COUNTY OF ALLEGHENY

RICH FITZGERALD
COUNTY EXECUTIVE

2015 Municipal Election Experience Report

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Overview

Of the 853,725 registered voters in Allegheny County, 222,145 – or 26.02%, voted at the past November 3, 2015 Municipal Election. This level of voter participation is consistent with turnout levels in recent past elections of this type.

A total of 5,593 absentee ballots were issued and 184 provisional ballots were cast. Of the provisional ballots, 43 were fully counted, 77 partially counted and 64 were not counted. The majority of those not counted were due to the fact that the provisional voter was not a registered voter.

Over 170,205 "emergency" paper ballots were supplied to this County's 1,319 polling places in the event that at least one-half of the voting machines in a precinct were non-functional. 77 emergency ballots were used in 8 voting districts. 17 of the emergency ballots were used due to the fact that the Judge of Election never reported to the assigned voting district and 28 were used due to a power failure at the polling place. The remaining 33 were used among 5 election districts due to difficulties in printing the "zero tape". All zero tapes were printed in these districts by 7:43 a.m.

1,013 candidates appeared on the ballot and a total of over 300 distinct ballot configurations were created to accommodate the State, County and local municipal office contests. 857 candidates were issued Certificates of Election, of which 62 were issued to successful write-in candidates. Home Rule Charter amendment referendum questions appeared on the ballot in the municipalities of Bethel Park and Mt. Lebanon.

Accessibility

All 1,319 polling places in this County have been classified as "accessible" pursuant to the standards promulgated by the Secretary of the Commonwealth of Pennsylvania.

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 for the previous three times that this process has been employed, no instance of uncertified software has been detected. Copies of the reports prepared for the November 3, 2015 Municipal Election are found on our website.

Logic and Accuracy Testing

Extensive automated and manual Logic and Accuracy Testing (L&A) was performed. Automated L&A was performed on all 4,228 iVotronic voting machines deployed on Election Day. Manual L&A was also performed for each of the approximately 300 different ballot configurations. Those parties and organizations permitted by Pennsylvania law to be present during this process were duly notified.

The "test deck" comprised of over 18,529 ballots, containing ballots for every candidate and question, was used to verify that the 5 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 Election day as well as before final certification of the election results. In both tests, the ballot scanners produced an accurate count. Public notice of the pre-election test was given, as required by law.

Network Security

Also following past practice, an independent third-party review was conducted both prior to and after the past Election to assure that our election network was isolated and not connected to any external network. Copies of the report produced by "Solutionary" is found on our website.

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. Once again, the parallel testing performed at the November 3, 2015 Municipal Election indicated that the randomly-selected voting devices recorded and counted all votes completely and correctly. A copy of the report issued by Baker Tilly is found on our website.

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ALLEGHENY COUNTY PRE November 3, 2015 Municipal Primary 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-000226

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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 3, 2015 Municipal Primary Election. The devices to be audited were randomly selected from the counties 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 that 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 14, 2015.

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 protocol to verify that before the November 3, 2015 Municipal Primary 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 14, 2015 ; 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 14, 2015, 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.

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ALLEGHENY COUNTY PRE NOVEMBER 3, 2015 MUNICIPAL PRIMARY ELECTION

ES&S IVOTRONICS FIRMWARE VERIFICATION STUDY

FINAL REPORT

Developed for:

ALLEGHENY COUNTY
DIVISION OF ELECTIONS
STATE OF PENNSYLVANIA

Document Number GCG-AC-iVo-FRPT-000225

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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 3, 2015 Municipal Primary Election. The devices to be audited were randomly selected from the counties 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 that 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'* process 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 14, 2015.

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 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 has been 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 and configure the verification environment and the parameters associated with each verification cycle;
2. Apply the protocol to verify that before the November 3, 2015 Municipal Primary Election that 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 comprised of verification on performed one (1) ADA (American Disabilities Act) compliant iVotronic and nineteen (19) non-compliant DRE units;
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 reports of the verification activities, the results of all verification executions, and conclusions and recommendations in Executive Summary and Final Report formats.

1.2 Purpose

This document is the Allegheny County pre-November 3, 2015 Municipal Primary Election ES&S iVotronic Firmware Verification Study Final Report. This report was developed as a review of the specific technical details, the project's results, and findings.

1.3 Statement of Independence

As an election validation and verification business practice, GRP Consulting Group is technically, managerially, and financially independent from all electronic voting systems vendors as specified in *IEEE 1012-2004* Annex C.

The consultants of GRP Consulting Group shall maintain an independent decisional relationship between its clients, affiliates, or other organizations so that GRP Consulting Group's capacity to perform services objectively and without bias is not adversely affected.

GRP Consulting Group shall maintain independence in fact and in appearance. The validation and verification environment, whether on-site at GRP Consulting Group facilities or partner organizations or at a client's site, shall be organized so that staff members are not subjected to undue pressure or inducement that might influence their judgment or the results of their work.

1.4 References

1. iVotronic Software Verification Protocols: Allegheny County Proposals; Collin Lynch, President, VoteAllegheny; 9/28/2008
2. Firmware vs. Uploaded Firmware Chip Data Comparison Procedure; Election Systems and Software, Inc.; 1/18/2008
3. Allegheny County iVotronic Firmware Verification Protocol; Geoffrey R. Pollich, SysTest Labs, 10/14/08

1.5 Systems Information

Items identified in Table 1 reflect firmware deployed at the Allegheny County Division of Elections warehouse on September 14, 2015:

Table 1 - Matrix of Firmware

Vendor	System	Description	Software/ Firmware Version
ES&S	iVotronic	Direct Record Entry	9.1.4.1
ES&S	iVotronic	ADA Compliant DRE	9.1.4.1

Equipment identified in Table 2 reflects iVotronic hardware selected at the Allegheny Division of Elections warehouse on September 14, 2015:

Table 2 - Matrix of Hardware

iVotronic Serial Number	Microchip Manufacturer	Microchip Part Number
-> V5184218	Spansion	0612FBE-G
-> V5186925	Spansion	0603FRD-G
-> V5184681	Spansion	0612FBE-G
-> V5180028	Spansion	0603FRC-G
-> V5176054	Spansion	0603FRC-G
-> V5182063	Spansion	0603FRC-G
-> V5182201	Spansion	0612EBA-G
-> V5182999	Spansion	0603FRC-G
-> V5186495	Spansion	0612FBE-G

iVotronic Serial Number	Microchip Manufacturer	Microchip Part Number
-> V5181572	Spansion	0603FBC-G
-> V5183170	Spansion	0612FBC-G
-> V5177048	Spansion	0603FRC-G
-> V5177589	Spansion	0603FRC-G
-> V5183860	Spansion	0612GBA-G
-> V5187171	Spansion	0609ERB-G
-> V5184183	Spansion	0612FBE-G
-> V5181316	Spansion	0612EBA-G
-> V5182346	Spansion	0603FRC-G
-> V5182562	Spansion	0612GBA-G
-> V5172691	Spansion	0446FBC-G

Table 3 - Matrix of Testing Hardware

Description	Manufacturer	Model
EEPROM Device Programmer	Logical Devices, Inc.	ChipMaster 6000XPu
Flash Module Programmer Adapter	Logical Devices, Inc.	Version 1
ESD Static Mat with wrist strap	N/A	N/A
#10 Tamper Proof Torx screwdriver	N/A	N/A
Small flathead screwdriver	N/A	N/A

Table 4 - Matrix of Testing Software

Description	Manufacturer	Software Version
Software- CHIPMASTER 6000 XPU for USB	Logical Devices, Inc	ChipMaster 6000Xpu for USB
WinLink2	Logical Devices, Inc	v. 01.51.00
Hex Editor	Xvi32	v. 2.5
Microsoft Visual C++, Binary Editor	Microsoft Corporation	Version 6.0
SHA_V Sha-1 and other SHA segments Hash Code Identification	Microsoft File Checksum Integrity Verifier (FCIV) **http://support.microsoft.com/kb/841290**	Version 2.05

2. ALLEGHENY COUNTY PRE NOVEMBER 3, 2015 MUNICIPAL PRIMARY IVOTRONIC FIRMWARE VERIFICATION PROCESS; PREFORMED SEPTEMBER 14, 2015

To establish a best practice protocol and verification procedure, Geoffrey Pollich, consultant with GRP Consulting Group, reviewed and analyzed the *VoteAllegheny: iVotronic Software Verification Protocols: Allegheny County Proposals*, the ES&S *Firmware vs. Uploaded Firmware Chip Data Comparison Procedure*, and NIST Standard Lab Procedures best practices. It was from these primary sources that the 'Allegheny County iVotronic Firmware Verification Protocol' was established.

2.1 Present during the September 14, 2015 Verification Process:

GRP Consulting Group:

Geoffrey Pollich – GRP Consulting Group, Principle Consultant

Allegheny County Division of Elections:

Mark Wolosik – Elections Division Manager
John O'Brien – Manager of Voting Machines
Elizabeth Dell – Business Analyst, Division of Computer Services

Election Advocacy Observers:

Ron Bandes – VoteAllegheny

2.2 Sample Size Randomization Procedure

The sample size must be carefully selected due the need to open the warranty seal over the lower left chassis screw in order to conduct the firmware verification. When this seal is broken, the DRE must be inspected and tested by ES&S. If a larger sample of machines were inspected per election, the availability of certified election machines may not satisfy the needs of individual precincts for federal, state, county, municipal and special issue elections held over the calendar year. It is also unclear if a larger sample sizes would yield a more valid result than the present sample size appropriately randomized.

Ron Brandes of VoteAllegheny along with Division of Election employees initiated the machine-selection effort to establish 20 randomly chosen iVotronic units for testing. Mark Wolosik, Elections Division Manager, John O'Brien, Manager of Voting Machines, Elizabeth Dell, Business Analyst, Division of Computer Services, and Geoffrey Pollich of the GRP Consulting Group believed the selection was consistent with a valid random selection process and was free of any and all mathematical bias.

3. Allegheny County Pre November 3, 2015 Municipal Primary Election ES&S iVotronic Firmware Verification Study Results

3.1 September 14, 2015 Results

08:30 – 9:30 am GRP Consulting Group and observers arrive at the Allegheny County warehouse facility to set up the verification work area; the Observer launches their randomization process

1. GRP Consulting Group unboxed the CHIPMASTER 6000 XPU EEPROM Programmer; the analyst setup the device to a GRP Consulting Group laptop; County Employees, and the Observer brought 20 randomly picked iVotronics into the verification work area to begin the firmware verification procedure.

09:31 Verify firmware procedure for iVotronic DRE #1

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5184218 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

09:34 Verify firmware procedure for iVotronic DRE #2

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5186925 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display

09:37 Verify firmware procedure for iVotronic DRE #3

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5184681 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

09:41 Verify firmware procedure for iVotronic DRE #4

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5180028 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

09:44 Verify firmware procedure for iVotronic DRE #5

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5176954 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display

09:49 Verify firmware procedure for iVotronic DRE #6

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5182063 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

09:52 Verify firmware procedure for iVotronic DRE #7

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5182201 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

09:55 Verify firmware procedure for iVotronic DRE #8

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5182999 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

09:59 Verify firmware procedure for iVotronic DRE #9

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5186495 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:03 Verify firmware procedure for iVotronic DRE #10

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5181572 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:05 Verify firmware procedure for iVotronic DRE #11

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5183170 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:08 Verify firmware procedure for iVotronic DRE #12

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n V5177048 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:12 Verify firmware procedure for iVotronic DRE #13

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5177589 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was an Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The AMD firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:16 Verify firmware procedure for iVotronic DRE #14

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5183860 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:19 Verify firmware procedure for iVotronic DRE #15

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5187171 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:22 Verify firmware procedure for iVotronic DRE #16

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->5184183 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:25 Verify firmware procedure for iVotronic DRE #17

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5181316 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code:
   (F6A8D4570988E2D159398503144E64D48F0CC69F).
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:27 Verify firmware procedure for iVotronic DRE #18

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5182346 was selected.
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

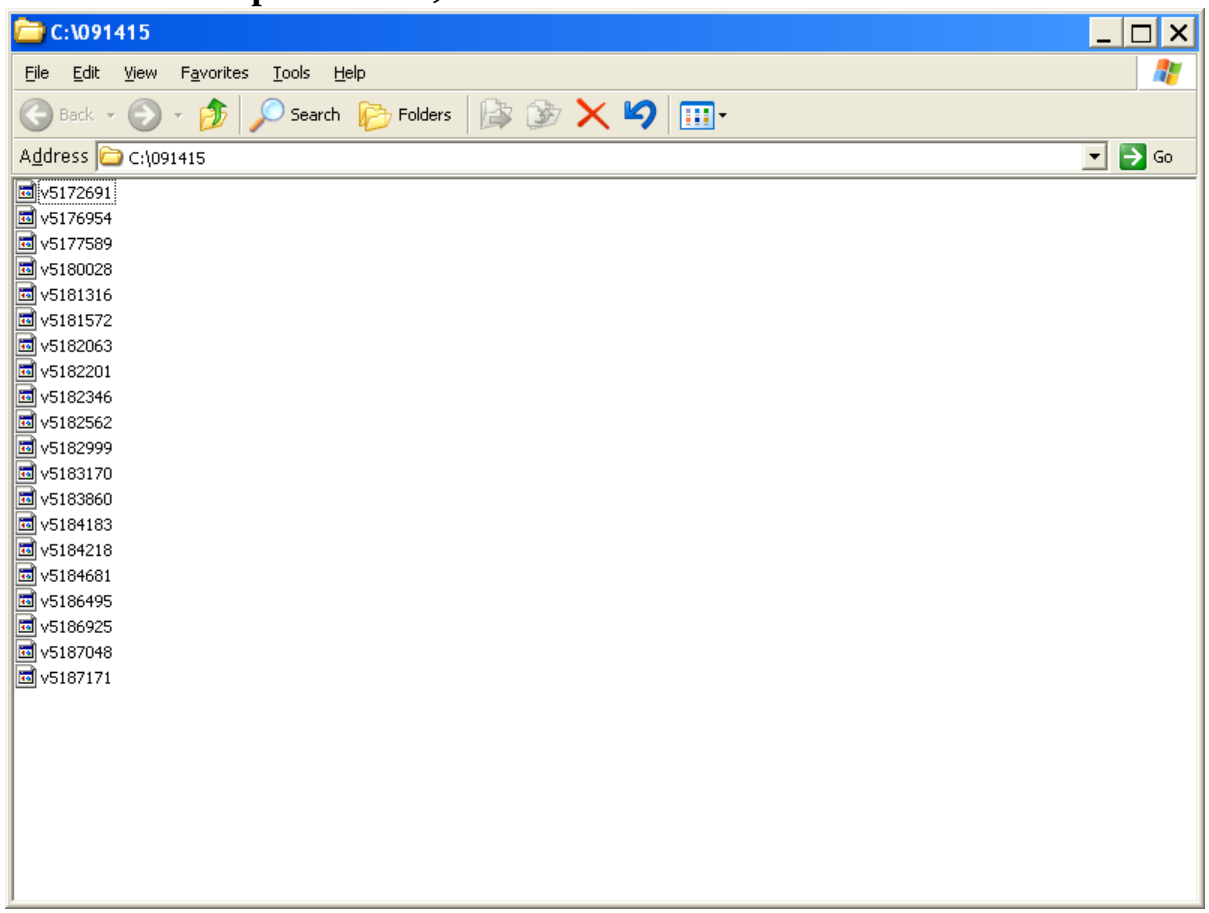
10:33 Verify firmware procedure for iVotronic DRE #19

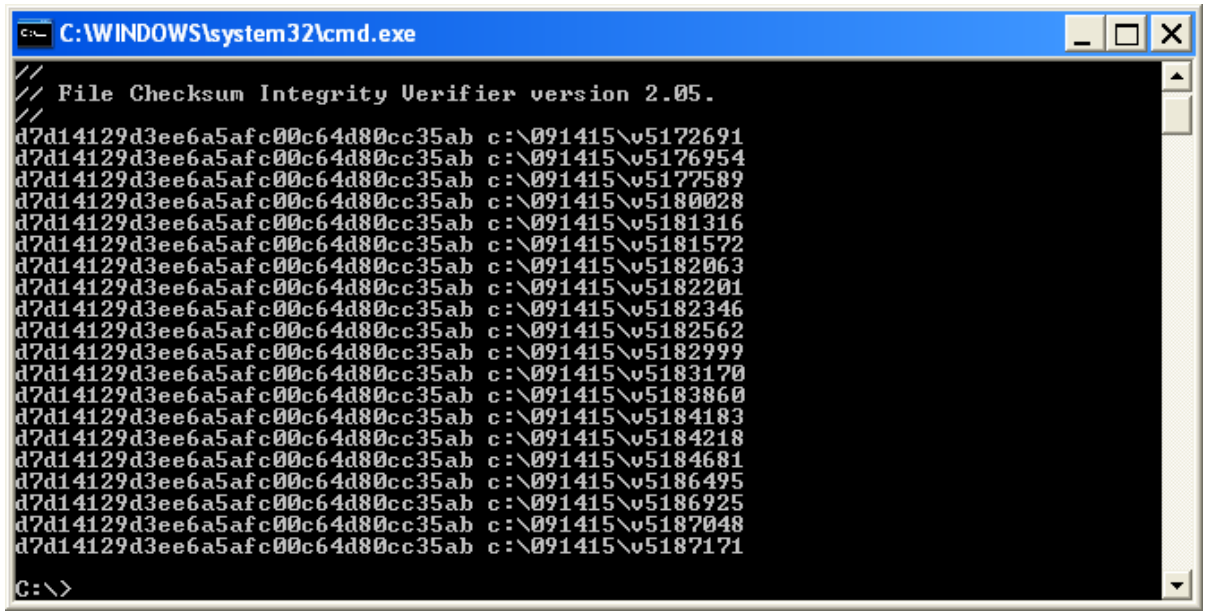
1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n ->V5182562 was selected. Perform iVotronic Firmware Verify Procedure.
2. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
3. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
4. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

10:36 Verify firmware procedure for iVotronic DRE #20

1. Randomly select an iVotronic DRE from the warehouse for the firmware verification procedure; s/n V51772691 was selected. (*ADA Device*)
2. Perform iVotronic Firmware Verify Procedure.
3. Upon opening of iVotronic DRE, the removable CMOS was a Spansion CMOS part S29AL016D90TF101, and the CHIPMASTER 6000 XPU EEPROM programmer was used to read and save the binary firmware code.
4. The Spansion firmware chip was successfully read into the PC and the hash code generated did match the trusted build hash code: **(F6A8D4570988E2D159398503144E64D48F0CC69F).**
5. The iVotronic DRE was closed and powered by County employees to verify that the DRE was working properly with the correct firmware date, time, and version number showing on the initial display.

3.2 September 14, 2015 Collective Firmware Files





4. FINDINGS

GRP Consulting Group was engaged by the Allegheny Division of Elections on site at 901 Pennsylvania Ave., Pittsburgh, PA on September 14, 2015; 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 14, 2015, the GRP Consulting Group analyst completed the verification process of the firmware residing on twenty (20) Allegheny County ES&S iVotronics Direct-Recording Entry electronic voting machines chosen at random from the population of approximately 4700 iVotronic Direct-Recording Entry (DRE) electronic voting machines. It is the findings of GRP Consulting Group that the firmware version 9.1.4.1 residing on the twenty (20) randomly chosen DRE electronic voting machines, do represent the population, and furthermore; 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 in Denver, Colorado and in escrow by the Pennsylvania Secretary of State in Harrisburg, PA.

5. APPENDIX A - TERMS AND ABBREVIATIONS

These terms and abbreviations will be used throughout this document:

Table 2 - Matrix of Terms & Abbreviations

Terms & Abbreviation	Description
Binary	The system of representing text or computer processor instructions by the use of a two digit number system. This system is composed of only the number zero, representing the off state, and the number one, representing the on state, combined in groups of 8. These groups of 8 bits can represent up to 256 different values and can correspond to a variety of different symbols, letters or instructions.
DOE	Division of Elections
DRE	Direct-Recording Entry - touch screen voting device
Firmware	Firmware is the programmable content of a hardware device, which can consist of machine language instructions for a processor or configuration settings for a fixed-function device, gate array or programmable logic device. A common feature of firmware is that it can be updated post-manufacturing, either electronically, or by replacing a storage medium such as a socketed memory chip.
Hardware	Hardware refers to the physical artifacts of a technology such as the physical components of a computer system
Hash Code	A hash function is a well-defined procedure or mathematical function for turning binary code into a relatively small integer that serves as a unique mathematical footprint.
ITA	Independent Test Authority
iVotronic	ES&S touch screen voting terminal
Protocol	Rules governing process conduct to a written instruction.
Trusted Build	Unaltered, true, and certified complied binary code.
SHA-1	Algorithm used to define the hash code value.
Software	Computer software is human interfacing computer programs, procedures and documentation that perform defined task on a computer system. The term includes application software that performs productive tasks for users, system software such as operating systems, which interface with hardware to provide the necessary services for application software.
Voting System Components	The units of equipment (server platform, DRE voting terminal, ballot scan device) when used together create a voting system.
Verification	The act of reviewing, inspecting, and/or testing to establish and document

Terms & Abbreviation	Description
	that a product, service, or system meets the regulatory, standard, or specification requirements.

End of Report

County of Allegheny

2015 Pre/Post-Election Air Gap Analysis of Election Tabulation Network

Research and Recommendations Provided by:

a network infrastructure company

Jacob Winkle
Senior Consultant
jwinkle@s4nets.com
412.660.0867

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Overview

The County of Allegheny has engaged solutions4networks to perform an "Air Gap" analysis of their elections tabulation network located in Pittsburgh, PA. solutions4networks has been tasked to verify the tabulation network is a stand-alone, isolated network and to assess the network'-s vulnerability to external access and/or tampering. In addition to the network, solutions4networks has been asked to assess and document the general physical security of the warehouse building.

An on site visit was made by Jacob Winkle of solutions4networks on November 2, 2015. The purpose of this document is to report the results of the assessment, identify security concerns and to make recommendations for the remediation of these concerns. A post-Election onsite visit was made on November 5, 2015. This report covers both the Pre-Election assessment and the Post-Election review. Post-Election Review updates will be noted in red.

Site Contact

Elizabeth Dell
Elizabeth.Dell@AlleghenyCounty.US
412-350-6059

901 Pennsylvania Avenue
Pittsburgh, PA 15233

General Physical Security/Building Access

Physical Security/Building Access - No Issues Found

There are several suites within the warehouse and there were no outside signs, which identified the County of Allegheny building space. The building phone at the main entrance also did not have any entries to dial for the County of Allegheny.

