Expected Outcome RCV Test Sets Multi-Winner

The tabs in the spreadsheet define the Test Conditions and Expected Outcomes for Accuracy Testing or Acceptance Testing for each named Ranked Choice Voting Tabulation Variant.

URCVT v.1.2.0 140-NY Expected Outcome RCV Test Sets Multi-Winner v.1.0.0 document is solely for use in the State of New York. This document can be expanded or updated as is necessary or required. Any recommendations listed in this document should not supersede user jurisdiction procedures or other controlling governance entities.

URCVT v.1.2.0 140-NY Expected Outcome RCV Test Sets Multi-Winner v.1.0.0

Tabulation of mult-seat test data using whole # threshold

Multi-winner with whole number threshold	This test set uses a version of the Weighted Inclusive Gregory Method (WIGM) in which the threshold is calculated on a whole number basis. ((Total ballots in round 1/Number of seats+1)+1) and fractions ignored. Surplus fractions are rounded down at the fourth decimal place and truncated.
Description Round 0	Shows what a tabulator tape would report for totals of the 30 ballots. Only 1st choices would be reported thus 2nd thru 6th choices are grayed out. Overvotes and undervotes are shown to account for votes not assigned to candidates (2 undervotes). While candidate C has 8 1st choice votes, enough to be elected, some jurisdictions choose to run the RCV tabulation before declaring winners. As this example demonstrates, candidates may gain votes in the RCV tabulation that were not reflected in the straight 1st choice tabulation.
Description Round 1	Employing the rule allowing a maximum of one skipped vote, ballot 9 is counted for C and ballot 10 is "exhausted" and counted as permanently "inactive." A new count is determined. In this round, candidate C was elected with 9 votes, a surplus of 1 vote.
Description Round 2	C's surplus is divided by the number of votes for C to calculate the "surplus fraction" (SF) to be distributed to each next continuing candidate on C's ballots. This yields a SF value of .1111 which is redistributed to these candidates and a new count is determined. No new candidates are elected so candidate F, having the fewest votes, will be eliminated.
Description Round 3	Candidate D 's ballots are counted for the next continuing candidate on each. On ballot 1, the 2nd choice (candidate C) is selected instead. On ballot 2, D's transfer value from C's surplus is counted for candidate F. On ballot 16, D is followed by 2 skipped choices and is thus exhausted and counted as "inactive." A new count is determined, and no new candidate is elected. Candidate F, having the fewest number of votes, will be eliminated.
Description Round 4	Candidate F 's ballots are counted for the next continuing candidate on each. Candidate B received full votes from candidate F from ballots 4 and 12 and the surplus transfer value from ballot 9. Candidate A received a full vote from candidate F from ballot 6 and the surplus transfer value from ballot 2. A new count is then determined, and no new candidate is elected. Candidate E, having the fewest number of votes, will be eliminated.
Description Round 5	Candidate E's ballots are counted for the next continuing candidate on each. Candidate A received full votes from candidate E's ballots from ballots 1, 17 and 21 and the surplus transfer value from ballots 3 and 18. Candidate B received full votes from candidate E's ballot from ballots 24 and 27 and the surplus transfer value from ballot 14. Candidates A and B are elected with vote totals exceeding the threshold.
Description Round 6	This round is optional. Jurisdictions wishing to show all winning candidates as receiving the threshold, so that none appear to have more votes than others, may do so by exercising this option. The surpluses for A & B are calculated by subtracting the threshold from their respective vote totals and the surplus fraction is calculated by dividing the surpluses by the vote totals for each candidate. The surplus fraction is then multiplied by the transfer value of the vote on each respective ballot and transferred to the next continuing candidate. In this case, there are no remaining continuing candidates thus, all surplus transfers are exhausted ballots and are counted as inactive.

