

Date: 6/9/2021

Subject: Case Study Banks Township - Antrim County Election Management Server Found to be Subverted

Analyst: Jeffrey Lenberg

Executive Summary

The Antrim County Dominion Democracy Suite 5.5.12.1 Election Management Server (EMS) has been found to be subverted. To illustrate the subversion, a case study was performed on Banks Township to show the results of the manipulation of the project files on the EMS and how the EMS handled the errors introduced.

When conducting an election with an election project file containing a shift (akin to the Antrim County incident) large enough to move all votes off the ballot, the EMS gives no error messages at all. The EMS has been programmed to suppress all error messages related to the shifting of indexes beyond the confines of the Banks ballot illustrating one of the factors indicating that the EMS has been subverted.

This case study on Banks Township shows that shifting of indexes for all the races entirely off the ballot nullifies the cast votes and changes the status of each contest to an undervote. An undervote occurs when no vote is cast for the contest, or an insufficient number of votes for a multi-vote contest. This kind of shift of the indexes must result in an error at the EMS due to routine error handling in modern software applications. Indeed, all modern programming languages would throw an exception that must be caught and handled by the programmer. In the case of the Antrim County EMS it does not produce any errors on the EMS because the exception is handled in a fashion to create an undervote and disregard the authentic vote. The subversion intentionally suppresses the errors that would likely occur in order to allow manipulation of the votes without detection.

Details

The Antrim County Dominion Democracy Suite Version 5.5.17 Election Management Server (EMS) is subverted to allow for the manipulation of votes. The subversion of the Antrim EMS is specific to the error handling procedures of the software. The software would typically show an error if the vote selections were shifted outside of a single contest, moreover, when all of the votes for all of the contests on the ballot are moved outside the indexes on that individual ballot the software would be expected to throw what is called an exception in software engineering. When an exception occurs, it must be handled by a programming routine that is designed for error handling (aka exception handling); if this does not occur, the result is typically a crash of the program, and immediate termination of the application. This would be very noticeable to the user as the entire program would stop running and it would appear to crash from the user's perspective.

The Banks Township case study was designed to show what occurs on the Antrim County EMS when the database is manipulated to move all the votes for all contests outside of acceptable parameters. The indexes in the EMS database for Banks Township begin at the number 1 and then go to a top number of 552. Each index number represents the bullet for each possible vote choice in every contest on the Banks Township ballot, including every single choice for write-ins as well. Figure 1 shows the default configuration of the Antrim County EMS ChoiceManifestion Table that contains the vote index positions.

Testing for the Antrim County EMS Subversion

For the purposes of the Banks Township case study, the beginning index number for the Banks Township ballot was set to 561 and the top number in the range was set to 1,112. This was accomplished by adding 560 to all the internalMachineIds (see Figure 1) in the ChoiceManifestation table and then proceeding with the election.

For the purposes of this case study, the Banks Township “ballot” will refer to all four ballot styles used in Banks Township. This is the reason there are 552 total vote choices due to the four different ballot styles.

The result is that the indexes for every single vote choice for the Banks Township ballot are outside of the range of indexes expected for the Banks Township ballot. Figure 1 shows the MS SQL command used to add 560 to each internalMachineId index. See Figure 2 showing the ranges for the test.

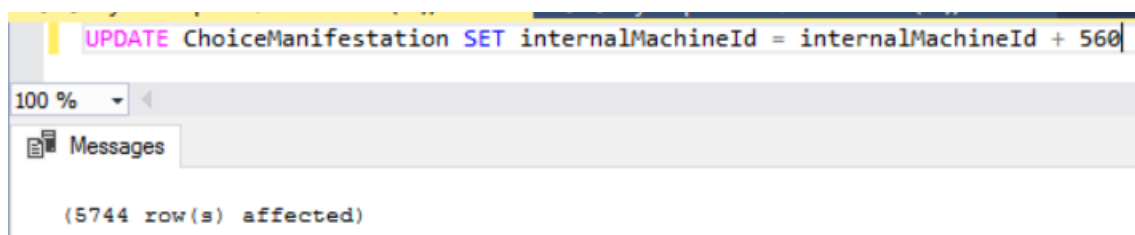


Figure 1 - Adding 560 to Every internalMachineId in the Antrim County EMS Database

FROM [ChoiceManifestation]			FROM [ChoiceManifestation]		
100 %			100 %		
Results Messages			Results Messages		
	__classid	internalMachineId		__classid	internalMachineId
1	000J	312	1	000J	872
2	000J	5466	2	000J	6026
3	000J	5299	3	000J	5859
4	000J	522	4	000J	1082
5	000J	3056	5	000J	3616
6	000J	4005	6	000J	4565
7	000J	3822	7	000J	4382
8	000J	681	8	000J	1241
9	000J	1231	9	000J	1791
10	000J	1888	10	000J	2448
11	000J	4566	11	000J	5126
12	000J	3596	12	000J	4156
13	000J	886	13	000J	1446
14	000J	1820	14	000J	2380
15	000J	5503	15	000J	6063
16	000J	1349	16	000J	1909
17	000J	860	17	000J	1420
18	000J	1139	18	000J	1699
19	000J	4176	19	000J	4736
20	000J	5449	20	000J	6009
21	000J	1793	21	000J	2353
22	000J	2192	22	000J	2752
23	000J	1760	23	000J	2320
24	000J	2963	24	000J	3523
25	000J	3391	25	000J	3951
26	000J	5619	26	000J	6179
27	000J	802	27	000J	1362

Figure 2 Index Values in the Beginning of the ChoiceManifestation Table Before and After Addition of 560 to internalMachineId

The fact that every single vote choice is set to be outside the anticipated range of vote choices values means that the software must throw an exception that would likely result in a critical error for the EMS system and the inability to load the results from that particular compact flash card.

In order to show that the Antrim County EMS is subverted and that loading Banks Township results would not result in an EMS crash when loaded with the indexes entirely out of range for the ballot, a testing regime was followed where 210 ballots were run through the ImageCast Precinct (ICP) tabulator. See Appendix A for images of the ballots that were used for the test procedure. The objective of the test was to illustrate that the paper tapes would accurately convey the totals of the vote while the EMS would show undervotes for all contests, the result is the categorical loss of all the votes due to the subversion. All the votes on the EMS show undervotes. This means that for the 210 ballots cast there were 4,890 individual contest votes discarded by the EMS due to the subversion. Note that the 4,890

discarded contest votes are based on the specific vote pattern on the ballots in Appendix A.

