

**To:** Cheryl Holmes[cheryl.holmes@dominionvoting.com]  
**From:** Cathi Smothers  
**Sent:** Tue 6/4/2019 7:22:18 AM  
**Subject:** RE: RCV  
RCV Question Response.docx

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Hi Cheryl,

I've attached what I put together in response to these questions. The questions regarding surplus and fractional votes have to do with the Single Transferable Vote (STV) method. I have no real experience with this method so I put what I do know into the document.

My meeting doesn't start until 11 am eastern so if you have any questions, please let me know before then if possible. Also feel free to make any corrections/additions/subtractions you feel necessary.

Thanks,  
Cathi

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**From:** Cheryl Holmes  
**Sent:** Monday, June 3, 2019 1:25 PM  
**To:** Cathi Smothers <cathi.smothers@dominionvoting.com>  
**Cc:** Jerry Wagoner <jerry.wagoner@dominionvoting.com>; Darren Silverburg <darren.silverburg@dominionvoting.com>; Ian Piper <ian.piper@dominionvoting.com>  
**Subject:** Fwd: RCV

Hi Cathi

Please see below the additional info requested by the state of Michigan about the technical.aspepts of RCV.

I'll reach out to sales for her other question.

Cheryl

**CHERYL HOLMES | SENIOR MANAGER,  
CUSTOMER RELATIONS MANAGER – FLORIDA / LOUISIANA / MICHIGAN  
DOMINION VOTING SYSTEMS  
1201 18<sup>th</sup> Street, Suite 210, Denver, CO 80202  
1.866.654.VOTE | [DOMINIONVOTING.COM](http://DOMINIONVOTING.COM)  
559.289.3818 MOBILE**

----- Original message -----

**From:** "Pierce, Carol (MDOS)" <[piercec1@michigan.gov](mailto:piercec1@michigan.gov)>  
**Date:** 6/3/19 12:50 PM (GMT-05:00)  
**To:** Cheryl Holmes <[cheryl.holmes@dominionvoting.com](mailto:cheryl.holmes@dominionvoting.com)>, Ian Piper <[ian.piper@dominionvoting.com](mailto:ian.piper@dominionvoting.com)>, Darren Silverburg <[darren.silverburg@dominionvoting.com](mailto:darren.silverburg@dominionvoting.com)>  
**Cc:** Kelly Garrett <[kelly.garrett@dominionvoting.com](mailto:kelly.garrett@dominionvoting.com)>  
**Subject:** RE: RCV

Cheryl,

I copied Ian Piper on this email because I had reached out to him for certification information and Darren Silverberg because I tend to reach out to him on anything programming. Hello Ian! Hello Darren!

Unfortunately – we need this info soon, as in probably yesterday – there is a DOJ lawsuit on a city that is getting ready to settle.

So here is what I am looking for – and I apologize if I am not using the correct terms – this seems to be a flavor of the day subject:

What algorithm is used? Single choice and multi choice races – how does your software award votes?

Handle fractional votes? Surplus votes? Along with under, over and write-ins?

Canvass document samples. How are the votes tabulated – aggregated and then awarded or awarded

from each tabulator? Local level?  
What options are left in the event of a recount? How would you unwind the election in order to recount? Or prove the math?  
Logic and accuracy testing? Test decks?  
What is meant by grid style layout?  
What is the maximum ranks allowed? Does that correlate to the amount of candidates to be elected?  
Is this in use by any of your other customers?  
Additionally:  
Are you able to and what would the cost be – rent out equipment, program software, etc. for use in a standalone election? Based on a 6 precinct jurisdiction.

Thank you!

Regards,  
Carol Pierce  
Election Specialist, Election Liaison Division  
Bureau of Elections, Secretary of State  
800-292-5973 517-335-3234

*"Oh for security's sake! Patch early and patch often!"*

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**From:** Cheryl Holmes <[cheryl.holmes@dominionvoting.com](mailto:cheryl.holmes@dominionvoting.com)>

**Sent:** Friday, May 31, 2019 5:08 PM

**To:** Pierce, Carol (MDOS) <[piercec1@michigan.gov](mailto:piercec1@michigan.gov)>

**Cc:** Kelly Garrett <[kelly.garrett@dominionvoting.com](mailto:kelly.garrett@dominionvoting.com)>

**Subject:** RE: RCV

Hi Carol,

I'm not as familiar with Rank Choice Voting (RCV) so let me check with our technical resources to answer your RCV questions.

Most of us will be out for election support the first part of next week; so it may be later in the week or early the next before I can get back to you. Please let me know if you need it sooner and I'll do what I can to get it to you.

Best wishes for a nice weekend.

Cheryl

**CHERYL HOLMES | SENIOR MANAGER,  
CUSTOMER RELATIONS MANAGER – Florida / Louisiana / Michigan  
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559.289.3818 MOBILE

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**From:** Pierce, Carol (MDOS) <[piercec1@michigan.gov](mailto:piercec1@michigan.gov)>

**Sent:** Friday, May 31, 2019 10:52 AM

**To:** Cheryl Holmes <[cheryl.holmes@dominionvoting.com](mailto:cheryl.holmes@dominionvoting.com)>

**Subject:** RCV

Cheryl,

Can you explain the method that DVS uses when performing Rank Choice Voting? As in, I am looking for the math formula, min and max rank limits, etc. If you have this function being used in other states would you be able to provide some reports or pass results?

Regards,

Carol Pierce  
Election Specialist, Election Liaison Division  
Bureau of Elections, Secretary of State  
800-292-5973 517-335-3234

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