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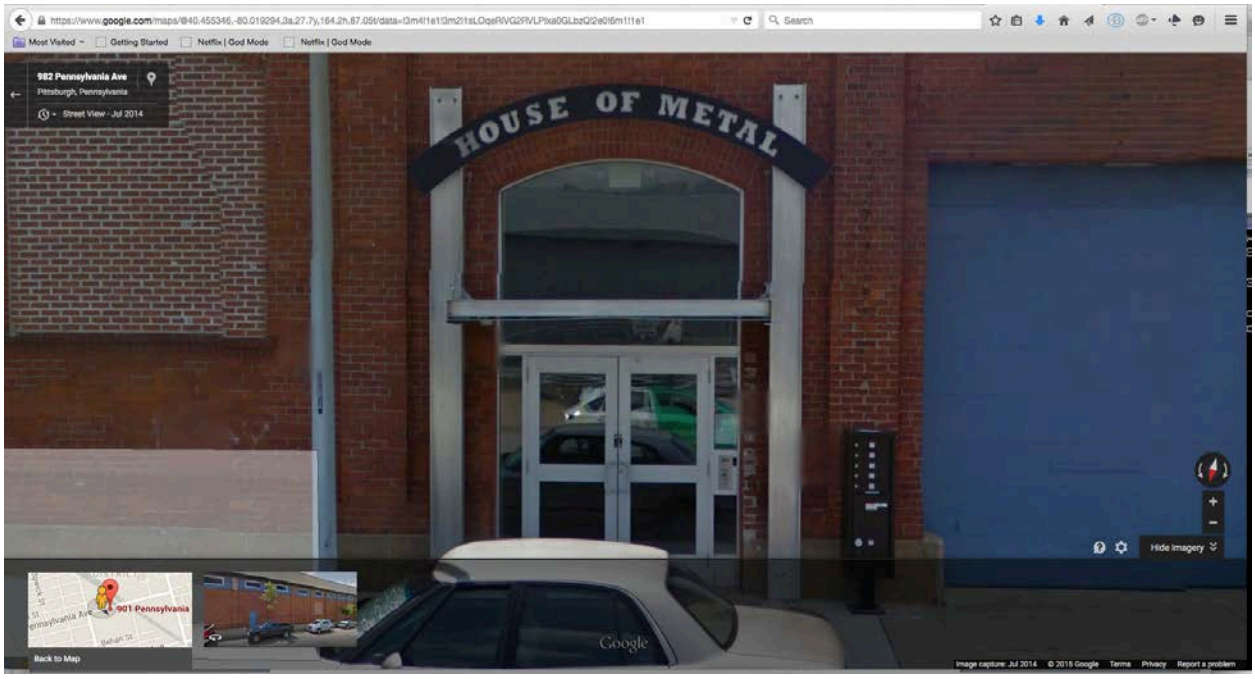
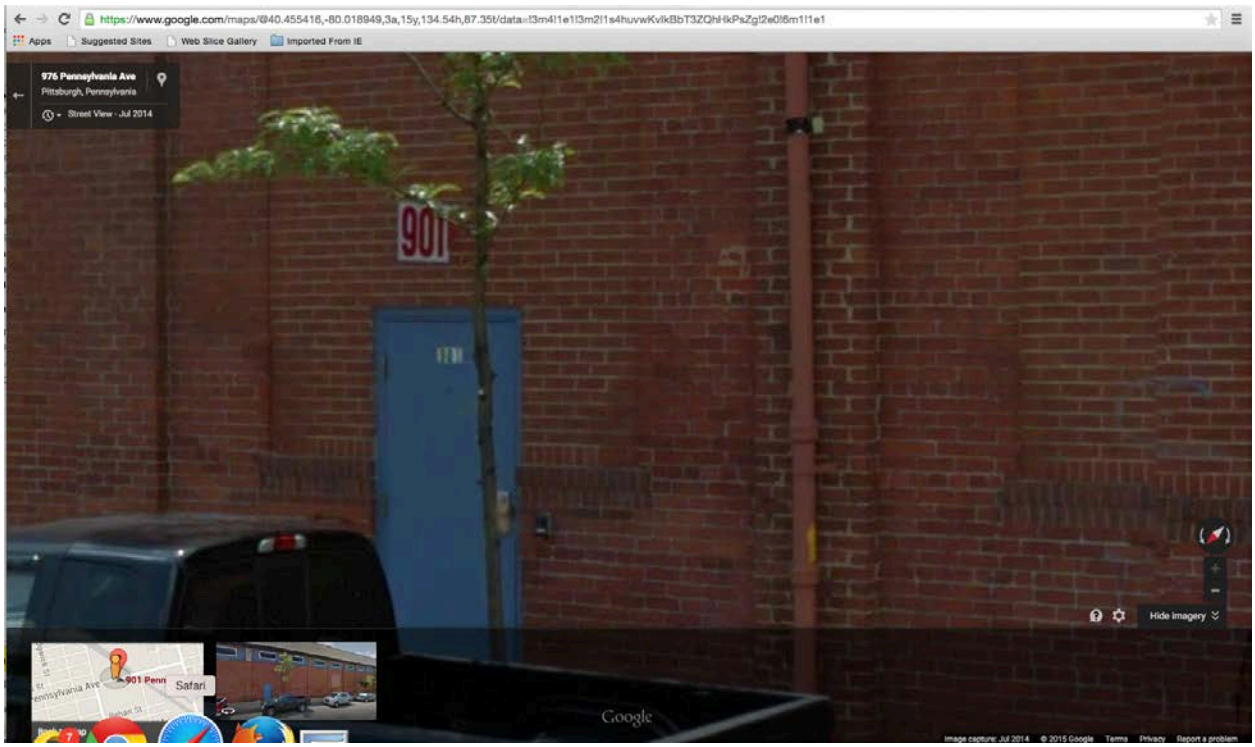
Building Main Entrance:



Suite 901:



solutions4networks was met at suite 901 by Elizabeth Dell after a call was placed to her cell phone and was asked to provide driver's license identification and a business card before access to the building was granted.

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Entrance from the street required badge card access. The first door in the warehouse required a security code, but it was a physical, non-electronic lock.

Security cameras were observed over the street entrance and inside the computer room. Cell phones were not permitted into the computer room that contained the tabulation network.

Post-Election Review: All items indicated above remained the same.

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Election Tabulations Network

Network Overview - Physical

A Network Topology diagram was provided to solutions4networks. The observed network topology was identical to the provided drawing.

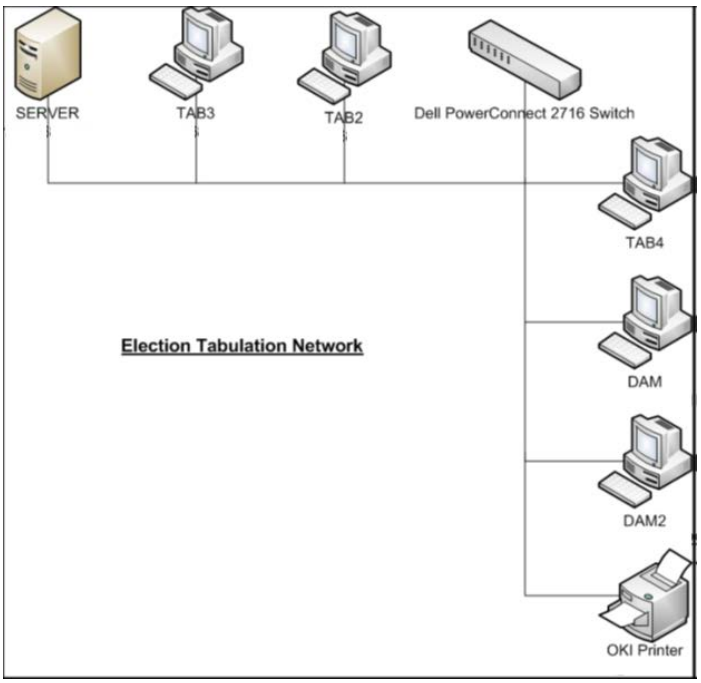

Figure 1 - Election Tabulation Network

The Election Tabulation Network consisted of the following devices:

- 1 Dell Powerconnect 2716 Ethernet Switch
- 1 Windows Server
- 5 Client PC's
    - Two DAM (Dial Access Modem) Servers
    - 3 Windows XP Clients
- 1 Printer

Network Overview - Logical

All of the devices had an address from RFC1918 private network 192.168.1.0/24. The Windows Server with address 192.168.1.20 provided DHCP, DNS and WINS services. A default gateway of 192.168.1.1 was configured, but no such device was found on the network.

Post-Election Review: All items indicated above remained the same.

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Dell Server PE-SC1420	Dell Optiplex GX520	Dell Optiplex GX520	Dell Optiplex GX520	Dell Precision PWS690	Dell Precision PWS690
BOE.elections.local	TAB3.elections.local	TAB2.elections.local	TAB4.elections.local	DAM.elections.local	DAM2.elections.local
Provides DHCP, WINS, DNS Services	DHCP enabled	DHCP enabled	DHCP enabled	DHCP disabled, static address	DHCP enabled/DNS hard coded
Win2003 SP1	WinXP SP3	WinXP SP2	WinXP SP2	WinXP SP2	WinXP SP2
2GB Ram	1 GB Ram	1 GB Ram	1 GB Ram	2 GB Ram	2 GB Ram
192.168.1.20	192.168.1.14	192.168.1.10	192.168.1.11	192.168.1.101	192.168.1.102
255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0	255.255.255.0
gateway: 192.168.1.1 (doesn't exist)	gateway: 192.168.1.1 (doesn't exist)	gateway: 192.168.1.1 (doesn't exist)	gateway: 192.168.1.1 (doesn't exist)	N/A	gateway: 192.168.1.1 (doesn't exist)
N/A	DHCP Server: 192.168.1.20	DHCP Server: 192.168.1.20	DHCP Server: 192.168.1.20	N/A	DHCP Server: 192.168.1.20
N/A	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20	DNS Server: 192.168.1.20
N/A	Wins Server: 192.168.1.20	Wins Server: 192.168.1.20	Wins Server: 192.168.1.20	N/A	Wins Server: 192.168.1.20
Conexant 56k modem	N/A	N/A	N/A	N/A	N/A
wired keyboard	wired keyboard	wired keyboard	wired keyboard	wired keyboard	wired keyboard
wired mouse	wired mouse	wired mouse	wired mouse	wired mouse	wired mouse
3.5 floppy disk	3.5 floppy disk	3.5 floppy disk	3.5 floppy disk	3.5 floppy disk	3.5 floppy disk
cd drive	RW/DVD	RW/DVD	RW/DVD	RW/DVD	RW/DVD
tape drive	N/A	N/A	N/A	N/A	N/A
com1/com2/lpt1	com1/com2/lpt1	com1/com2/lpt1	com1/com2/lpt1	com1/com2/lpt1	com1/com2/lpt1
Dell PowerVault 100T DAT72 Tape drive	N/A	N/A	N/A	N/A	N/A
Remote Desktop Enabled. Allowed users ELECTIONS\SBS Remote Operators	Remote Assistance is enabled	Remote Assistance is enabled	Remote Assistance is enabled	Remote Assistance is enabled	Remote Assistance is enabled
No Automatic Updates Allowed	No Automatic Updates Allowed	No Automatic Updates Allowed	No Automatic Updates Allowed	Nothing is selected for Auto Updates	Auto Updates enabled for 3:00AM daily
Enterprise Symatec A/V installed and running, password protected	Symantec A/V: Parent Server BOE Definition File 5/8/2006 Rev. 35	Symantec A/V: Parent Server BOE Definition File 5/8/2006 Rev. 35	Symantec A/V: Parent Server BOE Definition File 5/8/2006 Rev. 35	N/A	N/A
Windows Firewall is off, ICS service not running	Windows Firewall is off	Windows Firewall is off	Windows Firewall is off	Windows Firewall is on	Windows Firewall is on
Physical Connections:	**Physical Connections:**	**Physical Connections:**	**Physical Connections:**	**Physical Connections:**	**Physical Connections:**
ethernet	ethernet	ethernet	ethernet	ethernet	ethernet
ps/2 mouse	usb mouse	usb mouse	usb mouse	usb mouse	usb mouse
ps/2 keyboard	usb keyboard	usb keyboard	usb keyboard	usb keyboard	usb keyboard
monitor	monitor	monitor	monitor	monitor	monitor
power cord	power cord	power cord	power cord	power cord	power cord
	Serial connection to the ESS (Elections System&Software) Hub. This is the cardridge that the voter data is on	Serial connection to the ESS (Elections System&Software) Hub. This is the cardridge that the voter data is on	Serial connection to the ESS (Elections System&Software) Hub. This is the cardridge that the voter data is on	Serial Bus connection going to a bank of v.92 modems all are powered off.	Serial Bus connection going to a bank of v.92 modems all are powered off.

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"Air Gap" Analysis – No Issues Found

No External Connections Found

The only outside connections found on the network were the dial-up modems on the DAM servers which are part of the application. No other external connections were found on the network. The 7 connections on the Dell 2716 switch were traced to valid devices. No other cables were connected to the Dell Switch and no loose cables were observed in the vicinity of the switch. solutions4networks asked if there was a valid login for the Dell 2716 switch but was told that no one was aware of one.

No Wireless Adapters or Bluetooth Capability Found on Client Devices

Each PC was physically inspected for the presence of a wireless adapter or Bluetooth adapter and none were found.

The Windows "Device Manager" of each device was also inspected for the presence of any wireless devices.

No Wireless Keyboards and Mice

The keyboards and mice all had physical wires connected to the computers.

Post-Election Review: All items indicated above remained the same.

"Air Gap" Network Intact - Recommendations for Improvement

solutions4networks did not find any problems with the Election Tabulation Network, but have these recommendations to improve security of the network:

Client Operating Systems – Update the Clients to a supported OS.

The clients PC's were found to be running Windows XP which is no longer supported by Microsoft. These may be more vulnerable to attack if the network was compromised. The clients also had their internal Firewall disabled. They did have Symantec Anti-virus installed, but the definitions were out of date.

Server Operating System – Update the Server Operating System.

The server operating system is running Windows Server 2003, which is end of life July 2015. Any OS that is end of life is more vulnerable to attack if the network is compromised as it is no longer updated with any security patches.

Remote Assistance Enabled.

Remote Assistance is enabled on the 3 clients and 2 DAM servers. This serves no positive purpose in a closed network environment where each machine is physically accessible and should be disabled in the event the network is compromised.

Remote Desktop is Enabled.

Remoted Desktop is enabled on the BOE server. Once again this does not serve any positive purpose in a closed local network and should be disabled in the event the network may be compromised.

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Windows Update Enabled/None Selected.

The two DAM servers are configured differently from the rest of the computers on the network. Consistency should be the norm. All other computers have Auto Updates turned off. DAM1 has nothing selected and DAM2 has Auto Updates enabled and set for 3:00AM.

Lock Physical Access to the Dell PowerConnect 2716

The Dell switch is easily accessible on the countertop. A locked cabinet would make it more difficult to connect an external cable. It is also recommended to disable any unused ports on the Dell Switch or move the unused ports to a different VLAN from the production network.

Remove the Default Gateway Option

The DHCP server is giving the clients a default gateway of 192.168.1.1 even though no device exists. Removing the default gateway completely would make it more difficult for the clients to communicate with external networks. There is some inconsistency on the network in that not all of the clients are set up for DHCP. Either set them all up for DHCP or set them all up for Static. For a more secure environment it would be better to disable DHCP on the BOE server entirely and configure static IPs on all of the clients that way if someone were to ever connect to the Dell switch they would never obtain a DHCP address but would have to know the network addressing to hard code their PC.

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County of Allegheny, Commonwealth of Pennsylvania

Parallel Test Report
General Election

November 3, 2015

BAKER TILLY

Candor. Insight. Results.

County of Allegheny, Commonwealth of Pennsylvania

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November 3, 2015

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tel 412 697 6400
tel 800 267 9405
fax 888 264 9617
bakertilly.com

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 3, 2015, 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 267, Harrison, Ward 4, District 2. 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 three voting machines tested, accurately recorded and counted the results of 154 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 3, 2015

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
RECONCILIATION OF VOTE TOTALS IN SCRIPT TO FINAL RESULTS TAPE, FLASH CARDS AND MASTER PEB
NOVEMBER 3, 2015

PRECINCT: HARRISON WARD 4 DISTRICT 2

	Voter Terminal Data per Script				Final Results Tape	Flash Card Data (from Precinct Report)				Master PEB Data	Differences
	V5184834	V5186652	V5173032	Total		V5184834	V5186652	V5173032	Total		
Public Count	93	0	0	**93**	**93**	93	0	0	**93**	**93**	0
	0	60	0	**60**	**60**	0	60	0	**60**	**60**	0
	0	0	1	**1**	**1**	0	0	1	**1**	**1**	0
	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Justice of the Supreme Court											
David Wecht	46	25	0	**71**	**71**	46	25	0	**71**	**71**	0
Kevin M. Dougherty	43	32	1	**76**	**76**	43	32	1	**76**	**76**	0
Christine Donohue	41	22	0	**63**	**63**	41	22	0	**63**	**63**	0
Judy Olson	39	26	1	**66**	**66**	39	26	1	**66**	**66**	0
Mike George	45	29	1	**75**	**75**	45	29	1	**75**	**75**	0
Anne Covey	41	28	0	**69**	**69**	41	28	0	**69**	**69**	0
Paul P.Panepinto	24	18	0	**42**	**42**	24	18	0	**42**	**42**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	279	180	3	**462**	**462**	279	180	3	**462**	**462**	0
Judge of the Superior Court											
Alice Beck Dubow	45	28	1	**74**	**74**	45	28	1	**74**	**74**	0
Emil Giordano	48	32	0	**80**	**80**	48	32	0	**80**	**80**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Judge of the Commonwealth Court											
Michael Wojcik	47	32	0	**79**	**79**	47	32	0	**79**	**79**	0
Paul Lalley	46	28	1	**75**	**75**	46	28	1	**75**	**75**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Judge of the Court of Common Pleas											
Jennifer Staley McCrady	60	36	1	**97**	**97**	60	36	1	**97**	**97**	0
Dan Regan	64	43	1	**108**	**108**	64	43	1	**108**	**108**	0
Hugh Fitzpatrick McGough	75	48	1	**124**	**124**	75	48	1	**124**	**124**	0
P.J. Murray	64	41	0	**105**	**105**	64	41	0	**105**	**105**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	263	168	3	**434**	**434**	263	168	3	**434**	**434**	0
County Chief Executive											
Rich Fitzgerald	47	32	1	**80**	**80**	47	32	1	**80**	**80**	0
Todd Elliot Koger	46	28	0	**74**	**74**	46	28	0	**74**	**74**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
RECONCILIATION OF VOTE TOTALS IN SCRIPT TO FINAL RESULTS TAPE, FLASH CARDS AND MASTER PEB
NOVEMBER 3, 2015

PRECINCT: HARRISON WARD 4 DISTRICT 2

	Voter Terminal Data per Script				Final Results Tape	Flash Card Data (from Precinct Report)				Master PEB Data	Differences
	V5184834	V5186652	V5173032	Total		V5184834	V5186652	V5173032	Total		
County Controller											
Chelsa Wagner	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
District Attorney											
Stephen A. Zappala, Jr.	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
County Treasurer											
John K. Weinstein	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Member of County Council At-Large											
John P. DeFazio	33	22	1	**56**	**56**	33	22	1	**56**	**56**	0
Sam DeMarco	34	17	0	**51**	**51**	34	17	0	**51**	**51**	0
Todd Elliot Koger	26	21	0	**47**	**47**	26	21	0	**47**	**47**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Member of County Council											
Nick Futules	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
School Director											
Ryan E. Hanford	59	59	1	**119**	**119**	59	59	1	**119**	**119**	0
Heath Cohen	65	53	1	**119**	**119**	65	53	1	**119**	**119**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	124	112	2	**238**	**238**	124	112	2	**238**	**238**	0
Constable											
Gary L. Marshall	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Write-in	0	0	0	**0**	**0**	0	0	0	**0**	**0**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge Borkowski											
Yes	84	56	0	**140**	**140**	84	56	0	**140**	**140**	0
No	9	4	1	**14**	**14**	9	4	1	**14**	**14**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
RECONCILIATION OF VOTE TOTALS IN SCRIPT TO FINAL RESULTS TAPE, FLASH CARDS AND MASTER PEB
NOVEMBER 3, 2015

PRECINCT: HARRISON WARD 4 DISTRICT 2

	Voter Terminal Data per Script				Final Results Tape	Flash Card Data (from Precinct Report)				Master PEB Data	Differences
	V5184834	V5186652	V5173032	Total		V5184834	V5186652	V5173032	Total		
Retention of Judge Flaherty											
Yes	90	55	0	**145**	**145**	90	55	0	**145**	**145**	0
No	3	5	1	**9**	**9**	3	5	1	**9**	**9**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge Hens-Greco											0
Yes	87	9	1	**97**	**97**	87	9	1	**97**	**97**	0
No	6	51	0	**57**	**57**	6	51	0	**57**	**57**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge Hertzberg											
Yes	86	57	1	**144**	**144**	86	57	1	**144**	**144**	0
No	7	3	0	**10**	**10**	7	3	0	**10**	**10**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge Lazzara											
Yes	82	55	0	**137**	**137**	82	55	0	**137**	**137**	0
No	11	5	1	**17**	**17**	11	5	1	**17**	**17**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge Mariani											
Yes	88	55	0	**143**	**143**	88	55	0	**143**	**143**	0
No	5	5	1	**11**	**11**	5	5	1	**11**	**11**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge McDaniel											
Yes	82	54	1	**137**	**137**	82	54	1	**137**	**137**	0
No	11	6	0	**17**	**17**	11	6	0	**17**	**17**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0
Retention of Judge Woodruff											
Yes	85	4	1	**90**	**90**	85	4	1	**90**	**90**	0
No	8	56	0	**64**	**64**	8	56	0	**64**	**64**	0
Total	93	60	1	**154**	**154**	93	60	1	**154**	**154**	0

Exhibit A

The parallel testing work performed was as follows:

Control and Security Procedures

1. We randomly selected a precinct.

2. We selected three 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 iVotronic voting machines) before electronic balloting starts, and the Supervisor PEB is used to activate an iVotronic voting machine for each voter. Each PEB was secured in a locked file in our office prior to 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.

Exhibit B

Terminal S/N: V5173032->
PEB S/N PS227413-_ (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

2015 General Election
HARRISON WARD 4 DIST 2
POLLING LOCATION ZERO TAPE

Public Count Statistics

Total Ballots Cast:	0
Total Ballots Counted:	0
Number of Terminals Opened:	0

Individual Voter Terminal Data

****
PRECINCT: HARRISON WARD 4 DIST 2

Public Count:	0
Ballot Style Counts	
Ballot Style #267	0

Straight Party Option

(Vote for 1) Total:	0
DEM-Democratic	0
REP-Republican	0
CON-Constitution	0
AFC-Albaugh for Council	0
DSB-Dave Schuilenburg	0
EDS-Elect Darlene Schreiber	0
GRN-Green	0
IND-Independent	0
IJA-Independent Judicial Alliance	0
LIB-Libertarian	0
NAI-New Afrikan Independence	0
OVE-Overly's Electric	0
WBC-Wall Boro Council	0
UnderVotes For Above contest:	0

JUSTICE OF THE SUPREME COURT

(Vote for 3) Total:	0
DEM-David Wecht	0
DEM-Kevin M. Dougherty	0
DEM-Christine Donohue	0
REP-Judy Olson	0
REP-Mike George	0
REP-Anne Covey	0
IJA-Paul P. Panepinto	0
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

JUDGE OF THE SUPERIOR COURT

(Vote for 1)	Total:	0
DEM-Alice Beck Dubow		0
REP-Emil Giordano		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

JUDGE OF THE COMMONWEALTH COURT

(Vote for 1)	Total:	0
DEM-Michael Wojcik		0
REP-Paul Lalley		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

JUDGE OF THE COURT OF COMMON PLEAS

(Vote for 3)	Total:	0
DEM/REP-		
-Jennifer Staley McCrady		0
DEM/REP-		
-Dan Regan		0
DEM-Hugh Fitzpatrick McGough		0
REP-P. J. Murray		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

COUNTY CHIEF EXECUTIVE

(Vote for 1)	Total:	0
DEM-Rich Fitzgerald		0
IND-Todd Elliott Koger		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

COUNTY CONTROLLER

(Vote for 1)	Total:	0
DEM/REP-		
-Chelsa Wagner		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

DISTRICT ATTORNEY

(Vote for 1)	Total:	0
DEM-Stephen A. Zappala, Jr.		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

COUNTY TREASURER

(Vote for 1)	Total:	0
DEM/REP-		
-John K. Weinstein		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

COUNTY COUNCIL AT-LARGE

(Vote for 1)	Total:	0
DEM-John P. DeFazio		0
REP-Sam DeMarco		0
IND-Todd Elliott Koger		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

CNTCL07 Member of County Council 4 Year

(Vote for 1)	Total:	0
DEM-Nick Futules		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

SCHO034 SCHOOL DIRECTOR 4

(Vote for 2)	Total:	0
DEM/REP-		
-Ryan E. Hanford		0
DEM/REP-		
-Heath Cohen		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

MUN152 Constable

(Vote for 2)	Total:	0
DEM-Gary L. Marshall		0
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

Retention of Judge Borkowski

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge Flaherty

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge Hens-Greco

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge Hertzberg

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge Lazzara

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge Mariani

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge McDaniel

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Retention of Judge Woodruff

(Vote for 1)	Total:	0
Yes		0
No		0
UnderVotes For Above contest:		0

Time/Date: 07:05:04 11/03/2015

Signature: _____

Signature: _____

Signature: _____

Signature: _____

Exhibit C

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 3, 2015
SUMMARY OF SCRIPTS

		Justice of the Supreme Court (vote for not more than three)								Judge of the Superior Court (vote for one)			Judge of the Commonwealth Court (vote for one)			Judge of the Court of Common Pleas (vote for not more than three)				
	Public Count #	Wecht	Dougherty	Donohue	Olson	George	Covey	Panepinto	Write-In	Dubow	Giordano	Write-in	Wojcik	Lalley	Write-in	McCrady	Regan	McGough	Murray	Write-In
Machine 1 0004902	93	46	43	41	39	45	45	41	24	0	45	48	0	47	46	0	60	64	75	64	0
Machine 2 0004903	60	25	32	22	26	29	28	28	18	0	28	32	0	32	28	0	36	43	48	41	0
Machine 3 0004901	1	0	1	0	1	1	1	0	0	0	1	0	0	0	1	0	1	1	1	0	0
Total	154	71	76	63	66	75	75	69	42	0	74	80	0	79	75	0	97	108	124	105	0

		County Chief Executive (vote for one)			County Controller (vote for one)		District Attorney (vote for one)		County Treasurer (vote for one)		Member of County Council At-Large (vote for one)				Member of County Council (vote for one)		School Director (vote for not more than two)			Constable (vote for not more than two)	
	Public Count #	Fitzgerald	Koger	Write-in	Wagner	Write-in	Zappala	Write-in	Weinstein	Write-in	DeFazio	DeMarco	Koger	Write-in	Futules	Write-in	Hanford	Cohen	Write-in	Marshall	Write-in
Machine 1 0004902	93	47	46	0	93	0	93	0	93	0	33	34	26	0	93	0	59	65	0	93	0
Machine 2 0004903	60	32	28	0	60	0	60	0	60	0	22	17	21	0	60	0	59	53	0	60	0
Machine 3 0004901	1	1	0	0	1	0	1	0	1	0	1	0	0	0	1	0	1	1	0	1	0
Total	154	80	74	0	154	0	154	0	154	0	56	51	47	0	154	0	119	119	0	154	0

		Retention of Judge Borkowski		Retention of Judge Flaherty		Retention of Judge Hens-Greco		Retention of Judge Hertzberg		Retention of Judge Lazzara		Retention of Judge Mariani		Retention of Judge McDaniel		Retention of Judge Woodruff	
		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No	
	Public Count #	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
Machine 1 0004902	93	84	9	90	3	87	6	86	7	82	11	88	5	82	11	85	8
Machine 2 0004903	60	56	4	55	5	9	51	57	3	55	5	55	5	54	6	4	56
Machine 3 0004901	1	0	1	0	1	1	0	1	0	0	1	0	1	1	0	1	0
Total	154	140	14	145	9	97	57	144	10	137	17	143	11	137	17	90	64