The fact that the Antrim County EMS does not reject the loading of the compact flash cards, generate any type of error, crash or otherwise indicate that there is an issue with the results processing shows the EMS is subverted. The error handling of the Antrim County EMS purposefully disregards the votes cast and labels them as undervotes instead of raising an error. The conclusion is that the Antrim County EMS has been purposefully subverted. Furthermore, the subversion of error handling is a primary tactic of any cyber attacker.

The vote totals on the tape are illustrated in Figure 4, the paper tape is not impacted by the large shift from the Banks case study. The Presidential contest results from the EMS are found in Figure 3 and there are no votes recorded for any of the candidates with all the votes being discarded and recorded as undervotes. The entire EMS output for Banks Township election showing undervotes for all races is included in Appendix B.

Contest: President and Vice President of the United States		
Number Of Postions : 1		
Precinct Portion:		
Ballot Manifestation : 0		
Ballot Statistics		
Contest Results		
Overvotes:	0	
Undervotes:	210	
Blank:	210	
Double Votes:	0	
Invalid Votes:	0	
Writein Overrides:	0	
Candidate Results		
Name	Party	Votes
Joseph R. Biden / Kamala D. Harris	DEM	0
Donald J. Trump / Michael R. Pence	REP	0
Jo Jorgensen / Jeremy Cohen	LIB	0
Don Blankenship / William Mohr	UST	0
Howie Hawkins / Angela Walker	GRN	0
Rocky De La Fuente / Darcy Richardson	NLP	0
Write-in		0

Figure 3 - EMS/RTR Output for Presidential Contest - All Undervotes

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Total Votes:	0
President and Vice President of the United States (1)	
Joseph R. Biden / Kamala D. Harris (Democrat):	60
Donald J. Trump / Michael R. Pence (Republican):	120
Jo Jorgensen / Jeremy Cohen (Libertarian):	30
Don Blankenship / William Mohr (U.S. Taxpayers):	0
Howie Hawkins / Angela Walker (Green):	0
Rocky De La Fuente / Darcy Richardson (Natural Law):	0
Write-in:	0
Total Votes:	210
United States Senator for State (1)	
Gary Peters (Democrat):	60
John James (Republican):	120
Valerie L. Willis (U.S.):	

Figure 3 - Paper Tapes for Banks County - Results are Unmodified on the Tape

Successful Loading of Compact Flash Cards that Should Have Been Rejected

The expert report by Halderman dated March 26, 2021, indicated that only 4 townships' compact flash cards failed to load on the Antrim County EMS, see Figure 5. The subversion of the Antrim County EMS actually allowed twelve (12) additional townships compact flash cards to load successfully despite the flawed configuration that resulted in the shifting of votes.

These additional townships would have failed to load on the EMS if not for the subversion in the Antrim County EMS system that allowed for the cards to load normally and not trigger any rejection of the cards or errors in the EMS:

1. Chestonia Township
2. Echo Township
3. Helena Township

4. Star Township
5. Custer Township
6. Elk Rapids, AV Board
7. Torch Lake Township
8. Forest Home Township
9. Milton Township, AV Board
10. Central Lake Township
11. Jordan Township
12. Kearney Township

The Antrim County EMS is capable of generating an error when attempting to load results from corrupt compact flash cards, but did not due to the subversion. An error from the EMS similar to this one should have been generated for corrupt data. Figure 4 gives an example of an error that would be expected from the EMS. In this case the slog.txt is loaded, meaning that there is a log entry accounting for the error, but no actual results are loaded into the EMS for reporting functions; therefore, inaccurate vote totals do not get reported if this proper error handling does occur.

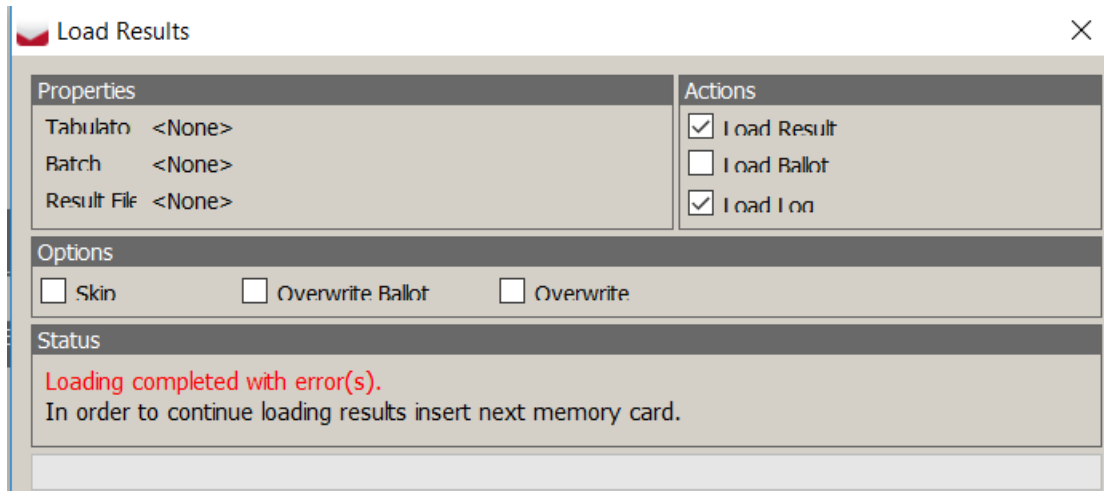


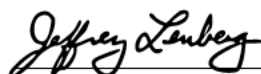
Figure 4 - Error Loading Compact Flash Card

