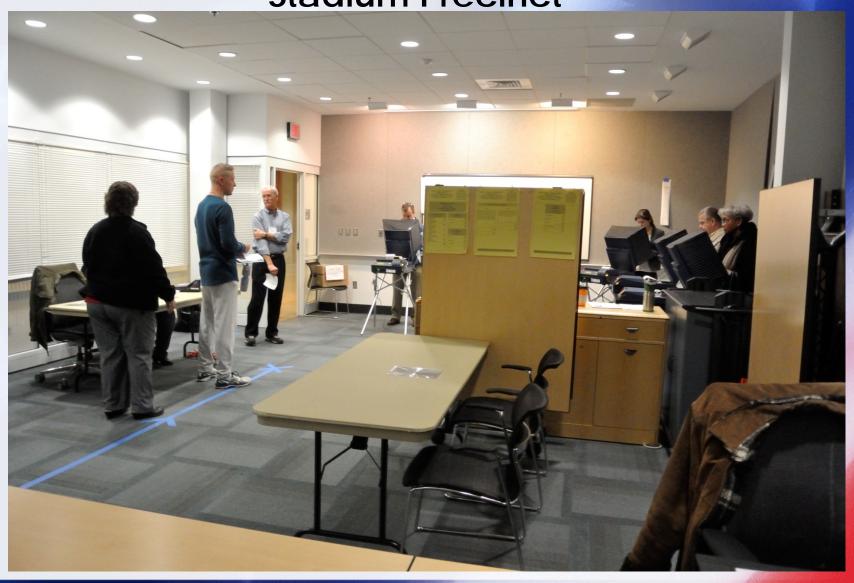
Stadium Precinct -- Planning



Election Day, Nov. 2012 (7:15am) Stadium Precinct

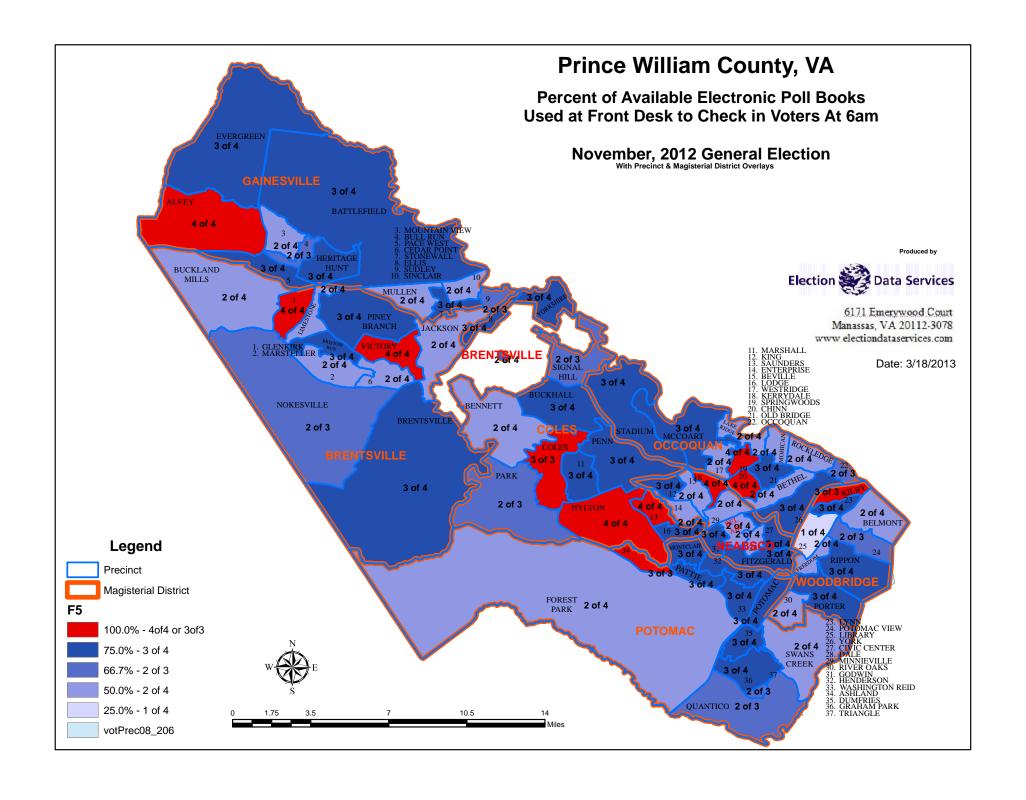


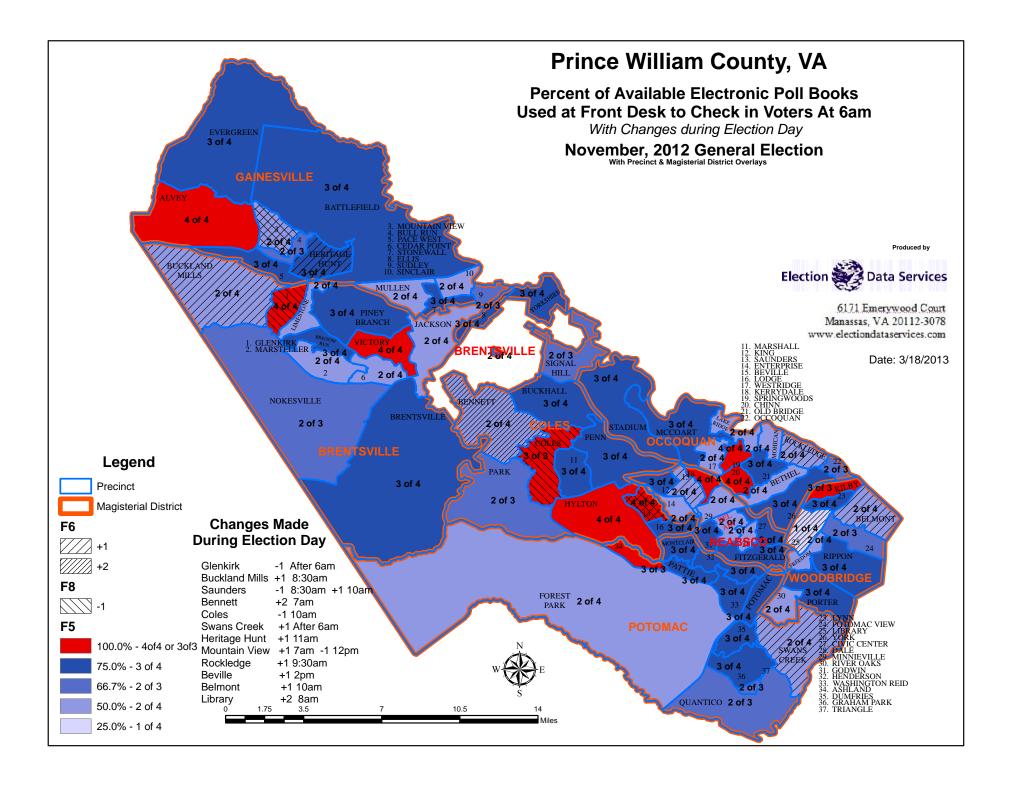
Election Day, Nov. 2012 (7:15am) Stadium Precinct

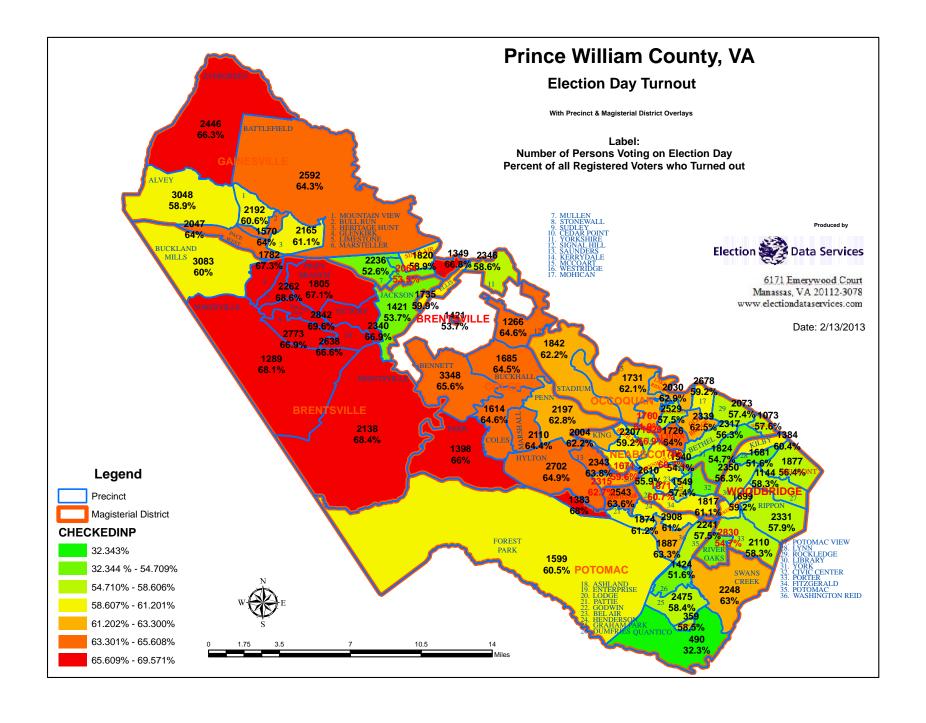


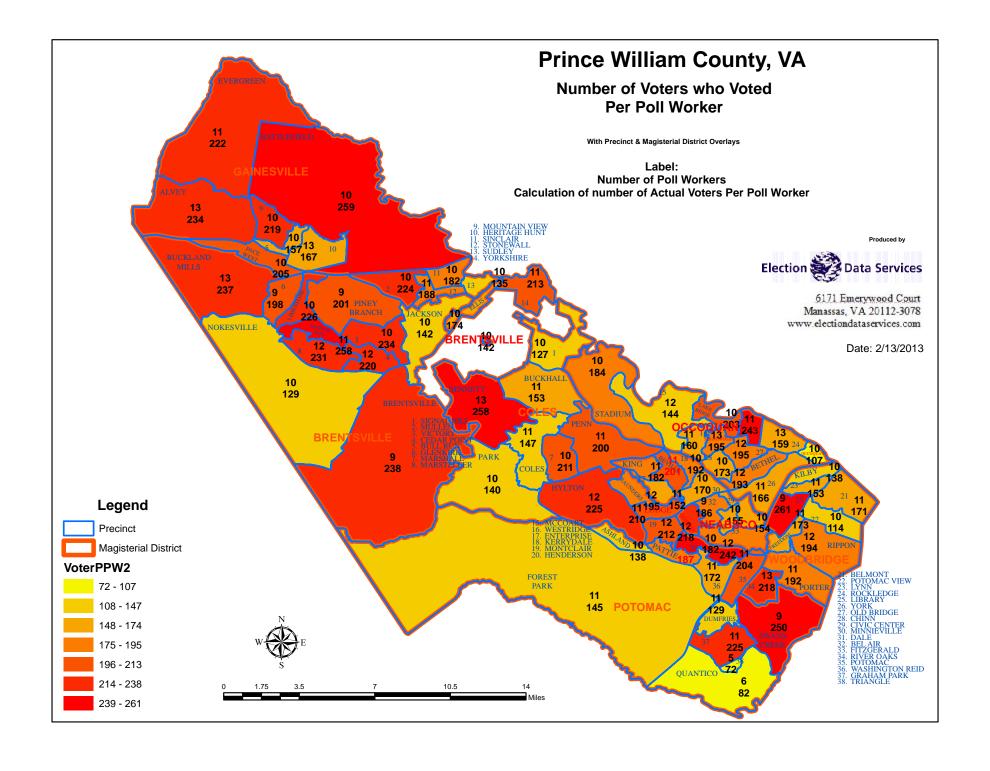
Election Day, Nov. 2012 (7:15am) Stadium Precinct