Machine #
0004902

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 3, 2015
VOTER SIMULATION PROJECT SCRIPT

	Justice of the Supreme Court (vote for not more than three)								Judge of the Superior Court (vote for one)			Judge of the Commonwealth Court (vote for one)			Judge of the Court of Common Pleas (vote for not more than three)				
Public Count #	**Wecht**	**Dougherty**	**Donohue**	**Olson**	**George**	**Covey**	**Panepinto**	**Write-In**	**Dubow**	**Giordano**	**Write-in**	**Wojcik**	**Lalley**	**Write-in**	**McCrady**	**Regan**	**McGough**	**Murray**	**Write-In**
1		1		1			1		1				1			1	1	1	
2		1		1	1				1			1			1	1		1	
3		1			1		1			1			1			1		1	
4	1		1			1				1		1			1		1	1	
5	1		1			1				1		1			1		1		
6		1		1	1					1			1		1	1		1	
7	1		1			1				1		1			1		1		
8		1		1	1					1			1			1		1	
9	1		1			1				1		1			1	1	1		
10				1	1		1			1			1		1	1		1	
11		1		1	1					1			1			1		1	
12		1		1	1					1			1		1	1		1	
13	1			1		1				1		1			1		1	1	
14		1		1			1		1				1			1	1	1	
15	1				1	1			1			1			1		1	1	
16		1		1	1					1			1			1	1	1	
17	1				1	1			1			1			1		1	1	
18		1		1	1					1			1			1	1	1	
19	1		1		1				1			1			1		1		
20	1	1					1			1		1			1	1	1		
21		1		1	1				1				1			1		1	
22		1	1	1					1				1			1	1	1	
23		1	1		1					1			1			1	1		
24	1				1	1				1		1			1	1	1		
25		1			1	1				1			1			1	1	1	
26	1				1	1			1			1			1		1	1	
27				1	1		1			1		1			1		1	1	
28		1	1			1			1				1			1	1		
29		1	1			1			1				1			1	1		
30		1	1			1			1			1				1	1	1	
31		1	1			1			1				1		1	1	1		
32	1		1				1		1			1			1		1		
33	1		1				1		1			1			1		1	1	
34		1			1	1			1				1			1	1	1	
35	1				1	1			1			1			1	1		1	
36		1			1	1				1			1			1	1		
37	1				1	1			1			1			1	1	1		
38		1	1		1					1			1			1	1	1	
39		1		1		1			1				1		1	1		1	
40		1			1	1				1			1		1	1	1		
41	1				1	1			1			1			1	1	1		
42		1	1	1					1				1		1		1	1	
43	1			1	1					1		1			1	1	1		
44		1	1				1			1			1			1	1	1	
45	1				1	1				1		1			1	1	1		
46	1	1	1						1				1		1	1	1		
47	1		1		1					1		1			1		1	1	
48	1			1		1				1		1			1	1		1	
49	1	1		1						1			1		1	1		1	
50		1			1		1		1				1			1	1	1	
51		1		1		1				1			1			1	1	1	
52	1		1			1			1			1			1		1		
53			1		1	1			1				1			1	1	1	
54	1			1	1					1		1			1	1		1	
55	1		1			1				1		1			1		1	1	
56	1			1	1				1			1				1	1	1	
57		1	1			1			1				1		1	1	1		
58	1		1			1			1				1		1		1	1	
59		1		1		1				1			1		1	1	1		
60	1	1	1						1			1			1		1	1	
61	1		1		1					1			1			1	1	1	
62				1	1	1				1		1			1		1	1	
63	1			1			1		1			1			1	1	1		
64			1		1		1		1			1			1	1		1	
Subtotal	**30**	**33**	**26**	**25**	**35**	**31**	**12**	**0**	**31**	**33**	**0**	**31**	**33**	**0**	**41**	**46**	**50**	**42**	**0**

Machine #
0004902

	County Chief Executive (vote for one)			County Controller (vote for one)		District Attorney (vote for one)		County Treasurer (vote for one)		Member of County Council At-Large (vote for one)				Member of County Council (vote for one)		School Director (vote for not more than two)			Constable (vote for not more than two)	
Public Count #	**Fitzgerald**	**Koger**	**Write-in**	**Wagner**	**Write-in**	**Zappala**	**Write-in**	**Weinstein**	**Write-in**	**DeFazio**	**DeMarco**	**Koger**	**Write-in**	**Futules**	**Write-in**	**Hanford**	**Cohen**	**Write-in**	**Marshall**	**Write-in**
1	1			1		1		1		1				1		1	1		1	
2		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	
5		1		1		1		1			1			1		1			1	
6	1			1		1		1			1			1			1		1	
7		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	
10		1		1		1		1		1				1			1		1	
11	1			1		1		1		1				1			1		1	
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14		1		1		1		1			1			1			1		1	
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16	1			1		1		1		1				1			1		1	
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18		1		1		1		1				1		1			1		1	
19	1			1		1		1			1			1		1	1		1	
20		1		1		1		1			1			1		1	1		1	
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23	1			1		1		1		1				1			1		1	
24		1		1		1		1				1		1		1			1	
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27		1		1		1		1			1			1		1			1	
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29		1		1		1		1			1			1			1		1	
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42	1			1		1		1			1			1		1	1		1	
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45	1			1		1		1		1				1		1			1	
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56	1			1		1		1				1		1		1	1		1	
57	1			1		1		1		1				1			1		1	
58	1			1		1		1		1				1		1			1	
59		1		1		1		1			1			1		1			1	
60		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	
64		1		1		1		1		1				1			1		1	
Subtotal	**33**	**31**	**0**	**64**	**0**	**64**	**0**	**64**	**0**	**23**	**23**	**18**	**0**	**64**	**0**	**36**	**41**	**0**	**64**	**0**

Machine #
0004902

	Retention of Judge Borkowski		Retention of Judge Flaherty		Retention of Judge Hens-Greco		Retention of Judge Hertzberg		Retention of Judge Lazzara		Retention of Judge Mariani		Retention of Judge McDaniel		Retention of Judge Woodruff	
	Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No	
Public Count #	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**
1	1		1		1		1		1		1		1		1	
2	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	
5	1		1		1			1	1		1		1		1	
6	1		1		1		1		1		1		1		1	
7		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	
10	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	
13		1	1		1		1		1		1			1	1	
14	1		1		1		1		1		1		1		1	
15	1		1		1		1		1		1		1		1	
16	1		1		1		1		1		1		1		1	
17	1		1		1		1		1		1		1		1	
18		1	1		1		1		1		1		1		1	
19	1		1		1		1		1		1		1		1	
20	1		1			1	1		1		1		1		1	
21		1	1		1			1		1		1		1		1
22	1		1		1		1		1		1		1		1	
23	1		1			1	1		1		1		1		1	
24	1		1		1		1		1		1		1		1	
25	1		1			1		1		1		1		1		1
26	1		1		1		1		1		1		1		1	
27		1	1		1		1		1		1		1		1	
28	1		1		1		1		1		1		1		1	
29	1		1		1		1		1		1		1		1	
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31	1		1		1		1		1		1		1		1	
32	1		1		1		1		1		1		1		1	
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34		1	1		1			1	1		1		1		1	
35	1		1		1		1		1		1		1		1	
36	1		1		1		1		1		1		1		1	
37		1	1		1			1	1		1		1		1	
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39	1		1		1		1		1		1		1		1	
40	1		1		1		1		1		1		1		1	
41	1		1		1		1		1		1		1		1	
42	1		1		1		1		1		1		1		1	
43		1	1		1		1		1		1		1		1	
44	1		1		1		1		1		1			1	1	
45	1		1		1		1		1		1		1		1	
46	1		1		1		1			1	1		1		1	
47	1		1		1		1		1		1			1	1	
48	1		1		1		1		1		1		1		1	
49	1		1		1		1			1	1		1		1	
50	1		1		1		1		1		1		1		1	
51	1		1		1		1		1		1		1		1	
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53	1		1		1		1		1		1		1		1	
54	1		1		1		1		1		1		1			1
55	1			1	1		1		1		1		1		1	
56	1		1		1		1			1	1		1		1	
57	1		1		1		1		1		1		1			1
58	1		1		1		1		1		1		1		1	
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60	1		1		1		1		1		1		1		1	
61	1			1	1		1		1		1		1		1	
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63	1		1		1		1		1		1		1			1
64	1		1		1		1		1		1		1		1	
Subtotal	**55**	**9**	**61**	**3**	**61**	**3**	**57**	**7**	**58**	**6**	**62**	**2**	**57**	**7**	**59**	**5**

Machine #
0004902

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 3, 2015
VOTER SIMULATION PROJECT SCRIPT

	Justice of the Supreme Court (vote for not more than three)								Judge of the Superior Court (vote for one)			Judge of the Commonwealth Court (vote for one)			Judge of the Court of Common Pleas (vote for not more than three)				
Public Count #	**Wecht**	**Dougherty**	**Donohue**	**Olson**	**George**	**Covey**	**Panepinto**	**Write-In**	**Dubow**	**Giordano**	**Write-in**	**Wojcik**	**Lalley**	**Write-in**	**McCrady**	**Regan**	**McGough**	**Murray**	**Write-In**
65	1	1				1				1			1		1		1	1	
66	1		1	1						1		1			1	1	1		
67		1		1	1					1			1			1	1	1	
68			1			1	1			1		1			1	1	1		
69	1		1				1		1				1		1		1	1	
70	1			1			1			1		1				1	1	1	
71	1		1				1		1			1				1		1	
72		1			1	1				1		1			1		1	1	
73	1		1	1					1				1		1	1	1		
74			1			1	1		1			1				1	1	1	
75		1			1	1			1				1		1		1		
76	1		1				1		1				1		1	1	1		
77		1		1	1					1			1			1	1	1	
78			1			1	1		1			1			1		1	1	
79				1	1	1				1			1		1		1	1	
80	1	1	1							1		1				1	1	1	
81		1		1		1				1		1			1		1	1	
82	1		1	1						1		1			1	1		1	
83				1	1		1		1			1			1		1	1	
84		1	1	1					1				1		1		1	1	
85	1			1	1					1			1		1	1	1		
86	1			1			1		1				1			1		1	
87		1	1	1					1			1				1	1	1	
88	1				1	1				1		1				1	1	1	
89					1	1	1		1				1			1	1	1	
90	1		1	1					1			1			1	1	1		
91	1				1		1		1				1		1		1	1	
92	1		1				1			1		1			1		1	1	
93	1	1	1							1		1			1	1		1	
Subtotal	**16**	**10**	**15**	**14**	**10**	**10**	**12**	**0**	**14**	**15**	**0**	**16**	**13**	**0**	**19**	**18**	**25**	**22**	**0**

Machine #
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	County Chief Executive			County Controller		District Attorney		County Treasurer		Member of County Council At-Large				Member of County Council		School Director			Constable	
	(vote for one)			(vote for one)		(vote for one)		(vote for one)		(vote for one)				(vote for one)		(vote for not more than two)			(vote for not more than two)	
Public Count #	**Fitzgerald**	**Koger**	**Write-in**	**Wagner**	**Write-in**	**Zappala**	**Write-in**	**Weinstein**	**Write-in**	**DeFazio**	**DeMarco**	**Koger**	**Write-in**	**Futules**	**Write-in**	**Hanford**	**Cohen**	**Write-in**	**Marshall**	**Write-in**
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	
68	1			1		1		1				1		1		1	1		1	
69	1			1		1		1		1				1		1	1		1	
70	1			1		1		1				1		1		1			1	
71		1		1		1		1				1		1		1			1	
72		1		1		1		1				1		1		1	1		1	
73	1			1		1		1			1			1		1	1		1	
74		1		1		1		1		1				1		1	1		1	
75	1			1		1		1			1			1			1		1	
76		1		1		1		1		1				1			1		1	
77		1		1		1		1		1				1		1	1		1	
78		1		1		1		1		1				1		1	1		1	
79		1		1		1		1			1			1		1	1		1	
80	1			1		1		1		1				1		1			1	
81	1			1		1		1			1			1		1	1		1	
82		1		1		1		1			1			1		1	1		1	
83		1		1		1		1				1		1			1		1	
84		1		1		1		1				1		1		1	1		1	
85	1			1		1		1				1		1		1			1	
86	1			1		1		1			1			1			1		1	
87		1		1		1		1		1				1		1	1		1	
88		1		1		1		1			1			1		1			1	
89	1			1		1		1			1			1		1	1		1	
90		1		1		1		1			1			1		1	1		1	
91		1		1		1		1				1		1		1	1		1	
92	1			1		1		1		1				1			1		1	
93	1			1		1		1		1				1		1	1		1	
Subtotal	**14**	**15**	**0**	**29**	**0**	**29**	**0**	**29**	**0**	**10**	**11**	**8**	**0**	**29**	**0**	**23**	**24**	**0**	**29**	**0**

Machine #
0004902

Public Count #	Retention of Judge Borkowski Yes/No		Retention of Judge Flaherty Yes/No		Retention of Judge Hens-Greco Yes/No		Retention of Judge Hertzberg Yes/No		Retention of Judge Lazzara Yes/No		Retention of Judge Mariani Yes/No		Retention of Judge McDaniel Yes/No		Retention of Judge Woodruff Yes/No	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
65	1		1		1		1		1		1		1		1	
66	1		1		1		1		1		1		1		1	
67	1		1		1		1		1		1		1		1	
68	1		1		1		1		1		1		1			1
69	1		1		1		1		1		1		1		1	
70	1		1		1		1		1			1	1		1	
71	1		1		1		1		1		1		1			1
72	1		1		1		1			1	1			1	1	
73	1		1		1		1		1			1	1		1	
74	1		1		1		1		1		1		1		1	
75	1		1		1		1			1	1			1	1	
76	1		1		1		1		1		1		1		1	
77	1		1		1		1		1		1		1			1
78	1		1		1		1		1		1		1		1	
79	1		1		1		1		1			1	1		1	
80	1		1		1		1		1		1		1		1	
81	1		1		1		1		1		1		1		1	
82	1		1		1		1			1	1		1		1	
83	1		1		1		1		1		1		1		1	
84	1		1			1	1		1		1		1		1	
85	1		1		1		1			1	1		1		1	
86	1		1		1		1		1		1		1		1	
87	1		1			1	1		1		1		1		1	
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90	1		1		1		1		1		1		1		1	
91	1		1		1		1			1	1			1	1	
92	1		1		1		1		1		1		1		1	
93	1		1			1	1		1		1		1		1	
Subtotal	**29**	**0**	**29**	**0**	**26**	**3**	**29**	**0**	**24**	**5**	**26**	**3**	**25**	**4**	**26**	**3**

Machine #
0004903

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 3, 2015
VOTER SIMULATION PROJECT SCRIPT

	Justice of the Supreme Court (vote for not more than three)								Judge of the Superior Court (vote for one)			Judge of the Commonwealth Court (vote for one)			Judge of the Court of Common Pleas (vote for not more than three)				
Public Count #	**Wecht**	**Dougherty**	**Donohue**	**Olson**	**George**	**Covey**	**Panepinto**	**Write-In**	**Dubow**	**Giordano**	**Write-in**	**Wojcik**	**Lalley**	**Write-in**	**McCrady**	**Regan**	**McGough**	**Murray**	**Write-In**
1		1		1	1				1				1			1	1	1	
2		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		
5	1		1			1				1		1			1		1		
6		1		1	1					1			1			1		1	
7	1		1			1				1		1			1		1		
8		1		1	1					1			1			1		1	
9	1		1			1				1		1			1		1		
10		1		1	1					1			1			1	1	1	
11		1		1			1			1			1			1		1	
12		1		1	1					1			1			1	1	1	
13	1			1		1				1		1			1			1	
14		1		1			1		1				1			1	1	1	
15	1				1	1			1			1			1	1	1		
16		1		1	1					1			1			1	1	1	
17	1					1	1		1			1			1		1		
18		1		1	1					1			1			1		1	
19	1		1				1		1			1			1	1	1		
20	1	1				1				1		1			1	1	1		
21				1	1		1		1				1			1	1	1	
22		1	1	1					1				1			1	1	1	
23		1	1		1					1			1		1	1	1		
24	1				1	1				1		1			1	1	1		
25					1	1	1			1			1			1	1	1	
26	1				1	1			1			1			1	1	1		
27	1			1	1					1		1			1		1	1	
28		1				1	1		1				1			1	1	1	
29		1	1			1			1				1		1	1	1		
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38	1		1	1						1		1				1	1	1	
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40		1	1			1				1			1		1	1	1		
41					1	1	1			1			1		1		1	1	
42	1	1	1						1				1		1	1	1		
43	1		1	1					1			1				1	1	1	
44		1			1	1				1		1			1		1	1	
45		1		1			1		1			1				1	1	1	
46		1		1	1				1			1			1		1	1	
47			1			1	1		1				1		1	1	1		
48	1			1	1				1				1		1	1		1	
49	1	1	1							1		1			1		1	1	
50		1			1	1				1		1				1		1	
51				1	1		1			1		1			1		1	1	
52	1		1	1						1		1			1	1		1	
53		1			1	1				1		1			1	1		1	
54			1			1	1		1				1			1	1	1	
55	1	1				1				1		1					1	1	
56	1			1		1				1		1			1	1	1		
57	1	1	1						1				1		1		1	1	
58		1			1		1		1			1				1	1	1	
59		1		1		1				1		1			1		1	1	
60			1		1	1			1			1			1	1	1		
Subtotal	**25**	**32**	**22**	**26**	**29**	**28**	**18**	**0**	**28**	**32**	**0**	**32**	**28**	**0**	**36**	**43**	**48**	**41**	**0**

Machine #
0004903

	County Chief Executive			County Controller		District Attorney		County Treasurer		Member of County Council At-Large				Member of County Council		School Director			Constable	
	(vote for one)			(vote for one)		(vote for one)		(vote for one)		(vote for one)				(vote for one)		(vote for not more than two)			(vote for not more than two)	
Public Count #	Fitzgerald	Koger	Write-in	Wagner	Write-in	Zappala	Write-in	Weinstein	Write-in	DeFazio	DeMarco	Koger	Write-in	Futules	Write-in	Hanford	Cohen	Write-in	Marshall	Write-in
1	1			1		1		1		1				1		1	1		1	
2		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	
5		1		1		1		1				1		1		1	1		1	
6		1		1		1		1				1		1		1	1		1	
7	1			1		1		1		1				1		1			1	
8		1		1		1		1			1			1		1	1		1	
9	1			1		1		1		1				1		1			1	
10		1		1		1		1		1				1		1	1		1	
11		1		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	
14	1			1		1		1				1		1		1	1		1	
15		1		1		1		1				1		1		1			1	
16		1		1		1		1				1		1		1	1		1	
17	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	
20		1		1		1		1		1				1		1	1		1	
21		1		1		1		1			1			1		1	1		1	
22		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	
25	1			1		1		1		1				1		1	1		1	
26	1			1		1		1		1				1		1	1		1	
27	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	
30	1			1		1		1				1		1		1	1		1	
31	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	
37	1			1		1		1				1		1		1	1		1	
38	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	
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	
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	
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	
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	
Subtotal	**32**	**28**	**0**	**60**	**0**	**60**	**0**	**60**	**0**	**22**	**17**	**21**	**0**	**60**	**0**	**59**	**53**	**0**	**60**	**0**

Machine #
0004903

	Retention of Judge Borkowski		Retention of Judge Flaherty		Retention of Judge Hens-Greco		Retention of Judge Hertzberg		Retention of Judge Lazzara		Retention of Judge Mariani		Retention of Judge McDaniel		Retention of Judge Woodruff	
	Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No	
Public Count #	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**
1	1		1			1	1		1		1		1			1
2	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
5	1		1		1		1		1		1		1			1
6		1		1		1		1		1		1		1		1
7	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
10	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
13	1		1			1	1		1		1		1			1
14		1	1			1	1		1		1		1			1
15	1		1			1	1		1		1		1			1
16	1		1		1		1		1		1		1			1
17	1		1			1	1		1		1		1			1
18	1		1			1	1			1	1		1			1
19	1		1		1		1		1		1		1			1
20	1		1			1	1		1		1		1			1
21	1		1			1	1		1		1		1		1	
22	1		1			1	1		1			1	1			1
23	1		1			1	1		1		1		1			1
24	1		1			1	1		1		1		1			1
25		1		1	1			1		1		1		1	1	
26	1		1			1	1		1		1		1			1
27	1		1			1	1		1		1		1			1
28	1		1			1	1		1		1		1			1
29	1		1			1	1		1		1		1			1
30	1		1			1	1		1		1		1			1
31	1		1			1	1		1		1		1			1
32		1	1		1		1		1			1	1			1
33	1		1			1	1		1		1		1			1
34	1		1			1	1		1		1			1		1
35	1		1		1		1		1		1		1			1
36	1		1			1	1			1	1		1			1
37	1		1			1	1		1		1		1			1
38	1		1			1	1		1		1		1			1
39	1		1			1	1		1		1		1			1
40	1		1			1	1		1		1			1		1
41	1		1		1		1		1		1		1			1
42	1		1			1	1		1		1		1			1
43	1		1			1	1		1		1		1			1
44	1		1			1	1		1		1		1			1
45	1		1			1	1		1		1		1			1
46	1		1			1	1		1		1			1		1
47	1		1			1	1		1		1		1			1
48	1			1		1		1	1			1	1			1
49	1		1			1	1		1		1		1			1
50	1			1		1	1		1		1		1			1
51	1		1			1	1		1		1		1			1
52	1			1		1	1			1	1		1			1
53	1		1			1	1		1		1		1			1
54	1		1			1	1		1		1		1		1	
55	1		1			1	1		1		1		1			1
56	1		1			1	1		1		1		1			1
57	1		1			1	1		1		1		1		1	
58	1		1			1	1		1		1		1			1
59	1		1			1	1		1		1		1			1
60	1		1			1	1		1		1		1			1
Subtotal	**56**	**4**	**55**	**5**	**9**	**51**	**57**	**3**	**55**	**5**	**55**	**5**	**54**	**6**	**4**	**56**

Machine #
0004901

COUNTY OF ALLEGHENY, COMMONWEALTH OF PENNSYLVANIA
ELECTION, TUESDAY, NOVEMBER 3, 2015
VOTER SIMULATION PROJECT SCRIPT

	Justice of the Supreme Court (vote for not more than three)								Judge of the Superior Court (vote for one)			Judge of the Commonwealth Court (vote for one)			Judge of the Court of Common Pleas (vote for not more than three)				
Public Count #	**Wecht**	**Dougherty**	**Donohue**	**Olson**	**George**	**Covey**	**Panepinto**	**Write-In**	**Dubow**	**Giordano**	**Write-in**	**Wojcik**	**Lalley**	**Write-in**	**McCrady**	**Regan**	**McGough**	**Murray**	**Write-In**
1		1		1	1				1				1		1	1	1		
Subtotal	**0**	**1**	**0**	**1**	**1**	**0**	**0**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**1**	**1**	**1**	**0**	**0**

Machine #
0004901

	County Chief Executive			County Controller		District Attorney		County Treasurer		Member of County Council At-Large				Member of County Council		School Director			Constable	
	(vote for one)			(vote for one)		(vote for one)		(vote for one)		(vote for one)				(vote for one)		(vote for not more than two)			(vote for not more than two)	
Public Count #	**Fitzgerald**	**Koger**	**Write-in**	**Wagner**	**Write-in**	**Zappala**	**Write-in**	**Weinstein**	**Write-in**	**DeFazio**	**DeMarco**	**Koger**	**Write-in**	**Futules**	**Write-in**	**Hanford**	**Cohen**	**Write-in**	**Marshall**	**Write-in**
1	1			1		1		1		1				1		1	1		1	
Subtotal	**1**	**0**	**0**	**1**	**0**	**1**	**0**	**1**	**0**	**1**	**0**	**0**	**0**	**1**	**0**	**1**	**1**	**0**	**1**	**0**

Machine #
0004901

	Retention of Judge Borkowski		Retention of Judge Flaherty		Retention of Judge Hens-Greco		Retention of Judge Hertzberg		Retention of Judge Lazzara		Retention of Judge Mariani		Retention of Judge McDaniel		Retention of Judge Woodruff	
	Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No		Yes/No	
Public Count #	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**	**Yes**	**No**
1		1		1	1		1			1		1	1		1	
Subtotal	**0**	**1**	**0**	**1**	**1**	**0**	**1**	**0**	**0**	**1**	**0**	**1**	**1**	**0**	**1**	**0**

Exhibit D

Terminal S/N: V5173032->
PEB S/N PS215112-_ (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

2015 General Election
HARRISON WARD 4 DIST 2
POLLING LOCATION RESULTS

Public Count Statistics

Total Ballots Cast:	154
Total Ballots Counted:	154

Number of Terminals Opened:	3

Individual Voter Terminal Data

S/N V5184834

Public Count:	93
Protective Count:	3643
OPENED 06:54:44 11/03/2015	
CLOSED 20:03:49 11/03/2015	
Terminal Ballots Counted:	93

S/N V5186652

Public Count:	60
Protective Count:	3666
OPENED 06:56:26 11/03/2015	
CLOSED 20:05:29 11/03/2015	
Terminal Ballots Counted:	60

S/N V5173032

Public Count:	1
Protective Count:	2837
OPENED 07:00:09 11/03/2015	
CLOSED 20:09:23 11/03/2015	
Terminal Ballots Counted:	1