Nov. 3	21:48	<i>EMS begins loading results from scanner memory cards.</i>		
	21:49	Chestonia Township	Card loaded successfully.	Should not have loaded
	22:31–22:38	Warner Township	Failed to load, 7 attempts.	
	22:41	Banks Township	Card loaded successfully.	Should not have loaded
	22:53	Echo Township	Card loaded successfully.	
	22:56	Warner Township	Final failed loading attempt.	
	23:03–00:18	Warner Township	Manually entered from poll tape	Should not have loaded
Nov. 4	00:20	Helena Township	Card loaded successfully.	Should not have loaded
	00:23	Star Township	Card loaded successfully.	Should not have loaded
	00:26	Custer Township	Card loaded successfully.	
	00:28	Elk Rapids, Precinct 1	Failed to load.	Should not have loaded
	00:31	Elk Rapids, AV Board	Card loaded successfully.	Should not have loaded
	00:34	Torch Lake Township	Card loaded successfully.	Should not have loaded
	00:36	Forest Home Township	Card loaded successfully.	Should not have loaded
	00:38	Milton Township, AV Board	Card loaded successfully.	
	00:38	Milton Township, Precinct 1	Failed to load.	
	01:10–01:41	Elk Rapids, Precinct 1	Manually entered from poll tape	Should not have loaded
	01:43	Central Lake Township	Card loaded successfully.	Should not have loaded
	01:48–02:04	Milton Township, Precinct 1	Manually entered from poll tape	Should not have loaded
	02:05	Jordan Township	Card loaded successfully.	Should not have loaded
	03:36	Kearney Township	Card loaded successfully.	
	03:43	Mancelona, Precinct 1	Card loaded successfully.	
	03:44	Mancelona, Precinct 2	Card loaded successfully.	
	03:51–04:09	<i>EMS produces unofficial results report for public distribution.</i>		

Table 4: **Election Night Timeline.** The EMS log shows that county staff worked through the night of Nov. 3–4 to load results from scanner memory cards. Three of 18 cards failed to load, and those results were entered manually from scanner poll tapes. At 4:09 a.m., the EMS produced the unofficial results report posted on Antrim’s website. Officials learned hours later that the results were erroneous.

Figure 5 - Halderman Report Table 4

Under the penalties of perjury, I declare that I have read the foregoing report and that facts stated in it are true.

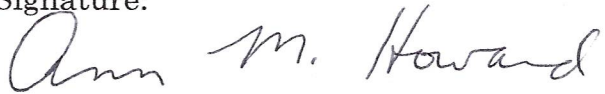

Jeffrey Lenberg

MICHIGAN NOTARY ACKNOWLEDGEMENT

State of Michigan
County of Oakland

The foregoing instrument was acknowledged before me on this 9th day of June,
2021 by Jeffrey Lenberg.

Notary Public Signature:

A handwritten signature in cursive script that reads "Ann M. Howard". The signature is written in dark ink and is positioned below the "Notary Public Signature:" label.

Notary Printed Name: Ann M. Howard
Acting in the County of: Oakland
My Commission Expires: 2/24/2023

Ballots used for the Banks Township Case Study



Appendix A
 Ballots used for the Banks
 Township Case Study

18:22 1207/03/90

OFFICIAL BALLOT
 General Election
 Tuesday, November 3, 2020
 Antrim County, Michigan
 Banks Township, Precinct 1CENT

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party ☐	Ellen Cogen Lipton ☒	Eva Garza Dewaelsche ☒
Republican Party ☐	Jason Strayhorn ☒	Shirley Stancato ☒
Libertarian Party ☐	Tami Carlone ☐	Don Gates ☐
U.S. Taxpayers Party ☐	Michelle A. Frederick ☐	Terri Lynn Land ☐
Working Class Party ☐	Bill Hall ☐	Jon Elgas ☐
Green Party ☐	Richard A. Hewer ☐	Christine C. Schwartz ☐
Natural Law Party ☐	Karen Adams ☐	Susan Odgers ☐
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Mark Bernstein ☒	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden ☒	Shauna Ryder Diggs ☒	James L. Rossiter ☐
Kamala D. Harris ☐	Sarah Hubbard ☐	Sheriff Vote for not more than 1
Donald J. Trump ☐	Carl Meyers ☐	Daniel S. Bean ☐
Michael R. Pence ☐	James L. Hudler ☐	Clerk Vote for not more than 1
Jo Jorgensen ☐	Eric Larson ☐	Sheryl Guy ☐
Jeremy Cohen ☐	Ronald E. Graesser ☐	Treasurer Vote for not more than 1
Don Blankenship ☐	Crystal Van Sickle ☐	Sherry A. Comben ☐
William Mohr ☐	Michael Mawilai ☐	Register of Deeds Vote for not more than 1
U.S. Taxpayers ☐	Keith Butkovich ☐	Patty Niepoth ☐
Howie Hawkins ☐	Trustee of Michigan State University Vote for not more than 2	Drain Commissioner Vote for not more than 1
Angela Walker ☐	Brian Mosallam ☒	Mark Stone ☐
Green ☐	Rema Ella Vassar ☒	Surveyor Vote for not more than 1
Rocky De La Fuente ☐	Pat O'Keeffe ☐	Scott Papineau ☐
Darcy Richardson ☐	Tonya Schultmaker ☐	County Commissioner 1st District Vote for not more than 1
Congressional	Will Tyler White ☐	Jarris Rubingh ☐
United States Senator Vote for not more than 1	Janet M. Sanger ☐	Township
Gary Peters ☒	John Paul Sanger ☐	Supervisor Vote for not more than 1
John James ☐	Brandon Hu ☐	Alex Susman ☐
Valerie L. Willis ☐	Robin Lea Laurain ☐	
U.S. Taxpayers ☐	Bridgette Abraham-Guzman ☐	
Marcia Squier ☐		
Green ☐		
Doug Dern ☐		
Representative in Congress 1st District Vote for not more than 1		
Dana Ferguson ☒		
Jack Bergman ☐		
Ben Boren ☐		
Legislative		
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke ☒		
Ken Burton ☐		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 7 - Ballot #2 for Banks Township Case Study

Appendix A
Ballots used for the Banks
Township Case Study

OFFICIAL BALLOT
 General Election
 Tuesday, November 3, 2020
 Antrim County, Michigan
 Banks Township, Precinct 1CENT