How each ballot counts in each round with totals by round

		Round 0	Round 1--Elect C				Round 2--Redist Surplus from C, Elim D					Round 3--Elim F				Round 4--Elim E				Round 5--Elect A & B					Round 6--Redist Surplus from A & B					
Parameters: electing 3 seats		Candidate	Vote Totals	Vote Totals	Surplus	Surplus Fraction		Total Votes	Adjusted Total Votes	Change from Prev Round			Vote Totals	Change from Prev Round			Vote Totals	Change from Prev Round			Vote Totals	Change from Prev Round	Surplus	Surplus Fraction		Vote Totals	Adjusted Vote Totals	Change from Prev Round			Transfer Value
max skipped ranking =1		A	6	6				6.0000	6.0000	0.0000			6.0000	0.0000			7.1111	1.1111			10.3333	3.2222	elect	2.3333	0.225804	0.2258	8.0003	8.0000	-2.3333		0.025088	0.0250
Elected if vote total >= threshold		B	5	5				5.0000	5.0000	0.0000			5.0000	0.0000			7.1111	2.1111			9.2222	2.1111	elect	1.2222	0.132528	0.1325	8.0003	8.0000	-1.2222		0.014721	0.0147
T = int(V/(S+1)) + 1		C	8	9	elect	1.0000	0.11111	0.1111	8.0001	8.0000	-1.0000			8.0000	0.0000			8.0000	0.0000			8.0000	0.0000				8.0000	8.0000	0.0000			
T=	8.0000	D	2	2				2.1111	2.1111	0.1111	elim		0.0000	-2.1111			0.0000	0.0000			0.0000	0.0000				0.0000	0.0000	0.0000			
Adjusted Vote Totals	V=T	E	4	4				4.7777	4.7777	0.7777			5.7777	1.0000			5.7777	0.0000	elim		0.0000	-5.7777				0.0000	0.0000	0.0000			
		F	3	3				3.1111	3.1111	0.1111			3.2222	0.1111	elim		0.0000	-3.2222			0.0000	0.0000				0.0000	0.0000	0.0000			
		Valid	28	29				29.0000	28.9999	-0.0001			27.9999	-1.0000			27.9999	0.0000			27.5555	-0.4444				24.0006	24.0000	-3.5555			
		Inactive	2	1				1.0000	1.0000	0.0000			2.0000	1.0000			2.0000	0.0000			2.4444	0.4444				5.9993	5.9993	3.5549			
		Residual						0.0000	0.0001	0.0001			0.0001	0.0000			0.0001	0.0000			0.0001	0.0000				0.0001	0.0007	0.0006			
		Total	30	30.0000				30.0000	30.0000	0.0000			30.0000	0.0000			30.0000	0.0000			30.0000	0.0000				30.0000	30.0000	0.0000			

CVRS

Ballot #	1st Choice	2nd Choice	3rd Choice	4th Choice	5th Choice	6th Choice		Ballot #	Round 0	Round 1	Original Vote Value					Round 2	Original Vote Value	+	Transfer Value	Round 3	Original Vote Value	+	Transfer Value	Round 4	Original Vote Value	+	Transfer Value	Round 5	Original Vote Value	+	Transfer Value	Round 6	Original Vote Value	+	Transfer Value	+	Transfer Value
1	D	undervote	C	E	F	A		1	D	D	1					D	1.0000			D		E	1	D		E	1.0000	D		A	1	D			A	0.7742		0.2258

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Board of Elections and is considered v.1.0.0 because the document is new for this system. 4/27/2021