****
PRECINCT: HARRISON WARD 4 DIST 2

Public Count:	154
Ballot Style Counts	
Ballot Style #267	154

Straight Party Option		
(Vote for 1)	Total:	0
DEM-Democratic		0
REP-Republican		0
CON-Constitution		0
AFC-Albaugh for Council		0
DSB-Dave Schuilenburg		0
EDS-Elect Darlene Schreiber		0
GRN-Green		0
IND-Independent		0
IJA-Independent Judicial Alliance		0
LIB-Libertarian		0
NAI-New Afrikan Independence		0
OVE-Overly's Electric		0
WBC-Wall Boro Council		0
UnderVotes For Above contest:		154
JUSTICE OF THE SUPREME COURT		
(Vote for 3)	Total:	462
DEM-David Wecht		71
DEM-Kevin M. Dougherty		76
DEM-Christine Donohue		63
REP-Judy Olson		66
REP-Mike George		75
REP-Anne Covey		69
IJA-Paul P. Panepinto		42
>Write-ins in above contest:		0
UnderVotes For Above contest:		0
JUDGE OF THE SUPERIOR COURT		
(Vote for 1)	Total:	154
DEM-Alice Beck Dubow		74
REP-Emil Giordano		80
>Write-ins in above contest:		0
UnderVotes For Above contest:		0
JUDGE OF THE COMMONWEALTH COURT		
(Vote for 1)	Total:	154
DEM-Michael Wojcik		79
REP-Paul Lalley		75
>Write-ins in above contest:		0
UnderVotes For Above contest:		0

JUDGE OF THE COURT OF COMMON PLEAS
(Vote for 3) Total: 434

DEM/REP-	
-Jennifer Staley McCrady	97
DEM/REP-	
-Dan Regan	108
DEM-Hugh Fitzpatrick McGough	124
REP-P. J. Murray	105
>Write-ins in above contest:	0
UnderVotes For Above contest:	28

COUNTY CHIEF EXECUTIVE
(Vote for 1) Total: 154

DEM-Rich Fitzgerald	80
IND-Todd Elliott Koger	74
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

COUNTY CONTROLLER
(Vote for 1) Total: 154

DEM/REP-	
-Chelsa Wagner	154
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

DISTRICT ATTORNEY
(Vote for 1) Total: 154

DEM-Stephen A. Zappala, Jr.	154
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

COUNTY TREASURER
(Vote for 1) Total: 154

DEM/REP-	
-John K. Weinstein	154
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

COUNTY COUNCIL AT-LARGE
(Vote for 1) Total: 154

DEM-John P. DeFazio	56
REP-Sam DeMarco	51
IND-Todd Elliott Koger	47
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

CNTCL07 Member of County Council 4 Year
(Vote for 1) Total: 154

DEM-Nick Futules	154
>Write-ins in above contest:	0
UnderVotes For Above contest:	0

SCHO034 SCHOOL DIRECTOR 4

(Vote for 2)	Total:	238
DEM/REP-		
-Ryan E. Hanford		119
DEM/REP-		
-Heath Cohen		119
>Write-ins in above contest:		0
UnderVotes For Above contest:		70

MUN152 Constable

(Vote for 2)	Total:	154
DEM-Gary L. Marshall		154
>Write-ins in above contest:		0
UnderVotes For Above contest:		154

Retention of Judge Borkowski

(Vote for 1)	Total:	154
Yes		140
No		14
UnderVotes For Above contest:		0

Retention of Judge Flaherty

(Vote for 1)	Total:	154
Yes		145
No		9
UnderVotes For Above contest:		0

Retention of Judge Hens-Greco

(Vote for 1)	Total:	154
Yes		97
No		57
UnderVotes For Above contest:		0

Retention of Judge Hertzberg

(Vote for 1)	Total:	154
Yes		144
No		10
UnderVotes For Above contest:		0

Retention of Judge Lazzara

(Vote for 1)	Total:	154
Yes		137
No		17
UnderVotes For Above contest:		0

Retention of Judge Mariani

(Vote for 1)	Total:	154
Yes		143
No		11
UnderVotes For Above contest:		0

Retention of Judge McDaniel

(Vote for 1)	Total:	154
Yes		137
No		17
UnderVotes For Above contest:		0

Retention of Judge Woodruff

(Vote for 1)	Total:	154
Yes		90
No		64
UnderVotes For Above contest:		0

Time/Date: 21:17:04 11/03/2015

Signature: _____

Signature: _____

Signature: _____

Signature: _____

Exhibit E

{F2BC86EA-FCFC-4640-8C7F-C5D82C561743}

PRECINCT REPORT
RUN DATE:12/10/15
RUN TIME:09:29 AM

0267 HARRISON WARD 4 DIST 2

	VOTES	PERCENT
REGISTERED VOTERS - TOTAL	547	
BALLOTS CAST - TOTAL	154	
VOTER TURNOUT - TOTAL		28.15

Straight Party
Vote for 1

Democratic (DEM)	0	
Republican (REP)	0	
Constitution (CON)	0	
Albaugh for Council (AFC)	0	
Dave Schuilenburg (DSB)	0	
Elect Darlene Schrei (EDS)	0	
Green (GRN)	0	
Independent (IND)	0	
Independent Judicial (IJA)	0	
Libertarian (LIB)	0	
New Afrikan Independ (NAI)	0	
Overly's Electric (OVE)	0	
Wall Boro Council (WBC)	0	
Over Votes	0	
Under Votes	154	

Justice of the Supreme Court
Vote for 3

David Wecht (DEM)	71	15.37
Kevin M. Dougherty (DEM)	76	16.45
Christine Donohue (DEM)	63	13.64
Judy Olson (REP)	66	14.29
Mike George (REP)	75	16.23
Anne Covey (REP)	69	14.94
Paul P. Panepinto (IJA)	42	9.09
WRITE-IN	0	
Over Votes	0	
Under Votes	0	

Judge of the Superior Court
Vote for 1

Alice Beck Dubow (DEM)	74	48.05
Emil Giordano (REP)	80	51.95
WRITE-IN	0	
Over Votes	0	
Under Votes	0	

Judge of the Commonwealth Court
Vote for 1

Michael Wojcik (DEM)	79	51.30
Paul Lalley (REP)	75	48.70
WRITE-IN	0	
Over Votes	0	
Under Votes	0	

Judge of the Court of Common Pleas
Vote for 3

Jennifer Staley McCrady (DEM/REP)	97	22.35
Dan Regan (DEM/REP)	108	24.88
Hugh Fitzpatrick McGough (DEM)	124	28.57
P. J. Murray (REP)	105	24.19
WRITE-IN.	0	
Over Votes	0	
Under Votes	28	

County Chief Executive
Vote for 1

Rich Fitzgerald (DEM)	80	51.95
Todd Elliott Koger (IND)	74	48.05
WRITE-IN.	0	
Over Votes	0	
Under Votes	0	

County Controller
Vote for 1

Chelsa Wagner (DEM/REP).	154	100.00
WRITE-IN.	0	
Over Votes	0	
Under Votes	0	

District Attorney
Vote for 1

Stephen A. Zappala, Jr. (DEM).	154	100.00
WRITE-IN.	0	
Over Votes	0	
Under Votes	0	

County Treasurer
Vote for 1

John K. Weinstein (DEM/REP)	154	100.00
WRITE-IN.	0	
Over Votes	0	
Under Votes	0	

Member of County Council At-Large
Vote for 1

John P. DeFazio (DEM)	56	36.36
Sam DeMarco (REP).	51	33.12
Todd Elliott Koger (IND)	47	30.52
WRITE-IN.	0	
Over Votes	0	
Under Votes	0	

Member of County Council DISTRICT 7
Vote for 1

Nick Futules (DEM)	154	100.00
WRITE-IN.	0	
Over Votes	0	
Under Votes	0	

School Director HIGHLANDS REGION 3
Vote for 2

Ryan E. Hanford (DEM/REP)	119	50.00
Heath Cohen (DEM/REP)	119	50.00

WRITE-IN.	0	
Over Votes	0	
Under Votes	70	

Constable HARRISON
Vote for 2

Gary L. Marshall (DEM)	154	100.00
WRITE-IN.	0	
Over Votes	0	
Under Votes	154	

Retention of Judge Borkowski
Vote for 1

Yes	140	90.91
No.	14	9.09
Over Votes	0	
Under Votes	0	

Retention of Judge Flaherty
Vote for 1

Yes	145	94.16
No.	9	5.84
Over Votes	0	
Under Votes	0	

Retention of Judge Hens-Greco
Vote for 1

Yes	97	62.99
No.	57	37.01
Over Votes	0	
Under Votes	0	

Retention of Judge Hertzberg
Vote for 1

Yes	144	93.51
No.	10	6.49
Over Votes	0	
Under Votes	0	

Retention of Judge Lazzara
Vote for 1

Yes	137	88.96
No.	17	11.04
Over Votes	0	
Under Votes	0	

Retention of Judge Mariani
Vote for 1

Yes	143	92.86
No.	11	7.14
Over Votes	0	
Under Votes	0	

Retention of Judge McDaniel
Vote for 1

Yes	137	88.96

No.	17	11.04
Over Votes	0	
Under Votes	0	

Retention of Judge Woodruff
Vote for 1

Yes	90	58.44
No.	64	41.56
Over Votes	0	
Under Votes	0	

PREC REPORT-GROUP DETAIL
RUN DATE:12/10/15 09:47 AM

0267 HARRISON WARD 4 DIST 2

	TOTAL VOTES	%	5186652	5173032	5184834
REGISTERED VOTERS - TOTAL	547				
BALLOTS CAST - TOTAL	154		60	1	93
VOTER TURNOUT - TOTAL		28.15			
Straight Party					
Vote for 1					
Democratic (DEM)	0		0	0	0
Republican (REP)	0		0	0	0
Constitution (CON)	0		0	0	0
Albaugh for Council (AFC)	0		0	0	0
Dave Schuilenburg (DSB)	0		0	0	0
Elect Darlene Schrei (EDS)	0		0	0	0
Green (GRN)	0		0	0	0
Independent (IND)	0		0	0	0
Independent Judicial (IJA)	0		0	0	0
Libertarian (LIB)	0		0	0	0
New Afrikan Independ (NAI)	0		0	0	0
Overly's Electric (OVE)	0		0	0	0
Wall Boro Council (WBC)	0		0	0	0
Justice of the Supreme Court					
Vote for 3					
David Wecht (DEM)	71	15.37	25	0	46
Kevin M. Dougherty (DEM)	76	16.45	32	1	43
Christine Donohue (DEM)	63	13.64	22	0	41
Judy Olson (REP)	66	14.29	26	1	39
Mike George (REP)	75	16.23	29	1	45
Anne Covey (REP)	69	14.94	28	0	41
Paul P. Panepinto (IJA)	42	9.09	18	0	24
WRITE-IN	0		0	0	0
Judge of the Superior Court					
Vote for 1					
Alice Beck Dubow (DEM)	74	48.05	28	1	45
Emil Giordano (REP)	80	51.95	32	0	48
WRITE-IN	0		0	0	0
Judge of the Commonwealth Court					
Vote for 1					

Michael Wojcik (DEM).	79	51.30	32	0	47
Paul Lalley (REP).	75	48.70	28	1	46
WRITE-IN.	0		0	0	0

Judge of the Court of Common Pleas
Vote for 3

Jennifer Staley McCrady (DEM/REP) . . .	97	22.35	36	1	60
Dan Regan (DEM/REP)	108	24.88	43	1	64
Hugh Fitzpatrick McGough (DEM)	124	28.57	48	1	75
P. J. Murray (REP)	105	24.19	41	0	64
WRITE-IN.	0		0	0	0

County Chief Executive
Vote for 1

Rich Fitzgerald (DEM)	80	51.95	32	1	47
Todd Elliott Koger (IND)	74	48.05	28	0	46
WRITE-IN.	0		0	0	0

County Controller
Vote for 1

Chelsa Wagner (DEM/REP).	154	100.00	60	1	93
WRITE-IN.	0		0	0	0

District Attorney
Vote for 1

Stephen A. Zappala, Jr. (DEM).	154	100.00	60	1	93
WRITE-IN.	0		0	0	0

County Treasurer
Vote for 1

John K. Weinstein (DEM/REP)	154	100.00	60	1	93
WRITE-IN.	0		0	0	0

Member of County Council At-Large
Vote for 1

John P. DeFazio (DEM)	56	36.36	22	1	33
Sam DeMarco (REP).	51	33.12	17	0	34
Todd Elliott Koger (IND)	47	30.52	21	0	26
WRITE-IN.	0		0	0	0

Member of County Council DISTRICT 7
Vote for 1

Nick Futules (DEM)	154	100.00	60	1	93
WRITE-IN.	0		0	0	0

School Director HIGHLANDS REGION 3
Vote for 2

Ryan E. Hanford (DEM/REP)	119	50.00	59	1	59
Heath Cohen (DEM/REP)	119	50.00	53	1	65
WRITE-IN.	0		0	0	0

Constable HARRISON
Vote for 2

Gary L. Marshall (DEM)	154	100.00	60	1	93
WRITE-IN.	0		0	0	0

Retention of Judge Borkowski
Vote for 1

Yes	140	90.91	56	0	84
No.	14	9.09	4	1	9

Retention of Judge Flaherty
Vote for 1

Yes	145	94.16	55	0	90
No.	9	5.84	5	1	3

Retention of Judge Hens-Greco
Vote for 1

Yes	97	62.99	9	1	87
No.	57	37.01	51	0	6

Retention of Judge Hertzberg
Vote for 1

Yes	144	93.51	57	1	86
No.	10	6.49	3	0	7

Retention of Judge Lazzara
Vote for 1

Yes	137	88.96	55	0	82
No.	17	11.04	5	1	11

Retention of Judge Mariani
Vote for 1

Yes	143	92.86	55	0	88
No.	11	7.14	5	1	5

Retention of Judge McDaniel
Vote for 1

Yes	137	88.96	54	1	82
No.	17	11.04	6	0	11

Retention of Judge Woodruff
Vote for 1

Yes	90	58.44	4	1	85
No.	64	41.56	56	0	8

Exhibit F

DistrictID	REP	DEM	LIBERTARIAN	ALL OTHER	TOTAL	DistrictName	CountyName
1010001	675	487	5	142	1309	ALEPPO 00 01	ALLEGHENY
1020001	276	404	5	134	819	ASPINWALL 00 01	ALLEGHENY
1020002	210	232	1	96	539	ASPINWALL 00 02	ALLEGHENY
1020003	269	412	7	137	825	ASPINWALL 00 03	ALLEGHENY
1030100	241	619	10	142	1012	AVALON 01 00	ALLEGHENY
1030201	165	377	8	95	645	AVALON 02 01	ALLEGHENY
1030202	142	244	4	62	452	AVALON 02 02	ALLEGHENY
1030301	77	183	3	48	311	AVALON 03 01	ALLEGHENY
1030302	131	248	3	67	449	AVALON 03 02	ALLEGHENY
1030303	130	252	1	64	447	AVALON 03 03	ALLEGHENY
1040001	115	377	0	58	550	BALDWIN BR 00 01	ALLEGHENY
1040002	217	576	5	114	912	BALDWIN BR 00 02	ALLEGHENY
1040003	172	516	3	69	760	BALDWIN BR 00 03	ALLEGHENY
1040004	181	439	3	76	699	BALDWIN BR 00 04	ALLEGHENY
1040005	173	478	2	88	741	BALDWIN BR 00 05	ALLEGHENY
1040006	193	428	3	83	707	BALDWIN BR 00 06	ALLEGHENY
1040007	219	436	5	87	747	BALDWIN BR 00 07	ALLEGHENY
1040008	184	395	4	81	664	BALDWIN BR 00 08	ALLEGHENY
1040009	214	417	6	69	706	BALDWIN BR 00 09	ALLEGHENY
1040010	169	531	9	140	849	BALDWIN BR 00 10	ALLEGHENY
1040011	189	552	3	112	856	BALDWIN BR 00 11	ALLEGHENY
1040012	115	425	1	55	596	BALDWIN BR 00 12	ALLEGHENY
1040013	152	422	2	64	640	BALDWIN BR 00 13	ALLEGHENY
1040014	157	355	4	46	562	BALDWIN BR 00 14	ALLEGHENY
1040015	173	500	4	66	743	BALDWIN BR 00 15	ALLEGHENY
1040016	196	557	2	96	851	BALDWIN BR 00 16	ALLEGHENY
1040017	167	397	3	66	633	BALDWIN BR 00 17	ALLEGHENY
1040018	214	537	2	96	849	BALDWIN BR 00 18	ALLEGHENY
1050001	232	402	4	91	729	BALDWIN TP 00 01	ALLEGHENY
1050002	176	401	9	77	663	BALDWIN TP 00 02	ALLEGHENY
1060001	479	387	4	158	1028	BELL ACRES 00 01	ALLEGHENY
1070101	232	543	8	166	949	BELLEVUE 01 01	ALLEGHENY
1070102	213	518	10	152	893	BELLEVUE 01 02	ALLEGHENY
1070201	241	650	11	152	1054	BELLEVUE 02 01	ALLEGHENY
1070202	249	510	11	150	920	BELLEVUE 02 02	ALLEGHENY
1070301	241	484	8	177	910	BELLEVUE 03 01	ALLEGHENY
1070302	253	440	13	123	829	BELLEVUE 03 02	ALLEGHENY
1080001	152	231	3	65	451	BEN AVON 00 01	ALLEGHENY
1080002	306	428	12	131	877	BEN AVON 00 02	ALLEGHENY
1090001	154	111	3	34	302	BEN AVON HT 00 01	ALLEGHENY
1100101	332	383	5	116	836	BETHEL PARK 01 01	ALLEGHENY
1100102	218	451	4	84	757	BETHEL PARK 01 02	ALLEGHENY
1100103	285	403	6	83	777	BETHEL PARK 01 03	ALLEGHENY
1100201	367	278	4	57	706	BETHEL PARK 02 01	ALLEGHENY
1100202	406	341	6	106	859	BETHEL PARK 02 02	ALLEGHENY
1100203	396	515	6	148	1065	BETHEL PARK 02 03	ALLEGHENY

1100301	342	327	6	87	762	BETHEL PARK 03 01	ALLEGHENY
1100302	428	358	6	89	881	BETHEL PARK 03 02	ALLEGHENY
1100303	468	418	3	119	1008	BETHEL PARK 03 03	ALLEGHENY
1100401	421	565	6	114	1106	BETHEL PARK 04 01	ALLEGHENY
1100402	267	401	5	76	749	BETHEL PARK 04 02	ALLEGHENY
1100403	360	356	6	96	818	BETHEL PARK 04 03	ALLEGHENY
1100501	195	285	2	68	550	BETHEL PARK 05 01	ALLEGHENY
1100502	180	315	4	97	596	BETHEL PARK 05 02	ALLEGHENY
1100503	544	625	9	193	1371	BETHEL PARK 05 03	ALLEGHENY
1100601	529	508	7	124	1168	BETHEL PARK 06 01	ALLEGHENY
1100602	348	416	6	114	884	BETHEL PARK 06 02	ALLEGHENY
1100603	333	290	2	96	721	BETHEL PARK 06 03	ALLEGHENY
1100701	458	470	9	138	1075	BETHEL PARK 07 01	ALLEGHENY
1100702	444	384	5	81	914	BETHEL PARK 07 02	ALLEGHENY
1100703	284	331	5	98	718	BETHEL PARK 07 03	ALLEGHENY
1100801	193	230	3	52	478	BETHEL PARK 08 01	ALLEGHENY
1100802	164	300	4	48	516	BETHEL PARK 08 02	ALLEGHENY
1100803	467	533	9	129	1138	BETHEL PARK 08 03	ALLEGHENY
1100804	167	189	3	74	433	BETHEL PARK 08 04	ALLEGHENY
1100901	269	226	4	56	555	BETHEL PARK 09 01	ALLEGHENY
1100902	289	289	3	84	665	BETHEL PARK 09 02	ALLEGHENY
1100903	600	501	9	163	1273	BETHEL PARK 09 03	ALLEGHENY
1110001	220	605	8	142	975	BLAWNOX 00 01	ALLEGHENY
1120100	99	307	3	65	474	BRACKENRIDGE 01 00	ALLEGHENY
1120200	191	424	7	88	710	BRACKENRIDGE 02 00	ALLEGHENY
1120300	168	356	6	84	614	BRACKENRIDGE 03 00	ALLEGHENY
1130100	19	467	1	40	527	BRADDOCK 01 00	ALLEGHENY
1130200	31	501	4	42	578	BRADDOCK 02 00	ALLEGHENY
1130300	22	380	3	39	444	BRADDOCK 03 00	ALLEGHENY
1140001	112	594	0	64	770	BRADDOCK HL 00 01	ALLEGHENY
1140002	70	390	4	43	507	BRADDOCK HL 00 02	ALLEGHENY
1150001	497	324	8	131	960	BRADFORDWOOD 00 01	ALLEGHENY
1160001	179	281	2	63	525	BRENTWOOD 00 01	ALLEGHENY
1160002	207	401	10	98	716	BRENTWOOD 00 02	ALLEGHENY
1160003	148	344	3	70	565	BRENTWOOD 00 03	ALLEGHENY
1160004	186	458	2	99	745	BRENTWOOD 00 04	ALLEGHENY
1160005	140	404	5	87	636	BRENTWOOD 00 05	ALLEGHENY
1160006	154	367	6	103	630	BRENTWOOD 00 06	ALLEGHENY
1160007	203	373	7	98	681	BRENTWOOD 00 07	ALLEGHENY
1160008	207	381	0	76	664	BRENTWOOD 00 08	ALLEGHENY
1160009	157	327	3	66	553	BRENTWOOD 00 09	ALLEGHENY
1160010	162	293	2	73	530	BRENTWOOD 00 10	ALLEGHENY
1170001	219	419	3	86	727	BRIDGEVILLE 00 01	ALLEGHENY
1170002	231	463	7	118	819	BRIDGEVILLE 00 02	ALLEGHENY
1170003	270	400	4	96	770	BRIDGEVILLE 00 03	ALLEGHENY
1170004	316	486	7	118	927	BRIDGEVILLE 00 04	ALLEGHENY
1180101	107	269	2	95	473	CARNEGIE 01 01	ALLEGHENY

1180102	302	553	9	167	1031	CARNEGIE 01 02	ALLEGHENY
1180103	188	497	5	87	777	CARNEGIE 01 03	ALLEGHENY
1180104	51	233	2	59	345	CARNEGIE 01 04	ALLEGHENY
1180201	161	339	1	88	589	CARNEGIE 02 01	ALLEGHENY
1180202	119	302	8	64	493	CARNEGIE 02 02	ALLEGHENY
1180203	133	270	2	47	452	CARNEGIE 02 03	ALLEGHENY
1180204	191	541	3	131	866	CARNEGIE 02 04	ALLEGHENY
1190001	273	493	5	144	915	CASL SHANNON 00 01	ALLEGHENY
1190002	235	430	12	107	784	CASL SHANNON 00 02	ALLEGHENY
1190003	187	416	7	121	731	CASL SHANNON 00 03	ALLEGHENY
1190004	172	330	4	91	597	CASL SHANNON 00 04	ALLEGHENY
1190005	149	358	1	85	593	CASL SHANNON 00 05	ALLEGHENY
1190006	163	351	5	57	576	CASL SHANNON 00 06	ALLEGHENY
1190007	181	445	3	87	716	CASL SHANNON 00 07	ALLEGHENY
1190008	152	304	4	65	525	CASL SHANNON 00 08	ALLEGHENY
1200001	133	357	5	59	554	CHALFANT 00 01	ALLEGHENY
1210001	175	340	3	73	591	CHESWICK 00 01	ALLEGHENY
1210002	185	362	1	55	603	CHESWICK 00 02	ALLEGHENY
1220001	202	399	2	45	648	CHURCHILL 00 01	ALLEGHENY
1220002	183	400	3	87	673	CHURCHILL 00 02	ALLEGHENY
1220003	228	306	4	74	612	CHURCHILL 00 03	ALLEGHENY
1220004	244	344	6	70	664	CHURCHILL 00 04	ALLEGHENY
1230101	48	265	1	33	347	CLAIRTON 01 01	ALLEGHENY
1230102	52	296	1	40	389	CLAIRTON 01 02	ALLEGHENY
1230103	59	246	1	35	341	CLAIRTON 01 03	ALLEGHENY
1230201	4	122	0	7	133	CLAIRTON 02 01	ALLEGHENY
1230202	13	295	4	18	330	CLAIRTON 02 02	ALLEGHENY
1230203	23	390	0	24	437	CLAIRTON 02 03	ALLEGHENY
1230301	59	353	1	33	446	CLAIRTON 03 01	ALLEGHENY
1230302	42	307	0	21	370	CLAIRTON 03 02	ALLEGHENY
1230303	49	340	0	36	425	CLAIRTON 03 03	ALLEGHENY
1230401	20	352	0	21	393	CLAIRTON 04 01	ALLEGHENY
1230402	21	347	1	25	394	CLAIRTON 04 02	ALLEGHENY
1230403	66	328	4	39	437	CLAIRTON 04 03	ALLEGHENY
1240001	1183	1053	14	320	2570	COLLIER 00 01	ALLEGHENY
1240002	499	704	9	144	1356	COLLIER 00 02	ALLEGHENY
1240003	364	737	3	125	1229	COLLIER 00 03	ALLEGHENY
1240004	194	279	1	64	538	COLLIER 00 04	ALLEGHENY
1250101	88	311	5	45	449	CORAOPOLIS 01 01	ALLEGHENY
1250102	108	316	3	53	480	CORAOPOLIS 01 02	ALLEGHENY
1250200	140	549	5	69	763	CORAOPOLIS 02 00	ALLEGHENY
1250301	161	343	5	69	578	CORAOPOLIS 03 01	ALLEGHENY
1250302	178	312	2	76	568	CORAOPOLIS 03 02	ALLEGHENY
1250401	123	228	1	56	408	CORAOPOLIS 04 01	ALLEGHENY
1250402	117	301	6	50	474	CORAOPOLIS 04 02	ALLEGHENY
1260101	219	481	15	98	813	CRAFTON 01 01	ALLEGHENY
1260102	144	329	5	95	573	CRAFTON 01 02	ALLEGHENY