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party ☐	Ellen Cogen Lipton ☐	Eva Garza Dewaelsche ☐
Republican Party ☐	Jason Strayhorn ☐	Shirley Stancato ☐
Libertarian Party ☐	Tami Carlone ☐	Don Gates ☐
U.S. Taxpayers Party ☐	Michelle A. Frederick ☐	Terri Lynn Land ☐
Working Class Party ☐	Bill Hall ☐	Jon Elgas ☐
Green Party ☐	Richard A. Hewer ☐	Christine C. Schwartz ☐
Natural Law Party ☐	Karen Adams ☐	Susan Odgers ☐
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Mark Bernstein ☐	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden ☐	Shauna Ryder Diggs ☐	James L. Rossiter ☐
Kamala D. Harris ☐	Sarah Hubbard ☐	Sheriff Vote for not more than 1
Donald J. Trump ☐	Carl Meyers ☐	Daniel S. Bean ☐
Michael R. Pence ☐	James L. Hudler ☐	Clerk Vote for not more than 1
Jo Jorgensen ☐	Eric Larson ☐	Sheryl Guy ☐
Jeremy Cohen ☐	Ronald E. Graesser ☐	Treasurer Vote for not more than 1
Don Blankenship ☐	Crystal Van Sickle ☐	Sherry A. Comben ☐
William Mohr ☐	Michael Mowllai ☐	Register of Deeds Vote for not more than 1
Howie Hawkins ☐	Keith Butkovich ☐	Patty Niepoth ☐
Angela Walker ☐	Trustee of Michigan State University Vote for not more than 2	Drain Commissioner Vote for not more than 1
Roccy De La Fuente ☐	Brian Mosallam ☐	Mark Stone ☐
Darcy Richardson ☐	Rema Ella Vassar ☐	Surveyor Vote for not more than 1
Congressional	Pat O'Keefe ☐	Scott Papineau ☐
United States Senator Vote for not more than 1	Tonya Schuitmaker ☐	County Commissioner 1st District Vote for not more than 1
Gary Peters ☐	Will Tyler White ☐	Jarris Rubingh ☐
John James ☐	Janet M. Sanger ☐	Township
Valerie L. Willis ☐	John Paul Sanger ☐	Supervisor Vote for not more than 1
Marcia Squier ☐	Brandon Hu ☐	Alex Sugman ☐
Doug Dern ☐	Robin Lea Laurain ☐	
Representative in Congress 1st District Vote for not more than 1	Bridgette Abraham-Guzman ☐	
Dana Ferguson ☐		
Jack Bergman ☐		
Ben Boren ☐		
Legislative		
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke ☐		
Ken Burton ☐		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 8 - Ballot #3 for Banks Township Case Study

Ballots used for the Banks Township Case Study

OFFICIAL BALLOT		
General Election Tuesday, November 3, 2020 Antrim County, Michigan Banks Township, Precinct 1CENT		
Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1.	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party ☐	Ellen Cogen Lipton Democrat	Eva Garza Dewalsche Democrat
Republican Party ☐	Jason Strayhorn Democrat	Shirley Stancato Democrat
Libertarian Party ☐	Tami Carlone Republican	Don Gates Republican
U.S. Taxpayers Party ☐	Michelle A. Frederick Republican	Terri Lynn Land Republican
Working Class Party ☐	Bill Hall Libertarian	Jon Elges Libertarian
Green Party ☐	Richard A. Hewer Libertarian	Christine C. Schwartz U.S. Taxpayers
Natural Law Party ☐	Karen Adams U.S. Taxpayers	Susan Odgers Green
Douglas Levesque U.S. Taxpayers	Mary Anne Hering Working Class	
Hali McEachern Working Class	Tom Mair Green	
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Mark Bernstein Democrat	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden Democrat	Shauna Ryder Duggs Democrat	James L. Rossiter Republican
Donald J. Trump Republican	Sarah Hubbard Republican	
Jo Jorgensen Libertarian	Carl Meyers Republican	Clerk Vote for not more than 1
Don Blankenship William Mohr U.S. Taxpayers	James L. Hudler Libertarian	Sheryl Guy Republican
Howie Hawkins Angela Walker Green	Eric Larson Libertarian	
Rocky De La Fuente Darcy Richardson Natural Law	Ronald E. Grasper U.S. Taxpayers	Treasurer Vote for not more than 1
	Crystal Van Sickle U.S. Taxpayers	Sherry A. Comben Republican
	Michael Maxwell Green	
	Keith Butkovich Natural Law	
Congressional	Trustee of Michigan State University Vote for not more than 2	Register of Deeds Vote for not more than 1
United States Senator Vote for not more than 1	Brian Mosallam Democrat	Patty Nicpoth Republican
Gary Peters Democrat	Rema Ella Vassar Democrat	
John James Republican	Pat O'Keefe Republican	Drain Commissioner Vote for not more than 1
Valerie L. Willis U.S. Taxpayers	Tonya Schuitmaker Republican	Mark Stone Republican
Marcia Squier Green	Will Tyler White Libertarian	
Doug Dern Natural Law	Janet M. Sanger U.S. Taxpayers	Surveyor Vote for not more than 1
	John Paul Sanger U.S. Taxpayers	Scott Papineau Republican
	Brandon Hu Green	
Representative in Congress 1st District Vote for not more than 1	Robin Lea Lauralin Green	County Commissioner 1st District Vote for not more than 1
Dana Ferguson Democrat	Bridgette Abraham-Guzman Natural Law	Jarris Rubingh Republican
Jack Bergman Republican		
Ben Boren Libertarian		
Legislative		Township
Representative in State Legislature 105th District Vote for not more than 1		Supervisor Vote for not more than 1
Jonathan Burke Democrat		Alex Gusman Republican
Ken Borton Republican		

Figure 9 Ballot #4 for Banks Township Case Study

Appendix A
Ballots used for the Banks
Township Case Study

98:22 1702/03/90

OFFICIAL BALLOT
 General Election
 Tuesday, November 3, 2020
 Antrim County, Michigan
 Banks Township, Precinct 1CENT

