

COUNTY OF



ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

2018 General Election Experience Report

Contributors:

Gwen Abramovitz

John O'Brien

Ashley Smith

Kristin Perkoski

Larry Szurley

David Voye

JERRY TYSKIEWICZ, DIRECTOR

DEPARTMENT OF ADMINISTRATIVE SERVICES – DIVISION OF ELECTIONS
604 COUNTY OFFICE BUILDING • 542 FORBES AVENUE • PITTSBURGH, PA 15219
PHONE (412) 350-4500 • FAX (412) 350-5697 • WWW.ALLEGHENYCOUNTY.US

Overview

Of the 941,033 registered voters in Allegheny County, 545,082 (57.96%), cast their vote at this past November 6, 2018 General Election. This level of participation is higher than turnout levels in recent past elections of this type. In addition, an Allegheny County Home Rule Charter Amendment Referendum Question appeared on the ballot and local question appeared on the ballot in the Municipalities of Bethel Park, Monroeville and West Deer

A total of 27,000 absentee ballots were issued and 1418 provisional ballots were cast. Of the provisional ballots, 151 were fully counted, 585 partially counted and 682 were not counted. The majority of those not counted were due to the fact that the provisional voter was not a registered voter.

Over 185,000 “emergency” paper ballots were supplied to this County’s 1,322 polling places in the event that at least one-half of the voting machines in a precinct were non-functional. 165 emergency ballots were used in 9 voting districts. Some polling places opened late because the district election boards were unable to gain entrance to the building in time to begin voting at 7:00 a.m., and others because the district election boards had difficulty in printing a “zero tape”. In one district, the Judge of Election did not appear at the polling place, due to illness.

47 candidates appeared on the ballot and a total of over 75 distinct ballot configurations were created to accommodate the Federal and State office contests.

Accessibility

All 1,322 polling places in this County have now been classified as “accessible” pursuant to the standards promulgated by the Secretary of the Commonwealth of Pennsylvania.

Logic and Accuracy Testing

Extensive automated and manual Logic and Accuracy Testing (L&A) was performed. Automated L&A was performed on all 4,301 iVotronic voting machines deployed on Election Day. Manual L&A was also performed for each of the approximately 75 different ballot configurations. Those parties and organizations permitted by Pennsylvania law to be present during this process were duly notified.

A “test deck” comprised of over 15,000 ballots, containing different vote totals for each candidate, was used to verify that the 7 ES&S Model 650 high-speed ballot counters would accurately count the absentee, provisional and emergency optical scan paper ballots to be used at the Election. This test was conducted prior to the Election as well as before final certification of the election results. In both tests, the ballot scanners produced an accurate count. The required public notice of the pre-election test was given.

Firmware Verification

Allegheny County employed the services of “GRP Consulting Group, LLC” to verify that the software resident on the iVotronic voting devices contain the “trusted build” version certified by the Pennsylvania Department of State. As has been the case since 2008 that this process has been employed, no instance of uncertified software has been detected. Copies of the reports prepared for the November 6, 2018 General Election are attached below.

Network Security

Also following past practice, an independent third-party review was conducted both prior to and after the past General Election to assure that our election network was isolated and not connected to any external network. A copy of the report produced by “Foresite” is attached below.

Parallel Testing

Since the November 2006 Election, Allegheny County has employed a Certified Public Accounting firm to ensure that the functionality of the iVotronic voting machine devices have not been compromised. The parallel testing performed at the November 6, 2018 General Election demonstrated that the randomly-selected voting devices recorded and counted all votes completely and correctly. A copy of the report issued by Baker Tilly is attached below.

GRP Consulting Group, LLC
4915 Twin Lakes Rd
Suite 15
Boulder, Colorado 80301
tel: 303/249-0445



GRP Consulting Group, LLC

***ALLEGHENY COUNTY NOVEMBER 6, 2018
GENERAL ELECTION
ES&S iVOTRONICS
FIRMWARE VERIFICATION STUDY***

EXECUTIVE SUMMARY

Developed for:

***ALLEGHENY COUNTY
DIVISION OF ELECTIONS
STATE OF PENNSYLVANIA***

Document Number GCG-AC-iVo-FRPT-000239

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1. INTRODUCTION: ALLEGHENY COUNTY ES&S iVOTRONICS FIRMWARE VERIFICATION STUDY

The Allegheny County, Pennsylvania Division of Elections requested GRP Consulting Group to audit and verify the firmware source code on twenty (20) ES&S iVotronic DRE voting machines before conducting the November 6, 2018 General Election. The devices to be audited were randomly selected from the County's 4700 devices. The purpose was to verify that the samples have in residence on the U1 designated Electronic Erasable Programmable Read Only Memory (EEPROM) chip, the firmware version 9.1.4.1, and all applied firmware versions are accurate and true to the State of Pennsylvania's Trusted Build, as held in escrow by the Secretary of State's Office in Harrisburg. The study was accomplished by applying the *'Allegheny County iVotronic Firmware Verification Protocol'* and was performed on location at the Allegheny County Division of Elections warehouse, located at 901 Pennsylvania Ave., Pittsburgh, Pennsylvania. GRP Consulting Group and Allegheny County staff performed this firmware audit on September 18, 2018.

It is the finding of GRP Consulting Group that the firmware verification audit applied to the resident code on the sample population was found to be unaltered versions of the 9.1.4.1 firmware.

1.1 Approach

1.1.1 Study's Focus

The focus of the exercise was:

1. Implementation of a fair and statically correct random selection process.
2. Deploy the verification protocol, known as the *'Allegheny County iVotronic Firmware Verification Protocol'*, to verify on twenty (20) randomly chosen ES&S iVotronics DRE voting devices that they hold in residence on the U1 designated EEPROM chip, the exact, true and unaltered version of the 9.1.4.1 certified firmware source code, as held in escrow at the Secretary of State's office.

1.1.2 Study's Concentration

The GRP Consulting Group analyst was tasked to independently apply a repeatable and validated verification protocol to verify that the ES&S firmware version 9.1.4.1 that resides in escrow by the Secretary of State's office and is resident on the Allegheny County iVotronic Direct-Recording Entry (DRE) – touch screen voting devices – are exact, true and unaltered versions of the certified firmware source code.

1.1.3 Study's Phases

GRP Consulting Group organized the project primary phases, each incorporating the flexibility to accommodate additional requirements, as they may have become known. The general strategy employed was comprised of the following aspects:

1. Setup, configure and control the verification environment and the parameters associated with each verification cycle;
2. Apply the SHA256 algorithm to verify that before the November 6, 2018 General Election, the 9.1.4.1 firmware on the iVotronic DREs is the true and certified version of the firmware and has not been altered;
3. Execute twenty (20) verification cycles;
4. Conduct reviews and analyses of all verification results and anomalies obtained during the twenty (20) verification execution cycles;
5. Advise the County on possible root cause(s) of any and all anomalies; and
6. Prepare and deliver a report of the verification activities, the results of all verification executions, and conclusions and recommendations in Executive Summary and Final Report formats.

2. FINDINGS

GRP Consulting Group was engaged by the Allegheny Division of Elections on site at 901 Pennsylvania Ave., Pittsburgh, PA on September 17 and 18, 2018. The purpose of the engagement was to apply the 'Allegheny County iVotronic Firmware Verification Protocol' to verify the ES&S iVotronic firmware version 9.1.4.1 is resident on the Allegheny County iVotronic population.

On September 18, 2018, the GRP Consulting Group analyst completed the verification process of the firmware on twenty (20) Allegheny County iVotronics chosen at random from the population of approximately 4700 machines. It is the findings of GRP Consulting Group that the firmware version 9.1.4.1 residing on the twenty (20) randomly chosen machines, do represent the population, and furthermore, that the firmware version as resident on the U1 designated Electronic Erasable Programmable Read Only Memory (EEPROM) chip is an exact, true, and unaltered version of the NVLAP federally-certified trusted build as held in archive at SysTest Labs and in escrow by the Pennsylvania Secretary of State in Harrisburg, PA.

Security Assessment Report

For Allegheny County

December 4, 2018

Prepared for:



Point of Contact

Jason Ditzenberger

Jason.Ditzenberger@alleghenycounty.us

(412) 670-1115

Presented by:

PROJECT LEAD

Nickolas Croy, Security Consultant

nickolas.croy@foresite.com

(253) 255-1613

Foresite

7311 W. 132nd Street, Ste. 305

Overland Park, KS 66213



RESPOND



AUDIT



PROTECT



IDENTIFY



DEFEND



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Engagement Summary

The objective was to assess the current information security posture, compare the results to industry best practices, and identify vulnerabilities that could impact Allegheny County if exploited.

The Security Assessment consisted of the following phase:

- Air Gap Assessment

This engagement was performed from a white-box perspective, with Allegheny County providing Foresite information on network infrastructure and physical security measures.

Air Gap Assessment

Foresite performed an air gap assessment at one (1) location on one (1) network on November 5th, 2018 and November 8th, 2018.

The Air Gap Framework consisted of the following phases:

- Review of Physical Access to the Network
- Identification of Access to External Networks
- Identification of Wireless Capabilities
- Identification of Device States

Foresite reviewed the physical security measures in place to obtain physical access to the devices in the tabulation network. Foresite identified two (2) ingress points to the building, a nondescript door utilizing a keycard lock and truck bay doors that opened from the inside. Once through the outer door, an inner door requiring a pin code was identified. The pin code utilized was different between warehouse workers and administrative workers with access to the office and tabulation network. Entry to the main office also utilized another pin code lock. Access to the room inside the office housing the tabulation network was protected by another keycard lock. Cameras were identified throughout the location and video was stored in the office.

Foresite examined the devices on the tabulation network for access to external networks (such as the internet), wireless capabilities, software installed, device security (such as passwords), and physical access to the devices (such as USB ports). The devices were identified to have no access to external networks or have any wireless capabilities. The devices were identified to be running a version of Microsoft Windows that has reached End of Life and is no longer supported. The devices were protected with a password to log in, however the account used had administrative privileges and the password was the same for all devices. All physical ports on the devices were enabled, physical disc drives did not appear to be encrypted, and BIOS was not password protected. Foresite also identified that old data appeared to be residing in the recycle bin of the server.

Below is a list of vulnerabilities identified by Foresite and ranked based on ease of compromise and impact to data confidentiality, integrity, and availability:

Issues Identified	Severity Rating
End of Life (EOL) Windows Operating Systems	High
Physical Device Configuration Deficiencies	Medium
Physical Security Deficiencies	Low



Overall Security Rating

The identification of these vulnerabilities was ranked based of the vulnerability rating, but also in conjunction with the impacted device, the devices use, and the data sensitivity for data on the device.

Based on the results from all phases, Foresite rates the overall security posture of Allegheny County as **Medium.**

The vulnerabilities when combined in attacks compromised the confidentiality of information included as documented. Modifications to configurations are recommended to secure from malicious activity as soon as possible.

Overall Severity Rating	
Overall Technical Severity Score	Medium
<i>Remediation of the High and Medium findings would reduce the overall severity rating to Low.</i>	

As identified in each of the above phases and their results, Allegheny County must address the exploitable vulnerabilities as their top prioritized remediation efforts. The remaining findings as identified from top-down should be addressed in that order. This order is based on both severity of the vulnerability, but also criticality in remediation needs and timeframe needed to remediate.

Rules of Engagement

During the assessment, Foresite used industry best practices that focus identifying and validating vulnerabilities on the Allegheny County's environments.

The assessment did not include the following mechanisms:

- Intrusive tests or exploits that intentionally crash or disable a service.
- Brute forcing of any devices except for default password checks.
- Denial of Service (DoS) attacks any devices.
- Test cases that could result in damage to systems or data.
- Defacement of Allegheny County's websites and devices.

Test cases were limited to issues that would identify deficiencies in leading practices, regulatory and industry standards, including:

Leading Security Practices
• Vendor best practices
• OWASP Top 10 (2017)
• NIST SP 800-53

Air Gap Assessment Testing

Allegheny County approved the following engagement rules:

Device Testing Activities		
Is Foresite approved to perform validation of vulnerabilities that may lead to system access?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is Foresite approved to perform data analysis on Disk Drives?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is Foresite approved to disassemble hardware for forensic analysis?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is Foresite approved to assess device for network capabilities?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
In the event that Foresite is able to penetrate a system, is Foresite approved to perform the following:		
Perform privilege escalation attacks (if needed)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Obtain local password hashes and perform attempts to crack passwords?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Perform data analysis for sensitive data?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Utilize installed applications to attempt connection to network resources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Utilize information from the compromised device against other devices?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No



Technical Analysis

This technical section breaks down the activities performed through the engagement delivery process.

Engagement Scope

Tabulation Network Scope

Allegheny County identified the following tabulation network devices as being in scope for the engagement:

In-Scope Devices		
BOE	TAB5	TAB7
TAB9	DAM3	DAM4

Physical Location Scope

Allegheny County identified the following addresses as being in scope for the engagement:

In-Scope Location
901 Pennsylvania Ave, Pittsburgh, PA 15233

Identified and Validated Vulnerabilities

The following sections break down information identified on Allegheny County during the assessment.

Air Gap Vulnerabilities

Foresite performed air gap assessment activities on one (1) network at one (1) location. The following vulnerabilities were identified for the network and location in scope for the engagement:

Deficiencies

End of Life (EOL) Windows Operating Systems

Observation: Foresite identified Windows Server 2003 and Windows XP devices in use on the tabulation network.

Individual Issues Identified	Severity Rating
EOL Windows Server 2003	High
EOL Windows XP	High

```

Host Name: BOE
OS Name: Microsoft(R) Windows(R) Server 2003 for Small Business Server
OS Version: 5.2.3790 Service Pack 1 Build 3790
OS Manufacturer: Microsoft Corporation
OS Configuration: Primary Domain Controller
OS Build Type: Multiprocessor Free
Registered Owner: Allegheny County, PA
Registered Organization: Board of Elections
Product ID: 74995-OEM-4211904-03020
Original Install Date: 5/8/2006, 1:24:53 PM
    
```

Figure 1 – EOL Windows Server 2003

Impact: According to its version, the device is obsolete and no longer maintained by Microsoft. Lack of support implies that no new security patches for the product will be released by Microsoft. As a result, it may contain security vulnerabilities. Windows Server 2003 and Windows XP have multiple known vulnerabilities with no patches from Microsoft.

Foresite Recommendation: Remove the product if it is no longer needed. Otherwise, upgrade to a newer version if possible or switch to another product.

Affected Devices:

All devices

Physical Device Configuration Deficiencies

Observation: Foresite observed multiple physical device configurations that do not follow industry best practices.

Individual Issues Identified	Severity Rating
USB Ports Enabled	Medium
Shared User Account	Medium
BIOS Password Missing	Medium

Impact: Having USB ports enabled when not needed could allow a malicious actor to bypass an air gap by plugging in a USB flash drive, USB WiFi card, or USB Bluetooth device to allow outside access to the device.

By not password protecting BIOS administration, a malicious actor could change settings to allow them to bypass

the air gap.

Utilizing a single account with administrative privileges would allow a malicious actor to compromise all devices with a single password.

Foresite Recommendations: Disable unused USB ports in BIOS. Protect BIOS configurations with a password. Utilize unprivileged accounts to log in to devices. Use different accounts for each device or user.

Affected Devices:

All devices

Physical Security Deficiencies

Observation: Foresite observed multiple physical security deficiencies that could allow a malicious actor access to the air gapped network.

Individual Issues Identified	Severity Rating
Physical Key Access Used in Conjunction with Digital Locks	Low
Modified Door Latch Security Plates	Low
Door Hinges on Outside Access of all Doors	Low



Figure 2 – Physical Key and Keycard Access

Impact: By having both a physical key lock (such as a pin and tumbler lock) and an electronic lock (such as an RFID keycard), a malicious actor could bypass the stronger electronic lock by compromising the physical such as with a bump key or lockpicks.

Door latch security plates are present, but they have been modified to fit around obstacles such as door jams or latch plates. This compromises the effectiveness for the security plates, possibly allowing a malicious actor to utilize door bypass tools such as a shove knife.

By having all door with hinges facing toward the outside access of the ingress path, doors could be bypassed by removing hinge pins and removing the door.

Foresite Recommendations: Move to purely digital locks or ensure physical locks have security features to impede burglary tools such as lockpicks. Ensure security plates are not modified. Invest in security measures to prevent door removal if hinges are compromised such as security door hinge pins.

Affected Location:

901 Pennsylvania Ave., Pittsburgh, PA 15233

Engagement Testing Activities

The following activities represent the penetration actions performed for all phases of the engagement:

Air Gap Assessment - Pre/Post Election

Phase: Air Gap Assessment

Results: Network is Air Gapped

Severity: Informational

Actions: Foresite was met outside the location and asked for an ID to verify identity. After verification of identity, Foresite was escorted to the room where the tabulation network was located. Entry to the tabulation room required entering through four (4) doors, two (2) secured with keycard access, and two (2) secured with pin code access. The same process was repeated post-election.