1260201	166	327	4	79	576	CRAFTON 02 01	ALLEGHENY
1260202	152	468	6	112	738	CRAFTON 02 02	ALLEGHENY
1260301	281	479	5	136	901	CRAFTON 03 01	ALLEGHENY
1260302	162	294	2	76	534	CRAFTON 03 02	ALLEGHENY
1270100	378	521	9	129	1037	CRESCENT 01 00	ALLEGHENY
1270200	228	313	2	82	625	CRESCENT 02 00	ALLEGHENY
1280001	187	392	11	107	697	DORMONT 00 01	ALLEGHENY
1280002	153	289	3	63	508	DORMONT 00 02	ALLEGHENY
1280003	207	490	12	155	864	DORMONT 00 03	ALLEGHENY
1280004	149	355	5	82	591	DORMONT 00 04	ALLEGHENY
1280005	243	574	9	171	997	DORMONT 00 05	ALLEGHENY
1280006	135	292	4	74	505	DORMONT 00 06	ALLEGHENY
1280007	98	301	2	73	474	DORMONT 00 07	ALLEGHENY
1280008	103	224	5	51	383	DORMONT 00 08	ALLEGHENY
1280009	119	278	4	69	470	DORMONT 00 09	ALLEGHENY
1280010	146	341	3	79	569	DORMONT 00 10	ALLEGHENY
1290001	146	330	2	58	536	DRAVOSBURG 00 01	ALLEGHENY
1290002	109	223	2	35	369	DRAVOSBURG 00 02	ALLEGHENY
1290003	47	196	1	24	268	DRAVOSBURG 00 03	ALLEGHENY
1300101	55	341	2	37	435	DUQUESNE 01 01	ALLEGHENY
1300102	41	393	0	54	488	DUQUESNE 01 02	ALLEGHENY
1300103	18	215	0	27	260	DUQUESNE 01 03	ALLEGHENY
1300104	18	172	2	20	212	DUQUESNE 01 04	ALLEGHENY
1300201	22	328	1	37	388	DUQUESNE 02 01	ALLEGHENY
1300202	33	358	0	18	409	DUQUESNE 02 02	ALLEGHENY
1300203	43	355	4	29	431	DUQUESNE 02 03	ALLEGHENY
1300301	11	179	0	7	197	DUQUESNE 03 01	ALLEGHENY
1300302	12	155	0	13	180	DUQUESNE 03 02	ALLEGHENY
1300303	59	427	3	41	530	DUQUESNE 03 03	ALLEGHENY
1320001	96	251	6	31	384	E MCKEESPORT 00 01	ALLEGHENY
1320002	94	326	2	61	483	E MCKEESPORT 00 02	ALLEGHENY
1320003	119	285	5	44	453	E MCKEESPORT 00 03	ALLEGHENY
1330100	33	262	0	35	330	E PITTSBURGH 01 00	ALLEGHENY
1330200	32	309	2	36	379	E PITTSBURGH 02 00	ALLEGHENY
1330300	35	392	0	39	466	E PITTSBURGH 03 00	ALLEGHENY
1310100	63	191	1	34	289	EAST DEER 01 00	ALLEGHENY
1310200	143	321	3	82	549	EAST DEER 02 00	ALLEGHENY
1340001	166	586	6	143	901	EDGEWOOD 00 01	ALLEGHENY
1340002	208	542	6	142	898	EDGEWOOD 00 02	ALLEGHENY
1340003	144	515	10	150	819	EDGEWOOD 00 03	ALLEGHENY
1350001	333	194	1	99	627	EDGEWORTH 00 01	ALLEGHENY
1350002	365	229	0	86	680	EDGEWORTH 00 02	ALLEGHENY
1360001	297	475	8	99	879	ELIZABETH BR 00 01	ALLEGHENY
1370101	169	347	1	34	551	ELIZABETH TP 01 01	ALLEGHENY
1370102	341	451	4	65	861	ELIZABETH TP 01 02	ALLEGHENY
1370200	473	621	2	109	1205	ELIZABETH TP 02 00	ALLEGHENY
1370300	400	721	2	113	1236	ELIZABETH TP 03 00	ALLEGHENY

1370401	293	460	4	73	830	ELIZABETH TP 04 01	ALLEGHENY
1370402	164	235	1	25	425	ELIZABETH TP 04 02	ALLEGHENY
1370501	160	201	1	43	405	ELIZABETH TP 05 01	ALLEGHENY
1370502	239	434	2	80	755	ELIZABETH TP 05 02	ALLEGHENY
1370601	226	313	2	48	589	ELIZABETH TP 06 01	ALLEGHENY
1370602	212	395	4	59	670	ELIZABETH TP 06 02	ALLEGHENY
1370700	311	762	3	94	1170	ELIZABETH TWP 07 00	ALLEGHENY
1380001	232	387	7	112	738	EMSWORTH 00 01	ALLEGHENY
1380002	264	495	10	142	911	EMSWORTH 00 02	ALLEGHENY
1390100	169	482	7	125	783	ETNA 01 00	ALLEGHENY
1390200	142	392	3	109	646	ETNA 02 00	ALLEGHENY
1390300	175	405	1	89	670	ETNA 03 00	ALLEGHENY
1400001	174	279	3	56	512	FAWN 00 01	ALLEGHENY
1400002	334	418	6	80	838	FAWN 00 02	ALLEGHENY
1410001	351	434	4	95	884	FINDLAY 00 01	ALLEGHENY
1410002	581	718	7	180	1486	FINDLAY 00 02	ALLEGHENY
1410003	409	549	8	141	1107	FINDLAY 00 03	ALLEGHENY
1420001	176	355	2	84	617	FOREST HILLS 00 01	ALLEGHENY
1420002	165	366	4	66	601	FOREST HILLS 00 02	ALLEGHENY
1420003	187	319	7	80	593	FOREST HILLS 00 03	ALLEGHENY
1420004	149	464	5	79	697	FOREST HILLS 00 04	ALLEGHENY
1420005	183	367	3	87	640	FOREST HILLS 00 05	ALLEGHENY
1420006	152	315	5	59	531	FOREST HILLS 00 06	ALLEGHENY
1420007	141	447	7	106	701	FOREST HILLS 00 07	ALLEGHENY
1420008	199	385	2	71	657	FOREST HILLS 00 08	ALLEGHENY
1430001	118	180	3	34	335	FORWARD 00 01	ALLEGHENY
1430002	246	509	4	82	841	FORWARD 00 02	ALLEGHENY
1430003	90	249	1	31	371	FORWARD 00 03	ALLEGHENY
1430004	121	271	4	40	436	FORWARD 00 04	ALLEGHENY
1440001	341	313	1	105	760	FOX CHAPEL 00 01	ALLEGHENY
1440002	439	341	9	139	928	FOX CHAPEL 00 02	ALLEGHENY
1440003	360	246	4	93	703	FOX CHAPEL 00 03	ALLEGHENY
1440004	489	423	8	185	1105	FOX CHAPEL 00 04	ALLEGHENY
1440005	428	269	4	122	823	FOX CHAPEL 00 05	ALLEGHENY
1450101	515	375	9	167	1066	FRANKLIN PK 01 01	ALLEGHENY
1450102	502	335	9	202	1048	FRANKLIN PK 01 02	ALLEGHENY
1450103	586	442	6	200	1234	FRANKLIN PK 01 03	ALLEGHENY
1450201	396	333	7	196	932	FRANKLIN PK 02 01	ALLEGHENY
1450202	598	376	5	165	1144	FRANKLIN PK 02 02	ALLEGHENY
1450203	573	406	7	198	1184	FRANKLIN PK 02 03	ALLEGHENY
1450301	601	383	5	210	1199	FRANKLIN PK 03 01	ALLEGHENY
1450302	357	270	3	121	751	FRANKLIN PK 03 02	ALLEGHENY
1450303	615	370	6	164	1155	FRANKLIN PK 03 03	ALLEGHENY
1460001	261	372	3	71	707	FRAZER 00 01	ALLEGHENY
1470001	118	380	2	45	545	GLASSPORT 00 01	ALLEGHENY
1470002	66	265	1	49	381	GLASSPORT 00 02	ALLEGHENY
1470003	64	424	4	39	531	GLASSPORT 00 03	ALLEGHENY

1470004	47	157	0	24	228	GLASSPORT 00 04	ALLEGHENY
1470005	79	343	0	47	469	GLASSPORT 00 05	ALLEGHENY
1470006	68	329	1	28	426	GLASSPORT 00 06	ALLEGHENY
1840001	184	163	3	56	406	GLEN OSBORNE 00 01	ALLEGHENY
1480001	52	62	2	16	132	GLENFIELD 00 01	ALLEGHENY
1490001	268	402	5	81	756	GREENTREE 00 01	ALLEGHENY
1490002	381	506	3	128	1018	GREENTREE 00 02	ALLEGHENY
1490003	308	397	4	99	808	GREENTREE 00 03	ALLEGHENY
1490004	221	427	4	92	744	GREENTREE 00 04	ALLEGHENY
1500001	533	399	7	156	1095	HAMPTON 00 01	ALLEGHENY
1500002	487	435	10	137	1069	HAMPTON 00 02	ALLEGHENY
1500003	587	453	6	181	1227	HAMPTON 00 03	ALLEGHENY
1500004	204	281	2	79	566	HAMPTON 00 04	ALLEGHENY
1500005	254	316	7	94	671	HAMPTON 00 05	ALLEGHENY
1500006	317	243	3	54	617	HAMPTON 00 06	ALLEGHENY
1500007	640	405	8	156	1209	HAMPTON 00 07	ALLEGHENY
1500008	415	352	3	106	876	HAMPTON 00 08	ALLEGHENY
1500009	493	530	6	146	1175	HAMPTON 00 09	ALLEGHENY
1500010	559	585	6	189	1339	HAMPTON 00 10	ALLEGHENY
1500011	715	682	7	167	1571	HAMPTON 00 11	ALLEGHENY
1500012	335	320	4	122	781	HAMPTON 00 12	ALLEGHENY
1500013	301	325	5	93	724	HAMPTON 00 13	ALLEGHENY
1510001	467	611	1	102	1181	HARMAR 00 01	ALLEGHENY
1510002	166	462	3	60	691	HARMAR 00 02	ALLEGHENY
1510003	78	237	1	31	347	HARMAR 00 03	ALLEGHENY
1520101	87	149	0	26	262	HARRISON 01 01	ALLEGHENY
1520102	243	271	3	47	564	HARRISON 01 02	ALLEGHENY
1520103	203	294	4	84	585	HARRISON 01 03	ALLEGHENY
1520201	77	199	0	37	313	HARRISON 02 01	ALLEGHENY
1520202	107	372	4	90	573	HARRISON 02 02	ALLEGHENY
1520301	298	514	1	82	895	HARRISON 03 01	ALLEGHENY
1520302	174	341	7	62	584	HARRISON 03 02	ALLEGHENY
1520401	184	363	2	79	628	HARRISON 04 01	ALLEGHENY
1520402	156	325	4	63	548	HARRISON 04 02	ALLEGHENY
1520501	87	311	4	72	474	HARRISON 05 01	ALLEGHENY
1520502	232	417	5	90	744	HARRISON 05 02	ALLEGHENY
1530001	27	20	0	8	55	HAYSVILLE 00 01	ALLEGHENY
1540001	182	494	8	102	786	HEIDELBERG 00 01	ALLEGHENY
1550101	51	451	1	66	569	HOMESTEAD 01 01	ALLEGHENY
1550102	13	302	0	35	350	HOMESTEAD 01 02	ALLEGHENY
1550201	26	309	3	32	370	HOMESTEAD 02 01	ALLEGHENY
1550202	14	295	2	19	330	HOMESTEAD 02 02	ALLEGHENY
1550301	19	464	1	46	530	HOMESTEAD 03 01	ALLEGHENY
1550302	10	258	1	22	291	HOMESTEAD 03 02	ALLEGHENY
1560001	409	383	10	99	901	INDIANA 00 01	ALLEGHENY
1560002	359	362	6	124	851	INDIANA 00 02	ALLEGHENY
1560003	359	507	7	177	1050	INDIANA 00 03	ALLEGHENY

1560004	421	430	8	148	1007	INDIANA 00 04	ALLEGHENY
1560005	354	393	4	123	874	INDIANA 00 05	ALLEGHENY
1570001	171	469	10	102	752	INGRAM 00 01	ALLEGHENY
1570002	133	362	5	76	576	INGRAM 00 02	ALLEGHENY
1570003	229	538	11	90	868	INGRAM 00 03	ALLEGHENY
1580001	598	656	8	155	1417	JEFFERSON HL 00 01	ALLEGHENY
1580002	224	486	9	74	793	JEFFERSON HL 00 02	ALLEGHENY
1580003	203	327	3	69	602	JEFFERSON HL 00 03	ALLEGHENY
1580004	194	346	2	76	618	JEFFERSON HL 00 04	ALLEGHENY
1580005	852	803	18	235	1908	JEFFERSON HL 00 05	ALLEGHENY
1580006	315	482	7	70	874	JEFFERSON HL 00 06	ALLEGHENY
1580007	126	171	3	40	340	JEFFERSON HL 00 07	ALLEGHENY
1580008	392	489	7	83	971	JEFFERSON HL 00 08	ALLEGHENY
1590001	335	1024	4	107	1470	KENNEDY 00 01	ALLEGHENY
1590002	153	515	4	49	721	KENNEDY 00 02	ALLEGHENY
1590003	219	691	4	68	982	KENNEDY 00 03	ALLEGHENY
1590004	47	355	0	30	432	KENNEDY 00 04	ALLEGHENY
1590005	281	826	8	111	1226	KENNEDY 00 05	ALLEGHENY
1590006	151	545	4	56	756	KENNEDY 00 06	ALLEGHENY
1590007	114	362	1	27	504	KENNEDY 00 07	ALLEGHENY
1600001	259	222	5	56	542	KILBUCK 00 01	ALLEGHENY
1610001	123	202	5	48	378	LEET 00 01	ALLEGHENY
1610002	344	259	2	85	690	LEET 00 02	ALLEGHENY
1620001	252	459	8	102	821	LEETSDALE 00 01	ALLEGHENY
1630001	242	525	8	88	863	LIBERTY 00 01	ALLEGHENY
1630002	204	507	7	55	773	LIBERTY 00 02	ALLEGHENY
1640001	199	392	2	56	649	LINCOLN 00 01	ALLEGHENY
1650001	444	246	5	124	819	MARSHALL 00 01	ALLEGHENY
1650002	572	266	7	150	995	MARSHALL 00 02	ALLEGHENY
1650003	378	215	4	124	721	MARSHALL 00 03	ALLEGHENY
1650004	456	308	10	147	921	MARSHALL 00 04	ALLEGHENY
1650005	449	305	12	145	911	MARSHALL 00 05	ALLEGHENY
1650006	454	269	5	174	902	MARSHALL 00 06	ALLEGHENY
1660101	587	300	6	140	1033	MCCANDLESS 01 01	ALLEGHENY
1660102	397	413	9	110	929	MCCANDLESS 01 02	ALLEGHENY
1660103	498	425	12	204	1139	MCCANDLESS 01 03	ALLEGHENY
1660201	588	497	10	227	1322	MCCANDLESS 02 01	ALLEGHENY
1660202	421	284	9	96	810	MCCANDLESS 02 02	ALLEGHENY
1660203	355	321	4	121	801	MCCANDLESS 02 03	ALLEGHENY
1660301	371	385	8	121	885	MCCANDLESS 03 01	ALLEGHENY
1660302	443	391	6	158	998	MCCANDLESS 03 02	ALLEGHENY
1660303	467	382	2	129	980	MCCANDLESS 03 03	ALLEGHENY
1660401	636	585	6	196	1423	MCCANDLESS 04 01	ALLEGHENY
1660402	366	383	10	126	885	MCCANDLESS 04 02	ALLEGHENY
1660403	344	248	2	89	683	MCCANDLESS 04 03	ALLEGHENY
1660501	379	294	9	91	773	MCCANDLESS 05 01	ALLEGHENY
1660502	517	473	8	169	1167	MCCANDLESS 05 02	ALLEGHENY

1660503	352	390	11	135	888	MCCANDLESS 05 03	ALLEGHENY
1660601	192	213	1	64	470	MCCANDLESS 06 01	ALLEGHENY
1660602	439	412	3	128	982	MCCANDLESS 06 02	ALLEGHENY
1660603	699	562	5	202	1468	MCCANDLESS 06 03	ALLEGHENY
1660701	648	581	12	226	1467	MCCANDLESS 07 01	ALLEGHENY
1660702	430	361	4	124	919	MCCANDLESS 07 02	ALLEGHENY
1660703	233	197	5	62	497	MCCANDLESS 07 03	ALLEGHENY
1670005	52	105	0	23	180	MCDONALD 00 05	ALLEGHENY
1690101	12	205	1	19	237	MCKEES ROCKS 01 01	ALLEGHENY
1690102	60	460	1	50	571	MCKEES ROCKS 01 02	ALLEGHENY
1690201	68	526	2	72	668	MCKEES ROCKS 02 01	ALLEGHENY
1690202	68	466	3	69	606	MCKEES ROCKS 02 02	ALLEGHENY
1690301	121	516	2	74	713	MCKEES ROCKS 03 01	ALLEGHENY
1690302	50	429	2	65	546	MCKEES ROCKS 03 02	ALLEGHENY
1690303	61	417	4	48	530	MCKEES ROCKS 03 03	ALLEGHENY
1680100	1	12	0	1	14	MCKEESPORT 01 00	ALLEGHENY
1680200	21	201	2	25	249	MCKEESPORT 02 00	ALLEGHENY
1680301	13	217	0	11	241	MCKEESPORT 03 01	ALLEGHENY
1680302	6	105	0	10	121	MCKEESPORT 03 02	ALLEGHENY
1680400	18	252	0	26	296	MCKEESPORT 04 00	ALLEGHENY
1680500	49	410	2	41	502	MCKEESPORT 05 00	ALLEGHENY
1680601	29	313	1	31	374	MCKEESPORT 06 01	ALLEGHENY
1680602	16	254	1	30	301	MCKEESPORT 06 02	ALLEGHENY
1680701	41	426	2	13	482	MCKEESPORT 07 01	ALLEGHENY
1680702	13	276	0	16	305	MCKEESPORT 07 02	ALLEGHENY
1680703	30	288	2	23	343	MCKEESPORT 07 03	ALLEGHENY
1680704	33	356	2	41	432	MCKEESPORT 07 04	ALLEGHENY
1680705	43	445	5	38	531	MCKEESPORT 07 05	ALLEGHENY
1680706	54	401	1	31	487	MCKEESPORT 07 06	ALLEGHENY
1680707	21	323	0	15	359	MCKEESPORT 07 07	ALLEGHENY
1680801	45	224	2	27	298	MCKEESPORT 08 01	ALLEGHENY
1680802	83	392	3	39	517	MCKEESPORT 08 02	ALLEGHENY
1680803	48	429	3	27	507	MCKEESPORT 08 03	ALLEGHENY
1680804	103	298	2	32	435	MCKEESPORT 08 04	ALLEGHENY
1680805	24	422	2	39	487	MCKEESPORT 08 05	ALLEGHENY
1680806	55	146	1	28	230	MCKEESPORT 08 06	ALLEGHENY
1680901	70	359	1	38	468	MCKEESPORT 09 01	ALLEGHENY
1680902	82	424	2	53	561	MCKEESPORT 09 02	ALLEGHENY
1680903	54	321	0	34	409	MCKEESPORT 09 03	ALLEGHENY
1681001	48	240	2	30	320	MCKEESPORT 10 01	ALLEGHENY
1681002	51	206	3	40	300	MCKEESPORT 10 02	ALLEGHENY
1681101	69	344	1	38	452	MCKEESPORT 11 01	ALLEGHENY
1681102	58	310	0	31	399	MCKEESPORT 11 02	ALLEGHENY
1681103	26	205	1	13	245	MCKEESPORT 11 03	ALLEGHENY
1681201	50	239	1	17	307	MCKEESPORT 12 01	ALLEGHENY
1681202	75	256	0	18	349	MCKEESPORT 12 02	ALLEGHENY
1681203	117	435	3	31	586	MCKEESPORT 12 03	ALLEGHENY

1700001	103	332	4	95	534	MILLVALE 00 01	ALLEGHENY
1700002	88	226	2	60	376	MILLVALE 00 02	ALLEGHENY
1700003	81	281	1	74	437	MILLVALE 00 03	ALLEGHENY
1700004	93	251	5	71	420	MILLVALE 00 04	ALLEGHENY
1700005	101	368	5	60	534	MILLVALE 00 05	ALLEGHENY
1710101	135	414	2	90	641	MONROEVILLE 01 01	ALLEGHENY
1710102	223	326	3	66	618	MONROEVILLE 01 02	ALLEGHENY
1710103	272	434	3	91	800	MONROEVILLE 01 03	ALLEGHENY
1710104	163	535	4	103	805	MONROEVILLE 01 04	ALLEGHENY
1710201	301	464	4	104	873	MONROEVILLE 02 01	ALLEGHENY
1710202	336	459	9	122	926	MONROEVILLE 02 02	ALLEGHENY
1710203	391	508	2	140	1041	MONROEVILLE 02 03	ALLEGHENY
1710301	457	561	1	124	1143	MONROEVILLE 03 01	ALLEGHENY
1710302	230	305	2	64	601	MONROEVILLE 03 02	ALLEGHENY
1710303	309	490	3	118	920	MONROEVILLE 03 03	ALLEGHENY
1710304	156	175	4	55	390	MONROEVILLE 03 04	ALLEGHENY
1710401	214	328	8	88	638	MONROEVILLE 04 01	ALLEGHENY
1710402	354	477	4	139	974	MONROEVILLE 04 02	ALLEGHENY
1710403	294	504	3	105	906	MONROEVILLE 04 03	ALLEGHENY
1710501	161	338	1	72	572	MONROEVILLE 05 01	ALLEGHENY
1710502	197	466	5	126	794	MONROEVILLE 05 02	ALLEGHENY
1710503	289	451	6	80	826	MONROEVILLE 05 03	ALLEGHENY
1710504	157	322	5	104	588	MONROEVILLE 05 04	ALLEGHENY
1710601	221	471	4	68	764	MONROEVILLE 06 01	ALLEGHENY
1710602	198	424	3	83	708	MONROEVILLE 06 02	ALLEGHENY
1710603	250	580	6	147	983	MONROEVILLE 06 03	ALLEGHENY
1710604	78	226	1	32	337	MONROEVILLE 06 04	ALLEGHENY
1710701	328	797	5	136	1266	MONROEVILLE 07 01	ALLEGHENY
1710702	168	511	6	85	770	MONROEVILLE 07 02	ALLEGHENY
1710703	185	334	2	56	577	MONROEVILLE 07 03	ALLEGHENY
1720001	344	518	4	199	1065	MOON 00 01	ALLEGHENY
1720002	741	702	8	242	1693	MOON 00 02	ALLEGHENY
1720003	397	713	13	202	1325	MOON 00 03	ALLEGHENY
1720004	254	356	6	103	719	MOON 00 04	ALLEGHENY
1720005	932	879	11	312	2134	MOON 00 05	ALLEGHENY
1720006	849	862	11	265	1987	MOON 00 06	ALLEGHENY
1720007	455	715	12	223	1405	MOON 00 07	ALLEGHENY
1720008	322	507	1	108	938	MOON 00 08	ALLEGHENY
1720009	767	673	13	228	1681	MOON 00 09	ALLEGHENY
1720010	262	327	4	110	703	MOON 00 10	ALLEGHENY
1720011	554	536	5	185	1280	MOON 00 11	ALLEGHENY
1720012	369	428	6	129	932	MOON 00 12	ALLEGHENY
1720013	273	290	5	89	657	MOON 00 13	ALLEGHENY
1730101	400	275	5	111	791	MT LEBANON 01 01	ALLEGHENY
1730102	174	321	11	99	605	MT LEBANON 01 02	ALLEGHENY
1730103	217	303	5	89	614	MT LEBANON 01 03	ALLEGHENY
1730104	256	334	6	129	725	MT LEBANON 01 04	ALLEGHENY