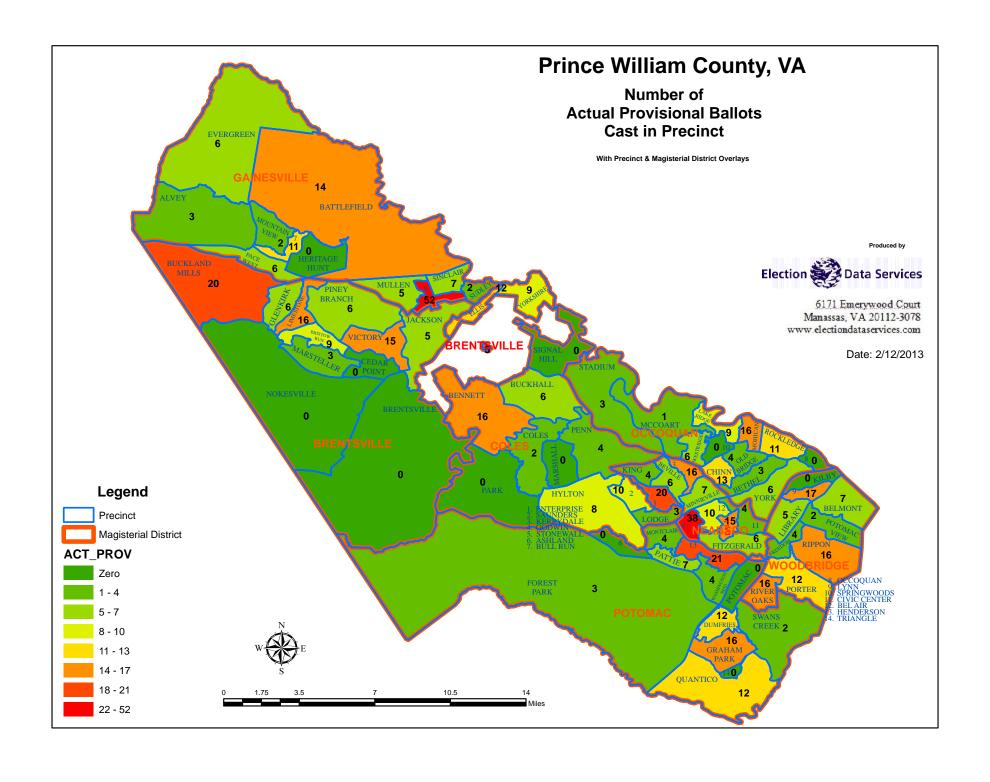


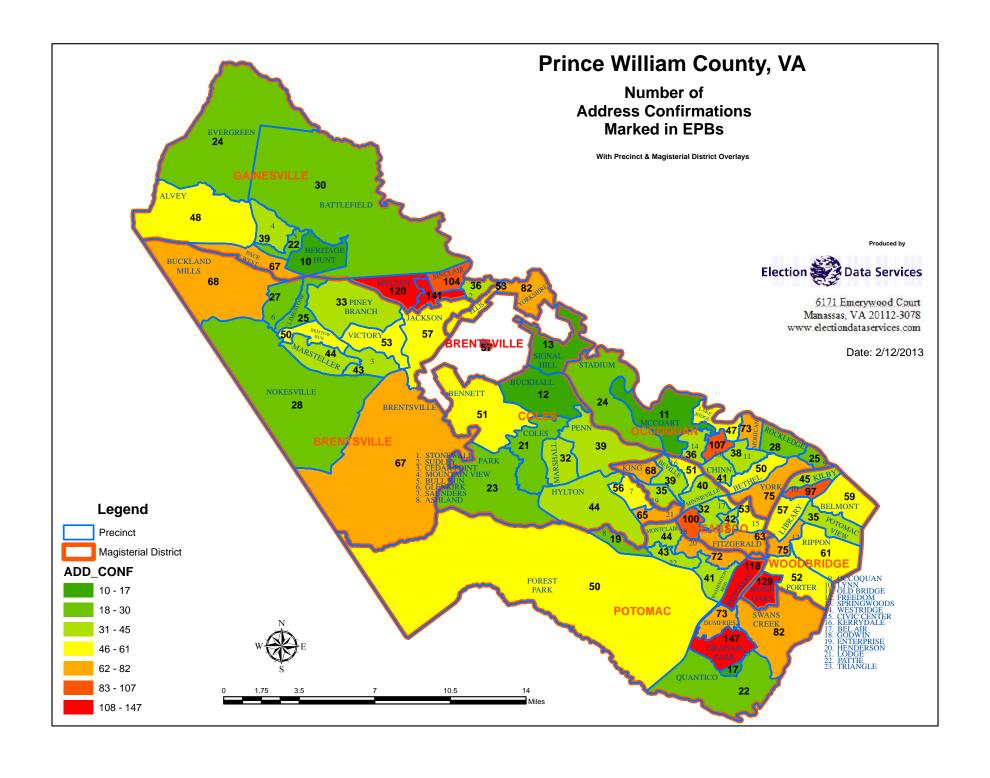












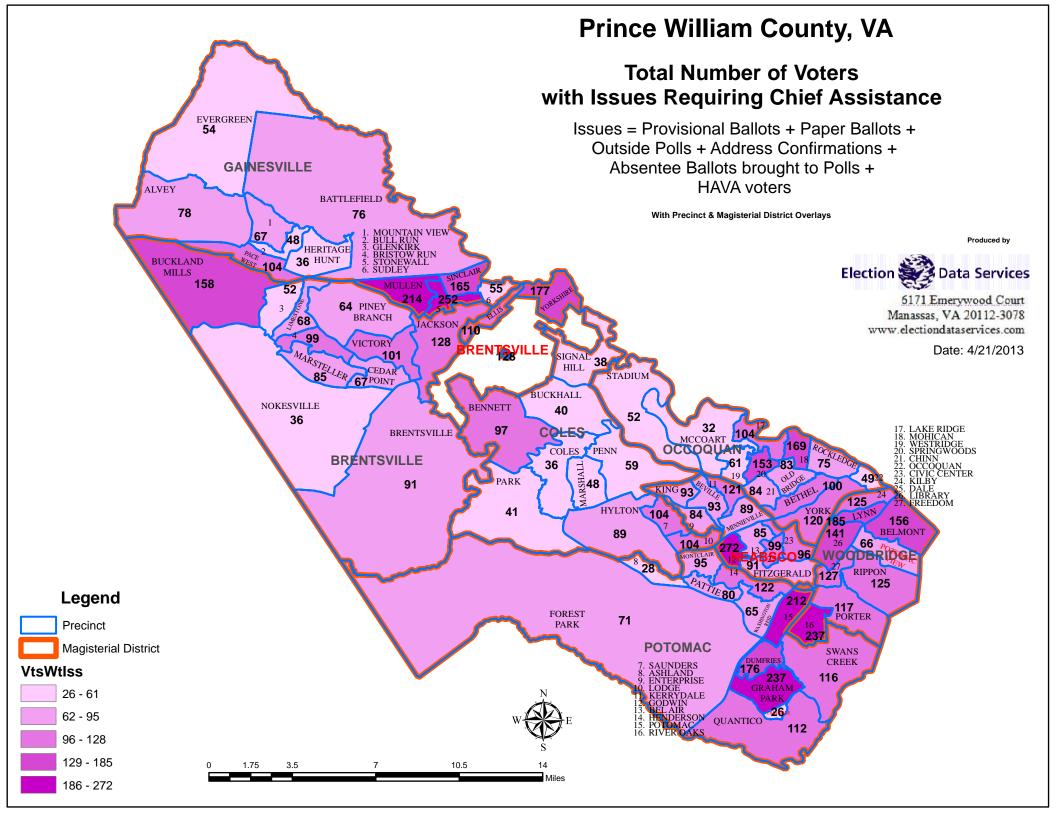
Culmination

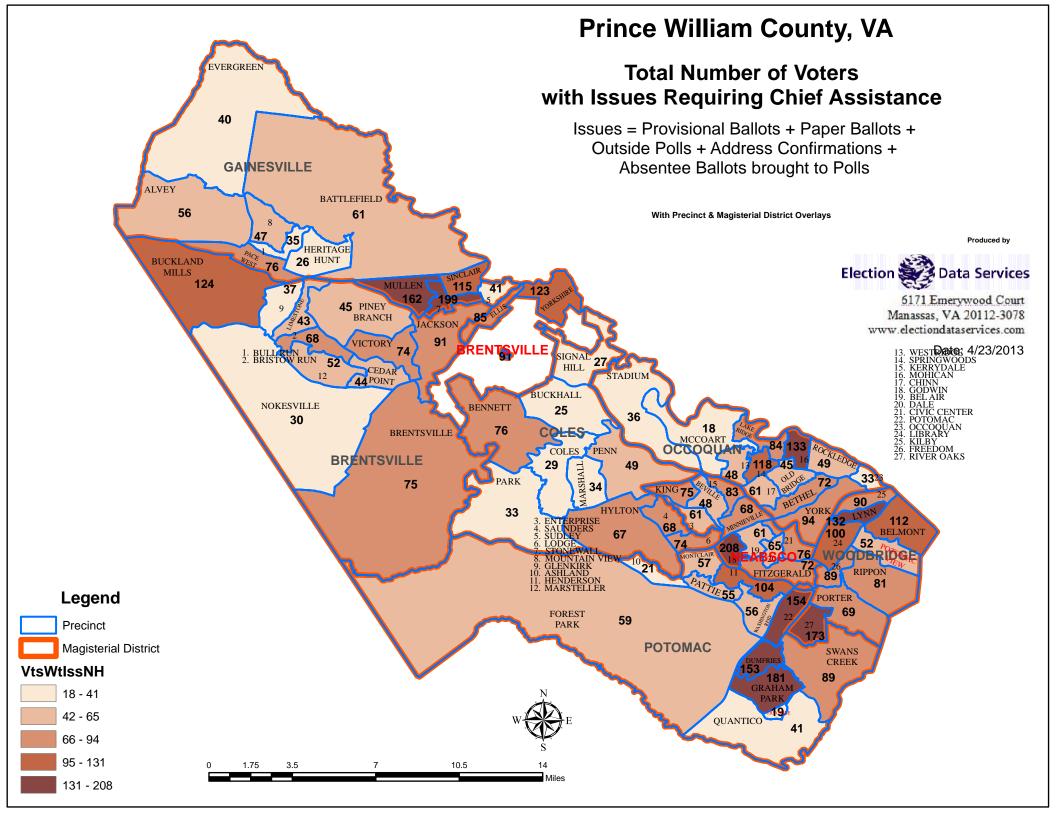
Of Voter Issues

Requiring

Chief Poll Worker

Assistance





Regression Calculation Between Number of Voters Voting After 7pm and Item below

Sorted by Variability Explained (R-Square)

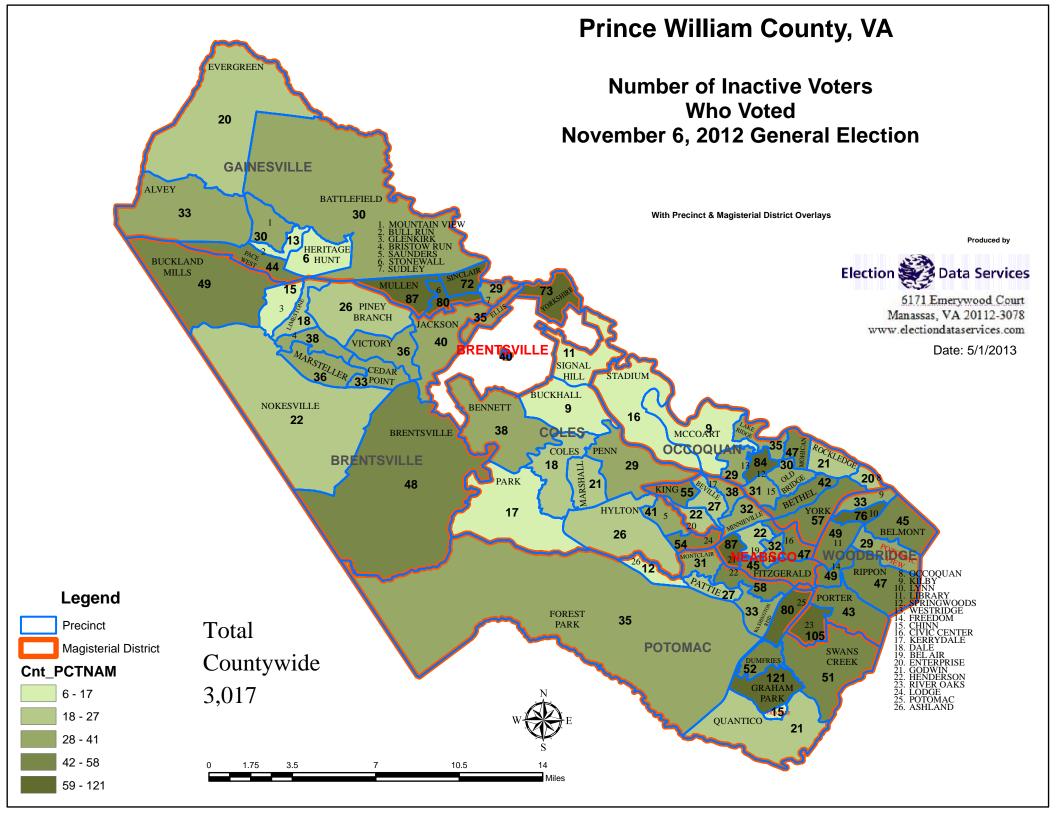
| Item | Coef. | P> t | R-Square |
|--|----------|-------|----------|
| Voters with Issues (including HAVA) | 1.68225 | 0.000 | 0.4312 |
| Voters with Issues (not HAVA) | 2.14443 | 0.000 | 0.4220 |
| Address Confirmations Marked | 2.97939 | 0.000 | 0.4078 |
| Number of Inactive Voters | 0.47777 | 0.000 | 0.3540 |
| Number of Voters Regis 6/1 - Oct Reg Close | 0.63290 | 0.000 | 0.3157 |
| Number of HAVA voters | 4.89384 | 0.000 | 0.2912 |
| Affirmations of Eligibility | 2.47094 | 0.000 | 0.2498 |
| Vote for Obama | 5.03900 | 0.000 | 0.2347 |
| Percent Non-Hisp White of VAP | -3.69949 | 0.000 | 0.2220 |
| Percent Total Minority of VAP | 3.69949 | 0.000 | 0.2220 |
| Number Checked in | 0.11457 | 0.000 | 0.2015 |
| Percent Non-Hisp Black of VAP | 5.54351 | 0.000 | 0.1862 |
| Checked in All Day per DRE | 0.60313 | 0.007 | 0.0929 |
| Percent Vacant Housing Units | 18.14089 | 0.007 | 0.0923 |
| Percent Hispanic of VAP | 3.87674 | 0.012 | 0.0821 |
| Checked in per hour | 0.82648 | 0.048 | 0.0511 |
| Percent Non-Hisp Asian of VAP | 8.66153 | 0.074 | 0.0420 |
| Checked in per hour per DRE | -1.40391 | 0.666 | 0.0025 |