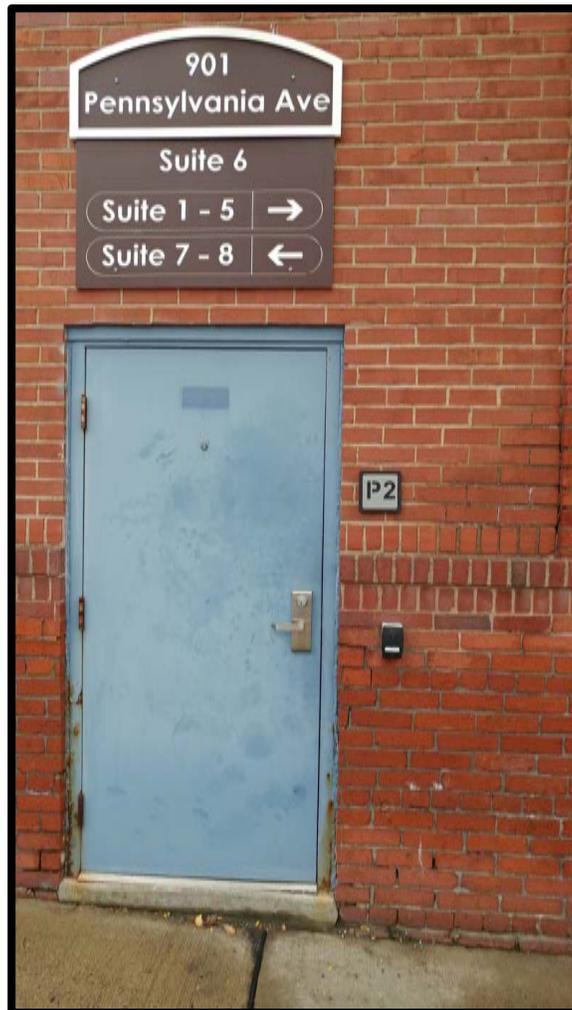


Figure 3 - External Entrance to Building

Foresite was escorted through a non-descript door that led into the main warehouse.

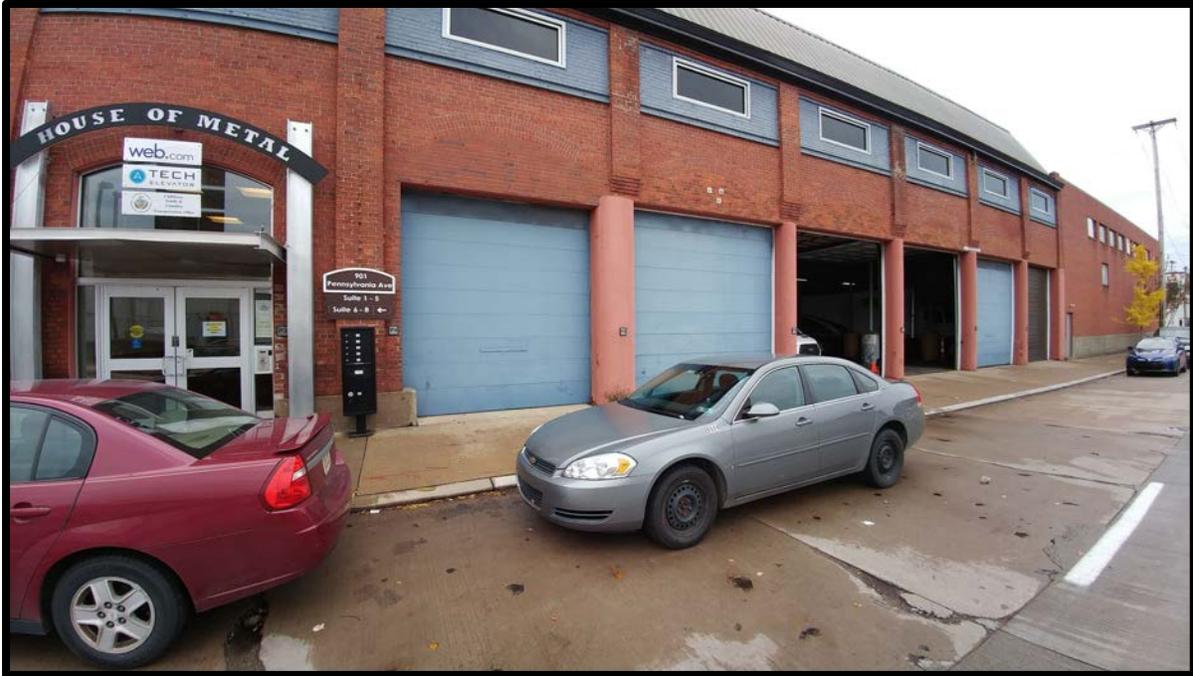


Figure 4 - Bay Doors to Building

The main entrance of the building was identified to lead only to second floor offices and did not have access to the main warehouse.

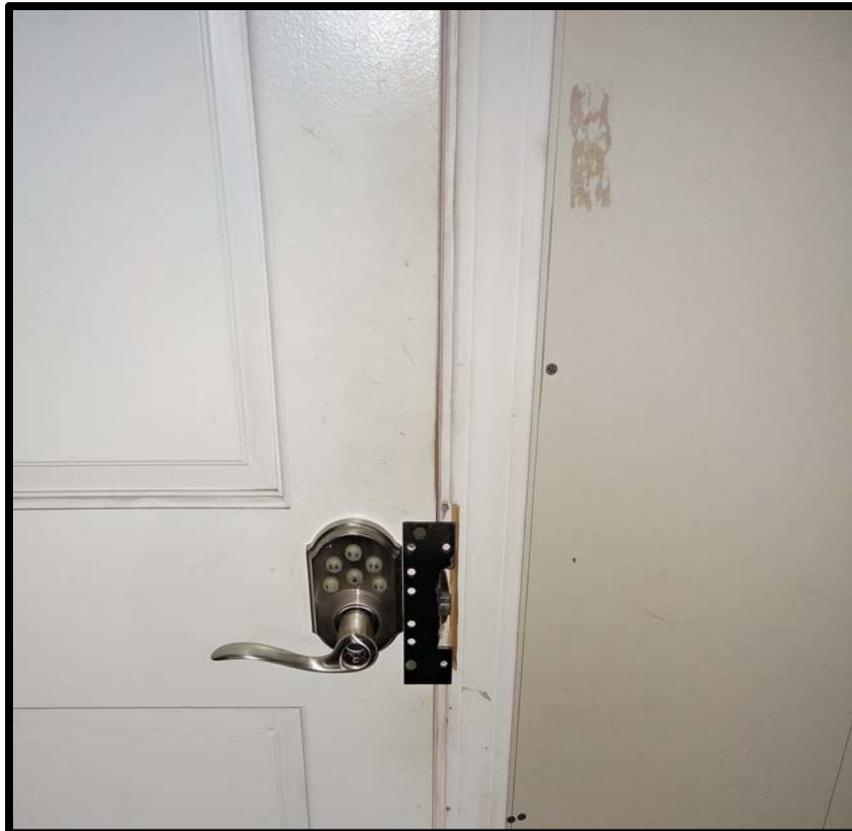


Figure 5 - Inner Building Door



Figure 6 - Office Door



Figure 7 - Tabulation Network Room Entry

Foresite was escorted through three (3) secured doors before reaching the room containing the tabulation network.



Figure 8 - Tabulation Network

Foresite performed a physical inspection of all devices to locate any anomalous USB devices, cables, or other physically attached devices. After confirming no anomalous physical devices were present, Allegheny County officials logged the Foresite into each physical device. Foresite performed data collection of various aspects of the device configuration to identify any software anomalies. This included, but was not limited to, running processes, network information, hardware devices, and operating system information. After analyzing this data no anomalies were identified. The same process was followed post-election, with no anomalies being found.

The data collected Pre and post-election were compared to identify any significant differences or indicators of modification. No such indicators were identified.

Network Overview

All devices were connected to a Dell PowerConnect 2716 switch. The BOE Server provided DHCP and DNS for the network. All devices had IPs in the 192.168.1.0/24 network. All devices could ping each other but could not ping outside the network.

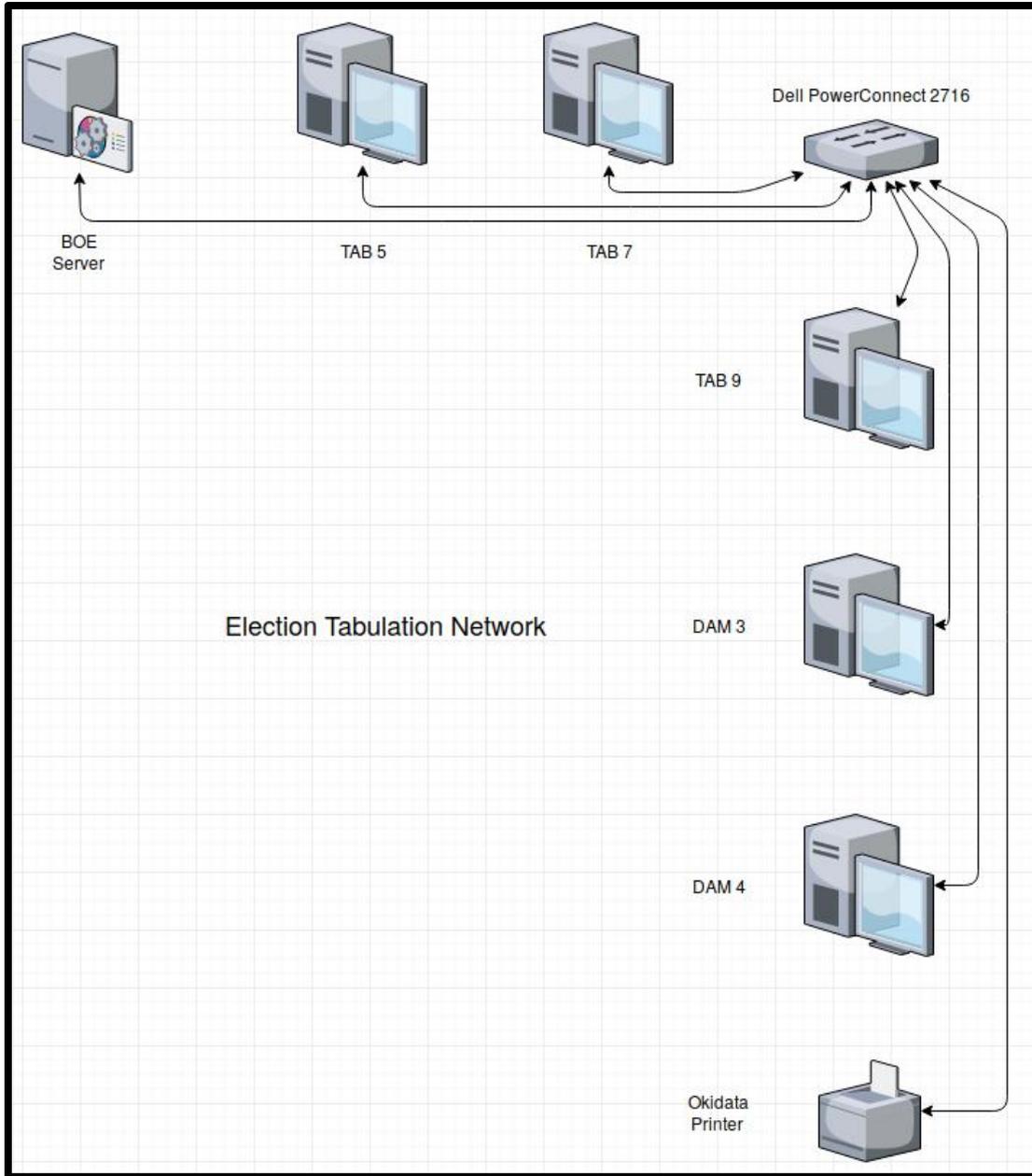


Figure 9 - Tabulation Network Diagram



Conclusion

In conclusion Foresite would give the overall security rating of the entire security assessment as **medium**.

This finding is weighted based on all phases of the engagement. Foresite is providing the following recommendations for each phase of the engagement:

Air Gap Assessment

The vulnerabilities identified in the air gap assessment process as well as discussions with Allegheny County provide Foresite with the following recommended mitigation/remediation goals.

Remediation Goals

- **End of Life Software** – Work with current vendor to stress the need for the Tabulation software to be certified on current releases of operating systems or consider moving to a vendor that has software certified on current releases of operating systems.
- **Physical Device Configuration Deficiencies** – Increase the security of devices by disabling unused ports. Create a BIOS password to protect changes to the BIOS system and ensure only authorized personnel make changes. Consider using separate logins for each device, as well as non-administrative accounts for general use.
- **Physical Security Deficiencies** – Determine if changes can be made to doors such as adding security door hinge pins. Ensure security latch plates are unmodified to provide maximum security.

Foresite knows the importance that your organization places on security and genuinely appreciates the opportunity to have worked with you on this engagement. Please contact your Foresite consulting team with any questions regarding any defined vulnerabilities or the contents of this report.

Appendix I: Security Posture

Level	Description
Very Low	<p>Vulnerabilities Identified: Zero to a few Low-rated vulnerabilities were identified. These vulnerabilities have no impact on the confidentiality, integrity, and availability of data or the network, but could provide information for future attacks.</p> <p>Evaluation: The network is found to be very secure.</p> <p>Actions: Actions may be taken to remediate identified issues.</p>
Low	<p>Vulnerabilities Identified: A few Low-rated vulnerabilities were identified. These vulnerabilities may possibly impact the confidentiality, integrity, and availability of data or the network and/or could provide information for future attacks.</p> <p>Evaluation: The network is found to be secure.</p> <p>Actions: Actions may be taken to remediate identified issues.</p>
Medium	<p>Vulnerabilities Identified: Several Low, Medium and/or High vulnerabilities were identified. These vulnerabilities could have an impact on the confidentiality, integrity, and availability of data or the network and may provide information for future attacks.</p> <p>Evaluation: The network is found to be moderately secure.</p> <p>Actions: Actions should be taken to remediate identified issues.</p>
High	<p>Vulnerabilities Identified: A number of Medium, High, and/or Critical vulnerabilities were identified. These vulnerabilities could have a noticeable impact on the confidentiality, integrity, and availability of data and provide information for future attacks.</p> <p>Evaluation: The network is found to be weak.</p> <p>Actions: Actions should be taken to remediate identified issues.</p>
Critical	<p>Vulnerabilities Identified: Many Medium, High and/or Critical vulnerabilities were identified. These vulnerabilities could have a considerable impact on the confidentiality, integrity, and availability of data and provide information for future attacks. Additionally, authorized data has been accessed and altered.</p> <p>Evaluation: The network is very weak and at serious risk.</p> <p>Actions: Actions should be taken immediately to remediate identified issues.</p>

Appendix II: Vulnerability Ratings

Rating
<p>Critical</p> <p>The vulnerability could have a considerable impact on the confidentiality, integrity, and availability of data and provide information for future attacks. Additionally, unauthorized access to data is possible.</p> <p>Anything found in this category must be considered vitally important and it should be fixed as soon as possible. These vulnerabilities may lead to a complete compromise of the system or result in loss of confidential data.</p>
<p>High</p> <p>The vulnerability could have a noticeable impact on the confidentiality, integrity, and availability of data and provide information for future attacks.</p> <p>A vulnerability listed as high has an increased risk of being exploited. This may be based on the time since it was discovered, or the ease with which it can be performed. Anything detected in this category should be fixed or upgraded immediately.</p>
<p>Medium</p> <p>The vulnerability could have an impact on the confidentiality, integrity, and availability of data or the network and may provide information for future attacks.</p> <p>Medium rated vulnerabilities can disclose information about your system(s) or possibly lead to loss of confidential data given the right conditions. These vulnerabilities may also affect a user's experience.</p>
<p>Low</p> <p>The vulnerability may possibly impact the confidentiality, integrity, and availability of data or the network and/or could provide information for future attacks.</p>
<p>Informational/Very Low</p> <p>The vulnerability has no impact on the confidentiality, integrity, and availability of data or the network, but could provide information for future attacks.</p>



Foresite Consulting Services Overview

Foresite has been providing security and compliance assessments that span all major verticals, including retail, education, healthcare, government, banking, and more. Foresite's consultants are highly experienced and certified professionals with strong backgrounds in security, compliance, and fundamental technology areas.

The mission of the Foresite security practice is to help organizations design, implement and maintain sound information security programs, consistent with industry best practices and relevant compliance mandates, to help ensure the security of sensitive information in an ever-changing risk environment.

Our team helps our clients establish both technical and non-technical security controls and practices to prevent, detect, correct, and minimize the risk of loss or damage to information resources, disruption of access to information resources, and unauthorized disclosure of information. These objectives are achieved through the implementation of effective policies, standards, and procedures, which focus on the three core principles of information security and network security:

- **Confidentiality** - the protection of information resources from unauthorized access or disclosure.
- **Integrity** - the accuracy, reliability and completeness of information and systems and the prevention of unauthorized modification.
- **Availability** - the assurance that information is accessible by authorized individuals as needed and when needed.



Delivery Consultant

Credentials

Lead Consultant

Nickolas Croy, Security Consultant

nickolas.croy@foresite.com

(253) 255-1613

Foresite Consulting Management

Management

Taylor Polson, Project Manager

taylor.polson@foresite.com

(913) 586-0500 x21135

John Wolf, Director, Security Services

john.wolf@foresite.com

(913) 709-0296

Jason LeDuc, Vice President, Consulting Services

jason.leduc@foresite.com

(732) 674-0871

**County of Allegheny,
Commonwealth of Pennsylvania**

Parallel Test Report
General Election

November 6, 2018



BAKER TILLY

Candor. Insight. Results.