1730105	200	285	1	71	557	MT LEBANON 01 05	ALLEGHENY
1730106	475	453	4	117	1049	MT LEBANON 01 06	ALLEGHENY
1730107	201	417	2	100	720	MT LEBANON 01 07	ALLEGHENY
1730201	376	418	5	125	924	MT LEBANON 02 01	ALLEGHENY
1730202	206	275	3	76	560	MT LEBANON 02 02	ALLEGHENY
1730203	243	308	3	91	645	MT LEBANON 02 03	ALLEGHENY
1730204	195	265	2	70	532	MT LEBANON 02 04	ALLEGHENY
1730205	197	306	5	64	572	MT LEBANON 02 05	ALLEGHENY
1730206	181	261	1	83	526	MT LEBANON 02 06	ALLEGHENY
1730207	196	311	4	71	582	MT LEBANON 02 07	ALLEGHENY
1730208	353	501	2	102	958	MT LEBANON 02 08	ALLEGHENY
1730301	250	287	3	66	606	MT LEBANON 03 01	ALLEGHENY
1730302	289	398	1	106	794	MT LEBANON 03 02	ALLEGHENY
1730303	299	274	1	83	657	MT LEBANON 03 03	ALLEGHENY
1730304	280	306	4	111	701	MT LEBANON 03 04	ALLEGHENY
1730305	250	296	4	92	642	MT LEBANON 03 05	ALLEGHENY
1730306	155	196	4	72	427	MT LEBANON 03 06	ALLEGHENY
1730307	350	349	5	95	799	MT LEBANON 03 07	ALLEGHENY
1730308	124	140	3	36	303	MT LEBANON 03 08	ALLEGHENY
1730401	232	350	6	125	713	MT LEBANON 04 01	ALLEGHENY
1730402	283	419	5	122	829	MT LEBANON 04 02	ALLEGHENY
1730403	236	347	5	86	674	MT LEBANON 04 03	ALLEGHENY
1730404	246	295	4	83	628	MT LEBANON 04 04	ALLEGHENY
1730405	229	275	6	87	597	MT LEBANON 04 05	ALLEGHENY
1730406	220	297	3	108	628	MT LEBANON 04 06	ALLEGHENY
1730407	288	396	5	85	774	MT LEBANON 04 07	ALLEGHENY
1730501	167	318	2	102	589	MT LEBANON 05 01	ALLEGHENY
1730502	101	233	4	65	403	MT LEBANON 05 02	ALLEGHENY
1730503	179	302	9	91	581	MT LEBANON 05 03	ALLEGHENY
1730504	204	246	1	77	528	MT LEBANON 05 04	ALLEGHENY
1730505	219	315	2	71	607	MT LEBANON 05 05	ALLEGHENY
1730506	159	214	4	66	443	MT LEBANON 05 06	ALLEGHENY
1730507	254	377	5	99	735	MT LEBANON 05 07	ALLEGHENY
1730508	276	466	6	185	933	MT LEBANON 05 08	ALLEGHENY
1740001	73	505	11	90	679	MT OLIVER 00 01	ALLEGHENY
1740002	74	533	2	93	702	MT OLIVER 00 02	ALLEGHENY
1740003	45	349	2	60	456	MT OLIVER 00 03	ALLEGHENY
1740004	41	231	1	42	315	MT OLIVER 00 04	ALLEGHENY
1750001	86	311	3	60	460	MUNHALL 00 01	ALLEGHENY
1750002	62	364	0	54	480	MUNHALL 00 02	ALLEGHENY
1750003	47	399	2	48	496	MUNHALL 00 03	ALLEGHENY
1750004	63	310	0	36	409	MUNHALL 00 04	ALLEGHENY
1750005	140	509	2	62	713	MUNHALL 00 05	ALLEGHENY
1750006	137	474	4	77	692	MUNHALL 00 06	ALLEGHENY
1750007	220	764	5	106	1095	MUNHALL 00 07	ALLEGHENY
1750008	145	410	1	47	603	MUNHALL 00 08	ALLEGHENY
1750009	119	497	5	57	678	MUNHALL 00 09	ALLEGHENY

1750010	89	369	3	40	501	MUNHALL 00 10	ALLEGHENY
1750011	231	599	2	72	904	MUNHALL 00 11	ALLEGHENY
1750012	124	375	3	36	538	MUNHALL 00 12	ALLEGHENY
1770101	31	162	1	16	210	N BRADDOCK 01 01	ALLEGHENY
1770102	50	364	3	57	474	N BRADDOCK 01 02	ALLEGHENY
1770103	67	414	3	60	544	N BRADDOCK 01 03	ALLEGHENY
1770201	40	353	0	36	429	N BRADDOCK 02 01	ALLEGHENY
1770202	45	480	3	48	576	N BRADDOCK 02 02	ALLEGHENY
1770301	19	360	0	22	401	N BRADDOCK 03 01	ALLEGHENY
1770302	22	426	0	41	489	N BRADDOCK 03 02	ALLEGHENY
1780001	679	884	9	208	1780	N FAYETTE 00 01	ALLEGHENY
1780002	743	994	12	345	2094	N FAYETTE 00 02	ALLEGHENY
1780003	831	1116	11	292	2250	N FAYETTE 00 03	ALLEGHENY
1780004	302	493	8	134	937	N FAYETTE 00 04	ALLEGHENY
1780005	878	943	10	269	2100	N FAYETTE 00 05	ALLEGHENY
1790101	157	417	3	62	639	N VERSAILLES 01 01	ALLEGHENY
1790102	170	398	4	47	619	N VERSAILLES 01 02	ALLEGHENY
1790201	140	408	2	59	609	N VERSAILLES 02 01	ALLEGHENY
1790202	39	157	2	10	208	N VERSAILLES 02 02	ALLEGHENY
1790301	116	297	2	42	457	N VERSAILLES 03 01	ALLEGHENY
1790302	142	374	2	61	579	N VERSAILLES 03 02	ALLEGHENY
1790401	95	307	3	44	449	N VERSAILLES 04 01	ALLEGHENY
1790402	98	246	2	29	375	N VERSAILLES 04 02	ALLEGHENY
1790501	77	355	2	63	497	N VERSAILLES 05 01	ALLEGHENY
1790502	84	287	0	42	413	N VERSAILLES 05 02	ALLEGHENY
1790601	161	379	0	40	580	N VERSAILLES 06 01	ALLEGHENY
1790602	123	335	2	50	510	N VERSAILLES 06 02	ALLEGHENY
1790700	62	546	2	50	660	N VERSAILLES 07 00	ALLEGHENY
1760100	69	157	1	35	262	NEVILLE 01 00	ALLEGHENY
1760200	52	139	4	31	226	NEVILLE 02 00	ALLEGHENY
1760300	68	174	0	26	268	NEVILLE 03 00	ALLEGHENY
1800001	149	318	2	76	545	OAKDALE 00 01	ALLEGHENY
1800002	108	273	0	41	422	OAKDALE 00 02	ALLEGHENY
1810001	362	421	5	111	899	OAKMONT 00 01	ALLEGHENY
1810002	502	399	1	97	999	OAKMONT 00 02	ALLEGHENY
1810003	229	366	7	86	688	OAKMONT 00 03	ALLEGHENY
1810004	286	395	8	107	796	OAKMONT 00 04	ALLEGHENY
1810005	239	330	6	97	672	OAKMONT 00 05	ALLEGHENY
1810006	291	477	4	140	912	OAKMONT 00 06	ALLEGHENY
1820101	332	425	9	132	898	OHARA 01 01	ALLEGHENY
1820102	202	318	4	72	596	OHARA 01 02	ALLEGHENY
1820201	194	292	3	73	562	OHARA 02 01	ALLEGHENY
1820202	339	400	7	107	853	OHARA 02 02	ALLEGHENY
1820301	224	316	3	80	623	OHARA 03 01	ALLEGHENY
1820302	172	330	2	44	548	OHARA 03 02	ALLEGHENY
1820401	180	281	2	49	512	OHARA 04 01	ALLEGHENY
1820402	202	406	4	118	730	OHARA 04 02	ALLEGHENY

1820501	275	308	6	110	699	OHARA 05 01	ALLEGHENY
1820502	293	412	5	128	838	OHARA 05 02	ALLEGHENY
1830001	662	440	8	156	1266	OHIO 00 01	ALLEGHENY
1830002	499	536	7	160	1202	OHIO 00 02	ALLEGHENY
1830003	676	671	6	269	1622	OHIO 00 03	ALLEGHENY
1850101	31	623	0	43	697	PENN HILLS 01 01	ALLEGHENY
1850102	46	644	1	45	736	PENN HILLS 01 02	ALLEGHENY
1850103	12	472	1	36	521	PENN HILLS 01 03	ALLEGHENY
1850104	12	309	1	23	345	PENN HILLS 01 04	ALLEGHENY
1850105	10	225	1	17	253	PENN HILLS 01 05	ALLEGHENY
1850201	38	644	2	64	748	PENN HILLS 02 01	ALLEGHENY
1850202	38	618	3	47	706	PENN HILLS 02 02	ALLEGHENY
1850203	97	660	0	70	827	PENN HILLS 02 03	ALLEGHENY
1850204	97	426	3	58	584	PENN HILLS 02 04	ALLEGHENY
1850301	246	440	5	85	776	PENN HILLS 03 01	ALLEGHENY
1850302	70	358	2	40	470	PENN HILLS 03 02	ALLEGHENY
1850303	112	427	3	57	599	PENN HILLS 03 03	ALLEGHENY
1850304	115	567	4	67	753	PENN HILLS 03 04	ALLEGHENY
1850305	70	333	3	37	443	PENN HILLS 03 05	ALLEGHENY
1850306	97	276	3	45	421	PENN HILLS 03 06	ALLEGHENY
1850401	114	339	2	60	515	PENN HILLS 04 01	ALLEGHENY
1850402	133	507	2	54	696	PENN HILLS 04 02	ALLEGHENY
1850403	160	468	5	84	717	PENN HILLS 04 03	ALLEGHENY
1850404	114	365	1	62	542	PENN HILLS 04 04	ALLEGHENY
1850405	101	389	2	68	560	PENN HILLS 04 05	ALLEGHENY
1850501	131	483	7	55	676	PENN HILLS 05 01	ALLEGHENY
1850502	106	411	2	65	584	PENN HILLS 05 02	ALLEGHENY
1850503	185	390	3	52	630	PENN HILLS 05 03	ALLEGHENY
1850504	166	366	1	56	589	PENN HILLS 05 04	ALLEGHENY
1850505	132	298	3	58	491	PENN HILLS 05 05	ALLEGHENY
1850506	189	438	3	87	717	PENN HILLS 05 06	ALLEGHENY
1850601	149	314	4	75	542	PENN HILLS 06 01	ALLEGHENY
1850602	119	412	3	59	593	PENN HILLS 06 02	ALLEGHENY
1850603	104	365	3	37	509	PENN HILLS 06 03	ALLEGHENY
1850604	44	459	2	53	558	PENN HILLS 06 04	ALLEGHENY
1850605	105	392	4	54	555	PENN HILLS 06 05	ALLEGHENY
1850606	109	385	4	41	539	PENN HILLS 06 06	ALLEGHENY
1850701	105	461	5	62	633	PENN HILLS 07 01	ALLEGHENY
1850702	142	384	3	69	598	PENN HILLS 07 02	ALLEGHENY
1850703	176	572	5	90	843	PENN HILLS 07 03	ALLEGHENY
1850704	134	385	2	50	571	PENN HILLS 07 04	ALLEGHENY
1850705	177	424	0	71	672	PENN HILLS 07 05	ALLEGHENY
1850706	155	493	1	75	724	PENN HILLS 07 06	ALLEGHENY
1850707	184	411	4	65	664	PENN HILLS 07 07	ALLEGHENY
1850801	174	363	2	47	586	PENN HILLS 08 01	ALLEGHENY
1850802	157	306	5	57	525	PENN HILLS 08 02	ALLEGHENY
1850803	181	277	5	63	526	PENN HILLS 08 03	ALLEGHENY

1850804	182	361	0	69	612	PENN HILLS 08 04	ALLEGHENY
1850805	240	558	4	95	897	PENN HILLS 08 05	ALLEGHENY
1850806	138	254	0	53	445	PENN HILLS 08 06	ALLEGHENY
1850901	164	259	2	45	470	PENN HILLS 09 01	ALLEGHENY
1850902	168	311	2	48	529	PENN HILLS 09 02	ALLEGHENY
1850903	214	476	5	91	786	PENN HILLS 09 03	ALLEGHENY
1850904	162	312	7	74	555	PENN HILLS 09 04	ALLEGHENY
1850905	24	285	0	18	327	PENN HILLS 09 05	ALLEGHENY
2120002	180	303	5	73	561	PENNSBURY VLG 00 02	ALLEGHENY
1860001	567	259	5	155	986	PINE 00 01	ALLEGHENY
1860002	912	376	6	257	1551	PINE 00 02	ALLEGHENY
1860003	195	153	4	51	403	PINE 00 03	ALLEGHENY
1860004	568	331	6	170	1075	PINE 00 04	ALLEGHENY
1860005	739	409	11	262	1421	PINE 00 05	ALLEGHENY
1860006	277	102	2	84	465	PINE 00 06	ALLEGHENY
1860007	623	465	8	219	1315	PINE 00 07	ALLEGHENY
1860008	555	276	4	168	1003	PINE 00 08	ALLEGHENY
1870001	203	548	5	101	857	PITCAIRN 00 01	ALLEGHENY
1870002	98	330	1	59	488	PITCAIRN 00 02	ALLEGHENY
1870003	156	428	6	62	652	PITCAIRN 00 03	ALLEGHENY
1880101	564	1503	28	757	2852	PITTSBURGH 01 01	ALLEGHENY
1880102	66	427	4	87	584	PITTSBURGH 01 02	ALLEGHENY
1880201	332	846	11	284	1473	PITTSBURGH 02 01	ALLEGHENY
1880202	190	316	7	169	682	PITTSBURGH 02 02	ALLEGHENY
1880301	3	237	0	8	248	PITTSBURGH 03 01	ALLEGHENY
1880302	24	586	0	31	641	PITTSBURGH 03 02	ALLEGHENY
1880303	12	334	1	20	367	PITTSBURGH 03 03	ALLEGHENY
1880304	84	335	4	87	510	PITTSBURGH 03 04	ALLEGHENY
1880305	24	373	2	30	429	PITTSBURGH 03 05	ALLEGHENY
1880401	8	196	0	24	228	PITTSBURGH 04 01	ALLEGHENY
1880402	62	427	4	122	615	PITTSBURGH 04 02	ALLEGHENY
1880403	18	404	1	31	454	PITTSBURGH 04 03	ALLEGHENY
1880404	8	230	0	18	256	PITTSBURGH 04 04	ALLEGHENY
1880405	149	434	7	232	822	PITTSBURGH 04 05	ALLEGHENY
1880406	75	399	6	117	597	PITTSBURGH 04 06	ALLEGHENY
1880407	501	1203	24	730	2458	PITTSBURGH 04 07	ALLEGHENY
1880408	902	1967	30	1320	4219	PITTSBURGH 04 08	ALLEGHENY
1880409	79	395	1	77	552	PITTSBURGH 04 09	ALLEGHENY
1880410	73	264	4	136	477	PITTSBURGH 04 10	ALLEGHENY
1880411	69	376	2	58	505	PITTSBURGH 04 11	ALLEGHENY
1880412	84	317	3	115	519	PITTSBURGH 04 12	ALLEGHENY
1880413	85	438	3	175	701	PITTSBURGH 04 13	ALLEGHENY
1880414	209	648	6	282	1145	PITTSBURGH 04 14	ALLEGHENY
1880415	111	470	7	184	772	PITTSBURGH 04 15	ALLEGHENY
1880416	177	611	7	291	1086	PITTSBURGH 04 16	ALLEGHENY
1880417	48	400	4	86	538	PITTSBURGH 04 17	ALLEGHENY
1880418	29	238	1	38	306	PITTSBURGH 04 18	ALLEGHENY

1880419	24	149	4	54	231	PITTSBURGH 04 19	ALLEGHENY
1880501	4	215	0	21	240	PITTSBURGH 05 01	ALLEGHENY
1880502	13	305	0	12	330	PITTSBURGH 05 02	ALLEGHENY
1880503	6	152	0	13	171	PITTSBURGH 05 03	ALLEGHENY
1880504	13	292	1	15	321	PITTSBURGH 05 04	ALLEGHENY
1880505	6	195	0	11	212	PITTSBURGH 05 05	ALLEGHENY
1880506	22	451	1	31	505	PITTSBURGH 05 06	ALLEGHENY
1880507	11	392	0	25	428	PITTSBURGH 05 07	ALLEGHENY
1880508	21	385	1	33	440	PITTSBURGH 05 08	ALLEGHENY
1880509	113	623	5	183	924	PITTSBURGH 05 09	ALLEGHENY
1880510	17	391	5	37	450	PITTSBURGH 05 10	ALLEGHENY
1880511	12	311	1	35	359	PITTSBURGH 05 11	ALLEGHENY
1880512	15	375	0	27	417	PITTSBURGH 05 12	ALLEGHENY
1880513	11	243	1	13	268	PITTSBURGH 05 13	ALLEGHENY
1880514	3	265	0	14	282	PITTSBURGH 05 14	ALLEGHENY
1880515	1	124	0	11	136	PITTSBURGH 05 15	ALLEGHENY
1880516	4	205	0	19	228	PITTSBURGH 05 16	ALLEGHENY
1880517	8	149	3	12	172	PITTSBURGH 05 17	ALLEGHENY
1880518	2	42	0	6	50	PITTSBURGH 05 18	ALLEGHENY
1880601	94	533	7	132	766	PITTSBURGH 06 01	ALLEGHENY
1880602	55	421	4	106	586	PITTSBURGH 06 02	ALLEGHENY
1880603	62	513	9	128	712	PITTSBURGH 06 03	ALLEGHENY
1880604	69	411	4	91	575	PITTSBURGH 06 04	ALLEGHENY
1880605	40	301	1	80	422	PITTSBURGH 06 05	ALLEGHENY
1880701	76	349	2	125	552	PITTSBURGH 07 01	ALLEGHENY
1880702	208	537	10	160	915	PITTSBURGH 07 02	ALLEGHENY
1880703	100	395	3	146	644	PITTSBURGH 07 03	ALLEGHENY
1880704	152	533	13	198	896	PITTSBURGH 07 04	ALLEGHENY
1880705	107	324	7	137	575	PITTSBURGH 07 05	ALLEGHENY
1880706	111	345	5	106	567	PITTSBURGH 07 06	ALLEGHENY
1880707	97	416	2	107	622	PITTSBURGH 07 07	ALLEGHENY
1880708	107	351	4	129	591	PITTSBURGH 07 08	ALLEGHENY
1880709	115	415	6	143	679	PITTSBURGH 07 09	ALLEGHENY
1880710	147	515	5	172	839	PITTSBURGH 07 10	ALLEGHENY
1880711	153	496	7	165	821	PITTSBURGH 07 11	ALLEGHENY
1880712	130	412	4	176	722	PITTSBURGH 07 12	ALLEGHENY
1880713	52	284	4	119	459	PITTSBURGH 07 13	ALLEGHENY
1880714	79	240	3	89	411	PITTSBURGH 07 14	ALLEGHENY
1880801	46	229	2	50	327	PITTSBURGH 08 01	ALLEGHENY
1880802	65	429	7	96	597	PITTSBURGH 08 02	ALLEGHENY
1880803	90	466	11	161	728	PITTSBURGH 08 03	ALLEGHENY
1880804	70	330	3	116	519	PITTSBURGH 08 04	ALLEGHENY
1880805	72	344	6	94	516	PITTSBURGH 08 05	ALLEGHENY
1880806	34	264	1	71	370	PITTSBURGH 08 06	ALLEGHENY
1880807	80	443	9	146	678	PITTSBURGH 08 07	ALLEGHENY
1880808	57	378	3	86	524	PITTSBURGH 08 08	ALLEGHENY
1880809	63	365	5	130	563	PITTSBURGH 08 09	ALLEGHENY

1880810	68	364	4	94	530	PITTSBURGH 08 10	ALLEGHENY
1880811	63	343	4	106	516	PITTSBURGH 08 11	ALLEGHENY
1880812	40	406	1	105	552	PITTSBURGH 08 12	ALLEGHENY
1880813	44	523	3	57	627	PITTSBURGH 08 13	ALLEGHENY
1880901	43	295	5	76	419	PITTSBURGH 09 01	ALLEGHENY
1880902	56	393	4	84	537	PITTSBURGH 09 02	ALLEGHENY
1880903	59	394	6	89	548	PITTSBURGH 09 03	ALLEGHENY
1880904	46	396	6	84	532	PITTSBURGH 09 04	ALLEGHENY
1880905	68	472	4	91	635	PITTSBURGH 09 05	ALLEGHENY
1880906	66	401	2	66	535	PITTSBURGH 09 06	ALLEGHENY
1880907	38	314	4	71	427	PITTSBURGH 09 07	ALLEGHENY
1880908	54	440	0	113	607	PITTSBURGH 09 08	ALLEGHENY
1880909	56	387	5	117	565	PITTSBURGH 09 09	ALLEGHENY
1881001	50	344	8	86	488	PITTSBURGH 10 01	ALLEGHENY
1881002	62	418	8	75	563	PITTSBURGH 10 02	ALLEGHENY
1881003	58	452	8	101	619	PITTSBURGH 10 03	ALLEGHENY
1881004	45	418	2	52	517	PITTSBURGH 10 04	ALLEGHENY
1881005	50	381	1	61	493	PITTSBURGH 10 05	ALLEGHENY
1881006	60	368	6	54	488	PITTSBURGH 10 06	ALLEGHENY
1881007	89	379	1	69	538	PITTSBURGH 10 07	ALLEGHENY
1881008	98	398	3	58	557	PITTSBURGH 10 08	ALLEGHENY
1881009	71	381	3	54	509	PITTSBURGH 10 09	ALLEGHENY
1881010	66	434	4	51	555	PITTSBURGH 10 10	ALLEGHENY
1881011	77	422	2	65	566	PITTSBURGH 10 11	ALLEGHENY
1881012	30	451	1	42	524	PITTSBURGH 10 12	ALLEGHENY
1881013	28	446	1	47	522	PITTSBURGH 10 13	ALLEGHENY
1881014	37	451	4	44	536	PITTSBURGH 10 14	ALLEGHENY
1881015	18	306	0	17	341	PITTSBURGH 10 15	ALLEGHENY
1881016	19	275	0	23	317	PITTSBURGH 10 16	ALLEGHENY
1881017	26	434	0	45	505	PITTSBURGH 10 17	ALLEGHENY
1881018	24	429	2	64	519	PITTSBURGH 10 18	ALLEGHENY
1881019	17	388	0	40	445	PITTSBURGH 10 19	ALLEGHENY
1881101	48	401	2	87	538	PITTSBURGH 11 01	ALLEGHENY
1881102	18	450	3	64	535	PITTSBURGH 11 02	ALLEGHENY
1881103	15	385	0	19	419	PITTSBURGH 11 03	ALLEGHENY
1881104	23	423	4	45	495	PITTSBURGH 11 04	ALLEGHENY
1881105	36	398	3	73	510	PITTSBURGH 11 05	ALLEGHENY
1881106	58	623	12	109	802	PITTSBURGH 11 06	ALLEGHENY
1881107	66	429	5	92	592	PITTSBURGH 11 07	ALLEGHENY
1881108	74	415	4	70	563	PITTSBURGH 11 08	ALLEGHENY
1881109	53	445	1	79	578	PITTSBURGH 11 09	ALLEGHENY
1881110	56	430	3	78	567	PITTSBURGH 11 10	ALLEGHENY
1881111	69	467	3	95	634	PITTSBURGH 11 11	ALLEGHENY
1881112	49	507	1	72	629	PITTSBURGH 11 12	ALLEGHENY
1881113	51	486	2	95	634	PITTSBURGH 11 13	ALLEGHENY
1881114	22	471	3	38	534	PITTSBURGH 11 14	ALLEGHENY
1881115	9	332	0	25	366	PITTSBURGH 11 15	ALLEGHENY