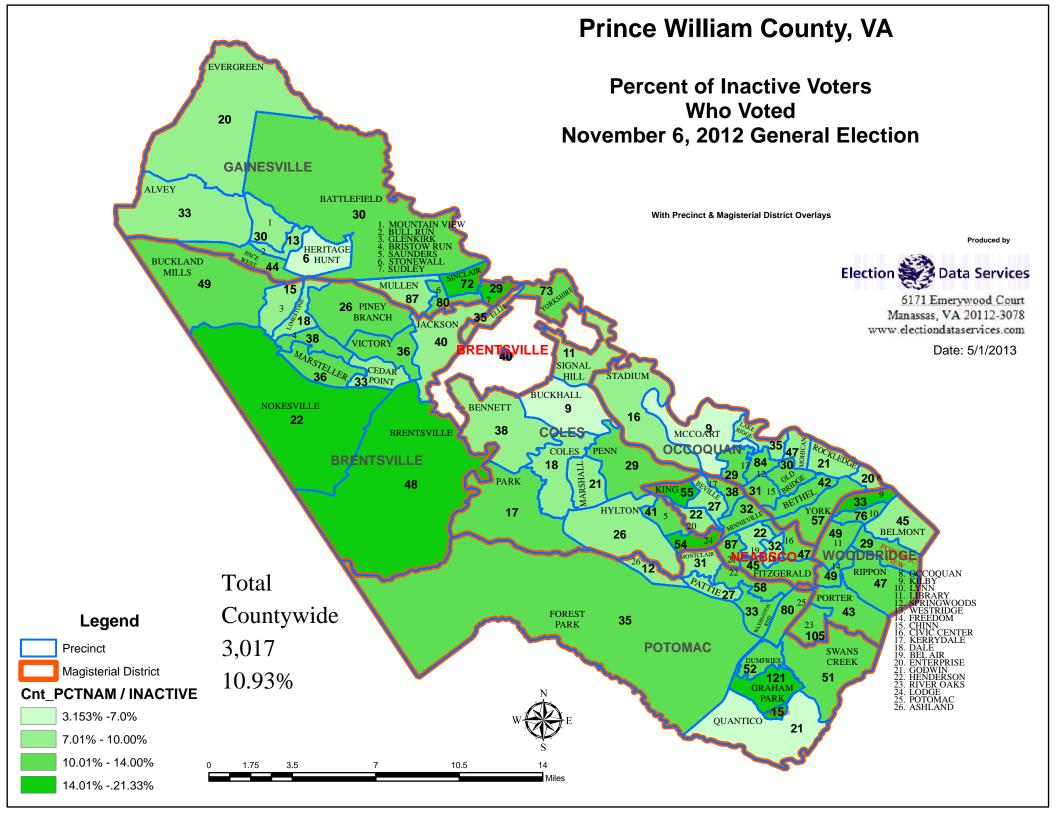
How Many

Inactive Voters

Voted

In Nov, 2012





Actual Election Results

COMMONWEALTH OF VIRGINIA OFFICIAL BALLOT County of Prince William

GENERAL AND SPECIAL ELECTIONS

Tuesday, November 6, 2012

| President and Vice Presider (Vote for not more than one) | nt | | Member United States Senate (Vote for not more than one) |
|---|----|--|--|
| REPUBLICAN PARTY Electors for Mitt Romney, President Paul Ryan, Vice President | 0 | | George F. Allen - R |
| DEMOCRATIC PARTY | _ | | Timothy M. Kaine - D |
| Barack Obama, President Joe Biden, Vice President | 0 | | Write-In |
| CONSTITUTION PARTY Electors for Virgil Goode, President Jim Clymer, Vice President | 0 | | Member House of Representatives 1st District |
| LIBERTARIAN PARTY Electors for | | | (Vote for not more than one) |
| Gary Johnson, President James P. Gray, Vice President | 0 | | Robert J. "Rob" Wittman - R |
| GREEN PARTY Electors for Jill Stein, President Cheri Honkala, Vice President | 0 | | Adam M. Cook - D |
| Write-In | 0 | | G. Gail Parker - IG |
| | | | Write-In |

PROPOSED CONSTITUTIONAL AMENDMENTS

| Question 1 |
|--|
| all Section 11 of Article I (Bill of Rights) |
| the Constitution of Virginia be amended |
| to require that eminent domain only be |
| ercised where the property taken or |
| maged is for public use and, except for |
| lities or the elimination of a public |
| isance, not where the primary use is for |
| vate gain, private benefit, private |
| terprise, increasing jobs, increasing tax |
| venue, or economic development; (ii) to |
| fine what is included in just compensation |
| such taking or damaging of property; |
| d (iii) to prohibit the taking or damaging |
| more private property than is necessary |
| the public use? |
| - |
| |
| |

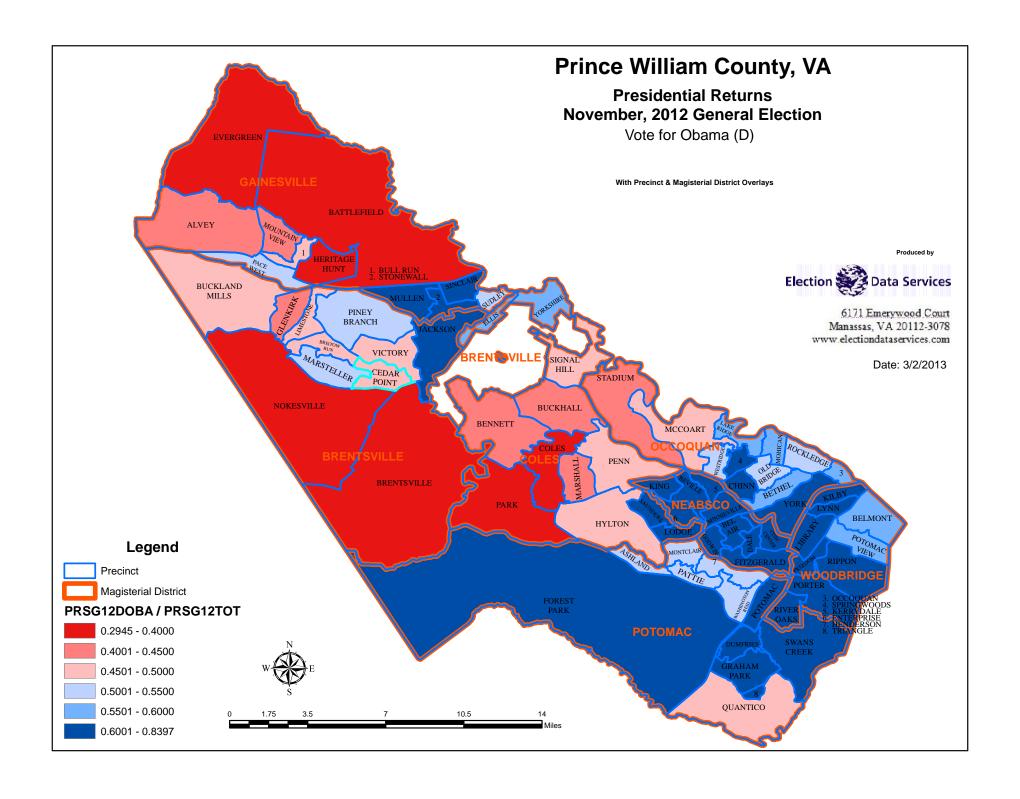
| Question 2 |
|--|
| Shall Section 6 of Article IV (Legislature) of |
| the Constitution of Virginia concerning |
| legislative sessions be amended to allow the |
| General Assembly to delay by no more than |
| one week the fixed starting date for the |
| reconvened or "veto" session when the |
| General Assembly meets after a session to |
| consider the bills returned to it by the |
| Governor with vetoes or amendments? |
| |
| |
| |
| |
| |
| |
| |