County of Allegheny, Commonwealth of Pennsylvania

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Mr. William McKain, County Manager
County of Allegheny, Commonwealth of Pennsylvania
Office of the County Manager
436 Grant Street
Room 119 Courthouse
Pittsburgh, PA 15219

To assist with your evaluation of County of Allegheny's electronic voting machines, we randomly selected an election day polling location, scripted votes for parallel testing, and tested the functionality of the Direct Recording Electronic equipment, ES&S iVotronic voting machines. The test was performed on November 6, 2018, the date of the general election. The scripting component included creating hypothetical ballots for parallel testing by mimicking voter behavior and voting patterns from data and statistics provided by County of Allegheny, Department of Elections, for Precinct 1236, West Deer, District 5. Our engagement was performed in accordance with the consulting standards prescribed by the American Institute of Certified Public Accountants.

The results of the work performed indicate that the four voting machines tested, accurately recorded and counted the results of 359 ballots cast for the selected polling location. Our results are supported by visual evidence that the electronic voting machine recorded and maintained the vote counts properly. At the beginning of the process, we verified that the zero tape did in fact contain zero vote counts for each candidate in each race. Testing was done under video surveillance, capturing votes as they were entered into each voting machine from the scripted ballots. At the end of the election process, we compared the vote totals in the script, the Master Personalized Electronic Ballot (PEB), the Final Results Tape, and Flash Cards from the machines tested and found them to be in agreement. There were no discrepancies between the number of ballots cast, ballots cast for a particular party, votes for a particular candidate, the number of under-votes, the number of canceled votes, and the audio ballot cast for the visually impaired.

Because of its special purpose, this report is not suited for any purpose other than to assist you in your evaluation and, as such, is intended only for your internal use.

Baker Tilly Virchow Krause, LLP

Pittsburgh, Pennsylvania
November 6, 2018

**COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
RECONCILIATION OF VOTE TOTALS IN SCRIPT TO FINAL RESULTS TAPE, FLASH CARDS AND MASTER PEB
NOVEMBER 6, 2018**

PRECINCT: WEST DEER DISTRICT 5

	Voter Terminal Data per Script				Final Results Tape	Flash Card Data (from Precinct Report)				Master PEB Data	Differences		
	V5180412	V5186364	V5181119	V5173241		Total	V5180412	V5186364	V5181119			V5173241	Total
Public Count	126	0	0	0	126	126	0	0	0	126	126	0	
	0	114	0	0	114	0	114	0	0	114	114	0	
	0	0	73	0	73	0	0	73	0	73	73	0	
	0	0	0	46	46	0	0	0	46	46	46	0	
	<u>126</u>	<u>114</u>	<u>73</u>	<u>46</u>	<u>359</u>	<u>359</u>	<u>126</u>	<u>114</u>	<u>73</u>	<u>46</u>	<u>359</u>	<u>0</u>	
United States Senator													
Bob Casey, Jr.	42	52	36	17	147	147	42	52	36	17	147	147	0
Lou Barletta	29	20	14	10	73	73	29	20	14	10	73	73	0
Neal Gale	19	9	3	5	36	36	19	9	3	5	36	36	0
Dale R. Kerns, Jr.	36	33	19	14	102	102	36	33	19	14	102	102	0
Write-in	0	0	0	0	0	0	0	0	0	0	0	0	
Total	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>0</u>
Governor/Lieutenant Governor													
Tom Wolf/John Fetterman	55	46	31	17	149	149	55	46	31	17	149	149	0
Scott R. Wagner/Jeff Bartos	33	29	11	9	82	82	33	29	11	9	82	82	0
Paul Glover/Jocolyn Bowser-Bostick	28	19	10	8	65	65	28	19	10	8	65	65	0
Ken V. Krawchuk/Kathleen S. Smith	10	20	20	12	62	62	10	20	20	12	62	62	0
Write-in	0	0	0	0	0	0	0	0	0	0	0	0	
Total	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>0</u>
Representative in Congress													
Connor Lamb	68	58	37	21	184	184	68	58	37	21	184	184	0
Keith Rothfus	58	56	35	25	174	174	58	56	35	25	174	174	0
Write-in	0	0	0	0	0	0	0	0	0	0	0	0	
Total	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>0</u>
Senator in General Assembly													
Lindsey Williams	70	58	35	19	182	182	70	58	35	19	182	182	0
Jeremy Shaffer	56	56	37	27	176	176	56	56	37	27	176	176	0
Write-in	0	0	0	0	0	0	0	0	0	0	0	0	
Total	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>126</u>	<u>114</u>	<u>72</u>	<u>46</u>	<u>358</u>	<u>358</u>	<u>0</u>

**COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
RECONCILIATION OF VOTE TOTALS IN SCRIPT TO FINAL RESULTS TAPE, FLASH CARDS AND MASTER PEB
NOVEMBER 6, 2018**

PRECINCT: WEST DEER DISTRICT 5

	Voter Terminal Data per Script				Final Results Tape	Flash Card Data (from Precinct Report)				Master PEB Data	Differences		
	V5180412	V5186364	V5181119	V5173241		Total	V5180412	V5186364	V5181119			V5173241	Total
Representative in the General Assembly													
Jon McCabe	74	69	43	27	213	213	74	69	43	27	213	213	0
Bob Brooks	52	45	29	19	145	145	52	45	29	19	145	145	0
Write-in	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	126	114	72	46	358	358	126	114	72	46	358	358	0
Allegheny County Home Rule Charter Amend													
Yes	71	61	39	24	195	195	71	61	39	24	195	195	0
No	55	53	33	22	163	163	55	53	33	22	163	163	0
Total	126	114	72	46	358	358	126	114	72	46	358	358	0
West Deer Home Rule Charter Amend #1													
Yes	42	58	23	17	140	140	42	58	23	17	140	140	0
No	84	56	49	29	218	218	84	56	49	29	218	218	0
Total	126	114	72	46	358	358	126	114	72	46	358	358	0
West Deer Home Rule Charter Amend #2													
Yes	81	73	45	30	229	229	81	73	45	30	229	229	0
No	45	41	27	16	129	129	45	41	27	16	129	129	0
Total	126	114	72	46	358	358	126	114	72	46	358	358	0
West Deer Home Rule Charter Amend #3													
Yes	70	60	22	17	169	169	70	60	22	17	169	169	0
No	56	54	50	29	189	189	56	54	50	29	189	189	0
Total	126	114	72	46	358	358	126	114	72	46	358	358	0
West Deer Home Rule Charter Amend #4													
Yes	56	36	22	15	129	129	56	36	22	15	129	129	0
No	70	78	50	31	229	229	70	78	50	31	229	229	0
Total	126	114	72	46	358	358	126	114	72	46	358	358	0

Exhibit A

The parallel testing work performed was as follows:

Control and Security Procedures

1. We randomly selected a precinct.
2. We selected four ES&S iVotronic voting machines with "tamper-evident" seals from the County of Allegheny warehouse. We test-voted on each of the ES&S iVotronic voting machines.
3. We created a script for parallel testing to mimic voter behavior and voting patterns for the polling location randomly selected.
4. We obtained and secured the Master Personalized Electronic Ballot (PEB) and two Supervisor PEBs. The Master PEB is used to open voting machines and to print the zero tape (a "zero-vote" count tape from the ES&S iVotronic voting machines) before electronic balloting starts, and the Supervisor PEB is used to activate an ES&S iVotronic voting machine for each voter. Each PEB was secured in a locked file in our office after election day to prevent access and tampering.
5. We set up parallel test equipment where all actions could be visibly recorded by video surveillance. One video camera was set up to document the votes cast on each of the ES&S iVotronic voting machines selected.
6. We conducted the parallel test in a low traffic area to avoid interruptions.

Casting Votes

1. Ballots were scripted to ensure that "voter turnout" in the mock election closely approximated the projected voter turnout for the randomly selected polling location.
2. The video camera was focused on the ES&S iVotronic voting machine screen in a manner that votes could be seen as they were entered.
3. Actual voting was conducted as follows:
 - First team member: Called out each vote as marked on the ballot script.
 - Second team member: As each vote was called, entered the vote in the ES&S iVotronic voting machine.
 - Second team member: Called back the votes cast as they appeared on the summary screen(s) on the ES&S iVotronic voting machine.
 - First team member: As the second team member called back the votes, verified that the vote was cast as it was read, and made a notation on the script.

The terminals closed at 8:00 PM. The final results tape was printed and the flash card from each voting machine was removed. Video camera tapes were marked according to the applicable voting machine and the time votes were entered into the voting machine selected for testing.

Terminal S/N: V5173241->
PEB S/N PS215590- (FMW 1.07)
Software Version 9.1.4.1
Created 02/01/06 8:50
Copyright ES&S, Inc. 1993-2005
All Rights Reserved
Diagnostic check completed: OK
iVotronic I

2018 General Election
WEST DEER DIST 5
POLLING LOCATION ZERO TAPE

Public Count Statistics

Total Ballots Cast:	0
Total Ballots Counted:	0

Number of Terminals Opened: 4

Individual Voter Terminal Data

S/N V5180412
Public Count: 0
Protective Count: 4954
OPENED 07:07:19 11/06/2018
NOT CLOSED

S/N V5186364
Public Count: 0
Protective Count: 4418
OPENED 07:10:00 11/06/2018
NOT CLOSED

S/N V5181119
Public Count: 0
Protective Count: 4914
OPENED 07:11:49 11/06/2018
NOT CLOSED

S/N V5173241
Public Count: 0
Protective Count: 4280
OPENED 07:14:30 11/06/2018
NOT CLOSED

PRECINCT: WEST DEER DIST 5

Public Count: 0
Ballot Style Counts
Ballot Style #1236 0

Straight Party Option
(Vote for 1) Total: 0
Dem-Democratic 0
Rep-Republican 0
Grn-Green 0
Lib-Libertarian 0
UnderVotes For Above contest: 0

United States Senator
(Vote for 1) Total: 0
Dem-Bob Casey, Jr. 0
Rep-Lou Barletta 0
Grn-Neal Gale 0
Lib-Dale R. Kerns, Jr. 0

>Write-ins in above contest: 0
UnderVotes For Above contest: 0

GOVERNOR
(Vote for 1) Total: 0
Dem-Tom Wolf 0
Rep-Scott R. Wagner 0
Grn-Paul Glover 0
Lib-Ken V. Krawchuk 0

>Write-ins in above contest: 0
UnderVotes For Above contest: 0

CNG0017 Representative in Congress
(Vote for 1) Total: 0
Dem-Conor Lamb 0
Rep-Keith Rothfus 0

>Write-ins in above contest: 0
UnderVotes For Above contest: 0

SEN0038 Senator in the General Assembly
(Vote for 1) Total: 0
Dem-Lindsey Williams 0
Rep-Jeremy Shaffer 0

>Write-ins in above contest: 0
UnderVotes For Above contest: 0

LEG0054 Representative in the General As
(Vote for 1) Total: 0
Dem-Jon McCabe 0
Rep-Bob Brooks 0

>Write-ins in above contest: 0
UnderVotes For Above contest: 0

Allegheny County Home Rule Charter Amend	
(Vote for 1) Total:	0
Yes	0
No	0
UnderVotes For Above contest:	0
MUN219 West Deer Home Rule Charter Amend	
(Vote for 1) Total:	0
Yes	0
No	0
UnderVotes For Above contest:	0
MUN219 West Deer Home Rule Charter Amend	
(Vote for 1) Total:	0
Yes	0
No	0
UnderVotes For Above contest:	0
MUN219 West Deer Home Rule Charter Amend	
(Vote for 1) Total:	0
Yes	0
No	0
UnderVotes For Above contest:	0
MUN219 West Deer Home Rule Charter Amend	
(Vote for 1) Total:	0
Yes	0
No	0
UnderVotes For Above contest:	0

Time/Date: 07:16:29 11/06/2018

Signature: Lindsay Hochendenz

Signature: David Mall

Signature: John Pyle

Signature: Don Conrad

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
 ELECTION, TUESDAY, NOVEMBER 6, 2018
 SUMMARY OF SCRIPTS

	Public Count #	United States Senator (vote for one)					Governor/Lieutenant Governor (vote for one)					Representative in Congress (vote for one)			Senator in General Assembly (vote for one)		
		Casey	Barletta	Gale	Kerns	Write-In	Wolf/Fetterman	Wagner/Bartos	Glover/Bowser-Bostick	Krawchuk/Smith	Write-In	Lamb	Rothfus	Write-in	Williams	Shaffer	Write-In
Machine 1 V5180412	126	42	29	19	36	0	55	33	28	10	0	68	58	0	70	56	0
Machine 2 V5186364	114	52	20	9	33	0	46	29	19	20	0	58	56	0	58	56	0
Machine 3 V5181119	73	36	14	3	19	0	31	11	10	20	0	37	35	0	35	37	0
Machine 4 V5173241	46	17	10	5	14	0	17	9	8	12	0	21	25	0	19	27	0
Total	359	147	73	36	102	0	149	82	65	62	0	184	174	0	182	176	0

	Public Count #	Representative in the General Assembly (vote for one)			Agh Co Home Rule Charter Amend (yes/no)		West Deer Charter #1 (yes/no)		West Deer Charter #2 (yes/no)		West Deer Charter #3 (yes/no)		West Deer Charter #4 (yes/no)	
		McCabe	Brooks	Write-in	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
		Machine 1 V5180412	126	74	52	0	71	55	42	84	81	45	70	56
Machine 2 V5186364	114	69	45	0	61	53	58	56	73	41	60	54	36	78
Machine 3 V5181119	73	43	29	0	39	33	23	49	45	27	22	50	22	50
Machine 4 V5173241	46	27	19	0	24	22	17	29	30	16	17	29	15	31
Total	359	213	145	0	195	163	140	218	229	129	169	189	129	229

Machine #
V5180412

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 6, 2018
VOTER SIMULATION PROJECT SCRIPT

Public Count #	United States Senator (vote for one)					Governor/Lieutenant Governor (vote for one)					Representative in Congress (vote for one)			Senator in General Assembly (vote for one)			Representative in the General Assembly (vote for one)			Agh Co Home Rule Charter Amend (yes/no)		West Deer Charter #1 (yes/no)		West Deer Charter #2 (yes/no)		West Deer Charter #3 (yes/no)		West Deer Charter #4 (yes/no)	
	Casey	Barletta	Gale	Kerns	Write-In	Wolf/Fetterman	Wagner/Bartos	Glover/Bowser-Bostick	Krawchuk/Smith	Write-In	Lamb	Rothfus	Write-in	Williams	Shaffer	Write-In	McCabe	Brooks	Write-in	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	63		1				1					1			1	1		1	1		1		1		1		1		1
64				1			1					1		1	1		1	1		1		1		1		1		1	
65		1						1				1		1	1		1	1		1		1		1		1		1	
66	1						1					1		1	1		1	1		1		1		1		1		1	
67			1				1					1		1	1		1	1		1		1		1		1		1	
68				1			1					1		1	1		1	1		1		1		1		1		1	
69	1							1				1		1	1		1	1		1		1		1		1		1	
70	1							1				1		1	1		1	1		1		1		1		1		1	
71				1				1				1		1	1		1	1		1		1		1		1		1	
72	1						1					1		1	1		1	1		1		1		1		1		1	
73				1				1				1		1	1		1	1		1		1		1		1		1	
74		1					1					1		1	1		1	1		1		1		1		1		1	
75	1							1				1		1	1		1	1		1		1		1		1		1	
76				1				1				1		1	1		1	1		1		1		1		1		1	
77		1					1					1		1	1		1	1		1		1		1		1		1	
78	1							1				1		1	1		1	1		1		1		1		1		1	
79	1						1					1		1	1		1	1		1		1		1		1		1	
80				1				1				1		1	1		1	1		1		1		1		1		1	
81	1							1				1		1	1		1	1		1		1		1		1		1	
82	1						1					1		1	1		1	1		1		1		1		1		1	
83			1				1					1		1	1		1	1		1		1		1		1		1	
84		1					1					1		1	1		1	1		1		1		1		1		1	
85	1							1				1		1	1		1	1		1		1		1		1		1	
86	1							1				1		1	1		1	1		1		1		1		1		1	
87	1						1					1		1	1		1	1		1		1		1		1		1	
88			1					1				1		1	1		1	1		1		1		1		1		1	
89			1					1				1		1	1		1	1		1		1		1		1		1	
90			1					1				1		1	1		1	1		1		1		1		1		1	
91				1				1				1		1	1		1	1		1		1		1		1		1	
92		1						1				1		1	1		1	1		1		1		1		1		1	
93	1							1				1		1	1		1	1		1		1		1		1		1	
94				1				1			1		1		1		1	1		1		1		1		1		1	
95		1						1				1		1	1		1	1		1		1		1		1		1	
96				1				1				1		1	1		1	1		1		1		1		1		1	
97	1							1				1		1	1		1	1		1		1		1		1		1	
98	1							1				1		1	1		1	1		1		1		1		1		1	
99		1						1				1		1	1		1	1		1		1		1		1		1	
100	1							1				1		1	1		1	1		1		1		1		1		1	
101	1							1				1		1	1		1	1		1		1		1		1		1	
102				1				1				1		1	1		1	1		1		1		1		1		1	
103	1							1				1		1	1		1	1		1		1		1		1		1	
104	1							1				1		1	1		1	1		1		1		1		1		1	
105				1				1				1		1	1		1	1		1		1		1		1		1	
106		1						1				1		1	1		1	1		1		1		1		1		1	
107	1							1				1		1	1		1	1		1		1		1		1		1	
108	1							1				1		1	1		1	1		1		1		1		1		1	
109	1							1				1		1	1		1	1		1		1		1		1		1	
110	1							1				1		1	1		1	1		1		1		1		1		1	
111				1				1				1		1	1		1	1		1		1		1		1		1	
112		1						1				1		1	1		1	1		1		1		1		1		1	
113	1							1				1		1	1		1	1		1		1		1		1		1	
114			1					1				1		1	1		1	1		1		1		1		1		1	
115		1						1				1		1	1		1	1		1		1		1		1		1	
116				1				1			1		1		1		1	1		1		1		1		1		1	
117	1							1				1		1	1		1	1		1		1		1		1		1	
118	1							1				1		1	1		1	1		1		1		1		1		1	
119				1				1				1		1	1		1	1		1		1		1		1		1	
120		1						1				1		1	1		1	1		1		1		1		1		1	
121	1							1				1		1	1		1	1		1		1		1		1		1	
122				1				1				1		1	1		1	1		1		1		1		1		1	
123		1						1				1		1	1		1	1		1		1		1		1		1	
124	1							1				1		1	1		1	1		1		1		1		1		1	
125			1					1				1		1	1		1	1		1		1		1		1		1	
126				1				1				1		1	1		1	1		1		1		1		1		1	
Subtotal	42	29	19	36	0	55	33	28	10	0	68	58	0	70	56	0	74	52	0	71	55	42	84	81	45	70	56	70	