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party ☐	Ellen Cogen Lipton ☐	Eva Garza Dewaelsche ☐
Republican Party ☐	Jason Strayhorn ☐	Shirley Stancato ☐
Libertarian Party ☐	Tami Carlone ☐	Don Gaters ☐
U.S. Taxpayers Party ☐	Michelle A. Frederick ☐	Terri Lynn Land ☐
Working Class Party ☐	Bill Hall ☐	Jon Elgas ☐
Green Party ☐	Richard A. Hewer ☐	Christine C. Schwartz ☐
Natural Law Party ☐	Karen Adams ☐	Susan Odgers ☐
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Douglas Levesque ☐	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden ☐	Mary Anne Hering ☐	James L. Rossiter ☐
Kamala D. Harris ☐	Hali McEachern ☐	Sheriff Vote for not more than 1
Donald J. Trump ☐	Tom Mair ☐	Daniel S. Bean ☐
Michael R. Pence ☐	Mark Bernstein ☐	Clerk Vote for not more than 1
Jo Jorgensen ☐	Shauna Ryder Diggs ☐	Sheryl Guy ☐
Jeremy Cohen ☐	Sarah Hubbard ☐	Treasurer Vote for not more than 1
Don Blankenship ☐	Carl Meyers ☐	Sherry A. Comben ☐
William Mohr ☐	James L. Hudler ☐	Register of Deeds Vote for not more than 1
U.S. Taxpayers ☐	Eric Larson ☐	Patty Niepoth ☐
Howie Hawkins ☐	Ronald E. Graesser ☐	Drain Commissioner Vote for not more than 1
Angela Walker ☐	Crystal Van Sickle ☐	Mark Stone ☐
Green ☐	Michael Mawilai ☐	Surveyor Vote for not more than 1
Rocky De La Fuente ☐	Keith Butkovich ☐	Scott Pagnieu ☐
Darcy Richardson ☐	Trustee of Michigan State University Vote for not more than 2	County Commissioner 1st District Vote for not more than 1
Congressional	Brian Mosalam ☐	Jamie Rubingh ☐
United States Senator Vote for not more than 1	Rema Ella Vassar ☐	Township
Gary Peters ☐	Pat O'Keefe ☐	Supervisor Vote for not more than 1
John James ☐	Tonya Schultmaker ☐	Alex Busman ☐
Valerie L. Willis ☐	Will Tyler White ☐	
U.S. Taxpayers ☐	Janet M. Sanger ☐	
Marla Squier ☐	John Paul Sanger ☐	
Green ☐	Brandon Hu ☐	
Doug Dern ☐	Robin Lea Laurain ☐	
Representative in Congress 1st District Vote for not more than 1	Bridgette Abraham-Guzman ☐	
Dana Ferguson ☐		
Jack Bergman ☐		
Ben Boren ☐		
Legislative		
Representative in State Legislature 100th District Vote for not more than 1		
Jonathan Burke ☐		
Ken Borton ☐		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 10 Ballot #5 for Banks Township Case Study

Appendix A
Ballots used for the Banks
Township Case Study

9E:22 1707/EO/90

OFFICIAL BALLOT
 General Election
 Tuesday, November 3, 2020
 Antrim County, Michigan
 Banks Township, Precinct 1CENT

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party ☐	Ellen Cogen Lipton ☐	Eva Garza Dewaelsche ☐
Republican Party ☐	Jason Strayhorn ☐	Shirley Stancato ☐
Libertarian Party ☐	Tami Carlone ☐	Don Gates ☐
U.S. Taxpayers Party ☐	Michelle A. Frederick ☐	Terri Lynn Land ☐
Working Class Party ☐	Bill Hall ☐	Jon Elgas ☐
Green Party ☐	Richard A. Hower ☐	Christine C. Schwartz ☐
Natural Law Party ☐	Karen Adams ☐	Susan Odgers ☐
Presidential	Douglas Levesque ☐	
Electors of President and Vice-President of the United States Vote for not more than 1	Mary Anne Hering ☐	County
Joseph R. Biden ☐	Hali McEachern ☐	Prosecuting Attorney Vote for not more than 1
Kamala D. Harris ☐	Tom Mair ☐	James L. Rossiter ☐
Donald J. Trump ☐	Regent of the University of Michigan Vote for not more than 2	Sheriff Vote for not more than 1
Michael R. Pence ☐	Mark Bernstein ☐	Daniel S. Bean ☐
Jo Jorgensen ☐	Shauna Ryder Diggs ☐	Clerk Vote for not more than 1
Jeremy Cohen ☐	Sarah Hubbard ☐	Sheryl Guy ☐
Don Blankenship ☐	Carl Meyers ☐	Treasurer Vote for not more than 1
William Mohr ☐	James L. Hudler ☐	Sherry A. Comben ☐
Angela Walker ☐	Eric Larson ☐	Register of Deeds Vote for not more than 1
Howie Hawkins ☐	Ronald E. Graesser ☐	Patty Niepoth ☐
Rocky De La Fuente ☐	Crystal Van Ginkle ☐	Drain Commissioner Vote for not more than 1
Darcy Richardson ☐	Michael Maxwell ☐	Mark Stone ☐
Congressional	Keith Butkovich ☐	Surveyor Vote for not more than 1
United States Senator Vote for not more than 1	Trustee of Michigan State University Vote for not more than 2	Scott Papineau ☐
Gary Peters ☐	Brian Mosallam ☐	County Commissioner 1st District Vote for not more than 1
John James ☐	Rema Ella Vassar ☐	Jarris Rubingh ☐
Valerie L. Willis ☐	Pat O'Keefe ☐	Township
Marcia Squier ☐	Tonya Schultmaker ☐	Supervisor Vote for not more than 1
Doug Dern ☐	Will Tyler White ☐	Alex Busman ☐
Representative in Congress 1st District Vote for not more than 1	Janet M. Sanger ☐	
Dana Ferguson ☐	John Paul Sanger ☐	
Jack Bergman ☐	Brandon Hu ☐	
Ben Boren ☐	Robin Lea Laurain ☐	
Legislative	Bridgette Abraham-Guzman ☐	
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke ☐		
Ken Borton ☐		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 11 Ballot #6 for Banks Township Case Study

Appendix A
Ballots used for the Banks
Township Case Study

98:22 1707/EO/90

OFFICIAL BALLOT
 General Election
 Tuesday, November 3, 2020
 Antrim County, Michigan
 Banks Township, Precinct 1CENT