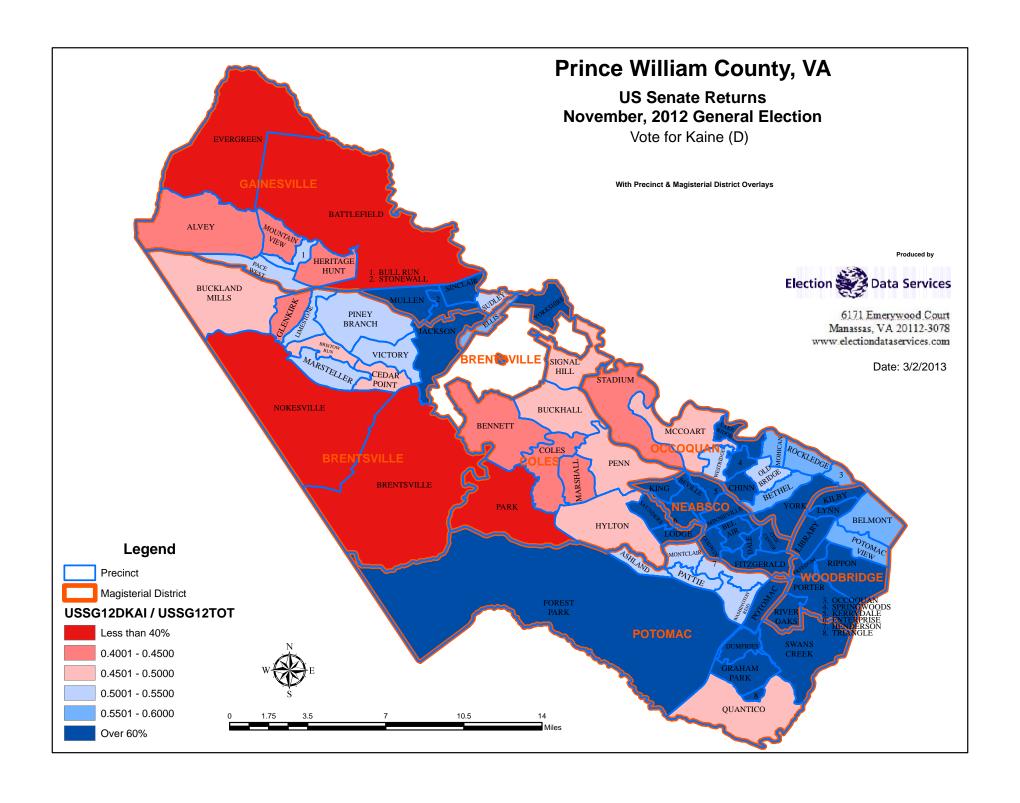
| No | 0 |
|----|---|
| | |

Yes

| Back | Next |
|------|------|
| | |

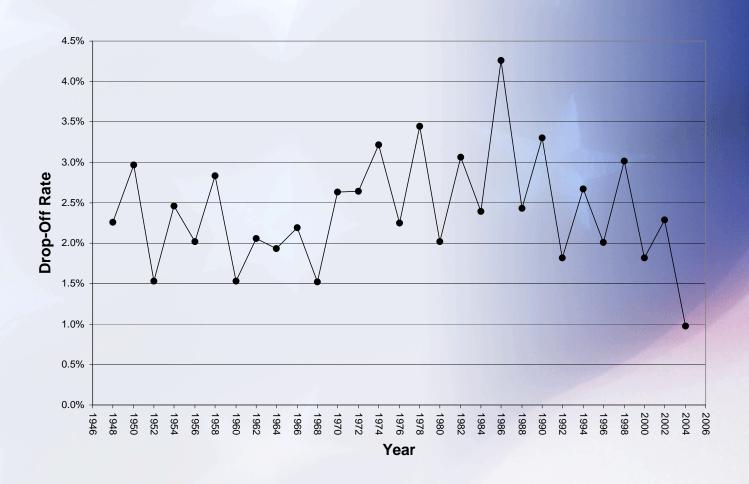
Yes

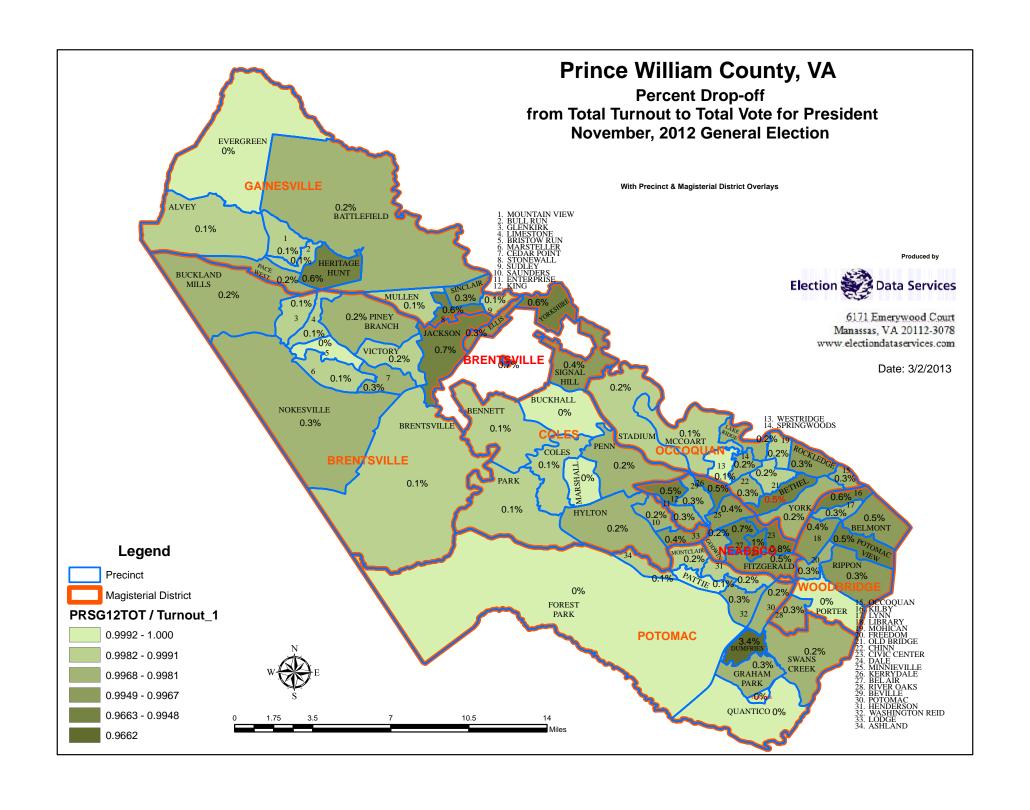


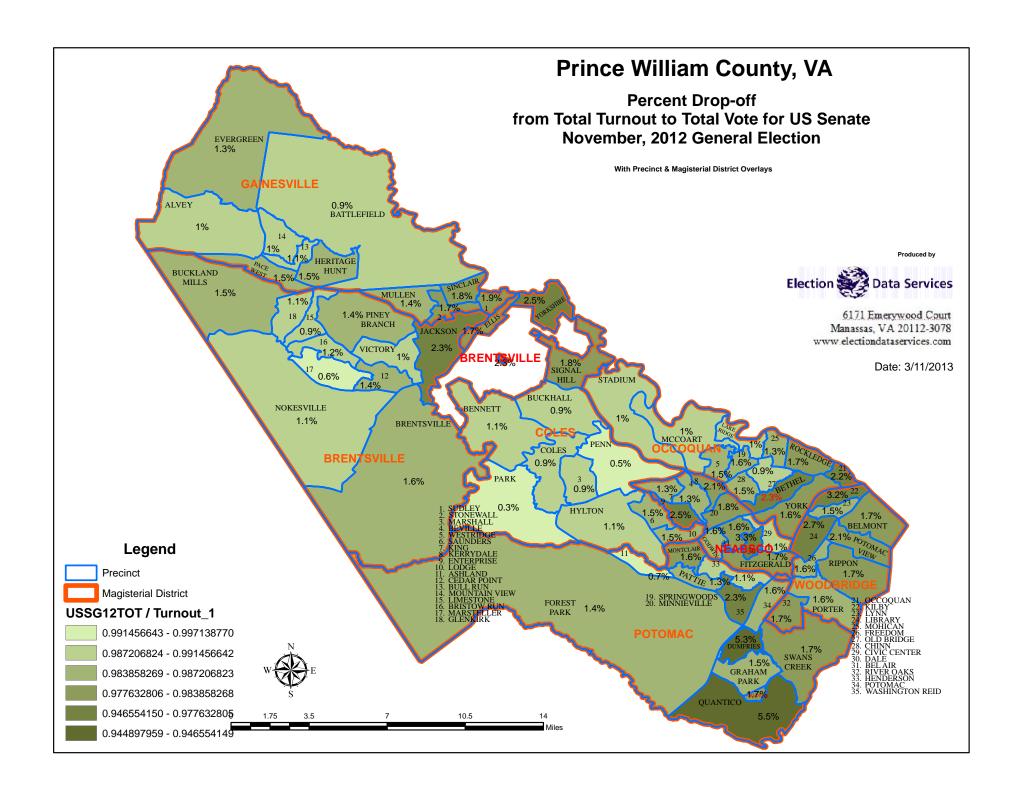


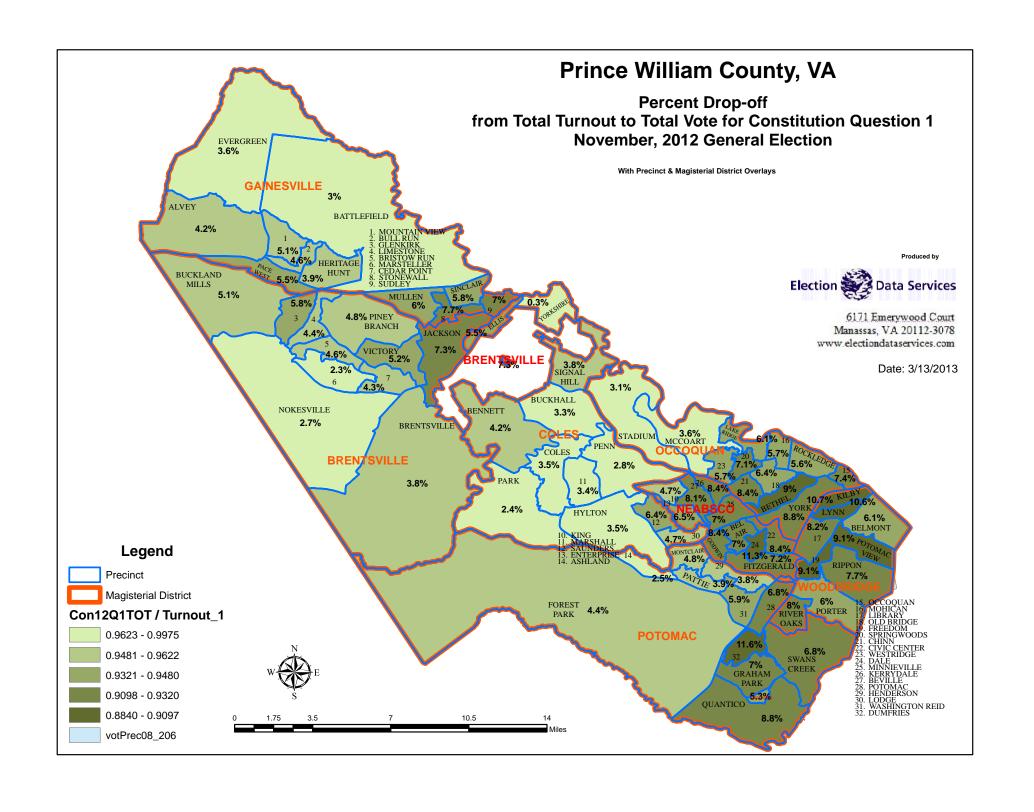
Drop - off (or Residual Votes)