Machine #
V5186364

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 6, 2018
VOTER SIMULATION PROJECT SCRIPT

Public Count #	United States Senator (vote for one)					Governor/Lieutenant Governor (vote for one)					Representative in Congress (vote for one)			Senator in General Assembly (vote for one)			Representative in the General Assembly (vote for one)			Agh Co Home Rule Charter Amend (yes/no)		West Deer Charter #1 (yes/no)		West Deer Charter #2 (yes/no)		West Deer Charter #3 (yes/no)		West Deer Charter #4 (yes/no)	
	Casey	Barletta	Gale	Kerns	Write-In	Wolf/Fetterman	Wagner/Bartos	Glover/Bowser-Bostick	Krawchuk/Smith	Write-In	Lamb	Rothfus	Write-in	Williams	Shaffer	Write-In	McCabe	Brooks	Write-in	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
63	1																												
64				1																									
65		1																											
66	1																												
67		1																											
68	1																												
69	1																												
70				1																									
71	1																												
72	1																												
73				1																									
74		1																											
75	1																												
76	1																												
77	1																												
78	1																												
79				1																									
80		1																											
81	1																												
82				1																									
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88				1																									
89	1																												
90	1																												
91				1																									
92	1																												
93	1																												
94				1																									
95	1																												
96	1																												
97				1																									
98		1																											
99	1																												
100				1																									
101	1																												
102	1																												
103				1																									
104		1																											
105	1																												
106	1																												
107		1																											
108	1																												
109			1																										
110				1																									
111	1																												
112	1																												
113				1																									
114				1																									
Subtotal	52	20	9	33	0	46	29	19	20	0	58	56	0	58	56	0	69	45	0	61	53	58	56	73	41	60	54	36	78

Machine #
V5181119

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 6, 2018
VOTER SIMULATION PROJECT SCRIPT

Public Count #	United States Senator (vote for one)					Governor/Lieutenant Governor (vote for one)					Representative in Congress (vote for one)			Senator in General Assembly (vote for one)			Representative in the General Assembly (vote for one)			Agh Co Home Rule Charter Amend (yes/no)		West Deer Charter #1 (yes/no)		West Deer Charter #2 (yes/no)		West Deer Charter #3 (yes/no)		West Deer Charter #4 (yes/no)	
	Casey	Barletta	Gale	Kerns	Write-In	Wolf/Fetterman	Wagner/Bartos	Glover/Bowser-Bostick	Krawchuk/Smith	Write-In	Lamb	Rothfus	Write-in	Williams	Shaffer	Write-In	McCabe	Brooks	Write-in	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
	1	1					1					1			1			1			1		1		1		1		1
2	1					1					1			1			1			1		1		1		1		1	
3											1			1			1			1		1		1		1		1	
4		1									1			1			1			1		1		1		1		1	
5		1									1			1			1			1		1		1		1		1	
6	1					1					1			1			1			1		1		1		1		1	
7	1							1			1			1			1			1		1		1		1		1	
8									1					1			1			1		1		1		1		1	
9	1					1					1			1			1			1		1		1		1		1	
10	1					1					1			1			1			1		1		1		1		1	
11											1			1			1			1		1		1		1		1	
12		1									1			1			1			1		1		1		1		1	
13	1					1					1			1			1			1		1		1		1		1	
14	1					1					1			1			1			1		1		1		1		1	
15	1							1			1			1			1			1		1		1		1		1	
16	1					1					1			1			1			1		1		1		1		1	
17		1						1			1			1			1			1		1		1		1		1	
18	1										1			1			1			1		1		1		1		1	
19			1					1			1			1			1			1		1		1		1		1	
20						1					1			1			1			1		1		1		1		1	
21	1					1					1			1			1			1		1		1		1		1	
22	1					1					1			1			1			1		1		1		1		1	
23						1					1			1			1			1		1		1		1		1	
24	1								1		1			1			1			1		1		1		1		1	
25						1					1			1			1			1		1		1		1		1	
26		1				1					1			1			1			1		1		1		1		1	
27	1					1					1			1			1			1		1		1		1		1	
28						1					1			1			1			1		1		1		1		1	
29		1						1			1			1			1			1		1		1		1		1	
30	1					1					1			1			1			1		1		1		1		1	
31	1					1					1			1			1			1		1		1		1		1	
32						1					1			1			1			1		1		1		1		1	
33	1										1			1			1			1		1		1		1		1	
34	1										1			1			1			1		1		1		1		1	
35						1					1			1			1			1		1		1		1		1	
36		1				1					1			1			1			1		1		1		1		1	
37	1										1			1			1			1		1		1		1		1	
38			1			1					1			1			1			1		1		1		1		1	
39	1										1			1			1			1		1		1		1		1	
40	1										1			1			1			1		1		1		1		1	
41		1									1			1			1			1		1		1		1		1	
42	1										1			1			1			1		1		1		1		1	
43			1			1					1			1			1			1		1		1		1		1	
44						1					1			1			1			1		1		1		1		1	
45	1										1			1			1			1		1		1		1		1	
46	1										1			1			1			1		1		1		1		1	
47						1					1			1			1			1		1		1		1		1	
48		1				1					1			1			1			1		1		1		1		1	
49	1										1			1			1			1		1		1		1		1	
50						1					1			1			1			1		1		1		1		1	
51		1				1					1			1			1			1		1		1		1		1	
52						1					1			1			1			1		1		1		1		1	
53	1										1			1			1			1		1		1		1		1	
54	1					1					1			1			1			1		1		1		1		1	
55		1									1			1			1			1		1		1		1		1	
56						1					1			1			1			1		1		1		1		1	
57	1										1			1			1			1		1		1		1		1	
58						1					1			1			1			1		1		1		1		1	
59		1									1			1			1			1		1		1		1		1	
60	1										1			1			1			1		1		1		1		1	
61	1										1			1			1			1		1		1		1		1	
62						1					1			1			1			1		1		1		1		1	
63	1					1					1			1			1			1		1		1		1		1	
64	1					1					1			1			1			1		1		1		1		1	
65						1					1			1			1			1		1		1		1		1	
66		1									1			1			1			1		1		1		1		1	
67	1					1					1			1			1			1		1		1		1		1	
68						1					1			1			1			1		1		1		1		1	
69		1				1					1			1			1			1		1		1		1		1	
70						1					1			1			1			1		1		1		1		1	
71	1										1			1			1			1		1		1		1		1	

Machine #
V5181119

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 6, 2018
VOTER SIMULATION PROJECT SCRIPT

Public Count #	United States Senator (vote for one)					Governor/Lieutenant Governor (vote for one)					Representative in Congress (vote for one)			Senator in General Assembly (vote for one)			Representative in the General Assembly (vote for one)			Agh Co Home Rule Charter Amend (yes/no)		West Deer Charter #1 (yes/no)		West Deer Charter #2 (yes/no)		West Deer Charter #3 (yes/no)		West Deer Charter #4 (yes/no)	
	Casey	Barletta	Gale	Kerns	Write-In	Wolf/Fetterman	Wagner/Bartos	Glover/Bowser-Bostick	Krawchuk/Smith	Write-In	Lamb	Rothfus	Write-in	Williams	Shaffer	Write-In	McCabe	Brooks	Write-in	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
72	1					1					1			1			1			1		1		1		1		1	
73																													
Subtotal	36	14	3	19	0	31	11	10	20	0	37	35	0	35	37	0	43	29	0	39	33	23	49	45	27	22	50	22	50

Machine #
V5173241

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 6, 2018
VOTER SIMULATION PROJECT SCRIPT

Public Count #	United States Senator (vote for one)					Governor/Lieutenant Governor (vote for one)					Representative in Congress (vote for one)			Senator in General Assembly (vote for one)			Representative in the General Assembly (vote for one)			Agh Co Home Rule Charter Amend (yes/no)		West Deer Charter #1 (yes/no)		West Deer Charter #2 (yes/no)		West Deer Charter #3 (yes/no)		West Deer Charter #4 (yes/no)	
	Casey	Barletta	Gale	Kerns	Write-In	Wolf/Fetterman	Wagner/Bartos	Glover/Bowser-Bostick	Krawchuk/Smith	Write-In	Lamb	Rothfus	Write-in	Williams	Shaffer	Write-In	McCabe	Brooks	Write-in	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1		1				1					1					1					1					1			
2	1										1						1				1				1				
3			1									1					1				1				1				
4				1		1						1					1				1				1				
5	1										1						1				1				1				
6	1										1						1				1				1				
7				1							1						1				1				1				
8				1							1						1				1				1				
9	1										1						1				1				1				
10	1										1						1				1				1				
11				1							1						1				1				1				
12		1									1						1				1				1				
13	1										1						1				1				1				
14				1							1						1				1				1				
15		1									1						1				1				1				
16	1										1						1				1				1				
17	1										1						1				1				1				
18				1							1						1				1				1				
19	1										1						1				1				1				
20	1										1						1				1				1				
21				1							1						1				1				1				
22			1								1						1				1				1				
23			1								1						1				1				1				
24			1								1						1				1				1				
25				1							1						1				1				1				
26		1									1						1				1				1				
27	1										1						1				1				1				
28				1							1						1				1				1				
29		1									1						1				1				1				
30				1							1						1				1				1				
31	1										1						1				1				1				
32	1										1						1				1				1				
33				1							1						1				1				1				
34		1									1						1				1				1				
35	1										1						1				1				1				
36			1								1						1				1				1				
37	1										1						1				1				1				
38	1										1						1				1				1				
39				1							1						1				1				1				
40		1									1						1				1				1				
41	1										1						1				1				1				
42				1							1						1				1				1				
43		1									1						1				1				1				
44				1							1						1				1				1				
45		1									1						1				1				1				
46		1									1						1				1				1				
Subtotal	17	10	5	14	0	17	9	8	12	0	21	25	0	19	27	0	27	19	0	24	22	17	29	30	16	17	29	15	31

Terminal S/N: V5173241->
 PEB S/N PS215590- (FMW 1.07)
 Software Version 9.1.4.1
 Created 02/01/06 8:50
 Copyright ES&S, Inc. 1993-2005
 All Rights Reserved
 Diagnostic check completed: OK
 iVotronic I

2018 General Election
 WEST DEER DIST 5
 POLLING LOCATION RESULTS

Public Count Statistics

Total Ballots Cast:	359
Total Ballots Counted:	359

Number of Terminals Opened:	4
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Individual Voter Terminal Data

S/N V5180412

Public Count:	126
Protective Count:	5080
OPENED 07:07:19 11/06/2018	
CLOSED 20:04:39 11/06/2018	
Terminal Ballots Counted:	126

S/N V5186364

Public Count:	114
Protective Count:	4532
OPENED 07:10:00 11/06/2018	
CLOSED 20:11:08 11/06/2018	
Terminal Ballots Counted:	114

S/N V5181119

Public Count:	73
Protective Count:	4987
OPENED 07:11:49 11/06/2018	
CLOSED 20:14:03 11/06/2018	
Terminal Ballots Counted:	73

S/N V5173241

Public Count:	46
Protective Count:	4326
OPENED 07:14:30 11/06/2018	
CLOSED 20:17:09 11/06/2018	
Terminal Ballots Counted:	46

PRECINCT: WEST DEER DIST 5

Public Count: 359
Ballot Style Counts
Ballot Style #1236 359

Straight Party Option
(Vote for 1) Total: 0
Dem-Democratic 0
Rep-Republican 0
Grn-Green 0
Lib-Libertarian 0
UnderVotes For Above contest: 359

United States Senator
(Vote for 1) Total: 358
Dem-Bob Casey, Jr. 147
Rep-Lou Barletta 73
Grn-Neal Gale 36
Lib-Dale R. Kerns, Jr. 102
>Write-ins in above contest: 0
UnderVotes For Above contest: 1

GOVERNOR
(Vote for 1) Total: 358
Dem-Tom Wolf 149
Rep-Scott R. Wagner 82
Grn-Paul Glover 65
Lib-Ken V. Krawchuk 62
>Write-ins in above contest: 0
UnderVotes For Above contest: 1

CNG0017 Representative in Congress
(Vote for 1) Total: 358
Dem-Conor Lamb 184
Rep-Keith Rothfus 174
>Write-ins in above contest: 0
UnderVotes For Above contest: 1

SEN0038 Senator in the General Assembly
(Vote for 1) Total: 358
Dem-Lindsey Williams 182
Rep-Jeremy Shaffer 176
>Write-ins in above contest: 0
UnderVotes For Above contest: 1

LEG0054 Representative in the General As
(Vote for 1) Total: 358
Dem-Jon McCabe 213
Rep-Bob Brooks 145
>Write-ins in above contest: 0
UnderVotes For Above contest: 1

Allegheny County Home Rule Charter Amend
(Vote for 1) Total: 358
Yes 195
No 163
UnderVotes For Above contest: 1

MUN219 West Deer Home Rule Charter Amend
(Vote for 1) Total: 358
Yes 140
No 218
UnderVotes For Above contest: 1

MUN219 West Deer Home Rule Charter Amend
(Vote for 1) Total: 358
Yes 229
No 129
UnderVotes For Above contest: 1

MUN219 West Deer Home Rule Charter Amend
(Vote for 1) Total: 358
Yes 169
No 189
UnderVotes For Above contest: 1

MUN219 West Deer Home Rule Charter Amend
(Vote for 1) Total: 358
Yes 129
No 229
UnderVotes For Above contest: 1

Time/Date: 20:23:08 11/06/2018

Signature: 

Signature: 

Signature: 

Signature: 

EL30

PRECINCT REPORT
 RUN DATE:12/10/18
 RUN TIME:08:57 AM

1236 WEST DEER DIST 5

	VOTES	PERCENT
REGISTERED VOTERS - TOTAL	851	
BALLOTS CAST - TOTAL.	359	
VOTER TURNOUT - TOTAL		42.19

Straight Party Option

Vote for 1

Democratic (Dem)	0	
Republican (Rep)	0	
Green (Grn).	0	
Libertarian (Lib).	0	

United States Senator

Vote for 1

Bob Casey, Jr. (Dem).	147	41.06
Lou Barletta (Rep)	73	20.39
Neal Gale (Grn)	36	10.06
Dale R. Kerns, Jr. (Lib)	102	28.49
WRITE-IN.	0	

Governor/Lieutenant Governor

Vote for 1

Tom Wolf (Dem).	149	41.62
Scott R. Wagner (Rep)	82	22.91
Paul Glover (Grn).	65	18.16
Ken V. Krawchuk (Lib)	62	17.32
WRITE-IN.	0	