Partisan Section	State Boards	State Boards
Straight Party Ticket Vote for not more than 1	Member of the State Board of Education Vote for not more than 2	Governor of Wayne State University Vote for not more than 2
Democratic Party ☐	Ellen Cogen Lipton ☐	Eva Garza Dewaelsche ☐
Republican Party ☐	Jason Strayhorn ☐	Shirley Stancato ☐
Libertarian Party ☐	Tami Carlone ☐	Don Gates ☐
U.S. Taxpayers Party ☐	Michelle A. Frederick ☐	Terri Lynn Land ☐
Working Class Party ☐	Bill Hall ☐	Jon Elgas ☐
Green Party ☐	Richard A. Heuer ☐	Christine C. Schwartz ☐
Natural Law Party ☐	Karen Adams ☐	Susan Odgers ☐
Presidential	Regent of the University of Michigan Vote for not more than 2	County
Electors of President and Vice-President of the United States Vote for not more than 1	Mark Bernstein ☐	Prosecuting Attorney Vote for not more than 1
Joseph R. Biden ☐	Shauna Ryder Diggs ☐	James L. Rossiter ☐
Kamala D. Harris ☐	Sarah Hubbard ☐	Sheriff Vote for not more than 1
Donald J. Trump ☐	Carl Meyers ☐	Daniel S. Bean ☐
Michael R. Pence ☐	James L. Hudler ☐	Clerk Vote for not more than 1
Jo Jorgensen ☐	Eric Larson ☐	Sheryl Guy ☐
Jeremy Cohen ☐	Ronald E. Graesser ☐	Treasurer Vote for not more than 1
Don Blankenship ☐	Crystal Van Sickle ☐	Sherry A. Comben ☐
William Mohr ☐	Michael Mawilaj ☐	Register of Deeds Vote for not more than 1
U.S. Taxpayers ☐	Keith Burkovich ☐	Patty Nisoph ☐
Howie Hawkins ☐	Trustee of Michigan State University Vote for not more than 2	Drain Commissioner Vote for not more than 1
Angela Walker ☐	Brian Mosallam ☐	Mark Stone ☐
Green ☐	Rema Ella Vassar ☐	Surveyor Vote for not more than 1
Rocky De La Fuente ☐	Pat O'Keefe ☐	Scott Papineau ☐
Darcy Richardson ☐	Tonya Schuttnaker ☐	County Commissioner 1st District Vote for not more than 1
Congressional	Will Tyler White ☐	Jamie Rubingh ☐
United States Senator Vote for not more than 1	Janet M. Sanger ☐	Township
Gary Peters ☐	John Paul Sanger ☐	Supervisor Vote for not more than 1
John James ☐	Brandon Hu ☐	Alex Bushman ☐
Valerie L. Willis ☐	Robin Lea Laurain ☐	
U.S. Taxpayers ☐	Bridgette Abraham-Guzman ☐	
Marcia Squier ☐		
Green ☐		
Doug Dern ☐		
Natural Law ☐		
Legislative		
Representative in Congress 1st District Vote for not more than 1		
Dana Ferguson ☐		
Jack Bergman ☐		
Ben Boren ☐		
Representative in State Legislature 105th District Vote for not more than 1		
Jonathan Burke ☐		
Ken Barton ☐		

VOTE BOTH FRONT AND BACK OF BALLOT

Figure 12 Ballot #7 for Banks Township Case Study

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest: **Straight Party Ticket**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

⬇

 Ballot Statistics

⬆

 Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

⬆

 Candidate Results

	Name	Party	Votes
	Democratic Party	DEM	0
	Republican Party	REP	0
	Libertarian Party	LIB	0
	U.S. Taxpayers Party	UST	0
	Working Class Party	WCP	0
	Green Party	GRN	0
	Natural Law Party	NLP	0

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Appendix B
 Antrim County EMS Results from
 Banks Township Case Study

Contest: President and Vice President of the United States			
Number Of Postions : 1			
Precinct Portion:			
Ballot Manifestation : 0			
 Ballot Statistics			
 Contest Results			
Overvotes:	0		
Undervotes:	210		
Blank:	210		
Double Votes:	0		
Invalid Votes:	0		
Writein Overrides:	0		
 Candidate Results			
	Name	Party	Votes
	Joseph R. Biden / Kamala D. Harris	DEM	0
	Donald J. Trump / Michael R. Pence	REP	0
	Jo Jorgensen / Jeremy Cohen	LIB	0
	Don Blankenship / William Mohr	UST	0
	Howie Hawkins / Angela Walker	GRN	0
	Rocky De La Fuente / Darcy Richardson	NLP	0
	Write-in		0

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest:United States Senator for State

Number Of Postions : 1

Precinct Portion:

Ballot Manifestation : 0

Ballot Statistics

Contest Results

Overvotes:0

Undervotes:210

Blank:210

Double Votes:0

Invalid Votes:0

Writein Overrides:0

Candidate Results

	Name	Party	Votes
	Gary Peters	DEM	0
	John James	REP	0
	Valerie L. Willis	UST	0
	Marcia Squier	GRN	0
	Doug Dern	NLP	0
	Write-in		0

Appendix B
 Antrim County EMS Results from
 Banks Township Case Study

Contest: Representative in Congress 1st District			
Number Of Postions : 1			
Precinct Portion:			
Ballot Manifestation : 0			
 Ballot Statistics			
 Contest Results			
Overvotes:	0		
Undervotes:	210		
Blank:	210		
Double Votes:	0		
Invalid Votes:	0		
Writein Overrides:	0		
 Candidate Results			
	Name	Party	Votes
	Dana Ferguson	DEM	0
	Jack Bergman	REP	0
	Ben Boren	LIB	0
	Write-in		0

Appendix B
 Antrim County EMS Results from
 Banks Township Case Study

Contest: Representative in State Legislature 105th District			
Number Of Postions : 1			
Precinct Portion:			
Ballot Manifestation : 0			
 Ballot Statistics			
 Contest Results			
Overvotes:	0		
Undervotes:	210		
Blank:	210		
Double Votes:	0		
Invalid Votes:	0		
Writein Overrides:	0		
 Candidate Results			
	Name	Party	Votes
	Jonathan Burke	DEM	0
	Ken Borton	REP	0
	Write-in		0