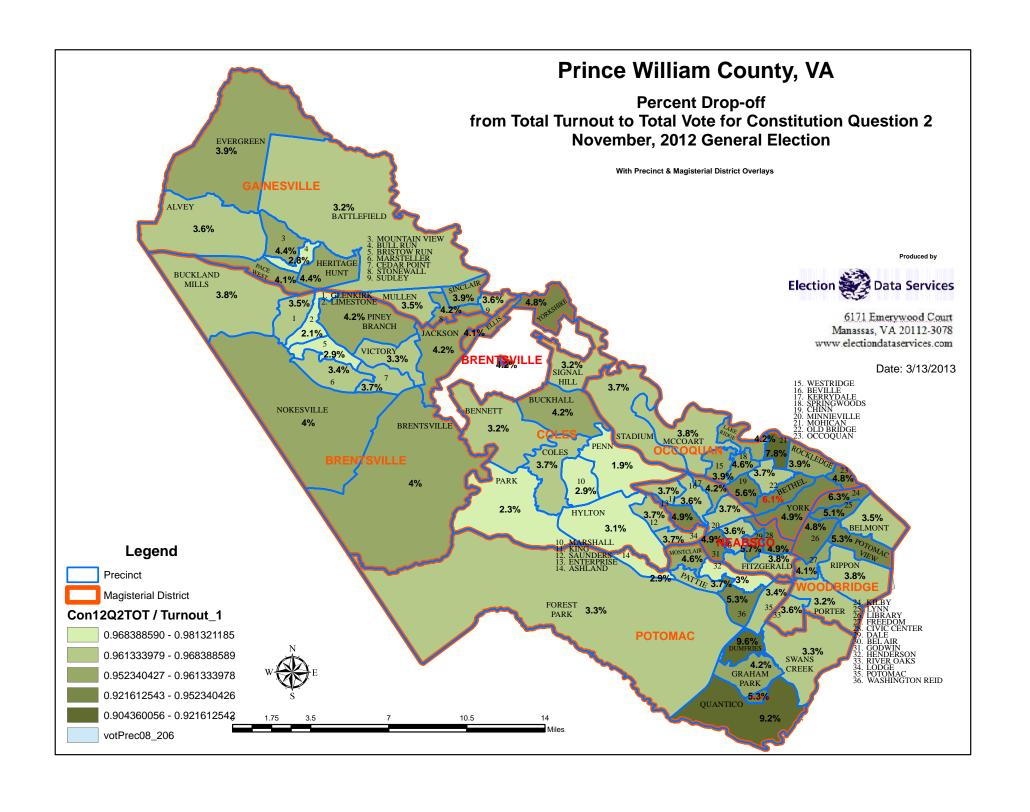
Since World War 2











Voting History

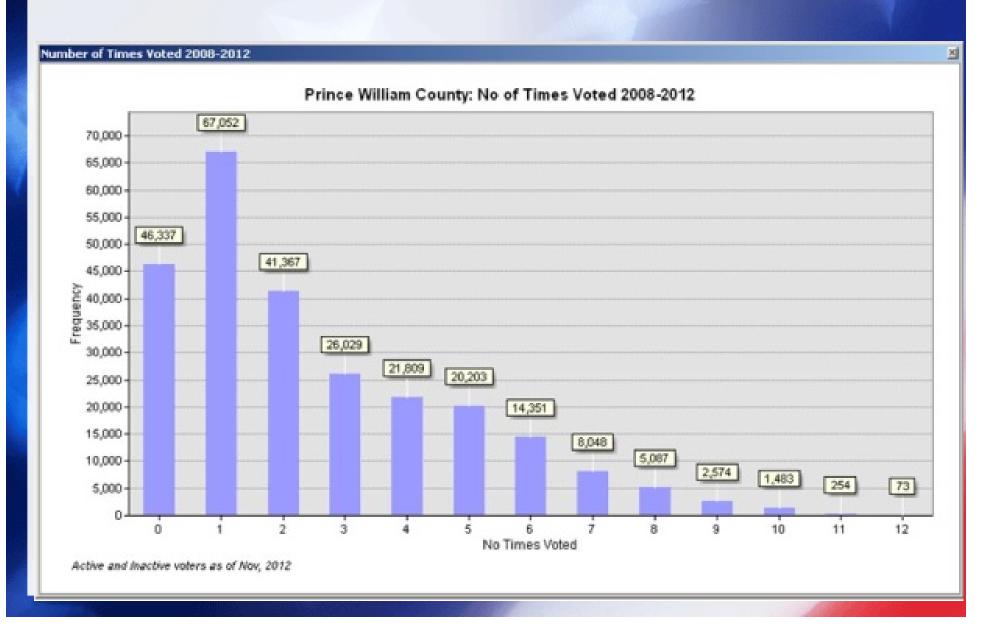
Of Current

Registered Voters

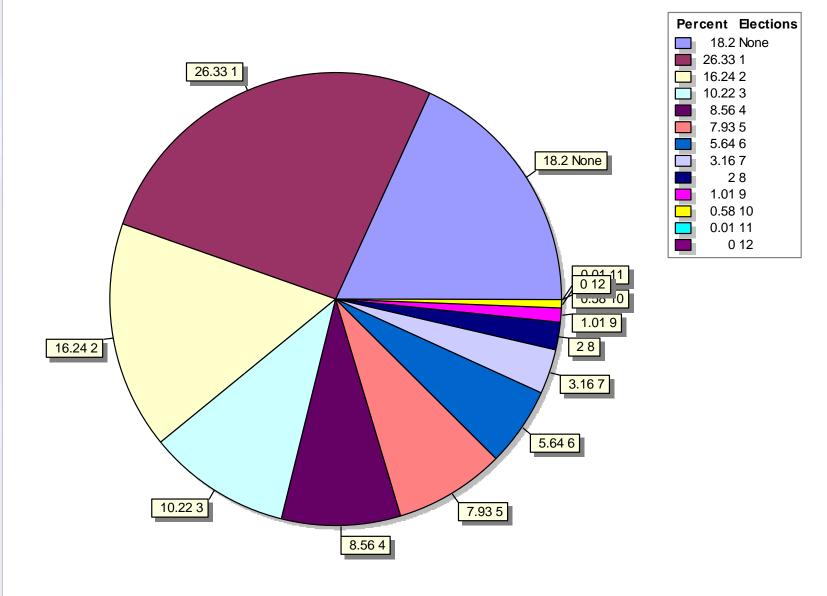
How Often have Current Registered Voters Voted, Back to 2008

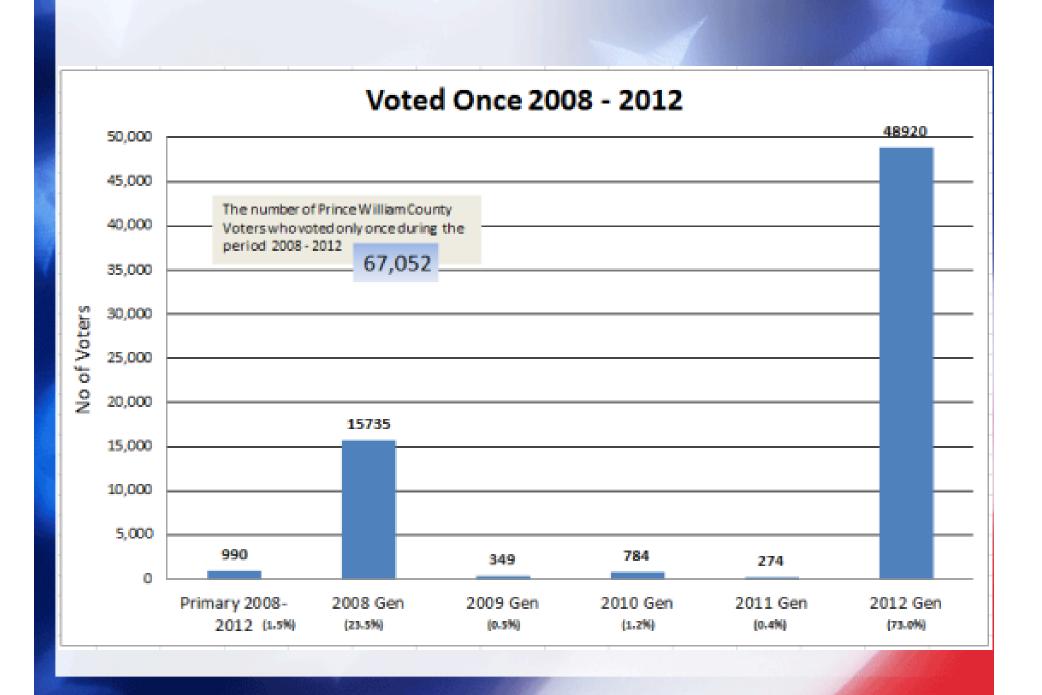
| 1 | FREQUENC | Election | YEAR | TYPE | PARTIS | TYPE | PRES | month | elecid |
|----|----------|---|------|----------|--------|------|------|-------|----------|
| 2 | 743 | 2008-May-Town Elections | 2008 | CityTown | N | E | | 05 | C0508EN |
| 3 | 39669 | 2008 February Democratic Presidential Primary | 2008 | Primary | D | E | P | 02 | P0208EDP |
| 4 | 17885 | 2008 February Republican Presidential Primary | 2008 | Primary | R | E | P | 02 | P0208ERP |
| 5 | 3796 | 2008 June Democratic Primary | 2008 | Primary | D | E | | 06 | P0608ED |
| 6 | 785 | 2008 June Republican Primary | 2008 | Primary | R | E | | 06 | P0608ER |
| 7 | 163233 | 2008 November General | 2008 | General | N | E | P | 11 | G1108ENP |
| 8 | 9766 | 2009 June Democratic Primary | 2009 | Primary | D | 0 | | 06 | P0609OD |
| 9 | 75200 | 2009 November General | 2009 | General | N | 0 | | 11 | G1109ON |
| 10 | 9130 | 2010 June Republican Primary | 2010 | Primary | R | E | | 06 | P0610ER |
| 11 | 1 | 2010 May City Elections | 2010 | CityTown | N | E | | 05 | C0510EN |
| 12 | 732 | 2010 May Town Elections | 2010 | CityTown | N | E | | 05 | C0510EN |
| 13 | 91354 | 2010 November General | 2010 | General | N | E | | 11 | G1110EN |
| 14 | 12874 | 2011 August Republican Primary | 2011 | Primary | R | 0 | | 08 | P0811OR |
| 15 | 100 | 2011 March Town of Haymarket Special Election | 2011 | CityTown | N | 0 | | 03 | C0311ON |
| 16 | 60073 | 2011 November General | 2011 | General | N | 0 | | 11 | G11110N |
| 17 | 9617 | 2012 June Republican Primary | 2012 | Primary | R | E | | 06 | P0612ER |
| 18 | 11454 | 2012 March Republican Presidential Primary | 2012 | Primary | R | E | P | 03 | P0312ERP |
| 19 | 891 | 2012 May Town General | 2012 | CityTown | N | E | | 05 | C0512EN |
| 20 | 181143 | 2012 November General | 2012 | General | N | E | Р | 11 | G1112ENP |

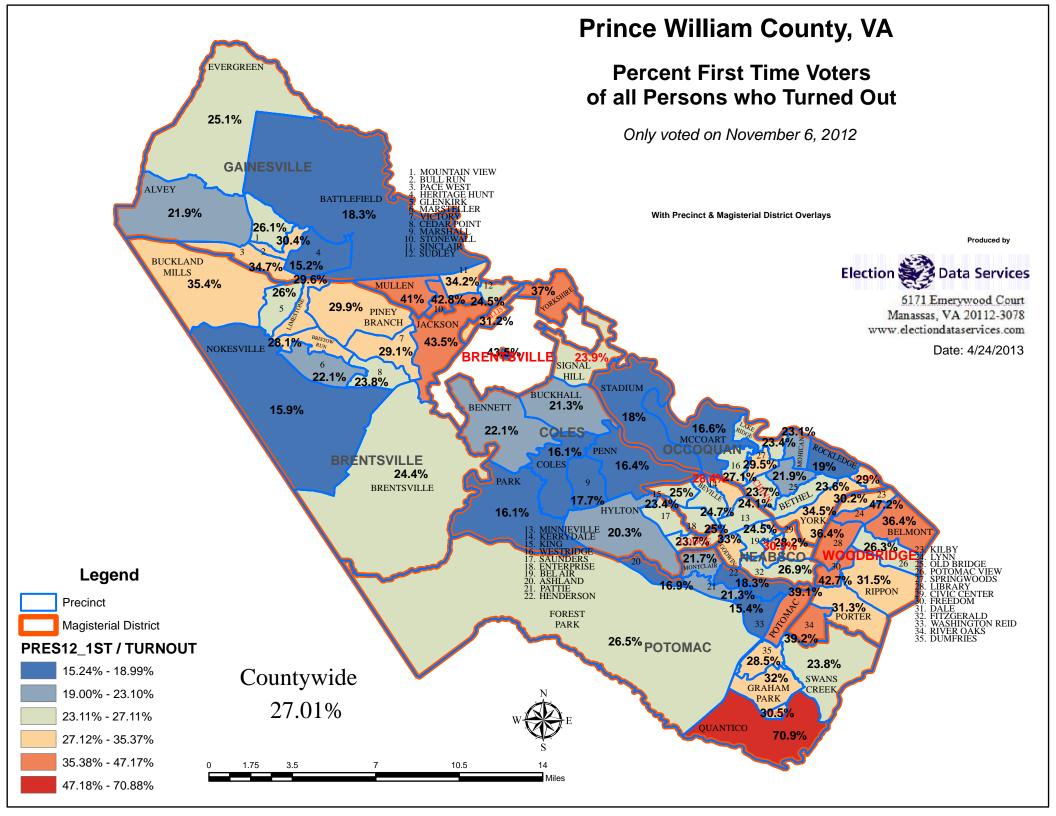
How Often have Current Registered Voters Voted, Back to 2008