#	1	2	3	4	5	6	Ballot	Sel	Status	Cnt	Rnd2	val		val	Rnd3	val		val	Rnd4	val		val	Rnd5	val		val	Final	val		val	inact	val
2	C	D	F	A	B	E	2	C	C	1	C	0.8889	D	0.1111	C	0.8889	F	0.1111	C	0.8889	A	0.1111	C	0.8889	A	0.1111	C	0.8889	A	0.0861	inactive	0.0250
3	C	E	A	D	B	F	3	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	A	0.1111	C	0.8889	A	0.0861	inactive	0.0250
4	F	C	B	D	undervote	undervote	4	F	F	1	F	1.0000			F	1.0000			F		B	1.0000	F		B	1	F		B	0.8675	inactive	0.1325
5	B	undervote	undervote	undervote	undervote	A	5	B	B	1	B	1.0000			B	1.0000			B	1.0000			B	1.0000			B	0.8675	inactive	0.1325	
6	F	A	B	D	E	C	6	F	F	1	F	1.0000			F	1.0000			F		A	1.0000	F		A	1	F		A	0.7742	inactive	0.2258
7	B	E	C	D	undervote	undervote	7	B	B	1	B	1.0000			B	1.0000			B	1.0000			B	1.0000			B	0.8675	inactive	0.1325	
8	A	B	C	undervote	E	F	8	A	A	1	A	1.0000			A	1.0000			A	1.0000			A	1.0000			A	0.7742	inactive	0.2258	
9	undervote	C	F	D	B	A	9	undervote	C	1	C	0.8889	F	0.1111	C	0.8889	F	0.1111	C	0.8889	B	0.1111	C	0.8889	B	0.1111	C	0.8889	B	0.0964	inactive	0.0147
10	undervote	undervote	undervote	undervote	undervote	E	10	undervote	inactive	1	inactive	1.0000			inactive	1.0000			inactive	1.0000			inactive	1.0000			inactive	1.0000				
11	C	E	D	undervote	undervote	undervote	11	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	inactive	0.1111	C	0.8889	inactive	0.1111		
12	F	C	F	D	B	A	12	F	F	1	F	1.0000			F	1.0000			F		B	1.0000	F		B	1	F		B	0.8675	inactive	0.1325
13	C	E	undervote	undervote	F	A	13	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	inactive	0.1111	C	0.8889	inactive	0.1111		
14	C	E	B	undervote	F	D	14	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	B	0.1111	C	0.8889	B	0.0964	inactive	0.0147
15	A	B	D	C	F	E	15	A	A	1	A	1.0000			A	1.0000			A	1.0000			A	1.0000			A	0.7742	inactive	0.2258	
16	D	undervote	undervote	E	F	A	16	D	D	1	D	1.0000			inactive	1.0000			inactive	1.0000			inactive	1.0000			inactive	1.0000				
17	E	D	F	A	B	C	17	E	E	1	E	1.0000			E	1.0000			E	1.0000			E		A	1	E		A	0.7742	inactive	0.2258
18	C	E	A	D	B	F	18	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	A	0.1111	C	0.8889	A	0.0861	inactive	0.0250
19	A	C	B	D	undervote	undervote	19	A	A	1	A	1.0000			A	1.0000			A	1.0000			A	1.0000			A	0.7742	inactive	0.2258	
20	B	undervote	undervote	undervote	undervote	A	20	B	B	1	B	1.0000			B	1.0000			B	1.0000			B	1.0000			B	0.8675	inactive	0.1325	
21	E	A	B	D	F	C	21	E	E	1	E	1.0000			E	1.0000			E	1.0000			E		A	1	E		A	0.7742	inactive	0.2258
22	B	E	C	D	undervote	undervote	22	B	B	1	B	1.0000			B	1.0000			B	1.0000			B	1.0000			B	0.8675	inactive	0.1325	
23	A	B	C	undervote	E	F	23	A	A	1	A	1.0000			A	1.0000			A	1.0000			A	1.0000			A	0.7742	inactive	0.2258	
24	E	C	F	D	B	A	24	E	E	1	E	1.0000			E	1.0000			E	1.0000			E		B	1	E		B	0.8675	inactive	0.1325
25	A	undervote	undervote	undervote	undervote	E	25	A	A	1	A	1.0000			A	1.0000			A	1.0000			A	1.0000			A	0.7742	inactive	0.2258	
26	C	E	D	undervote	undervote	undervote	26	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	inactive	0.1111	C	0.8889	inactive	0.1111		
27	E	C	F	D	B	A	27	E	E	1	E	1.0000			E	1.0000			E	1.0000			E		B	1	E		B	0.8675	inactive	0.1325
28	C	E	undervote	undervote	F	A	28	C	C	1	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	E	0.1111	C	0.8889	inactive	0.1111	C	0.8889	inactive	0.1111		
29	B	C	E	undervote	F	D	29	B	B	1	B	1.0000			B	1.0000			B	1.0000			B	1.0000			B	0.8675	inactive	0.1325	
30	A	B	D	C	F	E	30	A	A	1	A	1.0000			A	1.0000			A	1.0000			A	1.0000			A	0.7742	inactive	0.2258	