1881116	35	396	5	81	517	PITTSBURGH 11 16	ALLEGHENY
1881117	30	509	0	70	609	PITTSBURGH 11 17	ALLEGHENY
1881118	48	422	1	67	538	PITTSBURGH 11 18	ALLEGHENY
1881201	7	170	1	27	205	PITTSBURGH 12 01	ALLEGHENY
1881202	13	314	0	22	349	PITTSBURGH 12 02	ALLEGHENY
1881203	3	90	0	10	103	PITTSBURGH 12 03	ALLEGHENY
1881204	7	300	2	22	331	PITTSBURGH 12 04	ALLEGHENY
1881205	7	144	0	17	168	PITTSBURGH 12 05	ALLEGHENY
1881206	5	218	0	20	243	PITTSBURGH 12 06	ALLEGHENY
1881207	9	279	0	26	314	PITTSBURGH 12 07	ALLEGHENY
1881208	5	210	0	8	223	PITTSBURGH 12 08	ALLEGHENY
1881209	6	292	0	9	307	PITTSBURGH 12 09	ALLEGHENY
1881210	10	432	0	17	459	PITTSBURGH 12 10	ALLEGHENY
1881211	12	423	2	21	458	PITTSBURGH 12 11	ALLEGHENY
1881212	37	585	1	81	704	PITTSBURGH 12 12	ALLEGHENY
1881213	11	356	1	21	389	PITTSBURGH 12 13	ALLEGHENY
1881214	8	306	0	27	341	PITTSBURGH 12 14	ALLEGHENY
1881215	11	480	0	31	522	PITTSBURGH 12 15	ALLEGHENY
1881216	15	353	0	24	392	PITTSBURGH 12 16	ALLEGHENY
1881301	11	266	0	27	304	PITTSBURGH 13 01	ALLEGHENY
1881302	4	376	0	23	403	PITTSBURGH 13 02	ALLEGHENY
1881303	14	284	0	24	322	PITTSBURGH 13 03	ALLEGHENY
1881304	11	283	0	20	314	PITTSBURGH 13 04	ALLEGHENY
1881305	14	308	0	21	343	PITTSBURGH 13 05	ALLEGHENY
1881306	6	329	0	25	360	PITTSBURGH 13 06	ALLEGHENY
1881307	10	355	1	24	390	PITTSBURGH 13 07	ALLEGHENY
1881308	7	238	0	9	254	PITTSBURGH 13 08	ALLEGHENY
1881309	16	284	0	20	320	PITTSBURGH 13 09	ALLEGHENY
1881310	5	199	0	9	213	PITTSBURGH 13 10	ALLEGHENY
1881311	7	362	1	32	402	PITTSBURGH 13 11	ALLEGHENY
1881312	13	399	0	24	436	PITTSBURGH 13 12	ALLEGHENY
1881313	7	259	0	13	279	PITTSBURGH 13 13	ALLEGHENY
1881314	16	228	0	24	268	PITTSBURGH 13 14	ALLEGHENY
1881315	9	295	0	22	326	PITTSBURGH 13 15	ALLEGHENY
1881316	12	321	2	19	354	PITTSBURGH 13 16	ALLEGHENY
1881317	23	727	0	64	814	PITTSBURGH 13 17	ALLEGHENY
1881318	7	189	0	11	207	PITTSBURGH 13 18	ALLEGHENY
1881319	13	437	0	25	475	PITTSBURGH 13 19	ALLEGHENY
1881401	53	355	2	119	529	PITTSBURGH 14 01	ALLEGHENY
1881402	133	660	10	352	1155	PITTSBURGH 14 02	ALLEGHENY
1881403	89	507	6	113	715	PITTSBURGH 14 03	ALLEGHENY
1881404	67	498	6	105	676	PITTSBURGH 14 04	ALLEGHENY
1881405	98	532	3	107	740	PITTSBURGH 14 05	ALLEGHENY
1881406	114	406	6	122	648	PITTSBURGH 14 06	ALLEGHENY
1881407	247	1280	18	1027	2572	PITTSBURGH 14 07	ALLEGHENY
1881408	79	446	6	122	653	PITTSBURGH 14 08	ALLEGHENY
1881409	101	569	4	83	757	PITTSBURGH 14 09	ALLEGHENY

1881410	79	445	3	98	625	PITTSBURGH 14 10	ALLEGHENY
1881411	103	507	1	118	729	PITTSBURGH 14 11	ALLEGHENY
1881412	60	489	1	137	687	PITTSBURGH 14 12	ALLEGHENY
1881413	51	556	6	93	706	PITTSBURGH 14 13	ALLEGHENY
1881414	101	579	7	117	804	PITTSBURGH 14 14	ALLEGHENY
1881415	65	518	9	103	695	PITTSBURGH 14 15	ALLEGHENY
1881416	85	329	2	47	463	PITTSBURGH 14 16	ALLEGHENY
1881417	58	323	2	59	442	PITTSBURGH 14 17	ALLEGHENY
1881418	99	495	6	115	715	PITTSBURGH 14 18	ALLEGHENY
1881419	64	447	4	58	573	PITTSBURGH 14 19	ALLEGHENY
1881420	75	431	2	90	598	PITTSBURGH 14 20	ALLEGHENY
1881421	69	403	3	70	545	PITTSBURGH 14 21	ALLEGHENY
1881422	62	478	3	109	652	PITTSBURGH 14 22	ALLEGHENY
1881423	79	499	4	87	669	PITTSBURGH 14 23	ALLEGHENY
1881424	62	362	3	103	530	PITTSBURGH 14 24	ALLEGHENY
1881425	119	639	7	137	902	PITTSBURGH 14 25	ALLEGHENY
1881426	88	386	2	91	567	PITTSBURGH 14 26	ALLEGHENY
1881427	98	355	7	52	512	PITTSBURGH 14 27	ALLEGHENY
1881428	96	343	4	57	500	PITTSBURGH 14 28	ALLEGHENY
1881429	101	483	8	113	705	PITTSBURGH 14 29	ALLEGHENY
1881430	76	480	4	92	652	PITTSBURGH 14 30	ALLEGHENY
1881431	129	629	10	149	917	PITTSBURGH 14 31	ALLEGHENY
1881432	67	422	11	157	657	PITTSBURGH 14 32	ALLEGHENY
1881433	126	441	4	153	724	PITTSBURGH 14 33	ALLEGHENY
1881434	149	441	7	146	743	PITTSBURGH 14 34	ALLEGHENY
1881435	67	416	1	100	584	PITTSBURGH 14 35	ALLEGHENY
1881436	105	484	3	121	713	PITTSBURGH 14 36	ALLEGHENY
1881437	96	377	5	109	587	PITTSBURGH 14 37	ALLEGHENY
1881438	81	383	0	69	533	PITTSBURGH 14 38	ALLEGHENY
1881439	70	357	3	86	516	PITTSBURGH 14 39	ALLEGHENY
1881440	62	308	5	91	466	PITTSBURGH 14 40	ALLEGHENY
1881441	9	65	1	17	92	PITTSBURGH 14 41	ALLEGHENY
1881501	62	442	3	88	595	PITTSBURGH 15 01	ALLEGHENY
1881502	84	463	7	112	666	PITTSBURGH 15 02	ALLEGHENY
1881503	80	380	8	96	564	PITTSBURGH 15 03	ALLEGHENY
1881504	74	397	4	92	567	PITTSBURGH 15 04	ALLEGHENY
1881505	76	328	2	78	484	PITTSBURGH 15 05	ALLEGHENY
1881506	74	358	3	89	524	PITTSBURGH 15 06	ALLEGHENY
1881507	77	463	7	98	645	PITTSBURGH 15 07	ALLEGHENY
1881508	71	397	11	85	564	PITTSBURGH 15 08	ALLEGHENY
1881509	22	119	2	25	168	PITTSBURGH 15 09	ALLEGHENY
1881510	69	405	4	92	570	PITTSBURGH 15 10	ALLEGHENY
1881511	86	379	6	71	542	PITTSBURGH 15 11	ALLEGHENY
1881512	40	348	2	63	453	PITTSBURGH 15 12	ALLEGHENY
1881513	26	378	2	35	441	PITTSBURGH 15 13	ALLEGHENY
1881514	29	282	0	25	336	PITTSBURGH 15 14	ALLEGHENY
1881515	41	276	1	40	358	PITTSBURGH 15 15	ALLEGHENY

1881516	29	435	2	48	514	PITTSBURGH 15 16	ALLEGHENY
1881517	0	25	0	5	30	PITTSBURGH 15 17	ALLEGHENY
1881518	42	461	1	41	545	PITTSBURGH 15 18	ALLEGHENY
1881519	38	411	0	30	479	PITTSBURGH 15 19	ALLEGHENY
1881601	149	431	3	143	726	PITTSBURGH 16 01	ALLEGHENY
1881602	191	457	20	201	869	PITTSBURGH 16 02	ALLEGHENY
1881603	145	417	8	131	701	PITTSBURGH 16 03	ALLEGHENY
1881604	57	251	4	65	377	PITTSBURGH 16 04	ALLEGHENY
1881605	77	318	6	93	494	PITTSBURGH 16 05	ALLEGHENY
1881606	66	292	2	66	426	PITTSBURGH 16 06	ALLEGHENY
1881607	30	306	0	46	382	PITTSBURGH 16 07	ALLEGHENY
1881608	8	151	0	15	174	PITTSBURGH 16 08	ALLEGHENY
1881609	54	396	0	59	509	PITTSBURGH 16 09	ALLEGHENY
1881610	48	281	3	39	371	PITTSBURGH 16 10	ALLEGHENY
1881611	34	292	3	42	371	PITTSBURGH 16 11	ALLEGHENY
1881701	24	96	0	34	154	PITTSBURGH 17 01	ALLEGHENY
1881702	159	374	11	138	682	PITTSBURGH 17 02	ALLEGHENY
1881703	93	335	5	121	554	PITTSBURGH 17 03	ALLEGHENY
1881704	166	379	6	141	692	PITTSBURGH 17 04	ALLEGHENY
1881705	119	308	4	88	519	PITTSBURGH 17 05	ALLEGHENY
1881706	57	252	5	81	395	PITTSBURGH 17 06	ALLEGHENY
1881707	65	237	2	57	361	PITTSBURGH 17 07	ALLEGHENY
1881708	81	233	5	67	386	PITTSBURGH 17 08	ALLEGHENY
1881801	88	420	1	60	569	PITTSBURGH 18 01	ALLEGHENY
1881802	22	380	0	29	431	PITTSBURGH 18 02	ALLEGHENY
1881803	8	334	0	19	361	PITTSBURGH 18 03	ALLEGHENY
1881804	17	397	0	36	450	PITTSBURGH 18 04	ALLEGHENY
1881805	157	517	10	146	830	PITTSBURGH 18 05	ALLEGHENY
1881806	30	276	0	46	352	PITTSBURGH 18 06	ALLEGHENY
1881807	52	264	2	61	379	PITTSBURGH 18 07	ALLEGHENY
1881808	18	196	0	25	239	PITTSBURGH 18 08	ALLEGHENY
1881809	77	472	7	85	641	PITTSBURGH 18 09	ALLEGHENY
1881810	27	38	1	11	77	PITTSBURGH 18 10	ALLEGHENY
1881811	60	447	2	63	572	PITTSBURGH 18 11	ALLEGHENY
1881901	107	312	2	65	486	PITTSBURGH 19 01	ALLEGHENY
1881902	141	376	1	109	627	PITTSBURGH 19 02	ALLEGHENY
1881903	138	276	7	80	501	PITTSBURGH 19 03	ALLEGHENY
1881904	117	210	2	59	388	PITTSBURGH 19 04	ALLEGHENY
1881905	96	210	5	63	374	PITTSBURGH 19 05	ALLEGHENY
1881906	101	261	6	78	446	PITTSBURGH 19 06	ALLEGHENY
1881907	47	121	2	48	218	PITTSBURGH 19 07	ALLEGHENY
1881908	135	299	5	61	500	PITTSBURGH 19 08	ALLEGHENY
1881909	72	304	5	89	470	PITTSBURGH 19 09	ALLEGHENY
1881910	97	399	7	102	605	PITTSBURGH 19 10	ALLEGHENY
1881911	75	276	3	69	423	PITTSBURGH 19 11	ALLEGHENY
1881912	75	305	3	41	424	PITTSBURGH 19 12	ALLEGHENY
1881913	74	273	5	59	411	PITTSBURGH 19 13	ALLEGHENY

1881914	85	347	6	76	514	PITTSBURGH 19 14	ALLEGHENY
1881915	94	367	7	93	561	PITTSBURGH 19 15	ALLEGHENY
1881916	69	376	6	76	527	PITTSBURGH 19 16	ALLEGHENY
1881917	102	373	3	68	546	PITTSBURGH 19 17	ALLEGHENY
1881918	41	323	3	76	443	PITTSBURGH 19 18	ALLEGHENY
1881919	75	337	5	69	486	PITTSBURGH 19 19	ALLEGHENY
1881920	89	330	2	65	486	PITTSBURGH 19 20	ALLEGHENY
1881921	83	424	5	77	589	PITTSBURGH 19 21	ALLEGHENY
1881922	76	362	5	69	512	PITTSBURGH 19 22	ALLEGHENY
1881923	96	372	5	94	567	PITTSBURGH 19 23	ALLEGHENY
1881924	82	345	8	65	500	PITTSBURGH 19 24	ALLEGHENY
1881925	80	370	2	58	510	PITTSBURGH 19 25	ALLEGHENY
1881926	80	283	3	61	427	PITTSBURGH 19 26	ALLEGHENY
1881927	78	326	8	44	456	PITTSBURGH 19 27	ALLEGHENY
1881928	128	408	6	75	617	PITTSBURGH 19 28	ALLEGHENY
1881929	91	302	6	79	478	PITTSBURGH 19 29	ALLEGHENY
1881930	94	355	4	54	507	PITTSBURGH 19 30	ALLEGHENY
1881931	110	314	2	45	471	PITTSBURGH 19 31	ALLEGHENY
1881932	75	330	6	78	489	PITTSBURGH 19 32	ALLEGHENY
1881933	75	318	2	44	439	PITTSBURGH 19 33	ALLEGHENY
1881934	100	328	3	50	481	PITTSBURGH 19 34	ALLEGHENY
1881935	101	319	3	56	479	PITTSBURGH 19 35	ALLEGHENY
1881936	93	434	4	73	604	PITTSBURGH 19 36	ALLEGHENY
1881937	71	295	3	52	421	PITTSBURGH 19 37	ALLEGHENY
1881938	73	304	1	58	436	PITTSBURGH 19 38	ALLEGHENY
1882001	138	357	5	75	575	PITTSBURGH 20 01	ALLEGHENY
1882002	40	120	4	28	192	PITTSBURGH 20 02	ALLEGHENY
1882003	120	469	4	71	664	PITTSBURGH 20 03	ALLEGHENY
1882004	9	29	1	10	49	PITTSBURGH 20 04	ALLEGHENY
1882005	79	408	3	54	544	PITTSBURGH 20 05	ALLEGHENY
1882006	73	408	2	64	547	PITTSBURGH 20 06	ALLEGHENY
1882007	81	498	5	54	638	PITTSBURGH 20 07	ALLEGHENY
1882008	71	546	3	67	687	PITTSBURGH 20 08	ALLEGHENY
1882009	19	157	0	29	205	PITTSBURGH 20 09	ALLEGHENY
1882010	63	491	0	55	609	PITTSBURGH 20 10	ALLEGHENY
1882011	62	534	4	60	660	PITTSBURGH 20 11	ALLEGHENY
1882012	90	687	3	107	887	PITTSBURGH 20 12	ALLEGHENY
1882013	25	389	0	34	448	PITTSBURGH 20 13	ALLEGHENY
1882014	106	624	8	73	811	PITTSBURGH 20 14	ALLEGHENY
1882015	177	486	11	146	820	PITTSBURGH 20 15	ALLEGHENY
1882016	138	408	3	65	614	PITTSBURGH 20 16	ALLEGHENY
1882017	84	280	2	39	405	PITTSBURGH 20 17	ALLEGHENY
1882018	100	323	4	43	470	PITTSBURGH 20 18	ALLEGHENY
1882101	25	406	3	33	467	PITTSBURGH 21 01	ALLEGHENY
1882102	17	388	2	29	436	PITTSBURGH 21 02	ALLEGHENY
1882103	22	534	3	54	613	PITTSBURGH 21 03	ALLEGHENY
1882104	43	480	4	86	613	PITTSBURGH 21 04	ALLEGHENY

1882201	92	458	3	98	651	PITTSBURGH 22 01	ALLEGHENY
1882202	97	446	3	96	642	PITTSBURGH 22 02	ALLEGHENY
1882203	60	467	1	83	611	PITTSBURGH 22 03	ALLEGHENY
1882204	79	429	3	96	607	PITTSBURGH 22 04	ALLEGHENY
1882301	204	663	8	176	1051	PITTSBURGH 23 01	ALLEGHENY
1882302	102	510	6	104	722	PITTSBURGH 23 02	ALLEGHENY
1882303	38	304	1	48	391	PITTSBURGH 23 03	ALLEGHENY
1882401	53	307	3	40	403	PITTSBURGH 24 01	ALLEGHENY
1882402	60	312	3	50	425	PITTSBURGH 24 02	ALLEGHENY
1882403	36	267	1	40	344	PITTSBURGH 24 03	ALLEGHENY
1882404	124	356	2	81	563	PITTSBURGH 24 04	ALLEGHENY
1882405	65	324	5	81	475	PITTSBURGH 24 05	ALLEGHENY
1882406	70	387	2	53	512	PITTSBURGH 24 06	ALLEGHENY
1882501	47	366	0	50	463	PITTSBURGH 25 01	ALLEGHENY
1882502	24	330	1	42	397	PITTSBURGH 25 02	ALLEGHENY
1882503	56	401	1	68	526	PITTSBURGH 25 03	ALLEGHENY
1882504	6	283	1	35	325	PITTSBURGH 25 04	ALLEGHENY
1882505	40	279	1	43	363	PITTSBURGH 25 05	ALLEGHENY
1882506	21	305	0	38	364	PITTSBURGH 25 06	ALLEGHENY
1882507	63	318	2	46	429	PITTSBURGH 25 07	ALLEGHENY
1882601	26	445	1	50	522	PITTSBURGH 26 01	ALLEGHENY
1882602	20	399	2	24	445	PITTSBURGH 26 02	ALLEGHENY
1882603	45	350	2	39	436	PITTSBURGH 26 03	ALLEGHENY
1882604	35	333	1	42	411	PITTSBURGH 26 04	ALLEGHENY
1882605	23	384	2	34	443	PITTSBURGH 26 05	ALLEGHENY
1882606	13	355	1	21	390	PITTSBURGH 26 06	ALLEGHENY
1882607	20	260	3	22	305	PITTSBURGH 26 07	ALLEGHENY
1882608	49	458	0	57	564	PITTSBURGH 26 08	ALLEGHENY
1882609	40	256	1	39	336	PITTSBURGH 26 09	ALLEGHENY
1882610	68	475	7	66	616	PITTSBURGH 26 10	ALLEGHENY
1882611	68	519	6	87	680	PITTSBURGH 26 11	ALLEGHENY
1882612	54	353	5	59	471	PITTSBURGH 26 12	ALLEGHENY
1882613	73	400	2	61	536	PITTSBURGH 26 13	ALLEGHENY
1882614	96	430	2	45	573	PITTSBURGH 26 14	ALLEGHENY
1882615	93	287	5	60	445	PITTSBURGH 26 15	ALLEGHENY
1882616	91	492	8	76	667	PITTSBURGH 26 16	ALLEGHENY
1882617	38	140	1	27	206	PITTSBURGH 26 17	ALLEGHENY
1882701	148	530	8	69	755	PITTSBURGH 27 01	ALLEGHENY
1882702	119	441	5	68	633	PITTSBURGH 27 02	ALLEGHENY
1882703	101	371	2	70	544	PITTSBURGH 27 03	ALLEGHENY
1882704	128	481	9	85	703	PITTSBURGH 27 04	ALLEGHENY
1882705	115	482	5	78	680	PITTSBURGH 27 05	ALLEGHENY
1882706	97	529	5	76	707	PITTSBURGH 27 06	ALLEGHENY
1882707	92	417	2	80	591	PITTSBURGH 27 07	ALLEGHENY
1882708	85	403	7	51	546	PITTSBURGH 27 08	ALLEGHENY
1882709	64	443	2	66	575	PITTSBURGH 27 09	ALLEGHENY
1882710	50	491	2	58	601	PITTSBURGH 27 10	ALLEGHENY

1882711	71	466	2	64	603	PITTSBURGH 27 11	ALLEGHENY
1882712	55	415	5	43	518	PITTSBURGH 27 12	ALLEGHENY
1882713	46	422	2	52	522	PITTSBURGH 27 13	ALLEGHENY
1882801	150	401	3	86	640	PITTSBURGH 28 01	ALLEGHENY
1882802	89	347	3	83	522	PITTSBURGH 28 02	ALLEGHENY
1882803	195	514	6	91	806	PITTSBURGH 28 03	ALLEGHENY
1882804	123	442	1	52	618	PITTSBURGH 28 04	ALLEGHENY
1882805	117	406	4	88	615	PITTSBURGH 28 05	ALLEGHENY
1882806	96	372	2	69	539	PITTSBURGH 28 06	ALLEGHENY
1882807	72	532	2	81	687	PITTSBURGH 28 07	ALLEGHENY
1882808	132	558	5	89	784	PITTSBURGH 28 08	ALLEGHENY
1882809	58	483	0	41	582	PITTSBURGH 28 09	ALLEGHENY
1882810	78	272	9	89	448	PITTSBURGH 28 10	ALLEGHENY
1882811	7	106	0	13	126	PITTSBURGH 28 11	ALLEGHENY
1882901	78	402	6	74	560	PITTSBURGH 29 01	ALLEGHENY
1882902	78	348	5	57	488	PITTSBURGH 29 02	ALLEGHENY
1882903	80	312	0	46	438	PITTSBURGH 29 03	ALLEGHENY
1882904	93	334	5	71	503	PITTSBURGH 29 04	ALLEGHENY
1882905	73	372	4	71	520	PITTSBURGH 29 05	ALLEGHENY
1882906	119	362	3	70	554	PITTSBURGH 29 06	ALLEGHENY
1882907	105	394	5	64	568	PITTSBURGH 29 07	ALLEGHENY
1882908	62	351	3	93	509	PITTSBURGH 29 08	ALLEGHENY
1882909	56	324	2	52	434	PITTSBURGH 29 09	ALLEGHENY
1882910	75	368	0	59	502	PITTSBURGH 29 10	ALLEGHENY
1882911	103	423	4	75	605	PITTSBURGH 29 11	ALLEGHENY
1882912	82	348	4	68	502	PITTSBURGH 29 12	ALLEGHENY
1883001	34	324	0	33	391	PITTSBURGH 30 01	ALLEGHENY
1883002	30	339	1	41	411	PITTSBURGH 30 02	ALLEGHENY
1883003	35	311	2	45	393	PITTSBURGH 30 03	ALLEGHENY
1883004	51	470	6	74	601	PITTSBURGH 30 04	ALLEGHENY
1883005	70	479	2	60	611	PITTSBURGH 30 05	ALLEGHENY
1883101	43	165	0	29	237	PITTSBURGH 31 01	ALLEGHENY
1883102	79	292	2	32	405	PITTSBURGH 31 02	ALLEGHENY
1883103	126	376	4	62	568	PITTSBURGH 31 03	ALLEGHENY
1883104	120	366	5	51	542	PITTSBURGH 31 04	ALLEGHENY
1883105	126	453	3	53	635	PITTSBURGH 31 05	ALLEGHENY
1883106	129	335	3	42	509	PITTSBURGH 31 06	ALLEGHENY
1883107	8	118	0	12	138	PITTSBURGH 31 07	ALLEGHENY
1883201	114	304	2	67	487	PITTSBURGH 32 01	ALLEGHENY
1883202	114	398	6	88	606	PITTSBURGH 32 02	ALLEGHENY
1883203	86	345	1	50	482	PITTSBURGH 32 03	ALLEGHENY
1883204	65	243	2	35	345	PITTSBURGH 32 04	ALLEGHENY
1883205	106	356	2	48	512	PITTSBURGH 32 05	ALLEGHENY
1883206	125	403	3	60	591	PITTSBURGH 32 06	ALLEGHENY
1883207	76	338	4	55	473	PITTSBURGH 32 07	ALLEGHENY
1883208	130	407	3	68	608	PITTSBURGH 32 08	ALLEGHENY
1890001	242	311	6	91	650	PLEASANT HL 00 01	ALLEGHENY

1890002	175	262	2	66	505	PLEASANT HL 00 02	ALLEGHENY
1890003	201	270	4	55	530	PLEASANT HL 00 03	ALLEGHENY
1890004	149	273	1	66	489	PLEASANT HL 00 04	ALLEGHENY
1890005	222	417	6	70	715	PLEASANT HL 00 05	ALLEGHENY
1890006	358	439	5	84	886	PLEASANT HL 00 06	ALLEGHENY
1890007	182	237	3	64	486	PLEASANT HL 00 07	ALLEGHENY
1890008	216	237	3	44	500	PLEASANT HL 00 08	ALLEGHENY
1890009	270	300	2	60	632	PLEASANT HL 00 09	ALLEGHENY
1890010	205	245	4	68	522	PLEASANT HL 00 10	ALLEGHENY
1900001	684	782	10	189	1665	PLUM 00 01	ALLEGHENY
1900002	177	287	5	82	551	PLUM 00 02	ALLEGHENY
1900003	463	369	3	57	892	PLUM 00 03	ALLEGHENY
1900004	296	398	3	74	771	PLUM 00 04	ALLEGHENY
1900005	254	490	4	91	839	PLUM 00 05	ALLEGHENY
1900006	428	592	2	132	1154	PLUM 00 06	ALLEGHENY
1900007	419	609	3	122	1153	PLUM 00 07	ALLEGHENY
1900008	203	295	5	66	569	PLUM 00 08	ALLEGHENY
1900009	403	539	5	93	1040	PLUM 00 09	ALLEGHENY
1900010	200	238	4	85	527	PLUM 00 10	ALLEGHENY
1900011	251	389	1	88	729	PLUM 00 11	ALLEGHENY
1900012	355	523	5	119	1002	PLUM 00 12	ALLEGHENY
1900013	215	258	1	64	538	PLUM 00 13	ALLEGHENY
1900014	234	354	7	91	686	PLUM 00 14	ALLEGHENY
1900015	270	338	8	123	739	PLUM 00 15	ALLEGHENY
1900016	230	268	3	56	557	PLUM 00 16	ALLEGHENY
1900017	193	389	7	69	658	PLUM 00 17	ALLEGHENY
1900018	275	402	2	92	771	PLUM 00 18	ALLEGHENY
1900019	669	805	12	198	1684	PLUM 00 19	ALLEGHENY
1900020	247	355	4	75	681	PLUM 00 20	ALLEGHENY
1900021	147	192	0	37	376	PLUM 00 21	ALLEGHENY
1910001	122	370	5	60	557	PORT VUE 00 01	ALLEGHENY
1910002	127	337	4	51	519	PORT VUE 00 02	ALLEGHENY
1910003	108	379	3	34	524	PORT VUE 00 03	ALLEGHENY
1910004	165	404	3	62	634	PORT VUE 00 04	ALLEGHENY
1920100	15	314	0	29	358	RANKIN 01 00	ALLEGHENY
1920200	18	371	0	28	417	RANKIN 02 00	ALLEGHENY
1920300	35	518	1	31	585	RANKIN 03 00	ALLEGHENY
1930100	107	320	3	47	477	RESERVE 01 00	ALLEGHENY
1930200	147	315	6	68	536	RESERVE 02 00	ALLEGHENY
1930300	114	310	4	73	501	RESERVE 03 00	ALLEGHENY
1930400	202	487	2	105	796	RESERVE 04 00	ALLEGHENY
1940001	455	368	5	145	973	RICHLAND 00 01	ALLEGHENY
1940002	483	383	7	125	998	RICHLAND 00 02	ALLEGHENY
1940003	476	422	8	146	1052	RICHLAND 00 03	ALLEGHENY
1940004	528	378	6	149	1061	RICHLAND 00 04	ALLEGHENY
1940005	489	306	5	137	937	RICHLAND 00 05	ALLEGHENY
1940006	495	390	1	121	1007	RICHLAND 00 06	ALLEGHENY