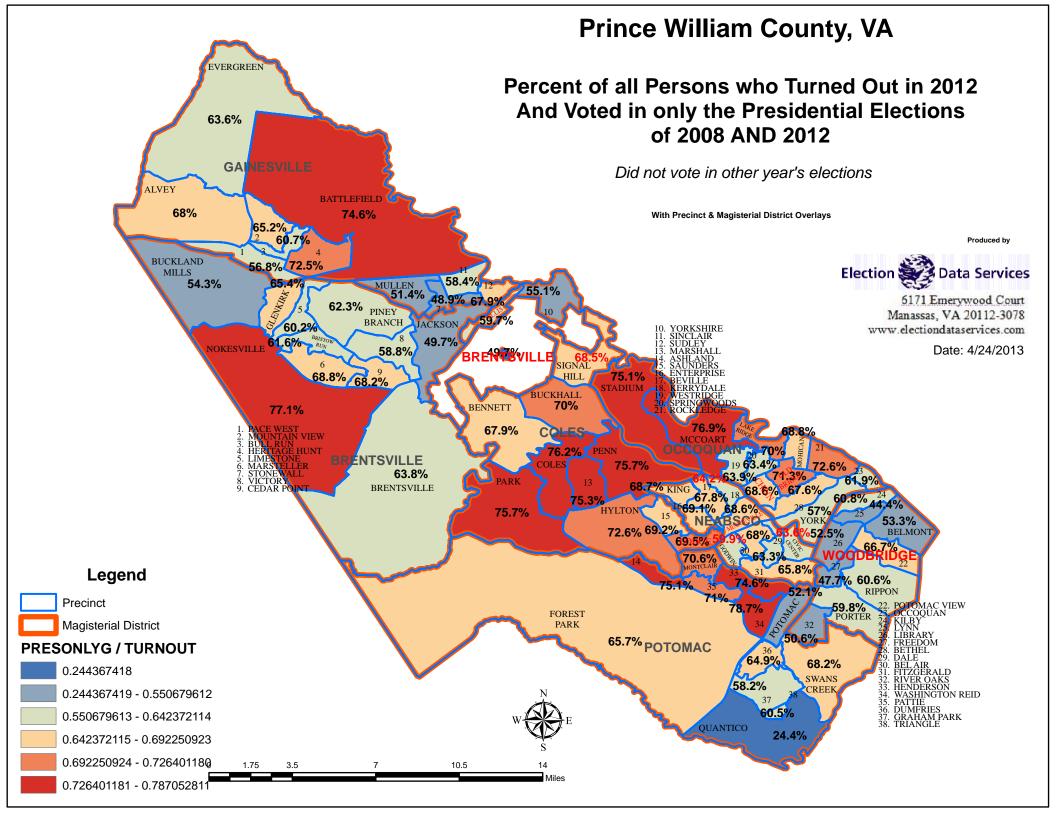


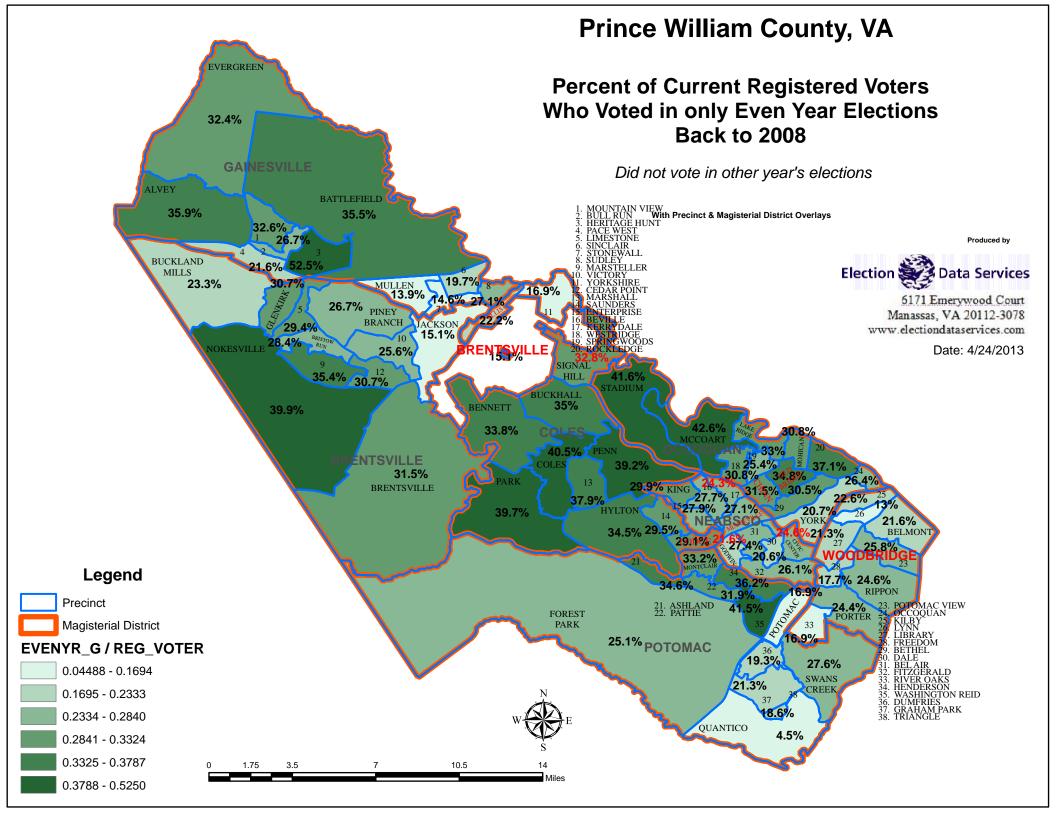
Number of Elections voted by Current Voters: 2008 - 2012