Representative in Congress 17TH DISTRICT

Vote for 1

Conor Lamb (Dem)	184	51.40
Keith Rothfus (Rep)	174	48.60
WRITE-IN.	0	

Senator in the General Assembly 38TH DISTRICT

Vote for 1

Lindsey Williams (Dem)	182	50.84
Jeremy Shaffer (Rep).	176	49.16

EL30

WRITE-IN. 0

Representative in the General Assembly 54TH DISTRICT

Vote for 1

Jon McCabe (Dem) 213 59.50
Bob Brooks (Rep) 145 40.50
WRITE-IN. 0

Allegheny County Home Rule Charter Amend

Vote for 1

Yes 195 54.47
No. 163 45.53

West Deer Home Rule Charter Amend #1

Vote for 1

Yes 140 39.11
No. 218 60.89

West Deer Home Rule Charter Amend #2

Vote for 1

Yes 229 63.97
No. 129 36.03

West Deer Home Rule Charter Amend #3

Vote for 1

Yes 169 47.21
No. 189 52.79

West Deer Home Rule Charter Amend #4

Vote for 1

Yes 129 36.03
No. 229 63.97

PREC REPORT-GROUP DETAIL
RUN DATE:12/10/18 09:24 AM

1236 WEST DEER DIST 5

	TOTAL VOTES	%	5173241	5181119	5180412	5186364	Military
REGISTERED VOTERS - TOTAL	851						
BALLOTS CAST - TOTAL.	359		46	73	126	114	0
VOTER TURNOUT - TOTAL		42.19					

Straight Party Option

Vote for 1							
Democratic (Dem)	0		0	0	0	0	0
Republican (Rep)	0		0	0	0	0	0
Green (Grn).	0		0	0	0	0	0
Libertarian (Lib).	0		0	0	0	0	0

United States Senator

Vote for 1							
Bob Casey, Jr. (Dem).	147	41.06	17	36	42	52	0
Lou Barletta (Rep)	73	20.39	10	14	29	20	0
Neal Gale (Grn)	36	10.06	5	3	19	9	0
Dale R. Kerns, Jr. (Lib)	102	28.49	14	19	36	33	0
WRITE-IN.	0		0	0	0	0	0

Governor/Lieutenant Governor

Vote for 1							
Tom Wolf (Dem).	149	41.62	17	31	55	46	0
Scott R. Wagner (Rep)	82	22.91	9	11	33	29	0
Paul Glover (Grn).	65	18.16	8	10	28	19	0
Ken V. Krawchuk (Lib)	62	17.32	12	20	10	20	0
WRITE-IN.	0		0	0	0	0	0

Representative in Congress 17TH DISTRICT

Vote for 1							
Conor Lamb (Dem)	184	51.40	21	37	68	58	0
Keith Rothfus (Rep)	174	48.60	25	35	58	56	0
WRITE-IN.	0		0	0	0	0	0

Senator in the General Assembly 38TH DISTRICT

Vote for 1							
Lindsey Williams (Dem)	182	50.84	19	35	70	58	0
Jeremy Shaffer (Rep).	176	49.16	27	37	56	56	0
WRITE-IN.	0		0	0	0	0	0

EL30A

Representative in the General Assembly 54TH DISTRICT

Vote for 1							
Jon McCabe (Dem)	213	59.50	27	43	74	69	0
Bob Brooks (Rep)	145	40.50	19	29	52	45	0
WRITE-IN.	0		0	0	0	0	0

Allegheny County Home Rule Charter Amend

Vote for 1							
Yes	195	54.47	24	39	71	61	0
No.	163	45.53	22	33	55	53	0

West Deer Home Rule Charter Amend #1

Vote for 1							
Yes	140	39.11	17	23	42	58	0
No.	218	60.89	29	49	84	56	0

West Deer Home Rule Charter Amend #2

Vote for 1							
Yes	229	63.97	30	45	81	73	0
No.	129	36.03	16	27	45	41	0

West Deer Home Rule Charter Amend #3

Vote for 1							
Yes	169	47.21	17	22	70	60	0
No.	189	52.79	29	50	56	54	0

West Deer Home Rule Charter Amend #4

Vote for 1							
Yes	129	36.03	15	22	56	36	0
No.	229	63.97	31	50	70	78	0

Ballot Quantity Spreadsheet
by Municipality, Ward and District - General 2018

Ballot #	Municipality	Muni	Ward	District	Total Registered
1	ALEPPO	101	0	1	1376
2	ASPINWALL	102	0	1	870
3	ASPINWALL	102	0	2	584
4	ASPINWALL	102	0	3	850
5	AVALON	103	1	0	1097
6	AVALON	103	2	1	719
7	AVALON	103	2	2	462
8	AVALON	103	3	1	320
9	AVALON	103	3	2	499
10	AVALON	103	3	3	490
11	BALDWIN BR	104	0	1	582
12	BALDWIN BR	104	0	2	1004
13	BALDWIN BR	104	0	3	790
14	BALDWIN BR	104	0	4	771
15	BALDWIN BR	104	0	5	783
16	BALDWIN BR	104	0	6	751
17	BALDWIN BR	104	0	7	794
18	BALDWIN BR	104	0	8	696
19	BALDWIN BR	104	0	9	730
20	BALDWIN BR	104	0	10	1033
21	BALDWIN BR	104	0	11	1131
22	BALDWIN BR	104	0	12	619
23	BALDWIN BR	104	0	13	666
24	BALDWIN BR	104	0	14	572
25	BALDWIN BR	104	0	15	783
26	BALDWIN BR	104	0	16	891
27	BALDWIN BR	104	0	17	682
28	BALDWIN BR	104	0	18	906
29	BALDWIN TP	105	0	1	758
30	BALDWIN TP	105	0	2	708
31	BELL ACRES	106	0	1	1138
32	BELLEVUE	107	1	1	1025
33	BELLEVUE	107	1	2	971
34	BELLEVUE	107	2	1	1098
35	BELLEVUE	107	2	2	993
36	BELLEVUE	107	3	1	1014
37	BELLEVUE	107	3	2	933
38	BEN AVON	108	0	1	475
39	BEN AVON	108	0	2	954
40	BEN AVON HT	109	0	1	321
41	BETHEL PARK	110	1	1	860
42	BETHEL PARK	110	1	2	828
43	BETHEL PARK	110	1	3	809
44	BETHEL PARK	110	2	1	723
45	BETHEL PARK	110	2	2	900
46	BETHEL PARK	110	2	3	1115
47	BETHEL PARK	110	3	1	795
48	BETHEL PARK	110	3	2	946
49	BETHEL PARK	110	3	3	1063
50	BETHEL PARK	110	4	1	1293
51	BETHEL PARK	110	4	2	780
52	BETHEL PARK	110	4	3	864
53	BETHEL PARK	110	5	1	606
54	BETHEL PARK	110	5	2	659
55	BETHEL PARK	110	5	3	1457
56	BETHEL PARK	110	6	1	1275
57	BETHEL PARK	110	6	2	963
58	BETHEL PARK	110	6	3	820
59	BETHEL PARK	110	7	1	1148
60	BETHEL PARK	110	7	2	1056
61	BETHEL PARK	110	7	3	764
62	BETHEL PARK	110	8	1	512
63	BETHEL PARK	110	8	2	545
64	BETHEL PARK	110	8	3	1227
65	BETHEL PARK	110	8	4	449
66	BETHEL PARK	110	9	1	558
67	BETHEL PARK	110	9	2	712
68	BETHEL PARK	110	9	3	1380
69	BLAWNOX	111	0	1	1060
70	BRACKENRIDGE	112	1	0	491
71	BRACKENRIDGE	112	2	0	785
72	BRACKENRIDGE	112	3	0	648
73	BRADDOCK	113	1	0	541

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
74	BRADDOCK	113	2	0	582
75	BRADDOCK	113	3	0	458
76	BRADDOCK HL	114	0	1	811
77	BRADDOCK HL	114	0	2	538
78	BRADFORDWOOD	115	0	1	1012
79	BRENTWOOD	116	0	1	538
80	BRENTWOOD	116	0	2	755
81	BRENTWOOD	116	0	3	570
82	BRENTWOOD	116	0	4	776
83	BRENTWOOD	116	0	5	724
84	BRENTWOOD	116	0	6	685
85	BRENTWOOD	116	0	7	751
86	BRENTWOOD	116	0	8	692
87	BRENTWOOD	116	0	9	599
88	BRENTWOOD	116	0	10	561
89	BRIDGEVILLE	117	0	1	805
90	BRIDGEVILLE	117	0	2	857
91	BRIDGEVILLE	117	0	3	856
92	BRIDGEVILLE	117	0	4	978
93	CARNEGIE	118	1	1	537
94	CARNEGIE	118	1	2	1215
95	CARNEGIE	118	1	3	840
96	CARNEGIE	118	1	4	387
97	CARNEGIE	118	2	1	662
98	CARNEGIE	118	2	2	522
99	CARNEGIE	118	2	3	480
100	CARNEGIE	118	2	4	955
101	CASL SHANNON	119	0	1	1075
102	CASL SHANNON	119	0	2	854
103	CASL SHANNON	119	0	3	814
104	CASL SHANNON	119	0	4	639
105	CASL SHANNON	119	0	5	624
106	CASL SHANNON	119	0	6	644
107	CASL SHANNON	119	0	7	755
108	CASL SHANNON	119	0	8	554
109	CHALFANT	120	0	1	582
110	CHESWICK	121	0	1	609
111	CHESWICK	121	0	2	631
112	CHURCHILL	122	0	1	690
113	CHURCHILL	122	0	2	707
114	CHURCHILL	122	0	3	659
115	CHURCHILL	122	0	4	676
116	CLAIRTON	123	1	1	395
117	CLAIRTON	123	1	2	397
118	CLAIRTON	123	1	3	343
119	CLAIRTON	123	2	1	138
120	CLAIRTON	123	2	2	326
121	CLAIRTON	123	2	3	472
122	CLAIRTON	123	3	1	449
123	CLAIRTON	123	3	2	391
124	CLAIRTON	123	3	3	423
125	CLAIRTON	123	4	1	397
126	CLAIRTON	123	4	2	384
127	CLAIRTON	123	4	3	435
128	COLLIER	124	0	1	1186
129	COLLIER	124	0	2	1249
130	COLLIER	124	0	3	1227
131	COLLIER	124	0	4	764
132	COLLIER	124	0	5	972
133	COLLIER	124	0	6	1102
134	CORAOPOLIS	125	1	1	460
135	CORAOPOLIS	125	1	2	514
136	CORAOPOLIS	125	2	0	820
137	CORAOPOLIS	125	3	1	600
138	CORAOPOLIS	125	3	2	605
139	CORAOPOLIS	125	4	1	445
140	CORAOPOLIS	125	4	2	526
141	CRAFTON	126	1	1	896
142	CRAFTON	126	1	2	614
143	CRAFTON	126	2	1	597
144	CRAFTON	126	2	2	783
145	CRAFTON	126	3	1	981
146	CRAFTON	126	3	2	595

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
147	CRESCENT	127	1	0	1123
148	CRESCENT	127	2	0	673
149	DORMONT	128	0	1	733
150	DORMONT	128	0	2	546
151	DORMONT	128	0	3	939
152	DORMONT	128	0	4	653
153	DORMONT	128	0	5	1080
154	DORMONT	128	0	6	532
155	DORMONT	128	0	7	507
156	DORMONT	128	0	8	426
157	DORMONT	128	0	9	540
158	DORMONT	128	0	10	636
159	DRAVOSBURG	129	0	1	566
160	DRAVOSBURG	129	0	2	374
161	DRAVOSBURG	129	0	3	254
162	DUQUESNE	130	1	1	472
163	DUQUESNE	130	1	2	528
164	DUQUESNE	130	1	3	339
165	DUQUESNE	130	1	4	226
166	DUQUESNE	130	2	1	393
167	DUQUESNE	130	2	2	418
168	DUQUESNE	130	2	3	456
169	DUQUESNE	130	3	1	250
170	DUQUESNE	130	3	2	166
171	DUQUESNE	130	3	3	580
172	EAST DEER	131	1	0	313
173	EAST DEER	131	2	0	585
174	E MCKEESPORT	132	0	1	403
175	E MCKEESPORT	132	0	2	530
176	E MCKEESPORT	132	0	3	485
177	E PITTSBURGH	133	1	0	351
178	E PITTSBURGH	133	2	0	401
179	E PITTSBURGH	133	3	0	494
180	EDGEWOOD	134	0	1	1028
181	EDGEWOOD	134	0	2	938
182	EDGEWOOD	134	0	3	883
183	EDGEWORTH	135	0	1	707
184	EDGEWORTH	135	0	2	763
185	ELIZABETH BR	136	0	1	922
186	ELIZABETH TP	137	1	1	566
187	ELIZABETH TP	137	1	2	915
188	ELIZABETH TP	137	2	0	1271
189	ELIZABETH TP	137	3	0	1331
190	ELIZABETH TP	137	4	1	901
191	ELIZABETH TP	137	4	2	457
192	ELIZABETH TP	137	5	1	459
193	ELIZABETH TP	137	5	2	823
194	ELIZABETH TP	137	6	1	606
195	ELIZABETH TP	137	6	2	720
196	ELIZABETH TP	137	7	0	1258
197	EMSWORTH	138	0	1	779
198	EMSWORTH	138	0	2	959
199	ETNA	139	1	0	816
200	ETNA	139	2	0	721
201	ETNA	139	3	0	698
202	FAWN	50	0	1	548
203	FAWN	50	0	2	905
204	FINDLAY	141	0	1	1267
205	FINDLAY	141	0	2	1730
206	FINDLAY	141	0	3	1204
207	FOREST HILLS	142	0	1	627
208	FOREST HILLS	142	0	2	618
209	FOREST HILLS	142	0	3	640
210	FOREST HILLS	142	0	4	710
211	FOREST HILLS	142	0	5	695
212	FOREST HILLS	142	0	6	551
213	FOREST HILLS	142	0	7	767
214	FOREST HILLS	142	0	8	728
215	FORWARD	143	0	1	366
216	FORWARD	143	0	2	866
217	FORWARD	143	0	3	390
218	FORWARD	143	0	4	444
219	FOX CHAPEL	144	0	1	815

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
220	FOX CHAPEL	144	0	2	1004
221	FOX CHAPEL	144	0	3	740
222	FOX CHAPEL	144	0	4	1198
223	FOX CHAPEL	144	0	5	891
224	FRANKLIN PK	145	1	1	1178
225	FRANKLIN PK	145	1	2	1284
226	FRANKLIN PK	145	1	3	1337
227	FRANKLIN PK	145	2	1	1075
228	FRANKLIN PK	145	2	2	1273
229	FRANKLIN PK	145	2	3	1350
230	FRANKLIN PK	145	3	1	1255
231	FRANKLIN PK	145	3	2	781
232	FRANKLIN PK	145	3	3	1220
233	FRAZER	146	0	1	754
234	GLASSPORT	147	0	1	548
235	GLASSPORT	147	0	2	387
236	GLASSPORT	147	0	3	525
237	GLASSPORT	147	0	4	247
238	GLASSPORT	147	0	5	493
239	GLASSPORT	147	0	6	446
240	GLENFIELD	148	0	1	147
241	GREENTREE	149	0	1	771
242	GREENTREE	149	0	2	1066
243	GREENTREE	149	0	3	944
244	GREENTREE	149	0	4	862
245	HAMPTON	150	0	1	1207
246	HAMPTON	150	0	2	1216
247	HAMPTON	150	0	3	1317
248	HAMPTON	150	0	4	623
249	HAMPTON	150	0	5	702
250	HAMPTON	150	0	6	659
251	HAMPTON	150	0	7	1324
252	HAMPTON	150	0	8	948
253	HAMPTON	150	0	9	1263
254	HAMPTON	150	0	10	1484
255	HAMPTON	150	0	11	1689
256	HAMPTON	150	0	12	837
257	HAMPTON	150	0	13	762
258	HARMAR	151	0	1	1293
259	HARMAR	151	0	2	744
260	HARMAR	151	0	3	357
261	HARRISON	152	1	1	289
262	HARRISON	152	1	2	575
263	HARRISON	152	1	3	639
264	HARRISON	152	2	1	320
265	HARRISON	152	2	2	594
266	HARRISON	152	3	1	1023
267	HARRISON	152	3	2	617
268	HARRISON	152	4	1	681
269	HARRISON	152	4	2	573
270	HARRISON	152	5	1	517
271	HARRISON	152	5	2	807
272	HAYSVILLE	153	0	1	59
273	HEIDELBERG	154	0	1	867
274	HOMESTEAD	155	1	1	604
275	HOMESTEAD	155	1	2	369
276	HOMESTEAD	155	2	1	439
277	HOMESTEAD	155	2	2	314
278	HOMESTEAD	155	3	1	511
279	HOMESTEAD	155	3	2	323
280	INDIANA	156	0	1	972
281	INDIANA	156	0	2	875
282	INDIANA	156	0	3	1210
283	INDIANA	156	0	4	1122
284	INDIANA	156	0	5	919
285	INGRAM	157	0	1	791
286	INGRAM	157	0	2	632
287	INGRAM	157	0	3	916
288	JEFFERSON HL	158	0	1	1600
289	JEFFERSON HL	158	0	2	843
290	JEFFERSON HL	158	0	3	644
291	JEFFERSON HL	158	0	4	675
292	JEFFERSON HL	158	0	5	2069