1940007	472	395	13	160	1040	RICHLAND 00 07	ALLEGHENY
1940008	460	345	7	78	890	RICHLAND 00 08	ALLEGHENY
1950001	581	738	9	144	1472	ROBINSON 00 01	ALLEGHENY
1950002	295	536	7	83	921	ROBINSON 00 02	ALLEGHENY
1950003	161	430	1	51	643	ROBINSON 00 03	ALLEGHENY
1950004	156	409	8	67	640	ROBINSON 00 04	ALLEGHENY
1950005	124	416	5	35	580	ROBINSON 00 05	ALLEGHENY
1950006	250	408	5	132	795	ROBINSON 00 06	ALLEGHENY
1950007	490	731	8	99	1328	ROBINSON 00 07	ALLEGHENY
1950008	451	703	16	171	1341	ROBINSON 00 08	ALLEGHENY
1950009	704	1120	11	267	2102	ROBINSON 00 09	ALLEGHENY
1960101	277	341	2	82	702	ROSS 01 01	ALLEGHENY
1960102	207	301	3	64	575	ROSS 01 02	ALLEGHENY
1960103	129	255	3	53	440	ROSS 01 03	ALLEGHENY
1960104	329	350	6	105	790	ROSS 01 04	ALLEGHENY
1960201	396	503	7	164	1070	ROSS 02 01	ALLEGHENY
1960202	385	414	3	90	892	ROSS 02 02	ALLEGHENY
1960203	271	318	2	77	668	ROSS 02 03	ALLEGHENY
1960301	258	278	0	101	637	ROSS 03 01	ALLEGHENY
1960302	243	303	3	103	652	ROSS 03 02	ALLEGHENY
1960303	169	261	9	73	512	ROSS 03 03	ALLEGHENY
1960304	227	317	8	85	637	ROSS 03 04	ALLEGHENY
1960401	288	394	1	119	802	ROSS 04 01	ALLEGHENY
1960402	185	237	1	57	480	ROSS 04 02	ALLEGHENY
1960403	301	314	4	84	703	ROSS 04 03	ALLEGHENY
1960404	270	281	9	93	653	ROSS 04 04	ALLEGHENY
1960501	254	229	3	71	557	ROSS 05 01	ALLEGHENY
1960502	129	198	5	39	371	ROSS 05 02	ALLEGHENY
1960503	288	408	5	74	775	ROSS 05 03	ALLEGHENY
1960504	264	371	5	77	717	ROSS 05 04	ALLEGHENY
1960601	150	263	4	65	482	ROSS 06 01	ALLEGHENY
1960602	260	466	9	122	857	ROSS 06 02	ALLEGHENY
1960603	192	344	3	86	625	ROSS 06 03	ALLEGHENY
1960604	155	338	3	61	557	ROSS 06 04	ALLEGHENY
1960701	180	295	2	83	560	ROSS 07 01	ALLEGHENY
1960702	148	254	6	65	473	ROSS 07 02	ALLEGHENY
1960703	193	412	5	73	683	ROSS 07 03	ALLEGHENY
1960704	166	301	3	76	546	ROSS 07 04	ALLEGHENY
1960801	486	755	15	191	1447	ROSS 08 01	ALLEGHENY
1960802	162	278	1	60	501	ROSS 08 02	ALLEGHENY
1960803	154	277	1	56	488	ROSS 08 03	ALLEGHENY
1960901	319	346	0	80	745	ROSS 09 01	ALLEGHENY
1960902	341	417	3	136	897	ROSS 09 02	ALLEGHENY
1960903	318	402	2	87	809	ROSS 09 03	ALLEGHENY
1970001	175	150	0	40	365	ROSSLYN FARM 00 01	ALLEGHENY
2040001	203	265	5	64	537	S FAYETTE 00 01	ALLEGHENY
2040002	430	428	6	119	983	S FAYETTE 00 02	ALLEGHENY

2040003	487	545	10	183	1225	S FAYETTE 00 03	ALLEGHENY
2040004	334	378	4	93	809	S FAYETTE 00 04	ALLEGHENY
2040005	270	373	2	93	738	S FAYETTE 00 05	ALLEGHENY
2040006	430	505	4	163	1102	S FAYETTE 00 06	ALLEGHENY
2040007	208	316	4	72	600	S FAYETTE 00 07	ALLEGHENY
2040008	686	511	6	204	1407	S FAYETTE 00 08	ALLEGHENY
2040009	261	256	4	72	593	S FAYETTE 00 09	ALLEGHENY
2040010	262	385	3	112	762	S FAYETTE 00 10	ALLEGHENY
2040011	295	433	4	106	838	S FAYETTE 00 11	ALLEGHENY
2040012	172	230	3	56	461	S FAYETTE 00 12	ALLEGHENY
2060001	65	109	0	24	198	S VERSAILLES 00 01	ALLEGHENY
1980101	109	351	1	79	540	SCOTT 01 01	ALLEGHENY
1980102	116	394	5	84	599	SCOTT 01 02	ALLEGHENY
1980201	131	284	1	59	475	SCOTT 02 01	ALLEGHENY
1980202	170	410	0	57	637	SCOTT 02 02	ALLEGHENY
1980301	159	282	1	46	488	SCOTT 03 01	ALLEGHENY
1980302	228	380	4	68	680	SCOTT 03 02	ALLEGHENY
1980401	251	406	5	75	737	SCOTT 04 01	ALLEGHENY
1980402	156	345	2	74	577	SCOTT 04 02	ALLEGHENY
1980501	147	349	1	61	558	SCOTT 05 01	ALLEGHENY
1980502	208	407	4	79	698	SCOTT 05 02	ALLEGHENY
1980601	167	371	4	88	630	SCOTT 06 01	ALLEGHENY
1980602	220	438	3	94	755	SCOTT 06 02	ALLEGHENY
1980701	320	408	4	112	844	SCOTT 07 01	ALLEGHENY
1980702	203	318	1	75	597	SCOTT 07 02	ALLEGHENY
1980801	158	268	4	66	496	SCOTT 08 01	ALLEGHENY
1980802	461	415	3	99	978	SCOTT 08 02	ALLEGHENY
1980901	72	174	2	55	303	SCOTT 09 01	ALLEGHENY
1980902	88	187	2	56	333	SCOTT 09 02	ALLEGHENY
1990100	353	387	10	144	894	SEWICKLEY 01 00	ALLEGHENY
1990201	223	174	1	71	469	SEWICKLEY 02 01	ALLEGHENY
1990202	263	207	3	91	564	SEWICKLEY 02 02	ALLEGHENY
1990300	338	402	7	134	881	SEWICKLEY 03 00	ALLEGHENY
2010001	247	184	4	71	506	SEWICKLEY HL 00 01	ALLEGHENY
2000001	428	177	6	104	715	SEWICKLEY HT 00 01	ALLEGHENY
2020101	145	273	3	47	468	SHALER 01 01	ALLEGHENY
2020102	141	261	2	62	466	SHALER 01 02	ALLEGHENY
2020103	167	324	5	68	564	SHALER 01 03	ALLEGHENY
2020104	151	339	4	64	558	SHALER 01 04	ALLEGHENY
2020105	165	364	3	84	616	SHALER 01 05	ALLEGHENY
2020201	357	506	2	110	975	SHALER 02 01	ALLEGHENY
2020202	265	347	3	73	688	SHALER 02 02	ALLEGHENY
2020203	147	326	1	83	557	SHALER 02 03	ALLEGHENY
2020204	252	361	5	87	705	SHALER 02 04	ALLEGHENY
2020205	97	208	2	45	352	SHALER 02 05	ALLEGHENY
2020301	205	302	4	53	564	SHALER 03 01	ALLEGHENY
2020302	203	303	2	60	568	SHALER 03 02	ALLEGHENY

2020303	228	255	3	67	553	SHALER 03 03	ALLEGHENY
2020304	272	335	4	77	688	SHALER 03 04	ALLEGHENY
2020305	273	300	1	63	637	SHALER 03 05	ALLEGHENY
2020401	310	363	6	114	793	SHALER 04 01	ALLEGHENY
2020402	152	206	2	57	417	SHALER 04 02	ALLEGHENY
2020403	260	278	2	82	622	SHALER 04 03	ALLEGHENY
2020404	267	272	2	67	608	SHALER 04 04	ALLEGHENY
2020405	166	251	3	53	473	SHALER 04 05	ALLEGHENY
2020501	280	317	3	81	681	SHALER 05 01	ALLEGHENY
2020502	244	305	1	73	623	SHALER 05 02	ALLEGHENY
2020503	204	238	0	58	500	SHALER 05 03	ALLEGHENY
2020504	147	154	1	36	338	SHALER 05 04	ALLEGHENY
2020505	251	374	6	103	734	SHALER 05 05	ALLEGHENY
2020601	225	316	1	50	592	SHALER 06 01	ALLEGHENY
2020602	218	351	3	79	651	SHALER 06 02	ALLEGHENY
2020603	211	233	2	56	502	SHALER 06 03	ALLEGHENY
2020604	102	195	1	26	324	SHALER 06 04	ALLEGHENY
2020605	217	262	1	45	525	SHALER 06 05	ALLEGHENY
2020701	159	336	7	65	567	SHALER 07 01	ALLEGHENY
2020702	241	397	4	90	732	SHALER 07 02	ALLEGHENY
2020703	204	307	6	91	608	SHALER 07 03	ALLEGHENY
2020704	329	514	2	106	951	SHALER 07 04	ALLEGHENY
2030001	81	384	4	64	533	SHARPSBURG 00 01	ALLEGHENY
2030002	102	522	2	103	729	SHARPSBURG 00 02	ALLEGHENY
2030003	164	549	4	84	801	SHARPSBURG 00 03	ALLEGHENY
2050001	619	735	4	197	1555	SOUTH PARK 00 01	ALLEGHENY
2050002	246	371	4	87	708	SOUTH PARK 00 02	ALLEGHENY
2050003	191	308	1	76	576	SOUTH PARK 00 03	ALLEGHENY
2050004	105	283	1	40	429	SOUTH PARK 00 04	ALLEGHENY
2050005	218	409	5	65	697	SOUTH PARK 00 05	ALLEGHENY
2050006	296	433	2	84	815	SOUTH PARK 00 06	ALLEGHENY
2050007	334	586	17	98	1035	SOUTH PARK 00 07	ALLEGHENY
2050008	159	263	5	57	484	SOUTH PARK 00 08	ALLEGHENY
2050009	293	357	6	77	733	SOUTH PARK 00 09	ALLEGHENY
2050010	259	430	4	88	781	SOUTH PARK 00 10	ALLEGHENY
2050011	179	301	4	85	569	SOUTH PARK 00 11	ALLEGHENY
2050012	180	288	2	66	536	SOUTH PARK 00 12	ALLEGHENY
2070001	189	384	2	89	664	SPRINGDAL BR 00 01	ALLEGHENY
2070002	176	316	1	49	542	SPRINGDAL BR 00 02	ALLEGHENY
2070003	129	295	4	45	473	SPRINGDAL BR 00 03	ALLEGHENY
2070004	110	253	4	41	408	SPRINGDAL BR 00 04	ALLEGHENY
2080001	340	669	4	100	1113	SPRINGDAL TP 00 01	ALLEGHENY
2090100	35	321	2	40	398	STOWE 01 00	ALLEGHENY
2090201	25	124	2	21	172	STOWE 02 01	ALLEGHENY
2090202	73	529	0	65	667	STOWE 02 02	ALLEGHENY
2090300	44	307	2	30	383	STOWE 03 00	ALLEGHENY
2090401	41	281	3	39	364	STOWE 04 01	ALLEGHENY

2090402	59	269	3	28	359	STOWE 04 02	ALLEGHENY
2090500	57	357	0	39	453	STOWE 05 00	ALLEGHENY
2090600	56	331	1	40	428	STOWE 06 00	ALLEGHENY
2090700	31	228	0	20	279	STOWE 07 00	ALLEGHENY
2090800	41	307	0	45	393	STOWE 08 00	ALLEGHENY
2090900	37	249	0	33	319	STOWE 09 00	ALLEGHENY
2100001	87	691	4	80	862	SWISSVALE 00 01	ALLEGHENY
2100002	63	546	3	84	696	SWISSVALE 00 02	ALLEGHENY
2100003	74	463	6	80	623	SWISSVALE 00 03	ALLEGHENY
2100004	100	393	8	91	592	SWISSVALE 00 04	ALLEGHENY
2100005	109	483	6	76	674	SWISSVALE 00 05	ALLEGHENY
2100006	42	298	1	46	387	SWISSVALE 00 06	ALLEGHENY
2100007	89	429	4	70	592	SWISSVALE 00 07	ALLEGHENY
2100008	117	448	4	91	660	SWISSVALE 00 08	ALLEGHENY
2100009	72	465	3	62	602	SWISSVALE 00 09	ALLEGHENY
2100010	11	187	1	12	211	SWISSVALE 00 10	ALLEGHENY
2100011	99	440	6	80	625	SWISSVALE 00 11	ALLEGHENY
2110101	139	350	5	89	583	TARENTUM 01 01	ALLEGHENY
2110102	133	240	3	72	448	TARENTUM 01 02	ALLEGHENY
2110200	116	327	3	73	519	TARENTUM 02 00	ALLEGHENY
2110301	65	143	5	58	271	TARENTUM 03 01	ALLEGHENY
2110302	132	336	5	76	549	TARENTUM 03 02	ALLEGHENY
2120001	165	179	5	46	395	THORNBURG 00 01	ALLEGHENY
2130001	16	27	0	7	50	TRAFFORD 00 01	ALLEGHENY
2140101	144	560	6	75	785	TURTLE CREEK 01 01	ALLEGHENY
2140102	58	271	3	47	379	TURTLE CREEK 01 02	ALLEGHENY
2140201	91	468	3	59	621	TURTLE CREEK 02 01	ALLEGHENY
2140202	54	212	2	34	302	TURTLE CREEK 02 02	ALLEGHENY
2140301	94	424	1	70	589	TURTLE CREEK 03 01	ALLEGHENY
2140302	93	329	0	34	456	TURTLE CREEK 03 02	ALLEGHENY
2150101	338	223	5	69	635	UP ST CLAIR 01 01	ALLEGHENY
2150102	398	247	4	109	758	UP ST CLAIR 01 02	ALLEGHENY
2150103	425	277	6	85	793	UP ST CLAIR 01 03	ALLEGHENY
2150104	369	267	0	113	749	UP ST CLAIR 01 04	ALLEGHENY
2150201	375	358	4	142	879	UP ST CLAIR 02 01	ALLEGHENY
2150202	387	175	5	85	652	UP ST CLAIR 02 02	ALLEGHENY
2150203	382	434	3	131	950	UP ST CLAIR 02 03	ALLEGHENY
2150204	261	167	3	64	495	UP ST CLAIR 02 04	ALLEGHENY
2150301	455	374	1	119	949	UP ST CLAIR 03 01	ALLEGHENY
2150302	373	348	6	89	816	UP ST CLAIR 03 02	ALLEGHENY
2150303	627	359	9	132	1127	UP ST CLAIR 03 03	ALLEGHENY
2150401	462	327	4	136	929	UP ST CLAIR 04 01	ALLEGHENY
2150402	388	232	3	106	729	UP ST CLAIR 04 02	ALLEGHENY
2150403	296	217	1	73	587	UP ST CLAIR 04 03	ALLEGHENY
2150404	592	214	3	96	905	UP ST CLAIR 04 04	ALLEGHENY
2150501	621	434	5	159	1219	UP ST CLAIR 05 01	ALLEGHENY
2150502	404	256	4	106	770	UP ST CLAIR 05 02	ALLEGHENY

2150503	384	291	7	122	804	UP ST CLAIR 05 03	ALLEGHENY
2160001	78	325	3	65	471	VERONA 00 01	ALLEGHENY
2160002	131	362	4	69	566	VERONA 00 02	ALLEGHENY
2160003	98	396	3	72	569	VERONA 00 03	ALLEGHENY
2170001	94	338	2	44	478	VERSAILLES 00 01	ALLEGHENY
2170002	85	319	1	47	452	VERSAILLES 00 02	ALLEGHENY
2200001	71	179	1	32	283	W ELIZABETH 00 01	ALLEGHENY
2210001	55	351	3	54	463	W HOMESTEAD 00 01	ALLEGHENY
2210002	74	326	0	35	435	W HOMESTEAD 00 02	ALLEGHENY
2210003	114	348	2	42	506	W HOMESTEAD 00 03	ALLEGHENY
2180001	57	199	3	35	294	WALL 00 01	ALLEGHENY
2190001	525	576	11	153	1265	WEST DEER 00 01	ALLEGHENY
2190002	186	272	4	54	516	WEST DEER 00 02	ALLEGHENY
2190003	245	424	2	90	761	WEST DEER 00 03	ALLEGHENY
2190004	332	333	4	73	742	WEST DEER 00 04	ALLEGHENY
2190005	259	426	4	79	768	WEST DEER 00 05	ALLEGHENY
2190006	237	358	7	98	700	WEST DEER 00 06	ALLEGHENY
2190007	633	588	10	173	1404	WEST DEER 00 07	ALLEGHENY
2190008	551	580	7	163	1301	WEST DEER 00 08	ALLEGHENY
2220001	120	474	5	66	665	WEST MIFFLIN 00 01	ALLEGHENY
2220002	31	365	0	38	434	WEST MIFFLIN 00 02	ALLEGHENY
2220003	82	316	2	45	445	WEST MIFFLIN 00 03	ALLEGHENY
2220004	10	359	1	42	412	WEST MIFFLIN 00 04	ALLEGHENY
2220005	146	622	1	46	815	WEST MIFFLIN 00 05	ALLEGHENY
2220006	56	218	1	38	313	WEST MIFFLIN 00 06	ALLEGHENY
2220007	109	527	1	59	696	WEST MIFFLIN 00 07	ALLEGHENY
2220008	61	444	5	45	555	WEST MIFFLIN 00 08	ALLEGHENY
2220009	135	539	3	58	735	WEST MIFFLIN 00 09	ALLEGHENY
2220010	100	328	4	52	484	WEST MIFFLIN 00 10	ALLEGHENY
2220011	187	445	5	94	731	WEST MIFFLIN 00 11	ALLEGHENY
2220012	173	698	5	99	975	WEST MIFFLIN 00 12	ALLEGHENY
2220013	102	382	3	49	536	WEST MIFFLIN 00 13	ALLEGHENY
2220014	184	574	4	68	830	WEST MIFFLIN 00 14	ALLEGHENY
2220015	102	409	2	42	555	WEST MIFFLIN 00 15	ALLEGHENY
2220016	276	756	6	96	1134	WEST MIFFLIN 00 16	ALLEGHENY
2220017	130	358	2	52	542	WEST MIFFLIN 00 17	ALLEGHENY
2220018	140	513	5	69	727	WEST MIFFLIN 00 18	ALLEGHENY
2220019	153	419	5	42	619	WEST MIFFLIN 00 19	ALLEGHENY
2220020	75	320	3	26	424	WEST MIFFLIN 00 20	ALLEGHENY
2220021	138	399	0	77	614	WEST MIFFLIN 00 21	ALLEGHENY
2230001	185	360	4	83	632	WEST VIEW 00 01	ALLEGHENY
2230002	182	416	9	120	727	WEST VIEW 00 02	ALLEGHENY
2230003	153	312	2	67	534	WEST VIEW 00 03	ALLEGHENY
2230004	167	312	7	73	559	WEST VIEW 00 04	ALLEGHENY
2230005	181	422	6	84	693	WEST VIEW 00 05	ALLEGHENY
2230006	179	389	3	91	662	WEST VIEW 00 06	ALLEGHENY
2230007	193	324	5	74	596	WEST VIEW 00 07	ALLEGHENY

2240001	66	291	4	30	391	WHITAKER 00 01	ALLEGHENY
2240002	38	302	3	32	375	WHITAKER 00 02	ALLEGHENY
2260001	209	431	7	86	733	WHITE OAK 00 01	ALLEGHENY
2260002	260	429	5	64	758	WHITE OAK 00 02	ALLEGHENY
2260003	273	484	8	74	839	WHITE OAK 00 03	ALLEGHENY
2260004	217	424	6	59	706	WHITE OAK 00 04	ALLEGHENY
2260005	248	439	5	67	759	WHITE OAK 00 05	ALLEGHENY
2260006	236	378	0	57	671	WHITE OAK 00 06	ALLEGHENY
2260007	333	566	3	75	977	WHITE OAK 00 07	ALLEGHENY
2250001	163	284	3	52	502	WHITEHALL 00 01	ALLEGHENY
2250002	187	308	3	65	563	WHITEHALL 00 02	ALLEGHENY
2250003	229	319	4	69	621	WHITEHALL 00 03	ALLEGHENY
2250004	231	331	2	72	636	WHITEHALL 00 04	ALLEGHENY
2250005	214	341	2	74	631	WHITEHALL 00 05	ALLEGHENY
2250006	124	510	7	161	802	WHITEHALL 00 06	ALLEGHENY
2250007	150	311	1	20	482	WHITEHALL 00 07	ALLEGHENY
2250008	287	382	8	73	750	WHITEHALL 00 08	ALLEGHENY
2250009	175	273	1	43	492	WHITEHALL 00 09	ALLEGHENY
2250010	182	325	1	62	570	WHITEHALL 00 10	ALLEGHENY
2250011	218	287	2	67	574	WHITEHALL 00 11	ALLEGHENY
2250012	200	279	1	53	533	WHITEHALL 00 12	ALLEGHENY
2250013	128	259	1	55	443	WHITEHALL 00 13	ALLEGHENY
2250014	206	303	3	60	572	WHITEHALL 00 14	ALLEGHENY
2250015	303	479	6	81	869	WHITEHALL 00 15	ALLEGHENY
2250016	234	271	1	60	566	WHITEHALL 00 16	ALLEGHENY
2270101	217	409	5	111	742	WILKINS 01 01	ALLEGHENY
2270102	230	329	3	55	617	WILKINS 01 02	ALLEGHENY
2270103	218	437	5	91	751	WILKINS 01 03	ALLEGHENY
2270104	161	359	4	78	602	WILKINS 01 04	ALLEGHENY
2270105	97	276	1	49	423	WILKINS 01 05	ALLEGHENY
2270201	185	345	3	68	601	WILKINS 02 01	ALLEGHENY
2270202	193	547	5	113	858	WILKINS 02 02	ALLEGHENY
2280101	37	875	1	54	967	WILKINSBURG 01 01	ALLEGHENY
2280102	31	660	0	44	735	WILKINSBURG 01 02	ALLEGHENY
2280103	20	428	0	26	474	WILKINSBURG 01 03	ALLEGHENY
2280104	65	436	3	53	557	WILKINSBURG 01 04	ALLEGHENY
2280105	87	372	6	65	530	WILKINSBURG 01 05	ALLEGHENY
2280106	51	795	2	80	928	WILKINSBURG 01 06	ALLEGHENY
2280201	56	650	2	82	790	WILKINSBURG 02 01	ALLEGHENY
2280202	119	745	0	75	939	WILKINSBURG 02 02	ALLEGHENY
2280203	53	737	1	80	871	WILKINSBURG 02 03	ALLEGHENY
2280204	21	430	1	54	506	WILKINSBURG 02 04	ALLEGHENY
2280205	36	589	8	89	722	WILKINSBURG 02 05	ALLEGHENY
2280301	101	419	9	140	669	WILKINSBURG 03 01	ALLEGHENY
2280302	74	415	5	102	596	WILKINSBURG 03 02	ALLEGHENY
2280303	33	677	3	56	769	WILKINSBURG 03 03	ALLEGHENY
2280304	89	637	11	157	894	WILKINSBURG 03 04	ALLEGHENY

2280305	49	743	12	117	921	WILKINSBURG 03 05	ALLEGHENY
2280306	28	424	1	43	496	WILKINSBURG 03 06	ALLEGHENY
2290001	70	394	3	54	521	WILMERDING 00 01	ALLEGHENY
2290002	112	515	3	80	710	WILMERDING 00 02	ALLEGHENY
Total	230899	505812	5033	108584	850328		ALLEGHENY

Exhibit G

DISTRICT ID	REP	DEM	LIBERTARIAN	ALL_OTHER	TOTAL	DISTRICTNAME	COUNTYNAME
1520402	156	325	4	63	548	HARRISON 04 02	ALLEGHENY