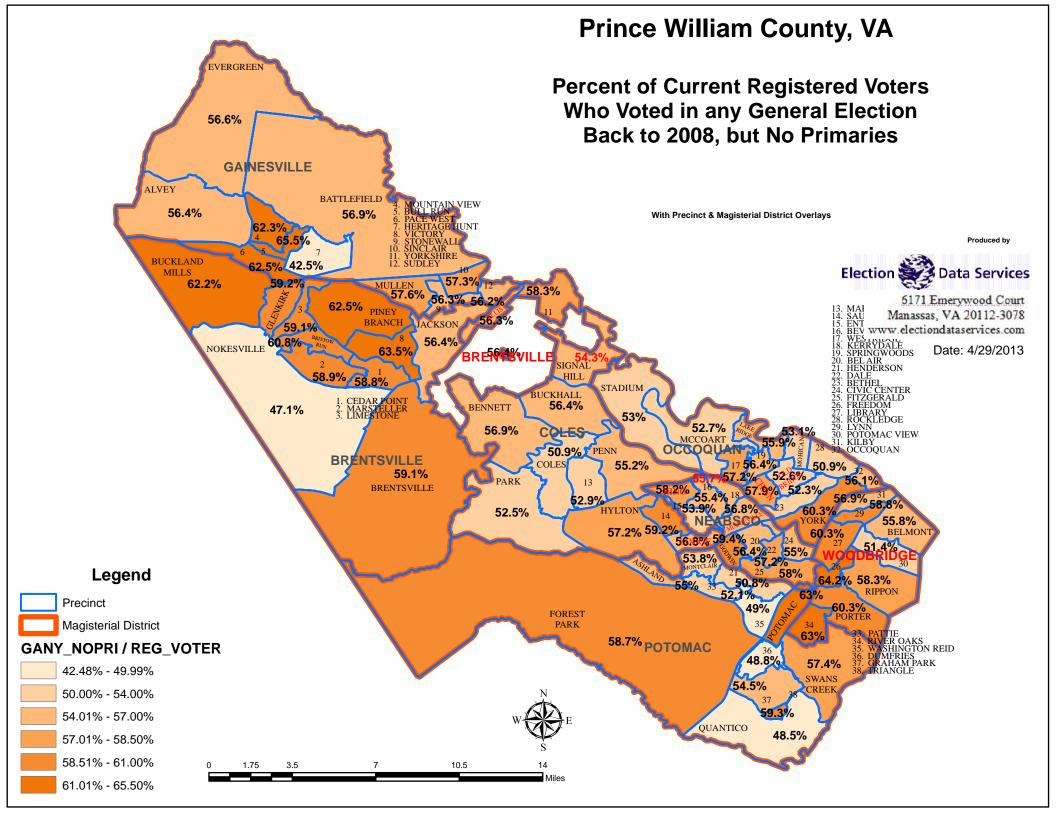








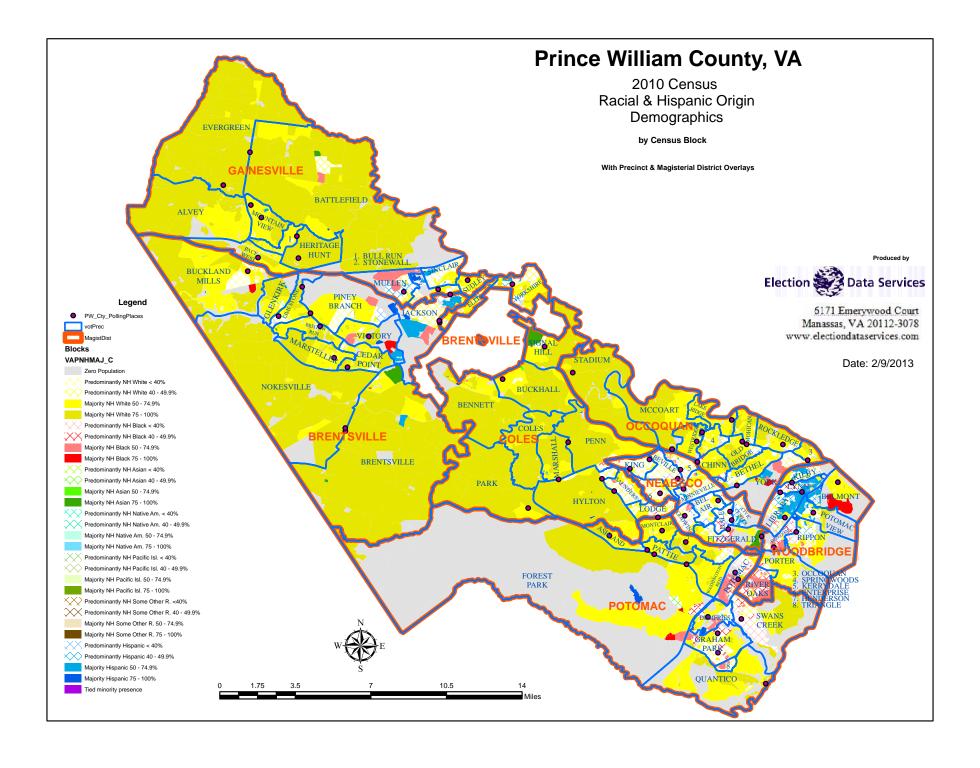


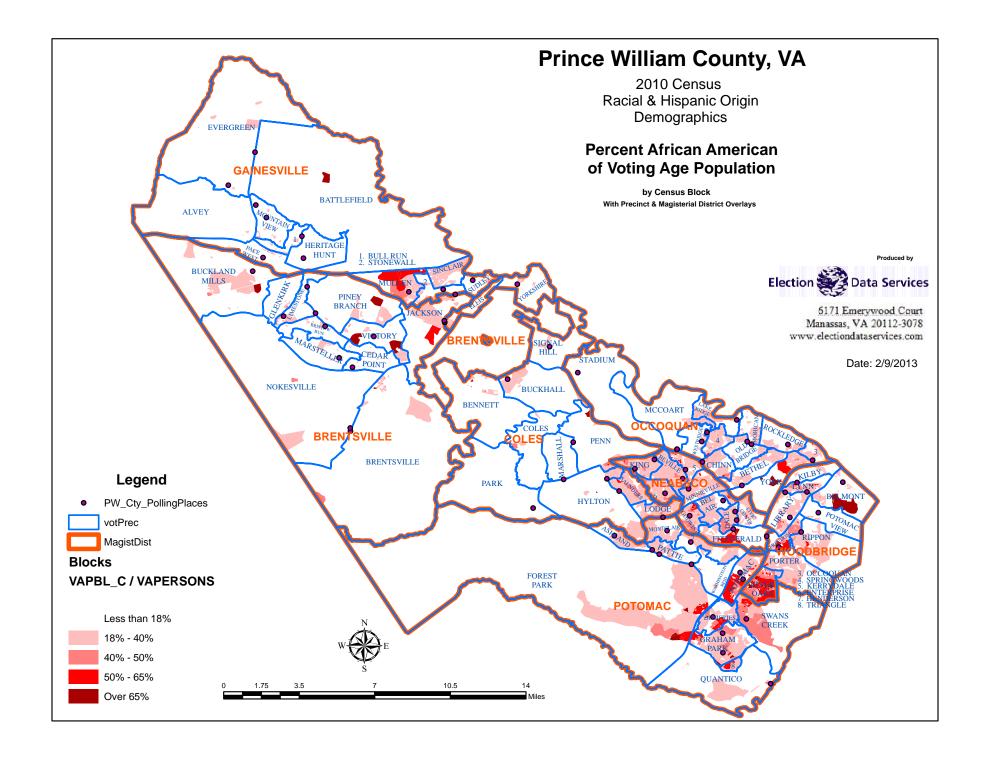


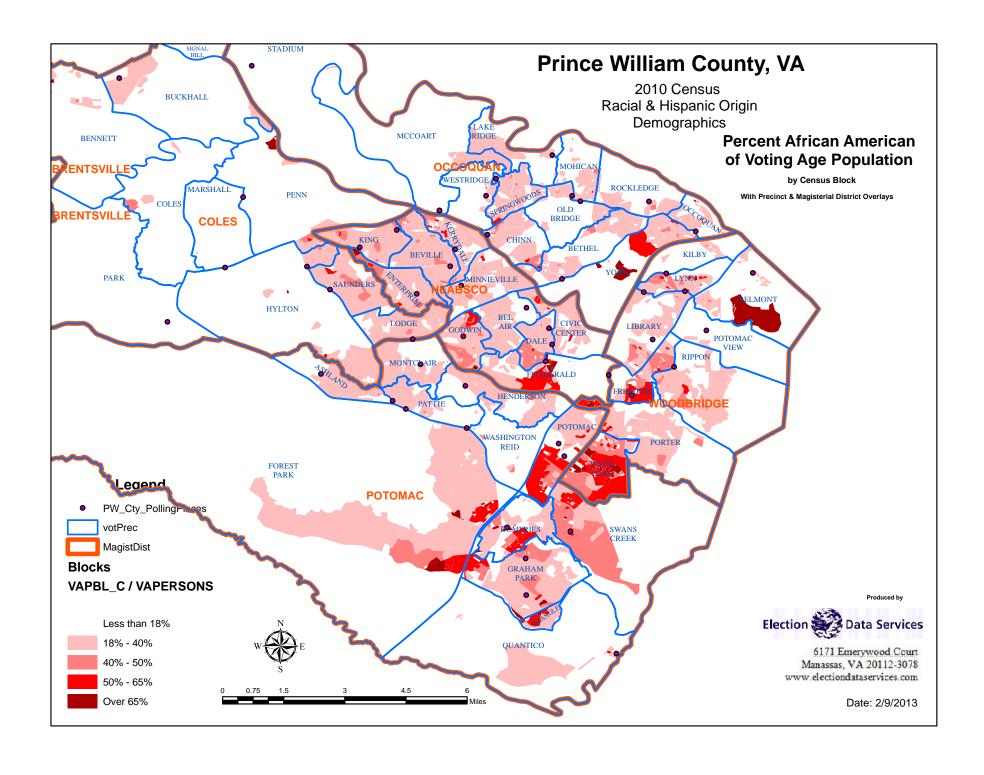
Demographics

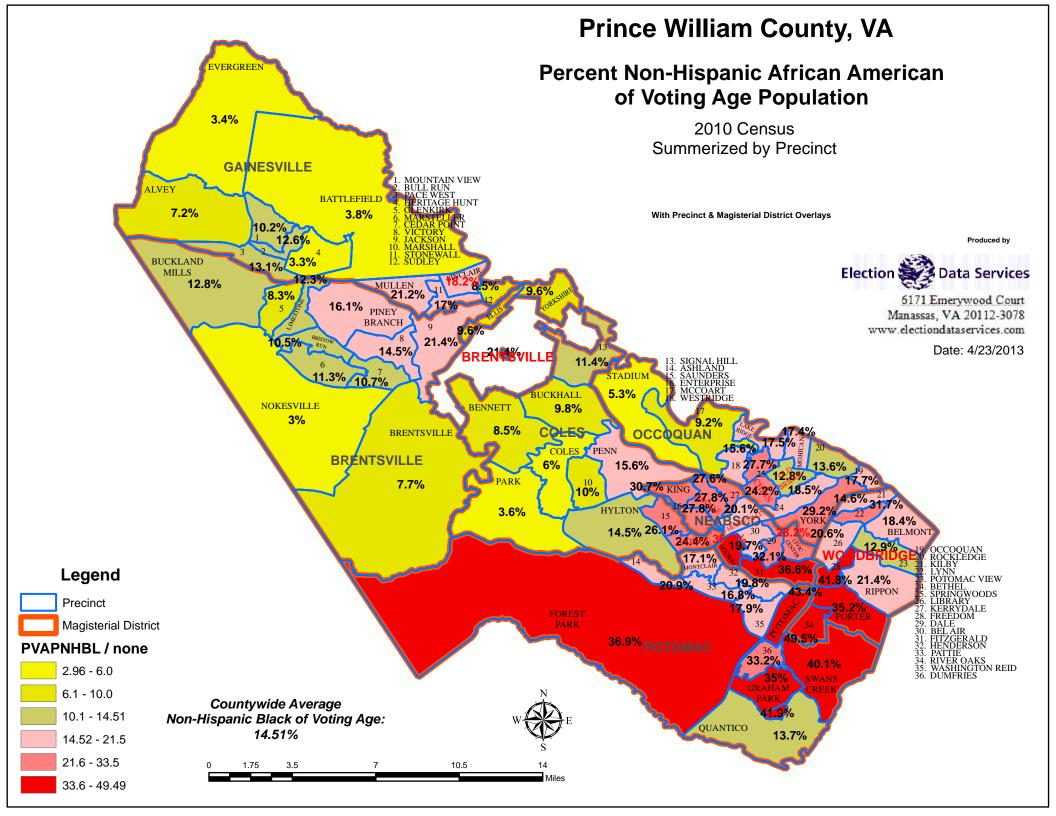
Also A

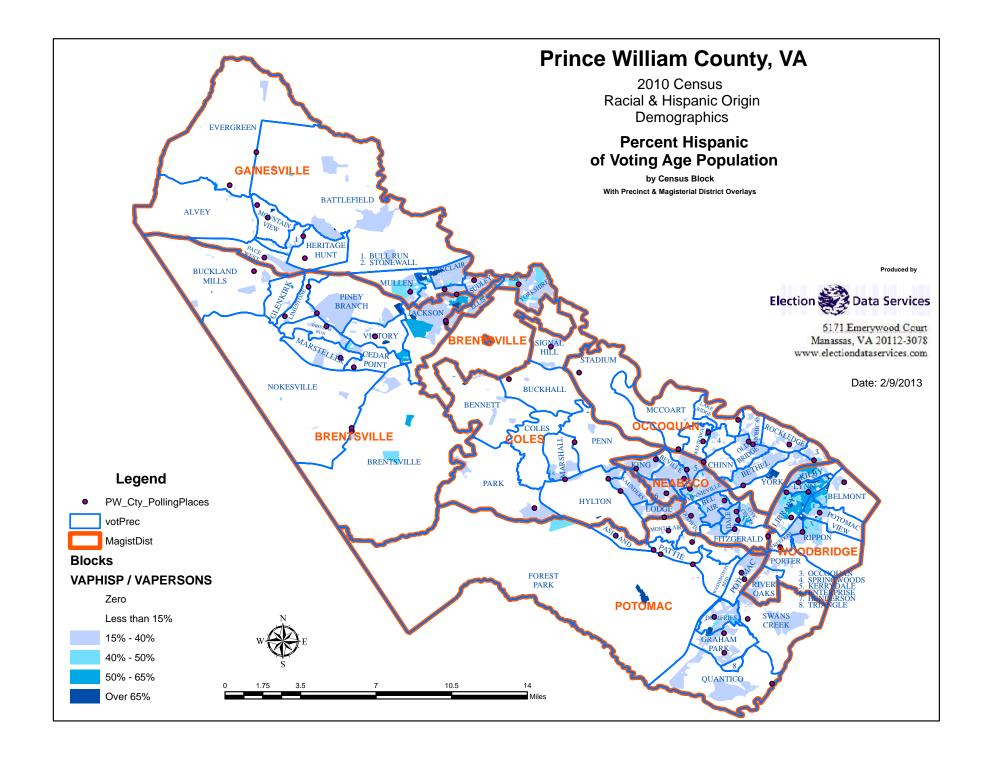
Factor

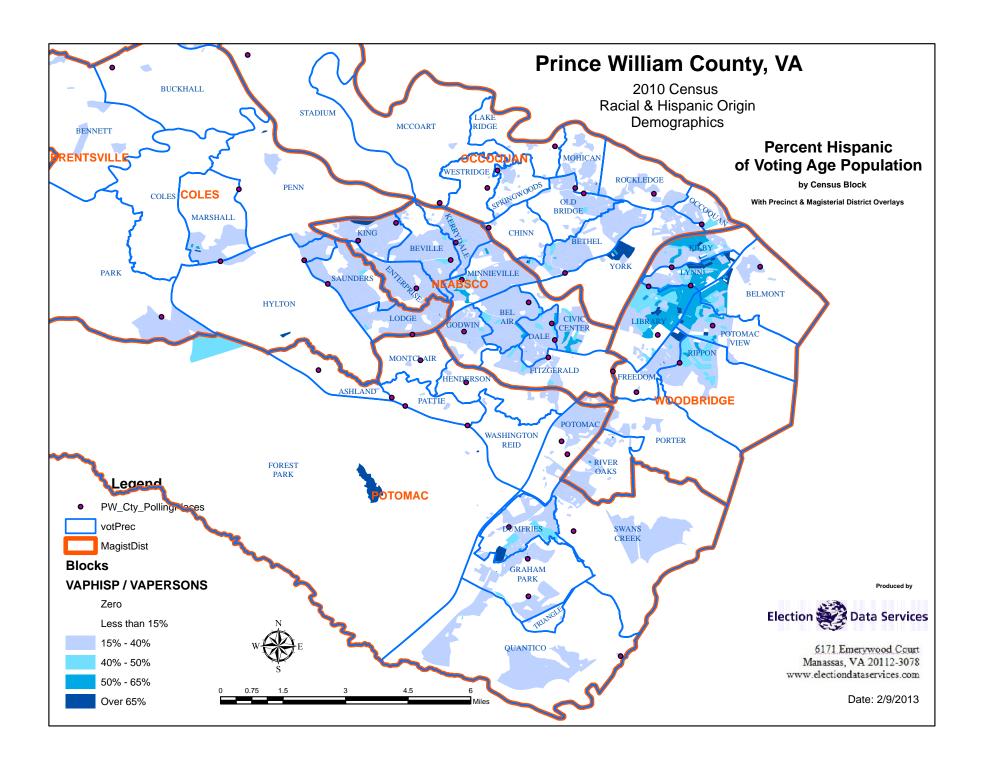