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest:	Member of the State Board of Education		
Number Of Postions :	2		
Precinct Portion:			
Ballot Manifestation :	0		

 Ballot Statistics

 Contest Results

Overvotes:	0
Undervotes:	420
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

 Candidate Results

	Name	Party	Votes
	Ellen Cogen Lipton	DEM	0
	Jason Strayhorn	DEM	0
	Tami Carlone	REP	0
	Michelle A. Frederick	REP	0
	Bill Hall	LIB	0
	Richard A. Hewer	LIB	0
	Karen Adams	UST	0
	Douglas Levesque	UST	0
	Mary Anne Hering	WCP	0
	Hali McEachern	WCP	0
	Tom Mair	GRN	0
	Write-in		0

Activate Windows
Go to Settings to activate Windows

Appendix B
 Antrim County EMS Results from
 Banks Township Case Study

Contest: Regent of the University of Michigan		
Number Of Postions : 2		
Precinct Portion:		
Ballot Manifestation : 0		
 Ballot Statistics		
 Contest Results		
Overvotes:	0	
Undervotes:	420	
Blank:	210	
Double Votes:	0	
Invalid Votes:	0	
Writein Overrides:	0	
 Candidate Results		
Name	Party	Votes
Mark Bernstein	DEM	0
Shauna Ryder Diggs	DEM	0
Sarah Hubbard	REP	0
Carl Meyers	REP	0
James L. Hudler	LIB	0
Eric Larson	LIB	0
Ronald E. Graeser	UST	0
Crystal Van Sickle	UST	0
Michael Mawilai	GRN	0
Keith Butkovich	NLP	0
Write-in		0

Appendix B
 Antrim County EMS Results from
 Banks Township Case Study

Contest: Trustee of Michigan State University	
Number Of Postions : 2	
Precinct Portion:	
Ballot Manifestation : 0	

 Ballot Statistics
--

 Contest Results
Overvotes: 0 Undervotes: 420 Blank: 210 Double Votes: 0 Invalid Votes: 0 Writein Overrides: 0

 Candidate Results																																				
<table border="1"> <thead> <tr> <th>Name</th> <th>Party</th> <th>Votes</th> </tr> </thead> <tbody> <tr> <td>Brian Mosallam</td> <td>DEM</td> <td>0</td> </tr> <tr> <td>Rema Ella Vassar</td> <td>DEM</td> <td>0</td> </tr> <tr> <td>Pat O'Keefe</td> <td>REP</td> <td>0</td> </tr> <tr> <td>Tonya Schuitmaker</td> <td>REP</td> <td>0</td> </tr> <tr> <td>Will Tyler White</td> <td>LIB</td> <td>0</td> </tr> <tr> <td>Janet M. Sanger</td> <td>UST</td> <td>0</td> </tr> <tr> <td>John Paul Sanger</td> <td>UST</td> <td>0</td> </tr> <tr> <td>Brandon Hu</td> <td>GRN</td> <td>0</td> </tr> <tr> <td>Robin Lea Laurain</td> <td>GRN</td> <td>0</td> </tr> <tr> <td>Bridgette Abraham-Guzman</td> <td>NLP</td> <td>0</td> </tr> <tr> <td>Write-in</td> <td></td> <td>0</td> </tr> </tbody> </table>	Name	Party	Votes	Brian Mosallam	DEM	0	Rema Ella Vassar	DEM	0	Pat O'Keefe	REP	0	Tonya Schuitmaker	REP	0	Will Tyler White	LIB	0	Janet M. Sanger	UST	0	John Paul Sanger	UST	0	Brandon Hu	GRN	0	Robin Lea Laurain	GRN	0	Bridgette Abraham-Guzman	NLP	0	Write-in		0
Name	Party	Votes																																		
Brian Mosallam	DEM	0																																		
Rema Ella Vassar	DEM	0																																		
Pat O'Keefe	REP	0																																		
Tonya Schuitmaker	REP	0																																		
Will Tyler White	LIB	0																																		
Janet M. Sanger	UST	0																																		
John Paul Sanger	UST	0																																		
Brandon Hu	GRN	0																																		
Robin Lea Laurain	GRN	0																																		
Bridgette Abraham-Guzman	NLP	0																																		
Write-in		0																																		

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest:	Governor of Wayne State University		
Number Of Postions :	2		
Precinct Portion:			
Ballot Manifestation :	0		

 **Ballot Statistics**

 **Contest Results**

Overvotes:	0
Undervotes:	420
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

 **Candidate Results**

	Name	Party	Votes
	Eva Garza Dewaelsche	DEM	0
	Shirley Stancato	DEM	0
	Don Gates	REP	0
	Terri Lynn Land	REP	0
	Jon Elgas	LIB	0
	Christine C. Schwartz	UST	0
	Susan Odgers	GRN	0
	Write-in		0

Contest: **County Prosecuting Attorney**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

Name	Party	Votes
James L. Rossiter	REP	0
Write-in		0

Contest: **County Sheriff**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

Name	Party	Votes
Daniel S. Bean	REP	0
Write-in		0

Contest:	County Clerk		
Number Of Postions :	1		
Precinct Portion:			
Ballot Manifestation :	0		

Ballot Statistics

Contest Results

Overvotes:	0
Undervotes:	210
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

Candidate Results

	Name	Party	Votes
	Sheryl Guy	REP	0
	Write-in		0

Contest:	County Treasurer		
Number Of Postions :	1		
Precinct Portion:			
Ballot Manifestation :	0		

Ballot Statistics

Contest Results

Overvotes:	0
Undervotes:	210
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

Candidate Results

	Name	Party	Votes
	Sherry A. Comben	REP	0
	Write-in		0

Appendix B
Antrim County EMS Results from
Banks Township Case Study

Contest: **County Register of Deeds**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

	Name	Party	Votes
	Patty Niepoth	REP	0
	Write-in		0

Contest: **County Drain Commissioner**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

	Name	Party	Votes
	Mark Stone	REP	0
	Write-in		0

Appendix B
Antrim County EMS Results from
Banks Township Case Study

Contest:
County Surveyor

Number Of Postions :
1

Precinct Portion:

Ballot Manifestation :
0

Ballot Statistics

Contest Results

Overvotes:
0

Undervotes:
210

Blank:
210

Double Votes:
0

Invalid Votes:
0

Writein Overrides:
0

Candidate Results

	Name	Party	Votes
	Scott Papineau	REP	0
	Write-in		0

Appendix B
Antrim County EMS Results from Banks Township Case Study

Contest:
County Commissioner 1st District

Number Of Postions :
1

Precinct Portion:

Ballot Manifestation :
0

Ballot Statistics

Contest Results

Overvotes:
0

Undervotes:
210

Blank:
210

Double Votes:
0

Invalid Votes:
0

Writein Overrides:
0

Candidate Results

	Name	Party	Votes
	Jarris Rubingh	REP	0
	Write-in		0

Contest:
Township Supervisor for Banks Township

Number Of Postions :
1

Precinct Portion:

Ballot Manifestation :
0

Ballot Statistics

Contest Results

Overvotes:
0

Undervotes:
210

Blank:
210

Double Votes:
0

Invalid Votes:
0

Writein Overrides:
0

Candidate Results

	Name	Party	Votes
	Alex Busman	REP	0
	Write-in		0

Contest: **Township Clerk for Banks Township**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

↓ Ballot Statistics

↑ Contest Results

Overvotes:

Undervotes:

Blank:

Double Votes:

Invalid Votes:

Writein Overrides:

↑ Candidate Results

	Name	Party	Votes
	Donna L. Heeres	REP	0
	Write-in		0

Contest: **Township Treasurer for Banks Township**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

↓ Ballot Statistics

↑ Contest Results

Overvotes:

Undervotes:

Blank:

Double Votes:

Invalid Votes:

Writein Overrides:

↑ Candidate Results

	Name	Party	Votes
	Katherine Postmus	NPA	0
	Write-in		0

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest:

Township Trustee for Banks Township

Number Of Postions :

2

Precinct Portion:

Ballot Manifestation :

0

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

420

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

	Name	Party	Votes
	Tom L. Cooper	REP	0
	Anita Hoeksema	NPA	0
	David E. Rasmussen	NPA	0
	Write-in		0

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Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest:	Justice of Supreme Court
Number Of Postions :	2
Precinct Portion:	
Ballot Manifestation :	0

↓	Ballot Statistics
---	-------------------

↑	Contest Results
---	-----------------

Overvotes:	0
Undervotes:	420
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

↑	Candidate Results
---	-------------------

	Name	Party	Votes
	Susan L. Hubbard		0
	Mary Kelly		0
	Bridget Mary McCormack		0
	Kerry Lee Morgan		0
	Katherine Mary Nepton		0
	Brock Swartzle		0
	Elizabeth M. Welch		0
	Write-in		0

Contest: **Judge of Court of Appeals 4th District Incumbent Position**

Number Of Postions : **2**

Precinct Portion:

Ballot Manifestation : **0**

 Ballot Statistics

 Contest Results

Overvotes:

Undervotes:

Blank:

Double Votes:

Invalid Votes:

Writein Overrides:

 Candidate Results

	Name	Party	Votes
	Michael J. Kelly		0
	Amy Ronayne Krause		0
	Write-in		0

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest:	Judge of Court of Appeals 4th District Non-Incumbent Position		
Number Of Postions :	1		
Precinct Portion:			
Ballot Manifestation :	0		

 Ballot Statistics

 Contest Results

Overvotes:	0
Undervotes:	210
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

 Candidate Results

	Name	Party	Votes
	Michelle Rick		0
	Write-in		0

Contest:	Judge of Circuit Court 13th Circuit Incumbent Position		
Number Of Postions :	1		
Precinct Portion:			
Ballot Manifestation :	0		

 Ballot Statistics

 Contest Results

Overvotes:	0
Undervotes:	210
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

 Candidate Results

	Name	Party	Votes
	Kevin A. Elsenheimer		0
	Write-in		0

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest: **Board Member for Charlevoix-Emmet Intermediate School District 6 Year**

Number Of Positions : **3**

Precinct Portion:

Ballot Manifestation : **0**

↓ Ballot Statistics

↑ Contest Results

Overvotes:

Undervotes:

Blank:

Double Votes:

Invalid Votes:

Writein Overrides:

↑ Candidate Results

	Name	Party	Votes
	Thelma A. Chellis		0
	Jean E. Frentz		0
	Mary P. Jason		0
	Write-in		0

Contest: **Board Member for Charlevoix-Emmet Intermediate School District Partia**
Number Of Postions : **1**
Precinct Portion:
Ballot Manifestation : **0**

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

	Name	Party	Votes
	Larry Cassidy		0
	Write-in		0

Contest: **Board Member for Charlevoix-Emmet Intermediate School District Partia**
Number Of Postions : **1**
Precinct Portion:
Ballot Manifestation : **0**

Ballot Statistics

Contest Results

Overvotes:

0

Undervotes:

210

Blank:

210

Double Votes:

0

Invalid Votes:

0

Writein Overrides:

0

Candidate Results

	Name	Party	Votes
	Write-in		0

Appendix B
Antrim County EMS Results from
Banks Township Case Study

Contest:	School Board Member for Central Lake Schools		
Number Of Postions :	3		
Precinct Portion:			
Ballot Manifestation :	0		

 Ballot Statistics

 Contest Results

Overvotes:	0
Undervotes:	630
Blank:	210
Double Votes:	0
Invalid Votes:	0
Writein Overrides:	0

 Candidate Results

	Name	Party	Votes
	Melanie Eckhardt		0
	Keith Shafer		0
	Write-in		0

Appendix B

Antrim County EMS Results from Banks Township Case Study

Contest: **State Proposal 20-2**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

↓ Ballot Statistics

↑ Contest Results

Overvotes:

Undervotes:

Blank:

Double Votes:

Invalid Votes:

Writein Overrides:

↑ Candidate Results

	Name	Party	Votes
	Yes		0
	No		0

Contest: **State Proposal 20-1**

Number Of Postions : **1**

Precinct Portion:

Ballot Manifestation : **0**

↓ Ballot Statistics

↑ Contest Results

Overvotes:

Undervotes:

Blank:

Double Votes:

Invalid Votes:

Writein Overrides:

↑ Candidate Results

	Name	Party	Votes
	Yes		0
	No		0