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
293	JEFFERSON HL	158	0	6	936
294	JEFFERSON HL	158	0	7	368
295	JEFFERSON HL	158	0	8	1156
296	KENNEDY	159	0	1	1520
297	KENNEDY	159	0	2	872
298	KENNEDY	159	0	3	1005
299	KENNEDY	159	0	4	427
300	KENNEDY	159	0	5	1324
301	KENNEDY	159	0	6	849
302	KENNEDY	159	0	7	540
303	KILBUCK	160	0	1	589
304	LEET	161	0	1	401
305	LEET	161	0	2	762
306	LEETSDALE	162	0	1	876
307	LIBERTY	163	0	1	930
308	LIBERTY	163	0	2	752
309	LINCOLN	164	0	1	684
310	MARSHALL	165	0	1	894
311	MARSHALL	165	0	2	1107
312	MARSHALL	165	0	3	812
313	MARSHALL	165	0	4	1101
314	MARSHALL	165	0	5	1584
315	MARSHALL	165	0	6	976
316	MCCANDLESS	166	1	1	1108
317	MCCANDLESS	166	1	2	914
318	MCCANDLESS	166	1	3	1258
319	MCCANDLESS	166	2	1	1431
320	MCCANDLESS	166	2	2	873
321	MCCANDLESS	166	2	3	872
322	MCCANDLESS	166	3	1	958
323	MCCANDLESS	166	3	2	1081
324	MCCANDLESS	166	3	3	1058
325	MCCANDLESS	166	4	1	1501
326	MCCANDLESS	166	4	2	913
327	MCCANDLESS	166	4	3	729
328	MCCANDLESS	166	5	1	820
329	MCCANDLESS	166	5	2	1320
330	MCCANDLESS	166	5	3	936
331	MCCANDLESS	166	6	1	481
332	MCCANDLESS	166	6	2	1013
333	MCCANDLESS	166	6	3	1829
334	MCCANDLESS	166	7	1	1581
335	MCCANDLESS	166	7	2	968
336	MCCANDLESS	166	7	3	517
337	MCDONALD	167	0	5	204
338	MCKEESPORT	168	1	0	16
339	MCKEESPORT	168	2	0	249
340	MCKEESPORT	168	3	1	283
341	MCKEESPORT	168	3	2	125
342	MCKEESPORT	168	4	0	323
343	MCKEESPORT	168	5	0	533
344	MCKEESPORT	168	6	1	399
345	MCKEESPORT	168	6	2	310
346	MCKEESPORT	168	7	1	498
347	MCKEESPORT	168	7	2	286
348	MCKEESPORT	168	7	3	348
349	MCKEESPORT	168	7	4	469
350	MCKEESPORT	168	7	5	542
351	MCKEESPORT	168	7	6	485
352	MCKEESPORT	168	7	7	368
353	MCKEESPORT	168	8	1	310
354	MCKEESPORT	168	8	2	507
355	MCKEESPORT	168	8	3	557
356	MCKEESPORT	168	8	4	464
357	MCKEESPORT	168	8	5	541
358	MCKEESPORT	168	8	6	225
359	MCKEESPORT	168	9	1	452
360	MCKEESPORT	168	9	2	582
361	MCKEESPORT	168	9	3	428
362	MCKEESPORT	168	10	1	325
363	MCKEESPORT	168	10	2	326
364	MCKEESPORT	168	11	1	454
365	MCKEESPORT	168	11	2	423

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
366	MCKEESPORT	168	11	3	261
367	MCKEESPORT	168	12	1	314
368	MCKEESPORT	168	12	2	371
369	MCKEESPORT	168	12	3	564
370	MCKEES ROCKS	169	1	1	254
371	MCKEES ROCKS	169	1	2	567
372	MCKEES ROCKS	169	2	1	694
373	MCKEES ROCKS	169	2	2	650
374	MCKEES ROCKS	169	3	1	726
375	MCKEES ROCKS	169	3	2	579
376	MCKEES ROCKS	169	3	3	557
377	MILLVALE	170	0	1	557
378	MILLVALE	170	0	2	444
379	MILLVALE	170	0	3	455
380	MILLVALE	170	0	4	434
381	MILLVALE	170	0	5	566
382	MONROEVILLE	171	1	1	682
383	MONROEVILLE	171	1	2	634
384	MONROEVILLE	171	1	3	813
385	MONROEVILLE	171	1	4	856
386	MONROEVILLE	171	2	1	888
387	MONROEVILLE	171	2	2	963
388	MONROEVILLE	171	2	3	1080
389	MONROEVILLE	171	3	1	1178
390	MONROEVILLE	171	3	2	644
391	MONROEVILLE	171	3	3	978
392	MONROEVILLE	171	3	4	421
393	MONROEVILLE	171	4	1	664
394	MONROEVILLE	171	4	2	1080
395	MONROEVILLE	171	4	3	952
396	MONROEVILLE	171	5	1	609
397	MONROEVILLE	171	5	2	893
398	MONROEVILLE	171	5	3	916
399	MONROEVILLE	171	5	4	659
400	MONROEVILLE	171	6	1	820
401	MONROEVILLE	171	6	2	840
402	MONROEVILLE	171	6	3	1102
403	MONROEVILLE	171	6	4	357
404	MONROEVILLE	171	7	1	1336
405	MONROEVILLE	171	7	2	821
406	MONROEVILLE	171	7	3	616
407	MOON	172	0	1	1413
408	MOON	172	0	2	1821
409	MOON	172	0	3	1472
410	MOON	172	0	4	761
411	MOON	172	0	5	2430
412	MOON	172	0	6	2248
413	MOON	172	0	7	1514
414	MOON	172	0	8	986
415	MOON	172	0	9	1955
416	MOON	172	0	10	767
417	MOON	172	0	11	1321
418	MOON	172	0	12	1017
419	MOON	172	0	13	708
420	MT LEBANON	173	1	1	844
421	MT LEBANON	173	1	2	698
422	MT LEBANON	173	1	3	667
423	MT LEBANON	173	1	4	781
424	MT LEBANON	173	1	5	610
425	MT LEBANON	173	1	6	1080
426	MT LEBANON	173	1	7	785
427	MT LEBANON	173	2	1	969
428	MT LEBANON	173	2	2	600
429	MT LEBANON	173	2	3	716
430	MT LEBANON	173	2	4	532
431	MT LEBANON	173	2	5	589
432	MT LEBANON	173	2	6	552
433	MT LEBANON	173	2	7	629
434	MT LEBANON	173	2	8	1002
435	MT LEBANON	173	3	1	665
436	MT LEBANON	173	3	2	864
437	MT LEBANON	173	3	3	701
438	MT LEBANON	173	3	4	746

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
439	MT LEBANON	173	3	5	703
440	MT LEBANON	173	3	6	457
441	MT LEBANON	173	3	7	830
442	MT LEBANON	173	3	8	326
443	MT LEBANON	173	4	1	806
444	MT LEBANON	173	4	2	905
445	MT LEBANON	173	4	3	732
446	MT LEBANON	173	4	4	677
447	MT LEBANON	173	4	5	619
448	MT LEBANON	173	4	6	672
449	MT LEBANON	173	4	7	811
450	MT LEBANON	173	5	1	626
451	MT LEBANON	173	5	2	466
452	MT LEBANON	173	5	3	602
453	MT LEBANON	173	5	4	596
454	MT LEBANON	173	5	5	626
455	MT LEBANON	173	5	6	477
456	MT LEBANON	173	5	7	796
457	MT LEBANON	173	5	8	998
458	MT OLIVER	174	0	1	724
459	MT OLIVER	174	0	2	767
460	MT OLIVER	174	0	3	488
461	MT OLIVER	174	0	4	338
462	MUNHALL	175	0	1	513
463	MUNHALL	175	0	2	489
464	MUNHALL	175	0	3	525
465	MUNHALL	175	0	4	420
466	MUNHALL	175	0	5	742
467	MUNHALL	175	0	6	712
468	MUNHALL	175	0	7	1150
469	MUNHALL	175	0	8	612
470	MUNHALL	175	0	9	686
471	MUNHALL	175	0	10	508
472	MUNHALL	175	0	11	934
473	MUNHALL	175	0	12	562
474	NEVILLE	176	1	0	276
475	NEVILLE	176	2	0	233
476	NEVILLE	176	3	0	271
477	N BRADDOCK	177	1	1	219
478	N BRADDOCK	177	1	2	523
479	N BRADDOCK	177	1	3	551
480	N BRADDOCK	177	2	1	435
481	N BRADDOCK	177	2	2	587
482	N BRADDOCK	177	3	1	404
483	N BRADDOCK	177	3	2	522
484	N FAYETTE	178	0	1	2023
485	N FAYETTE	178	0	2	2432
486	N FAYETTE	178	0	3	2441
487	N FAYETTE	178	0	4	1070
488	N FAYETTE	178	0	5	2499
489	N VERSAILLES	179	1	1	660
490	N VERSAILLES	179	1	2	664
491	N VERSAILLES	179	2	1	636
492	N VERSAILLES	179	2	2	205
493	N VERSAILLES	179	3	1	507
494	N VERSAILLES	179	3	2	609
495	N VERSAILLES	179	4	1	486
496	N VERSAILLES	179	4	2	412
497	N VERSAILLES	179	5	1	562
498	N VERSAILLES	179	5	2	413
499	N VERSAILLES	179	6	1	637
500	N VERSAILLES	179	6	2	540
501	N VERSAILLES	179	7	0	704
502	OAKDALE	180	0	1	594
503	OAKDALE	180	0	2	442
504	OAKMONT	181	0	1	878
505	OAKMONT	181	0	2	1060
506	OAKMONT	181	0	3	755
507	OAKMONT	181	0	4	873
508	OAKMONT	181	0	5	735
509	OAKMONT	181	0	6	1104
510	OHARA	182	1	1	1070
511	OHARA	182	1	2	654

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
512	OHARA	182	2	1	591
513	OHARA	182	2	2	911
514	OHARA	182	3	1	670
515	OHARA	182	3	2	583
516	OHARA	182	4	1	559
517	OHARA	182	4	2	772
518	OHARA	182	5	1	742
519	OHARA	182	5	2	880
520	OHIO	183	0	1	1410
521	OHIO	183	0	2	1604
522	OHIO	183	0	3	1921
523	GLEN OSBORNE	184	0	1	454
524	PENN HILLS	185	1	1	752
525	PENN HILLS	185	1	2	735
526	PENN HILLS	185	1	3	555
527	PENN HILLS	185	1	4	336
528	PENN HILLS	185	1	5	234
529	PENN HILLS	185	2	1	776
530	PENN HILLS	185	2	2	739
531	PENN HILLS	185	2	3	875
532	PENN HILLS	185	2	4	608
533	PENN HILLS	185	3	1	777
534	PENN HILLS	185	3	2	514
535	PENN HILLS	185	3	3	645
536	PENN HILLS	185	3	4	812
537	PENN HILLS	185	3	5	460
538	PENN HILLS	185	3	6	476
539	PENN HILLS	185	4	1	567
540	PENN HILLS	185	4	2	730
541	PENN HILLS	185	4	3	739
542	PENN HILLS	185	4	4	602
543	PENN HILLS	185	4	5	599
544	PENN HILLS	185	5	1	706
545	PENN HILLS	185	5	2	628
546	PENN HILLS	185	5	3	683
547	PENN HILLS	185	5	4	632
548	PENN HILLS	185	5	5	507
549	PENN HILLS	185	5	6	737
550	PENN HILLS	185	6	1	571
551	PENN HILLS	185	6	2	646
552	PENN HILLS	185	6	3	535
553	PENN HILLS	185	6	4	586
554	PENN HILLS	185	6	5	600
555	PENN HILLS	185	6	6	583
556	PENN HILLS	185	7	1	670
557	PENN HILLS	185	7	2	649
558	PENN HILLS	185	7	3	880
559	PENN HILLS	185	7	4	619
560	PENN HILLS	185	7	5	695
561	PENN HILLS	185	7	6	738
562	PENN HILLS	185	7	7	714
563	PENN HILLS	185	8	1	624
564	PENN HILLS	185	8	2	554
565	PENN HILLS	185	8	3	524
566	PENN HILLS	185	8	4	619
567	PENN HILLS	185	8	5	935
568	PENN HILLS	185	8	6	462
569	PENN HILLS	185	9	1	504
570	PENN HILLS	185	9	2	535
571	PENN HILLS	185	9	3	817
572	PENN HILLS	185	9	4	598
573	PENN HILLS	185	9	5	327
574	PINE	186	0	1	1238
575	PINE	186	0	2	1793
576	PINE	186	0	3	446
577	PINE	186	0	4	1235
578	PINE	186	0	5	1734
579	PINE	186	0	6	621
580	PINE	186	0	7	1443
581	PINE	186	0	8	1110
582	PITCAIRN	187	0	1	947
583	PITCAIRN	187	0	2	513
584	PITCAIRN	187	0	3	655

Ballot Quantity Spreadsheet
by Municipality, Ward and District - General 2018

Ballot #	Municipality	Muni	Ward	District	Total Registered
<u>585</u>	PITTSBURGH	188	1	1	3803
<u>586</u>	PITTSBURGH	188	1	2	664
<u>587</u>	PITTSBURGH	188	2	1	1935
<u>588</u>	PITTSBURGH	188	2	2	1107
<u>589</u>	PITTSBURGH	188	3	1	273
<u>590</u>	PITTSBURGH	188	3	2	683
<u>591</u>	PITTSBURGH	188	3	3	362
<u>592</u>	PITTSBURGH	188	3	4	580
<u>593</u>	PITTSBURGH	188	3	5	448
<u>594</u>	PITTSBURGH	188	4	1	332
<u>595</u>	PITTSBURGH	188	4	2	794
<u>596</u>	PITTSBURGH	188	4	3	361
<u>597</u>	PITTSBURGH	188	4	4	240
<u>598</u>	PITTSBURGH	188	4	5	1120
<u>599</u>	PITTSBURGH	188	4	6	827
<u>600</u>	PITTSBURGH	188	4	7	3051
<u>601</u>	PITTSBURGH	188	4	8	4480
<u>602</u>	PITTSBURGH	188	4	9	709
<u>603</u>	PITTSBURGH	188	4	10	591
<u>604</u>	PITTSBURGH	188	4	11	580
<u>605</u>	PITTSBURGH	188	4	12	667
<u>606</u>	PITTSBURGH	188	4	13	891
<u>607</u>	PITTSBURGH	188	4	14	1661
<u>608</u>	PITTSBURGH	188	4	15	1021
<u>609</u>	PITTSBURGH	188	4	16	1532
<u>610</u>	PITTSBURGH	188	4	17	655
<u>611</u>	PITTSBURGH	188	4	18	500
<u>612</u>	PITTSBURGH	188	4	19	296
<u>613</u>	PITTSBURGH	188	5	1	262
<u>614</u>	PITTSBURGH	188	5	2	361
<u>615</u>	PITTSBURGH	188	5	3	164
<u>616</u>	PITTSBURGH	188	5	4	297
<u>617</u>	PITTSBURGH	188	5	5	236
<u>618</u>	PITTSBURGH	188	5	6	551
<u>619</u>	PITTSBURGH	188	5	7	436
<u>620</u>	PITTSBURGH	188	5	8	446
<u>621</u>	PITTSBURGH	188	5	9	1117
<u>622</u>	PITTSBURGH	188	5	10	452
<u>623</u>	PITTSBURGH	188	5	11	391
<u>624</u>	PITTSBURGH	188	5	12	412
<u>625</u>	PITTSBURGH	188	5	13	269
<u>626</u>	PITTSBURGH	188	5	14	278
<u>627</u>	PITTSBURGH	188	5	15	263
<u>628</u>	PITTSBURGH	188	5	16	214
<u>629</u>	PITTSBURGH	188	5	17	249
<u>630</u>	PITTSBURGH	188	5	18	47
<u>631</u>	PITTSBURGH	188	6	1	913
<u>632</u>	PITTSBURGH	188	6	2	654
<u>633</u>	PITTSBURGH	188	6	3	786
<u>634</u>	PITTSBURGH	188	6	4	582
<u>635</u>	PITTSBURGH	188	6	5	467
<u>636</u>	PITTSBURGH	188	7	1	677
<u>637</u>	PITTSBURGH	188	7	2	1045
<u>638</u>	PITTSBURGH	188	7	3	763
<u>639</u>	PITTSBURGH	188	7	4	1087
<u>640</u>	PITTSBURGH	188	7	5	744
<u>641</u>	PITTSBURGH	188	7	6	686
<u>642</u>	PITTSBURGH	188	7	7	750
<u>643</u>	PITTSBURGH	188	7	8	735
<u>644</u>	PITTSBURGH	188	7	9	812
<u>645</u>	PITTSBURGH	188	7	10	1051
<u>646</u>	PITTSBURGH	188	7	11	1142
<u>647</u>	PITTSBURGH	188	7	12	1002
<u>648</u>	PITTSBURGH	188	7	13	560
<u>649</u>	PITTSBURGH	188	7	14	465
<u>650</u>	PITTSBURGH	188	8	1	364
<u>651</u>	PITTSBURGH	188	8	2	635
<u>652</u>	PITTSBURGH	188	8	3	857
<u>653</u>	PITTSBURGH	188	8	4	754
<u>654</u>	PITTSBURGH	188	8	5	613
<u>655</u>	PITTSBURGH	188	8	6	440
<u>656</u>	PITTSBURGH	188	8	7	814
<u>657</u>	PITTSBURGH	188	8	8	646