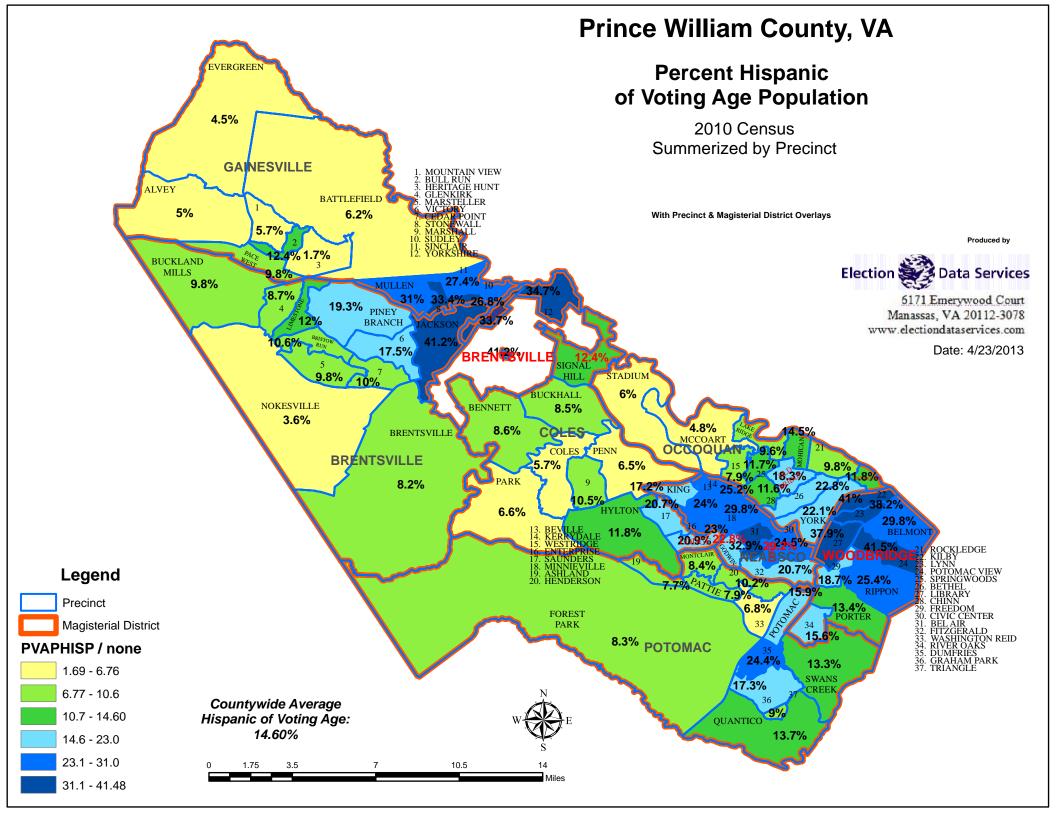


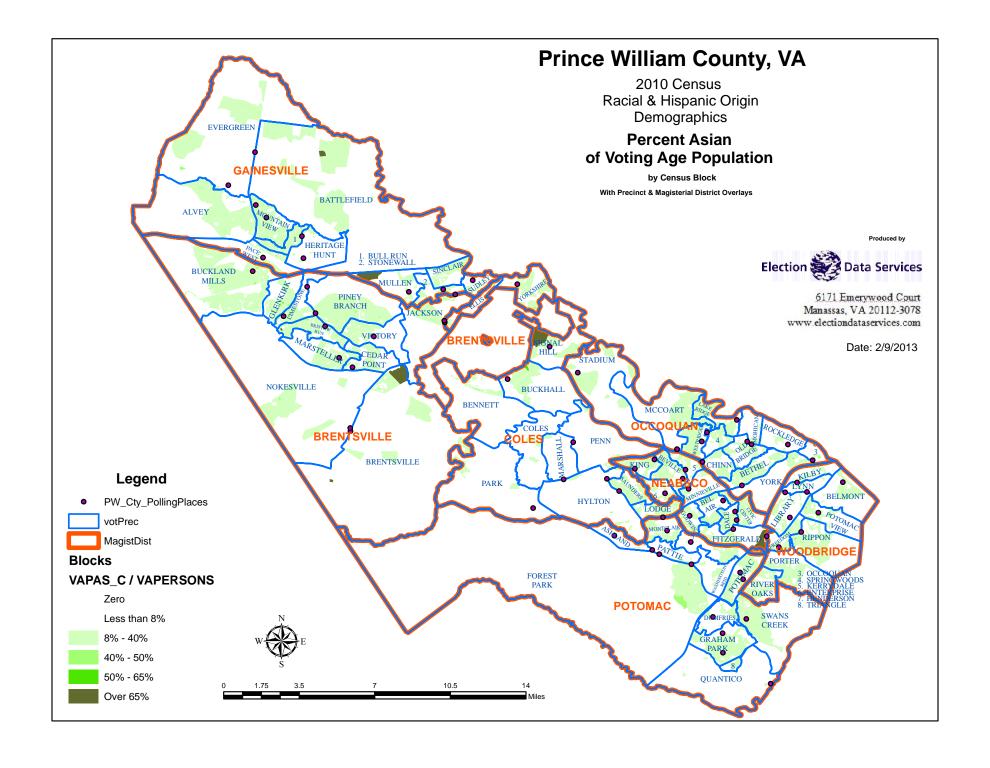


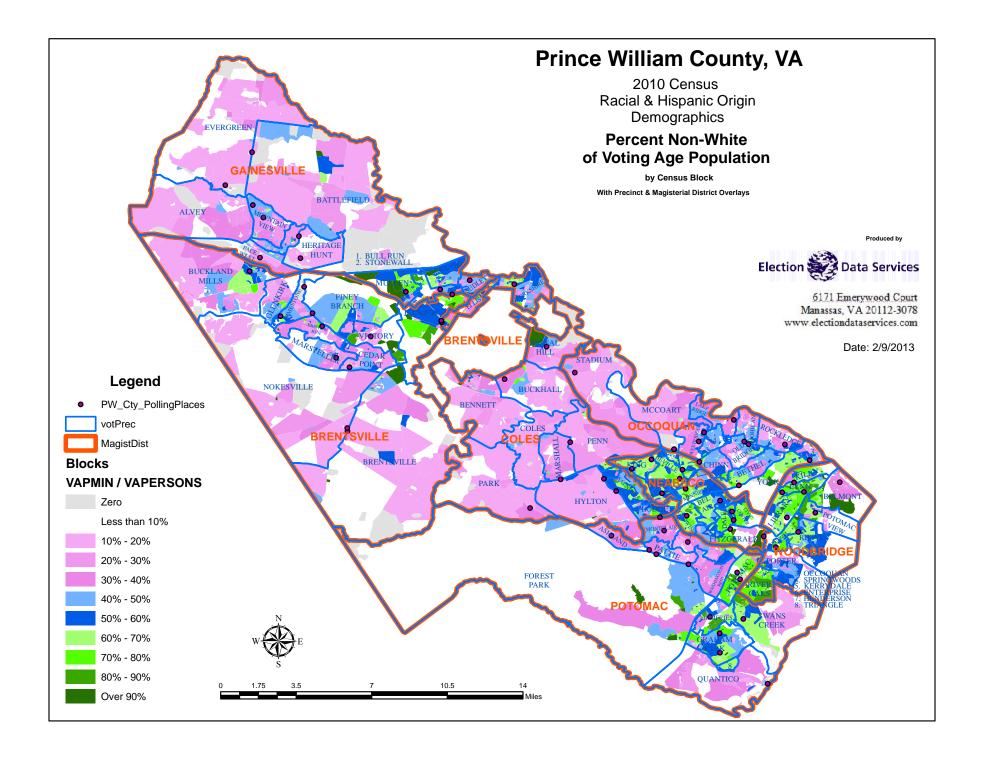


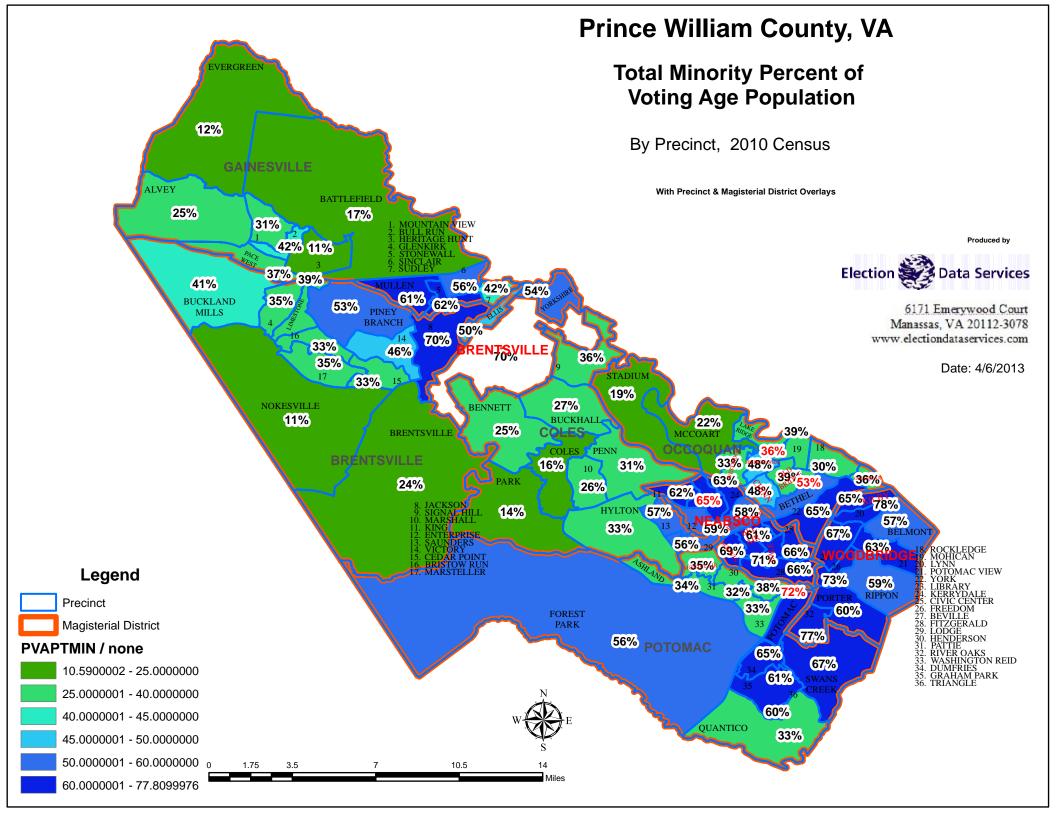


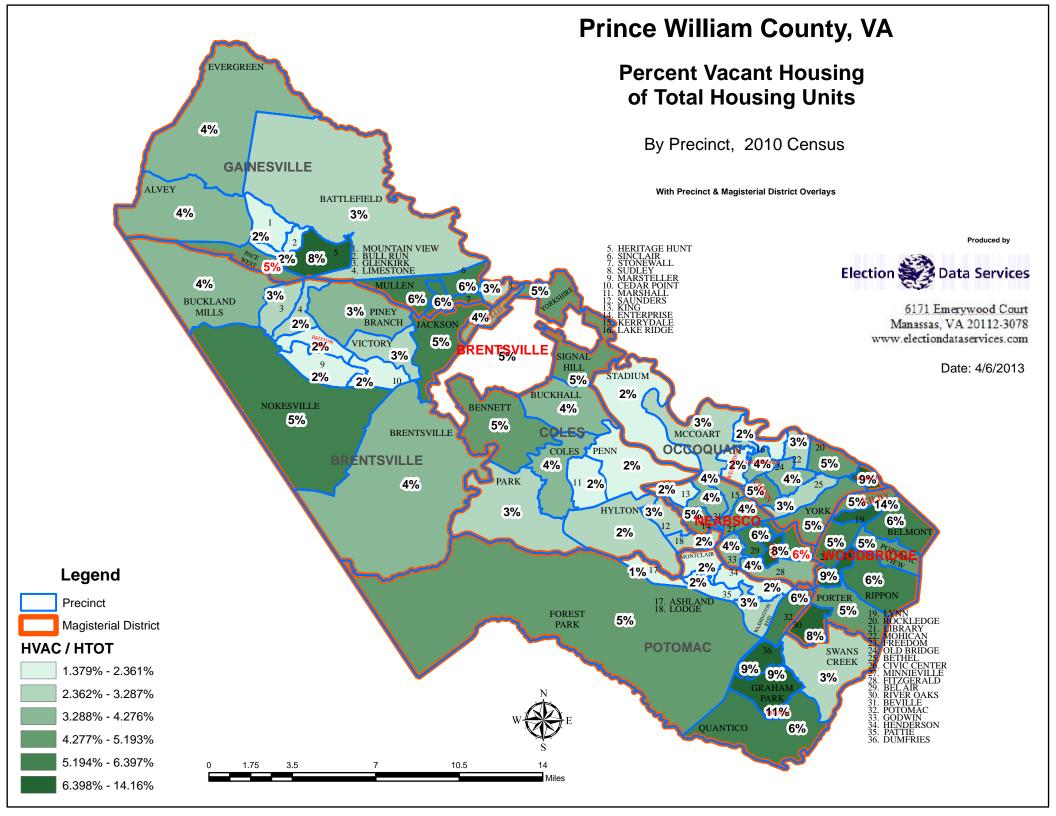








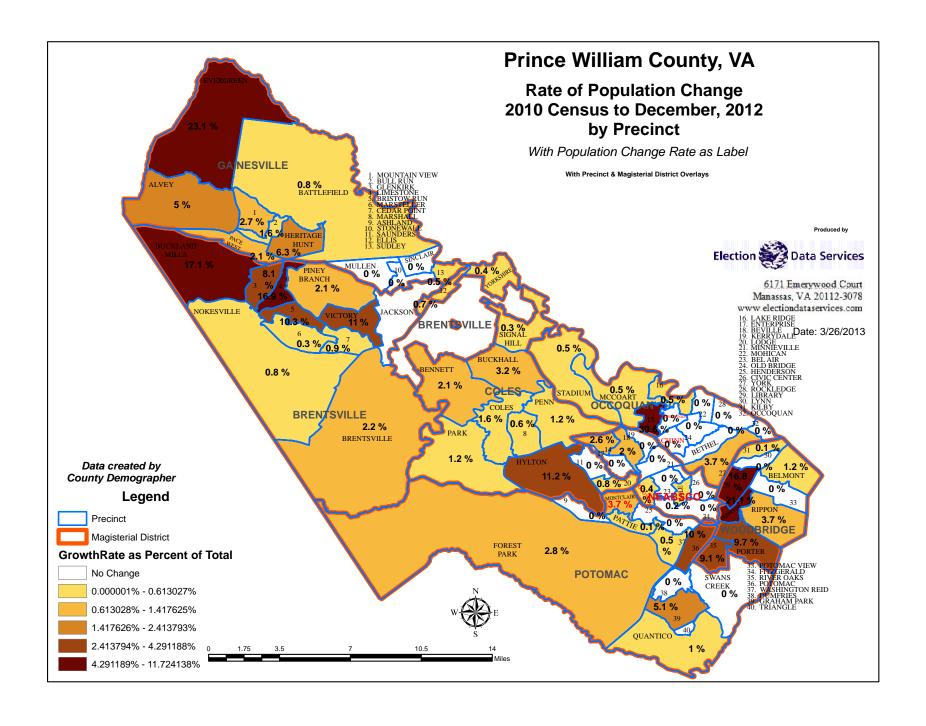




Population

Growth

2010 - 2012



Thank you



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