Tabulation of mult-seat test data using fractional threshold

Multi-winner with fractional surplus	This test set uses a version of the Weighted Inclusive Gregory Method (WIGM) in which the threshold is calculated on a fractional basis to four (4) decimal places. ((Total ballots in round 1/Number of seats+1)+.0001) Surplus fractions are rounded down at the fourth decimal and truncated.
Description Round 0	Shows what a tabulator tape would report for totals of the 30 ballots. Only 1st choices would be reported thus 2nd thru 6th choices grayed out. Overvotes and undervotes are shown to account for votes not assigned to candidates. (2 undervotes)
Description Round 1	Employing the rule allowing a maximum of one skipped vote, ballot 9 is counted for C and ballot 10 is "exhausted" and counted as permanently "inactive." A new count is determined. This round does not produce a winner and candidate D, having the fewest votes, will be eliminated.
Description Round 2	Candidate D 's ballots are counted for the next continuing candidate on each. On ballot 1, the 2nd choice (candidate C) is selected instead. On ballot 16, D is followed by 2 skipped choices and is thus exhausted and counted as "inactive." A new count is then determined. Candidate C, having 8 votes is elected with a surplus of .7499.
Description Round 3	C's surplus is divided by the number of votes for C to calculate the "surplus fraction" (SF) to be distributed to each next continuing candidate on C's ballots. This yields a SF value of .0937 which is redistributed to these candidates and a new count is determined. No new candidates are elected so candidate F, having the fewest votes, will be eliminated.
Description Round 4	A new candidate count is determined after Candidate F is eliminated on ballots 4, 6, 9 and 12. Ballots 4 and 12 are counted for B with a transfer value of 1 each. Ballot 9 is counted for B with a transfer value of .0937. Ballot 6 is counted for A with a transfer value of 1. The round does not produce a winner and candidate E, with the fewest votes, will be eliminated.
Description Round 5	Candidate E's ballots are counted, at their "transfer value," for the next continuing candidate on each. Ballots 2, 17 and 21 are counted for A with a transfer value of 1 each. Ballots 1, 3 and 18 are counted for A with a transfer value of .0937 each. Ballots 14, 24 and 27 are counted for B with a transfer value of 1 each. Ballots 11,13, 26 and 28 are exhausted and counted as inactive with a transfer value of .0937 each. Candidates A and B are elected with vote totals exceeding the threshold.
Description Round 6	This round is optional. Jurisdictions wishing to show all winning candidates as receiving the threshold, so that none appear to have more votes than others, may do so by exercising this option. The surpluses for A & B are calculated by subtracting the threshold from their respective vote totals and the surplus fraction is calculated by dividing the surpluses by the vote totals for each candidate. The surplus fraction is then multiplied by the transfer value of the vote on each respective ballot and transferred to the next continuing candidate. In this case, there are no remaining continuing candidates thus, all surplus transfers are exhausted ballots and are counted as inactive.

Parameters: electing 3 seats
max skipped ranking =1
Elected if Vote Total >= threshold

T=(V/(S+1)+n, 4)		7.2501
0<n<1	=	0.0001
Adjusted Vote Totals	V=T	

How each ballot counts in each round with totals by round

Candidate	Round 0 1st Choice only	Round 1--Elim D Vote Total	Round 2--Elect C Vote Total	Round 3--Redist Surplus from C, Elim F Surplus	Surplus Fraction	Round 3	Change	Vote Total	Round 4--Elim E Vote Total	Adjusted Vote Total	Change	Round 5--Elect A & B Vote Total	Adjusted Vote Total	Change	Round 6-Redistribute A & B Surpluses Surplus	Surplus Fraction	Transfer Value	Vote Total	Adjusted Vote Total	Change
A	6	6	6			6	0.0000	6.0000	6.0000	7.0000	1.0000	7.0000	10.2811	3.2811 Elec	3.0310	0.294813	0.2948	0.027623	0.0276	10.2811	7.2501	-3.0310
B	5	5	5			5	0.0000	5.0000	5.0000	7.0937	2.0937	7.0937	10.0937	3.0000 Elec	2.8436	0.281720	0.2817	0.020393	0.0203	10.0937	7.2501	-2.8436
C	6	7	8 Elect	0.7499	0.093738	0.0937	8	-0.7496	7.2504	7.2504	7.2501	-0.0003	7.2501	7.2501	0.0000					7.2501	7.2501	0.0000
D	2	2	elim	0		0		0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000					0.0000	0.0000	0.0000
E	6	6	6			6	0.6559	6.6559	6.6559	6.6559	0.0000 elim	6.6559	0.0000	-6.6559					0.0000	0.0000	0.0000
F	3	3	3			3	0.0937	3.0937 elim	3.0937	0.0000	-3.0937	0.0000	0.0000	0.0000					0.0000	0.0000	0.0000
Valid	28	29	28			28	0.0000	28.0000	28.0000	27.9997	-0.0003	27.9997	27.6249	-0.3748					27.6249	21.7503	-5.8746
Inactive	2	1	1			1	0	1.0000	1.0000	1.0000	0.0000	1.0000	1.3748	0.3748					1.3748	7.2489	5.8741
Residual										0.0003	0.0003	0.0003	0.0003	0.0000					0.0003	0.0008	0.0005