Ballot Quantity Spreadsheet
by Municipality, Ward and District - General 2018

Ballot #	Municipality	Muni	Ward	District	Total Registered
658	PITTSBURGH	188	8	9	768
659	PITTSBURGH	188	8	10	691
660	PITTSBURGH	188	8	11	640
661	PITTSBURGH	188	8	12	652
662	PITTSBURGH	188	8	13	543
663	PITTSBURGH	188	9	1	560
664	PITTSBURGH	188	9	2	622
665	PITTSBURGH	188	9	3	609
666	PITTSBURGH	188	9	4	643
667	PITTSBURGH	188	9	5	705
668	PITTSBURGH	188	9	6	588
669	PITTSBURGH	188	9	7	452
670	PITTSBURGH	188	9	8	710
671	PITTSBURGH	188	9	9	638
672	PITTSBURGH	188	10	1	561
673	PITTSBURGH	188	10	2	628
674	PITTSBURGH	188	10	3	703
675	PITTSBURGH	188	10	4	547
676	PITTSBURGH	188	10	5	504
677	PITTSBURGH	188	10	6	512
678	PITTSBURGH	188	10	7	579
679	PITTSBURGH	188	10	8	590
680	PITTSBURGH	188	10	9	538
681	PITTSBURGH	188	10	10	614
682	PITTSBURGH	188	10	11	635
683	PITTSBURGH	188	10	12	554
684	PITTSBURGH	188	10	13	550
685	PITTSBURGH	188	10	14	556
686	PITTSBURGH	188	10	15	356
687	PITTSBURGH	188	10	16	343
688	PITTSBURGH	188	10	17	530
689	PITTSBURGH	188	10	18	560
690	PITTSBURGH	188	10	19	478
691	PITTSBURGH	188	11	1	624
692	PITTSBURGH	188	11	2	598
693	PITTSBURGH	188	11	3	476
694	PITTSBURGH	188	11	4	558
695	PITTSBURGH	188	11	5	565
696	PITTSBURGH	188	11	6	885
697	PITTSBURGH	188	11	7	683
698	PITTSBURGH	188	11	8	619
699	PITTSBURGH	188	11	9	657
700	PITTSBURGH	188	11	10	581
701	PITTSBURGH	188	11	11	679
702	PITTSBURGH	188	11	12	687
703	PITTSBURGH	188	11	13	681
704	PITTSBURGH	188	11	14	601
705	PITTSBURGH	188	11	15	266
706	PITTSBURGH	188	11	16	603
707	PITTSBURGH	188	11	17	708
708	PITTSBURGH	188	11	18	541
709	PITTSBURGH	188	12	1	235
710	PITTSBURGH	188	12	2	315
711	PITTSBURGH	188	12	3	172
712	PITTSBURGH	188	12	4	329
713	PITTSBURGH	188	12	5	170
714	PITTSBURGH	188	12	6	244
715	PITTSBURGH	188	12	7	310
716	PITTSBURGH	188	12	8	215
717	PITTSBURGH	188	12	9	332
718	PITTSBURGH	188	12	10	458
719	PITTSBURGH	188	12	11	472
720	PITTSBURGH	188	12	12	726
721	PITTSBURGH	188	12	13	421
722	PITTSBURGH	188	12	14	346
723	PITTSBURGH	188	12	15	567
724	PITTSBURGH	188	12	16	403
725	PITTSBURGH	188	13	1	293
726	PITTSBURGH	188	13	2	401
727	PITTSBURGH	188	13	3	321
728	PITTSBURGH	188	13	4	320
729	PITTSBURGH	188	13	5	341
730	PITTSBURGH	188	13	6	362

Ballot Quantity Spreadsheet
by Municipality, Ward and District - General 2018

Ballot #	Municipality	Muni	Ward	District	Total Registered
<u>731</u>	PITTSBURGH	188	13	7	396
<u>732</u>	PITTSBURGH	188	13	8	262
<u>733</u>	PITTSBURGH	188	13	9	298
<u>734</u>	PITTSBURGH	188	13	10	212
<u>735</u>	PITTSBURGH	188	13	11	417
<u>736</u>	PITTSBURGH	188	13	12	426
<u>737</u>	PITTSBURGH	188	13	13	293
<u>738</u>	PITTSBURGH	188	13	14	275
<u>739</u>	PITTSBURGH	188	13	15	322
<u>740</u>	PITTSBURGH	188	13	16	336
<u>741</u>	PITTSBURGH	188	13	17	869
<u>742</u>	PITTSBURGH	188	13	18	228
<u>743</u>	PITTSBURGH	188	13	19	489
<u>744</u>	PITTSBURGH	188	14	1	700
<u>745</u>	PITTSBURGH	188	14	2	1472
<u>746</u>	PITTSBURGH	188	14	3	880
<u>747</u>	PITTSBURGH	188	14	4	760
<u>748</u>	PITTSBURGH	188	14	5	813
<u>749</u>	PITTSBURGH	188	14	6	714
<u>750</u>	PITTSBURGH	188	14	7	3746
<u>751</u>	PITTSBURGH	188	14	8	780
<u>752</u>	PITTSBURGH	188	14	9	795
<u>753</u>	PITTSBURGH	188	14	10	688
<u>754</u>	PITTSBURGH	188	14	11	826
<u>755</u>	PITTSBURGH	188	14	12	746
<u>756</u>	PITTSBURGH	188	14	13	794
<u>757</u>	PITTSBURGH	188	14	14	856
<u>758</u>	PITTSBURGH	188	14	15	766
<u>759</u>	PITTSBURGH	188	14	16	517
<u>760</u>	PITTSBURGH	188	14	17	466
<u>761</u>	PITTSBURGH	188	14	18	784
<u>762</u>	PITTSBURGH	188	14	19	611
<u>763</u>	PITTSBURGH	188	14	20	657
<u>764</u>	PITTSBURGH	188	14	21	597
<u>765</u>	PITTSBURGH	188	14	22	733
<u>766</u>	PITTSBURGH	188	14	23	731
<u>767</u>	PITTSBURGH	188	14	24	591
<u>768</u>	PITTSBURGH	188	14	25	946
<u>769</u>	PITTSBURGH	188	14	26	634
<u>770</u>	PITTSBURGH	188	14	27	549
<u>771</u>	PITTSBURGH	188	14	28	539
<u>772</u>	PITTSBURGH	188	14	29	781
<u>773</u>	PITTSBURGH	188	14	30	692
<u>774</u>	PITTSBURGH	188	14	31	1096
<u>775</u>	PITTSBURGH	188	14	32	783
<u>776</u>	PITTSBURGH	188	14	33	807
<u>777</u>	PITTSBURGH	188	14	34	864
<u>778</u>	PITTSBURGH	188	14	35	617
<u>779</u>	PITTSBURGH	188	14	36	847
<u>780</u>	PITTSBURGH	188	14	37	653
<u>781</u>	PITTSBURGH	188	14	38	575
<u>782</u>	PITTSBURGH	188	14	39	601
<u>783</u>	PITTSBURGH	188	14	40	526
<u>784</u>	PITTSBURGH	188	14	41	79
<u>785</u>	PITTSBURGH	188	15	1	617
<u>786</u>	PITTSBURGH	188	15	2	724
<u>787</u>	PITTSBURGH	188	15	3	637
<u>788</u>	PITTSBURGH	188	15	4	644
<u>789</u>	PITTSBURGH	188	15	5	559
<u>790</u>	PITTSBURGH	188	15	6	542
<u>791</u>	PITTSBURGH	188	15	7	697
<u>792</u>	PITTSBURGH	188	15	8	628
<u>793</u>	PITTSBURGH	188	15	9	169
<u>794</u>	PITTSBURGH	188	15	10	620
<u>795</u>	PITTSBURGH	188	15	11	573
<u>796</u>	PITTSBURGH	188	15	12	472
<u>797</u>	PITTSBURGH	188	15	13	456
<u>798</u>	PITTSBURGH	188	15	14	318
<u>799</u>	PITTSBURGH	188	15	15	381
<u>800</u>	PITTSBURGH	188	15	16	543
<u>801</u>	PITTSBURGH	188	15	17	32
<u>802</u>	PITTSBURGH	188	15	18	555
<u>803</u>	PITTSBURGH	188	15	19	516

Ballot Quantity Spreadsheet
by Municipality, Ward and District - General 2018

Ballot #	Municipality	Muni	Ward	District	Total Registered
<u>804</u>	PITTSBURGH	188	16	1	854
<u>805</u>	PITTSBURGH	188	16	2	1211
<u>806</u>	PITTSBURGH	188	16	3	851
<u>807</u>	PITTSBURGH	188	16	4	419
<u>808</u>	PITTSBURGH	188	16	5	586
<u>809</u>	PITTSBURGH	188	16	6	469
<u>810</u>	PITTSBURGH	188	16	7	397
<u>811</u>	PITTSBURGH	188	16	8	181
<u>812</u>	PITTSBURGH	188	16	9	543
<u>813</u>	PITTSBURGH	188	16	10	396
<u>814</u>	PITTSBURGH	188	16	11	405
<u>815</u>	PITTSBURGH	188	17	1	175
<u>816</u>	PITTSBURGH	188	17	2	849
<u>817</u>	PITTSBURGH	188	17	3	630
<u>818</u>	PITTSBURGH	188	17	4	788
<u>819</u>	PITTSBURGH	188	17	5	586
<u>820</u>	PITTSBURGH	188	17	6	451
<u>821</u>	PITTSBURGH	188	17	7	402
<u>822</u>	PITTSBURGH	188	17	8	459
<u>823</u>	PITTSBURGH	188	18	1	568
<u>824</u>	PITTSBURGH	188	18	2	433
<u>825</u>	PITTSBURGH	188	18	3	373
<u>826</u>	PITTSBURGH	188	18	4	467
<u>827</u>	PITTSBURGH	188	18	5	941
<u>828</u>	PITTSBURGH	188	18	6	380
<u>829</u>	PITTSBURGH	188	18	7	448
<u>830</u>	PITTSBURGH	188	18	8	262
<u>831</u>	PITTSBURGH	188	18	9	692
<u>832</u>	PITTSBURGH	188	18	10	80
<u>833</u>	PITTSBURGH	188	18	11	556
<u>834</u>	PITTSBURGH	188	19	1	550
<u>835</u>	PITTSBURGH	188	19	2	692
<u>836</u>	PITTSBURGH	188	19	3	546
<u>837</u>	PITTSBURGH	188	19	4	424
<u>838</u>	PITTSBURGH	188	19	5	431
<u>839</u>	PITTSBURGH	188	19	6	505
<u>840</u>	PITTSBURGH	188	19	7	220
<u>841</u>	PITTSBURGH	188	19	8	584
<u>842</u>	PITTSBURGH	188	19	9	544
<u>843</u>	PITTSBURGH	188	19	10	686
<u>844</u>	PITTSBURGH	188	19	11	516
<u>845</u>	PITTSBURGH	188	19	12	433
<u>846</u>	PITTSBURGH	188	19	13	479
<u>847</u>	PITTSBURGH	188	19	14	562
<u>848</u>	PITTSBURGH	188	19	15	626
<u>849</u>	PITTSBURGH	188	19	16	581
<u>850</u>	PITTSBURGH	188	19	17	559
<u>851</u>	PITTSBURGH	188	19	18	471
<u>852</u>	PITTSBURGH	188	19	19	537
<u>853</u>	PITTSBURGH	188	19	20	510
<u>854</u>	PITTSBURGH	188	19	21	639
<u>855</u>	PITTSBURGH	188	19	22	539
<u>856</u>	PITTSBURGH	188	19	23	614
<u>857</u>	PITTSBURGH	188	19	24	484
<u>858</u>	PITTSBURGH	188	19	25	520
<u>859</u>	PITTSBURGH	188	19	26	469
<u>860</u>	PITTSBURGH	188	19	27	459
<u>861</u>	PITTSBURGH	188	19	28	638
<u>862</u>	PITTSBURGH	188	19	29	526
<u>863</u>	PITTSBURGH	188	19	30	531
<u>864</u>	PITTSBURGH	188	19	31	497
<u>865</u>	PITTSBURGH	188	19	32	514
<u>866</u>	PITTSBURGH	188	19	33	454
<u>867</u>	PITTSBURGH	188	19	34	527
<u>868</u>	PITTSBURGH	188	19	35	504
<u>869</u>	PITTSBURGH	188	19	36	643
<u>870</u>	PITTSBURGH	188	19	37	448
<u>871</u>	PITTSBURGH	188	19	38	537
<u>872</u>	PITTSBURGH	188	20	1	607
<u>873</u>	PITTSBURGH	188	20	2	219
<u>874</u>	PITTSBURGH	188	20	3	692
<u>875</u>	PITTSBURGH	188	20	4	67
<u>876</u>	PITTSBURGH	188	20	5	571

Ballot Quantity Spreadsheet
by Municipality, Ward and District - General 2018

Ballot #	Municipality	Muni	Ward	District	Total Registered
<u>877</u>	PITTSBURGH	188	20	6	540
<u>878</u>	PITTSBURGH	188	20	7	680
<u>879</u>	PITTSBURGH	188	20	8	728
<u>880</u>	PITTSBURGH	188	20	9	203
<u>881</u>	PITTSBURGH	188	20	10	647
<u>882</u>	PITTSBURGH	188	20	11	671
<u>883</u>	PITTSBURGH	188	20	12	935
<u>884</u>	PITTSBURGH	188	20	13	473
<u>885</u>	PITTSBURGH	188	20	14	877
<u>886</u>	PITTSBURGH	188	20	15	923
<u>887</u>	PITTSBURGH	188	20	16	646
<u>888</u>	PITTSBURGH	188	20	17	428
<u>889</u>	PITTSBURGH	188	20	18	513
<u>890</u>	PITTSBURGH	188	21	1	477
<u>891</u>	PITTSBURGH	188	21	2	471
<u>892</u>	PITTSBURGH	188	21	3	674
<u>893</u>	PITTSBURGH	188	21	4	625
<u>894</u>	PITTSBURGH	188	22	1	716
<u>895</u>	PITTSBURGH	188	22	2	670
<u>896</u>	PITTSBURGH	188	22	3	681
<u>897</u>	PITTSBURGH	188	22	4	820
<u>898</u>	PITTSBURGH	188	23	1	1235
<u>899</u>	PITTSBURGH	188	23	2	796
<u>900</u>	PITTSBURGH	188	23	3	407
<u>901</u>	PITTSBURGH	188	24	1	422
<u>902</u>	PITTSBURGH	188	24	2	452
<u>903</u>	PITTSBURGH	188	24	3	370
<u>904</u>	PITTSBURGH	188	24	4	612
<u>905</u>	PITTSBURGH	188	24	5	530
<u>906</u>	PITTSBURGH	188	24	6	546
<u>907</u>	PITTSBURGH	188	25	1	435
<u>908</u>	PITTSBURGH	188	25	2	421
<u>909</u>	PITTSBURGH	188	25	3	562
<u>910</u>	PITTSBURGH	188	25	4	353
<u>911</u>	PITTSBURGH	188	25	5	372
<u>912</u>	PITTSBURGH	188	25	6	389
<u>913</u>	PITTSBURGH	188	25	7	414
<u>914</u>	PITTSBURGH	188	26	1	553
<u>915</u>	PITTSBURGH	188	26	2	476
<u>916</u>	PITTSBURGH	188	26	3	452
<u>917</u>	PITTSBURGH	188	26	4	424
<u>918</u>	PITTSBURGH	188	26	5	491
<u>919</u>	PITTSBURGH	188	26	6	383
<u>920</u>	PITTSBURGH	188	26	7	315
<u>921</u>	PITTSBURGH	188	26	8	646
<u>922</u>	PITTSBURGH	188	26	9	347
<u>923</u>	PITTSBURGH	188	26	10	681
<u>924</u>	PITTSBURGH	188	26	11	738
<u>925</u>	PITTSBURGH	188	26	12	500
<u>926</u>	PITTSBURGH	188	26	13	557
<u>927</u>	PITTSBURGH	188	26	14	588
<u>928</u>	PITTSBURGH	188	26	15	499
<u>929</u>	PITTSBURGH	188	26	16	727
<u>930</u>	PITTSBURGH	188	26	17	202
<u>931</u>	PITTSBURGH	188	27	1	767
<u>932</u>	PITTSBURGH	188	27	2	683
<u>933</u>	PITTSBURGH	188	27	3	572
<u>934</u>	PITTSBURGH	188	27	4	730
<u>935</u>	PITTSBURGH	188	27	5	709
<u>936</u>	PITTSBURGH	188	27	6	757
<u>937</u>	PITTSBURGH	188	27	7	618
<u>938</u>	PITTSBURGH	188	27	8	603
<u>939</u>	PITTSBURGH	188	27	9	610
<u>940</u>	PITTSBURGH	188	27	10	630
<u>941</u>	PITTSBURGH	188	27	11	637
<u>942</u>	PITTSBURGH	188	27	12	532
<u>943</u>	PITTSBURGH	188	27	13	561
<u>944</u>	PITTSBURGH	188	28	1	683
<u>945</u>	PITTSBURGH	188	28	2	523
<u>946</u>	PITTSBURGH	188	28	3	869
<u>947</u>	PITTSBURGH	188	28	4	646
<u>948</u>	PITTSBURGH	188	28	5	673
<u>949</u>	PITTSBURGH	188	28	6	579

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
950	PITTSBURGH	188	28	7	692
951	PITTSBURGH	188	28	8	845
952	PITTSBURGH	188	28	9	613
953	PITTSBURGH	188	28	10	539
954	PITTSBURGH	188	28	11	141
955	PITTSBURGH	188	29	1	619
956	PITTSBURGH	188	29	2	538
957	PITTSBURGH	188	29	3	458
958	PITTSBURGH	188	29	4	538
959	PITTSBURGH	188	29	5	567
960	PITTSBURGH	188	29	6	584
961	PITTSBURGH	188	29	7	669
962	PITTSBURGH	188	29	8	538
963	PITTSBURGH	188	29	9	449
964	PITTSBURGH	188	29	10	530
965	PITTSBURGH	188	29	11	650
966	PITTSBURGH	188	29	12	563
967	PITTSBURGH	188	30	1	409
968	PITTSBURGH	188	30	2	420
969	PITTSBURGH	188	30	3	365
970	PITTSBURGH	188	30	4	615
971	PITTSBURGH	188	30	5	673
972	PITTSBURGH	188	31	1	222
973	PITTSBURGH	188	31	2	425
974	PITTSBURGH	188	31	3	564
975	PITTSBURGH	188	31	4	564
976	PITTSBURGH	188	31	5	694
977	PITTSBURGH	188	31	6	549
978	PITTSBURGH	188	31	7	136
979	PITTSBURGH	188	32	1	502
980	PITTSBURGH	188	32	2	621
981	PITTSBURGH	188	32	3	525
982	PITTSBURGH	188	32	4	358
983	PITTSBURGH	188	32	5	586
984	PITTSBURGH	188	32	6	605
985	PITTSBURGH	188	32	7	523
986	PITTSBURGH	188	32	8	651
987	PLEASANT HL	189	0	1	727
988	PLEASANT HL	189	0	2	541
989	PLEASANT HL	189	0	3	545
990	PLEASANT HL	189	0	4	543
991	PLEASANT HL	189	0	5	732
992	PLEASANT HL	189	0	6	926
993	PLEASANT HL	189	0	7	515
994	PLEASANT HL	189	0	8	523
995	PLEASANT HL	189	0	9	646
996	PLEASANT HL	189	0	10	510
997	PLUM	190	0	1	1769
998	PLUM	190	0	2	590
999	PLUM	190	0	3	962
1000	PLUM	190	0	4	822
1001	PLUM	190	0	5	878
1002	PLUM	190	0	6	1227
1003	PLUM	190	0	7	1236
1004	PLUM	190	0	8	580
1005	PLUM	190	0	9	1094
1006	PLUM	190	0	10	579
1007	PLUM	190	0	11	786
1008	PLUM	190	0	12	1064
1009	PLUM	190	0	13	564
1010	PLUM	190	0	14	739
1011	PLUM	190	0	15	810
1012	PLUM	190	0	16	574
1013	PLUM	190	0	17	701
1014	PLUM	190	0	18	820
1015	PLUM	190	0	19	1894
1016	PLUM	190	0	20	833
1017	PLUM	190	0	21	400
1018	PORT VUE	191	0	1	598
1019	PORT VUE	191	0	2	523
1020	PORT VUE	191	0	3	543
1021	PORT VUE	191	0	4	694
1022	RANKIN	192	1	0	370

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
1023	RANKIN	192	2	0	407
1024	RANKIN	192	3	0	603
1025	RESERVE	193	1	0	522
1026	RESERVE	193	2	0	568
1027	RESERVE	193	3	0	508
1028	RESERVE	193	4	0	852
1029	RICHLAND	194	0	1	1059
1030	RICHLAND	194	0	2	1130
1031	RICHLAND	194	0	3	1151
1032	RICHLAND	194	0	4	1125
1033	RICHLAND	194	0	5	1002
1034	RICHLAND	194	0	6	1069
1035	RICHLAND	194	0	7	1105
1036	RICHLAND	194	0	8	907
1037	ROBINSON	195	0	1	1611
1038	ROBINSON	195	0	2	958
1039	ROBINSON	195	0	3	667
1040	ROBINSON	195	0	4	749
1041	ROBINSON	195	0	5	609
1042	ROBINSON	195	0	6	891
1043	ROBINSON	195	0	7	1383
1044	ROBINSON	195	0	8	1564
1045	ROBINSON	195	0	9	2434
1046	ROSS	196	1	1	733
1047	ROSS	196	1	2	626
1048	ROSS	196	1	3	491
1049	ROSS	196	1	4	845
1050	ROSS	196	2	1	1178
1051	ROSS	196	2	2	934
1052	ROSS	196	2	3	719
1053	ROSS	196	3	1	668
1054	ROSS	196	3	2	668
1055	ROSS	196	3	3	537
1056	ROSS	196	3	4	706
1057	ROSS	196	4	1	876
1058	ROSS	196	4	2	777
1059	ROSS	196	4	3	713
1060	ROSS	196	4	4	696
1061	ROSS	196	5	1	612
1062	ROSS	196	5	2	414
1063	ROSS	196	5	3	783
1064	ROSS	196	5	4	747
1065	ROSS	196	6	1	515
1066	ROSS	196	6	2	959
1067	ROSS	196	6	3	654
1068	ROSS	196	6	4	579
1069	ROSS	196	7	1	601
1070	ROSS	196	7	2	553
1071	ROSS	196	7	3	697
1072	ROSS	196	7	4	607
1073	ROSS	196	8	1	1580
1074	ROSS	196	8	2	529
1075	ROSS	196	8	3	542
1076	ROSS	196	9	1	796
1077	ROSS	196	9	2	965
1078	ROSS	196	9	3	816
1079	ROSSLYN FARM	197	0	1	389
1080	SCOTT	198	1	1	572
1081	SCOTT	198	1	2	654
1082	SCOTT	198	2	1	478
1083	SCOTT	198	2	2	671
1084	SCOTT	198	3	1	507
1085	SCOTT	198	3	2	708
1086	SCOTT	198	4	1	765
1087	SCOTT	198	4	2	616
1088	SCOTT	198	5	1	588
1089	SCOTT	198	5	2	744
1090	SCOTT	198	6	1	678
1091	SCOTT	198	6	2	799
1092	SCOTT	198	7	1	927
1093	SCOTT	198	7	2	618
1094	SCOTT	198	8	1	511
1095	SCOTT	198	8	2	1013

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
1096	SCOTT	198	9	1	304
1097	SCOTT	198	9	2	323
1098	SEWICKLEY	199	1	0	977
1099	SEWICKLEY	199	2	1	523
1100	SEWICKLEY	199	2	2	609
1101	SEWICKLEY	199	3	0	1046
1102	SEWICKLEY HT	200	0	1	773
1103	SEWICKLEY HL	201	0	1	538
1104	SHALER	202	1	1	482
1105	SHALER	202	1	2	509
1106	SHALER	202	1	3	587
1107	SHALER	202	1	4	582
1108	SHALER	202	1	5	657
1109	SHALER	202	2	1	1049
1110	SHALER	202	2	2	756
1111	SHALER	202	2	3	594
1112	SHALER	202	2	4	744
1113	SHALER	202	2	5	357
1114	SHALER	202	3	1	589
1115	SHALER	202	3	2	595
1116	SHALER	202	3	3	585
1117	SHALER	202	3	4	710
1118	SHALER	202	3	5	686
1119	SHALER	202	4	1	828
1120	SHALER	202	4	2	463
1121	SHALER	202	4	3	663
1122	SHALER	202	4	4	648
1123	SHALER	202	4	5	515
1124	SHALER	202	5	1	723
1125	SHALER	202	5	2	675
1126	SHALER	202	5	3	535
1127	SHALER	202	5	4	355
1128	SHALER	202	5	5	754
1129	SHALER	202	6	1	634
1130	SHALER	202	6	2	677
1131	SHALER	202	6	3	558
1132	SHALER	202	6	4	324
1133	SHALER	202	6	5	535
1134	SHALER	202	7	1	589
1135	SHALER	202	7	2	790
1136	SHALER	202	7	3	644
1137	SHALER	202	7	4	1006
1138	SHARPSBURG	203	0	1	599
1139	SHARPSBURG	203	0	2	840
1140	SHARPSBURG	203	0	3	858
1141	S FAYETTE	204	0	1	564
1142	S FAYETTE	204	0	2	1084
1143	S FAYETTE	204	0	3	1555
1144	S FAYETTE	204	0	4	852
1145	S FAYETTE	204	0	5	877
1146	S FAYETTE	204	0	6	1210
1147	S FAYETTE	204	0	7	631
1148	S FAYETTE	204	0	8	1486
1149	S FAYETTE	204	0	9	628
1150	S FAYETTE	204	0	10	770
1151	S FAYETTE	204	0	11	952
1152	S FAYETTE	204	0	12	492
1153	SOUTH PARK	205	0	1	729
1154	SOUTH PARK	205	0	2	750
1155	SOUTH PARK	205	0	3	611
1156	SOUTH PARK	205	0	4	454
1157	SOUTH PARK	205	0	5	743
1158	SOUTH PARK	205	0	6	849
1159	SOUTH PARK	205	0	7	1109
1160	SOUTH PARK	205	0	8	515
1161	SOUTH PARK	205	0	9	808
1162	SOUTH PARK	205	0	10	851
1163	SOUTH PARK	205	0	11	599
1164	SOUTH PARK	205	0	12	565
1165	SOUTH PARK	205	0	13	1048
1166	S VERSAILLES	206	0	1	212
1167	SPRINGDAL BR	207	0	1	705
1168	SPRINGDAL BR	207	0	2	593

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
1169	SPRINGDAL BR	207	0	3	536
1170	SPRINGDAL BR	207	0	4	434
1171	SPRINGDAL TP	208	0	1	1163
1172	STOWE	209	1	0	413
1173	STOWE	209	2	1	180
1174	STOWE	209	2	2	698
1175	STOWE	209	3	0	380
1176	STOWE	209	4	1	374
1177	STOWE	209	4	2	363
1178	STOWE	209	5	0	485
1179	STOWE	209	6	0	447
1180	STOWE	209	7	0	298
1181	STOWE	209	8	0	435
1182	STOWE	209	9	0	316
1183	SWISSVALE	210	0	1	918
1184	SWISSVALE	210	0	2	759
1185	SWISSVALE	210	0	3	673
1186	SWISSVALE	210	0	4	621
1187	SWISSVALE	210	0	5	746
1188	SWISSVALE	210	0	6	398
1189	SWISSVALE	210	0	7	663
1190	SWISSVALE	210	0	8	738
1191	SWISSVALE	210	0	9	668
1192	SWISSVALE	210	0	10	244
1193	SWISSVALE	210	0	11	676
1194	TARENTUM	211	1	1	682
1195	TARENTUM	211	1	2	473
1196	TARENTUM	211	2	0	534
1197	TARENTUM	211	3	1	305
1198	TARENTUM	211	3	2	587
1199	THORNBURG	212	0	1	437
1200	THORNBURG	212	0	2	567
1201	TRAFFORD	213	0	1	54
1202	TURTLE CREEK	214	1	1	842
1203	TURTLE CREEK	214	1	2	412
1204	TURTLE CREEK	214	2	1	684
1205	TURTLE CREEK	214	2	2	325
1206	TURTLE CREEK	214	3	1	594
1207	TURTLE CREEK	214	3	2	474
1208	UP ST CLAIR	215	1	1	697
1209	UP ST CLAIR	215	1	2	840
1210	UP ST CLAIR	215	1	3	1018
1211	UP ST CLAIR	215	1	4	829
1212	UP ST CLAIR	215	2	1	968
1213	UP ST CLAIR	215	2	2	697
1214	UP ST CLAIR	215	2	3	1033
1215	UP ST CLAIR	215	2	4	546
1216	UP ST CLAIR	215	3	1	1040
1217	UP ST CLAIR	215	3	2	863
1218	UP ST CLAIR	215	3	3	1173
1219	UP ST CLAIR	215	4	1	979
1220	UP ST CLAIR	215	4	2	778
1221	UP ST CLAIR	215	4	3	601
1222	UP ST CLAIR	215	4	4	1037
1223	UP ST CLAIR	215	5	1	1317
1224	UP ST CLAIR	215	5	2	812
1225	UP ST CLAIR	215	5	3	857
1226	VERONA	216	0	1	511
1227	VERONA	216	0	2	586
1228	VERONA	216	0	3	596
1229	VERSAILLES	217	0	1	542
1230	VERSAILLES	217	0	2	476
1231	WALL	218	0	1	324
1232	WEST DEER	219	0	1	1345
1233	WEST DEER	219	0	2	582
1234	WEST DEER	219	0	3	809
1235	WEST DEER	219	0	4	773
1236	WEST DEER	219	0	5	839
1237	WEST DEER	219	0	6	762
1238	WEST DEER	219	0	7	1716
1239	WEST DEER	219	0	8	1425
1240	W ELIZABETH	220	0	1	263
1241	W HOMESTEAD	221	0	1	493

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
1242	W HOMESTEAD	221	0	2	455
1243	W HOMESTEAD	221	0	3	523
1244	WEST MIFFLIN	222	0	1	708
1245	WEST MIFFLIN	222	0	2	485
1246	WEST MIFFLIN	222	0	3	481
1247	WEST MIFFLIN	222	0	4	439
1248	WEST MIFFLIN	222	0	5	851
1249	WEST MIFFLIN	222	0	6	319
1250	WEST MIFFLIN	222	0	7	750
1251	WEST MIFFLIN	222	0	8	556
1252	WEST MIFFLIN	222	0	9	785
1253	WEST MIFFLIN	222	0	10	528
1254	WEST MIFFLIN	222	0	11	778
1255	WEST MIFFLIN	222	0	12	992
1256	WEST MIFFLIN	222	0	13	572
1257	WEST MIFFLIN	222	0	14	874
1258	WEST MIFFLIN	222	0	15	587
1259	WEST MIFFLIN	222	0	16	1196
1260	WEST MIFFLIN	222	0	17	558
1261	WEST MIFFLIN	222	0	18	773
1262	WEST MIFFLIN	222	0	19	643
1263	WEST MIFFLIN	222	0	20	468
1264	WEST MIFFLIN	222	0	21	648
1265	WEST VIEW	223	0	1	679
1266	WEST VIEW	223	0	2	759
1267	WEST VIEW	223	0	3	579
1268	WEST VIEW	223	0	4	585
1269	WEST VIEW	223	0	5	749
1270	WEST VIEW	223	0	6	696
1271	WEST VIEW	223	0	7	646
1272	WHITAKER	224	0	1	427
1273	WHITAKER	224	0	2	386
1274	WHITEHALL	225	0	1	520
1275	WHITEHALL	225	0	2	586
1276	WHITEHALL	225	0	3	661
1277	WHITEHALL	225	0	4	672
1278	WHITEHALL	225	0	5	685
1279	WHITEHALL	225	0	6	1027
1280	WHITEHALL	225	0	7	442
1281	WHITEHALL	225	0	8	795
1282	WHITEHALL	225	0	9	545
1283	WHITEHALL	225	0	10	606
1284	WHITEHALL	225	0	11	632
1285	WHITEHALL	225	0	12	552
1286	WHITEHALL	225	0	13	441
1287	WHITEHALL	225	0	14	596
1288	WHITEHALL	225	0	15	993
1289	WHITEHALL	225	0	16	604
1290	WHITE OAK	226	0	1	732
1291	WHITE OAK	226	0	2	800
1292	WHITE OAK	226	0	3	867
1293	WHITE OAK	226	0	4	746
1294	WHITE OAK	226	0	5	794
1295	WHITE OAK	226	0	6	725
1296	WHITE OAK	226	0	7	1054
1297	WILKINS	227	1	1	778
1298	WILKINS	227	1	2	648
1299	WILKINS	227	1	3	805
1300	WILKINS	227	1	4	641
1301	WILKINS	227	1	5	455
1302	WILKINS	227	2	1	634
1303	WILKINS	227	2	2	905
1304	WILKINSBURG	228	1	1	1005
1305	WILKINSBURG	228	1	2	752
1306	WILKINSBURG	228	1	3	484
1307	WILKINSBURG	228	1	4	607
1308	WILKINSBURG	228	1	5	535
1309	WILKINSBURG	228	1	6	1007
1310	WILKINSBURG	228	2	1	841
1311	WILKINSBURG	228	2	2	970
1312	WILKINSBURG	228	2	3	847
1313	WILKINSBURG	228	2	4	512
1314	WILKINSBURG	228	2	5	780

Ballot Quantity Spreadsheet
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Ballot #	Municipality	Muni	Ward	District	Total Registered
1315	WILKINSBURG	228	3	1	747
1316	WILKINSBURG	228	3	2	659
1317	WILKINSBURG	228	3	3	819
1318	WILKINSBURG	228	3	4	1034
1319	WILKINSBURG	228	3	5	1066
1320	WILKINSBURG	228	3	6	541
1321	WILMERDING	229	0	1	524
1322	WILMERDING	229	0	2	721
1323	S FAYETTE	204	0	3	
1324	S FAYETTE	204	0	5	
	Totals:				925,910

BALLOT	MUNICIPALITY	MUNI	WARD	DISTRICT	TOTAL REGISTERED	RANDOM SAMPLE
1236	WEST DEER	219	0	5	839	1236