CVRs

Ballot #	1st Choice	2nd Choice	3rd Choice	4th Choice	5th Choice	6th Choice
1	D	undervote	C	E	F	A
2	E	D	F	A	B	C
3	C	E	A	D	B	F
4	F	C	B	D	undervote	undervote
5	B	undervote	undervote	undervote	undervote	A
6	F	A	B	D	E	C
7	B	E	C	D	undervote	undervote
8	A	B	C	undervote	E	F
9	undervote	C	F	D	B	A
10	undervote	undervote	undervote	undervote	undervote	E
11	C	E	D	undervote	undervote	undervote
12	F	C	F	D	B	A
13	C	E	undervote	undervote	F	A
14	E	C	B	undervote	F	D
15	A	B	D	C	F	E
16	D	undervote	undervote	E	F	A
17	E	D	F	A	B	C
18	C	E	A	D	B	F
19	A	C	B	D	undervote	undervote
20	B	undervote	undervote	undervote	undervote	A
21	E	A	B	D	F	C
22	B	E	C	D	undervote	undervote
23	A	B	C	undervote	E	F
24	C	undervote	F	D	B	A
25	A	undervote	undervote	undervote	undervote	E
26	C	E	D	undervote	undervote	undervote
27	E	C	F	D	B	A
28	C	E	undervote	undervote	F	A
29	B	C	E	undervote	F	D

Total: 30 | 30 | 29 | 29 | 0.0000 | 29.0000 | 29.0000 | 29.0000 | 0.0000 | 29.0000 | 29.0000 | 0.0000 | 29.0000 | 29.0000 | 0.0000

Ballot #	Round 0	Round 1	R2 OVV	Round 2	R2 OVV	Round 3	Orig Vote Value	+ Transfer Value	Round 4	Orig Vote Value	+ Transfer Value	Round 5	Orig Vote Value	+ Transfer Value	+	Round 6	Orig Vote Value	+ Transfer Value	+ Transfer Value
1	D	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	A 0.0937	0.066100 0.0661	C	0.9063	A 0.0661	Inactive 0.0276
2	E	E	1	E	1	E	1		E	1.0000	0.0000	A	1.0000	0.0000		A	0.7052		Inactive 0.2948 0.0276
3	C	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	A 0.0937	0.066100 0.0661	C	0.9063	A 0.0661	Inactive
4	F	F	1	F	1	F	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
5	B	B	1	B	1	B	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
6	F	F	1	F	1	F	1		A	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
7	B	B	1	B	1	B	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
8	A	A	1	A	1	A	1		A	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
9	Inactive	C	1	C	1	C	0.9063	F 0.0937	C	0.9063	B 0.0937	C	0.9063	B 0.0937	0.067400 0.0674	C	0.9063	B 0.0674	Inactive 0.0263
10	Inactive	Inactive	1		1		1			1.0000	0.0000		1.0000	0.0000			1.0000		
11	C	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	Inactive 0.0937		C	0.9063	Inactive 0.0937	
12	F	F	1	F	1	F	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
13	C	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	Inactive 0.0937		C	0.9063	Inactive 0.0937	
14	E	E	1	E	1	E	1		E	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
15	A	A	1	A	1	A	1		A	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
16	D	D	1	Inactive	1	Inactive	1		Inactive	1.0000	0.0000	Inactive	1.0000	0.0000		Inactive	1.0000	Inactive	
17	E	E	1	E	1	E	1		E	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
18	C	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	A 0.0937	0.066100 0.0661	C	0.9063	A 0.0661	Inactive 0.0276
19	A	A	1	A	1	A	1		A	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
20	B	B	1	B	1	B	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
21	E	E	1	E	1	E	1		E	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
22	B	B	1	B	1	B	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
23	A	A	1	A	1	A	1		A	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
24	E	E	1	E	1	E	1		E	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
25	A	A	1	A	1	A	1		A	1.0000	0.0000	A	1.0000	0.0000		A	0.7052	A	Inactive 0.2948
26	C	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	Inactive 0.0937		C	0.9063	Inactive 0.0937	
27	E	E	1	E	1	E	1		E	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817
28	C	C	1	C	1	C	0.9063	E 0.0937	C	0.9063	E 0.0937	C	0.9063	Inactive 0.0937		C	0.9063	Inactive 0.0937	
29	B	B	1	B	1	B	1		B	1.0000	0.0000	B	1.0000	0.0000		B	0.7183	B	Inactive 0.2817

| 30 | A | B | D | C | F | E | 30 | A | A | 1 | A | 1 | A | 1 | A | 1.0000 | 0.0000 | A | 1.0000 | 0.0000 | A | 0.7052 | A | Inactive | 0.2948 |

Document Revision History

Date	Version	Description	Author
04/27/2021	1.0.0	Expected Outcomes RCV Test Sets Multi-Winner	Chris Hughes

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Board of Elections and is considered v.1.0.0 because the document is new for this system. 4/27/2021

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