

CHANGE THAT COUNTS

Plea for Pure Proportional Representation

Supplementary Submission

JCSEM - Submission 100

14 April 2014

Anthony van der Craats

- Executive Committee member of the MSYG
- Former Secretary/advisor to the Honorable Evan Walker member for Melbourne Province and Leader of the Government in the Victorian Legislative Council;
- Member of the Australian Labor Party (over 35 years), Former member of the ALP Municipal Executive/Policy Committee.
- National Secretary and a Life member of the Proportional Representation Society of Australia
- Life Member and Former Councillor and member of the Board of Directors National Trust of Australia (Victoria)
- Life Member Alumni and Former Councillor and member of the Board of Directors, Royal Melbourne Institute of Technology

The views and opinion expressed in this submission are my own and do not represent or necessarily reflect the views of member associations.

Droop vs Hare Quota

Team Doyle Disenfranchised: Droop vs Pure Proportional voting

Why do we continue to use the "Droop quota" and in the process disenfranchise a significant percentage of voters?

In the past the adoption of the *Droop quota* allowed us to reach a conclusion in the count without having to distribute preferences to the Nth degree and count every vote. However with the use of computer based technology this justification no longer applies.

$$\text{Droop} = x/(y+1)-1$$
$$\text{Pure Proportional} = x/y$$

By calculating the quota to be " $x/(y+1)-1$ ", as defined by Droop, we are ignoring up to a quota of voters which results in a large percentage of votes being locked up in what is referred to as the "wasted quota".

The effect of the *Droop quota* can be seen clearly by analyzing the 2012 City of Melbourne Council vote. In this case Team Doyle received around 38% of the vote and elected 3 positions yet 8% of voters (It's surplus) was ignored. If the system was a pure proportional count the quota would have been 11.11% instead of 10% and the outcome of the election would have been more representative.

Under the *Droop quota* the Greens managed to elect 2 positions with just 14% of the primary vote and community candidate Kevin Chamberlin on 6% miss out being elected. If the count was pure proportional without the distortion of the Droop quota Kevin Chamberlin would have been elected with the support of Team Doyle's surplus preferences.

Why should Team Doyle's voters be disenfranchised and ignored by being locked up in the discarded quota, why should not the system be fully proportional and each vote of equal value. The current system using the Droop Quota at best can only be described as semi proportional.

The system using the Droop quota becomes even more distorted under the Victorian Local Government count-back rules as the vote that has been left on the table is not taken into account when calculating who or which candidate fills the casual vacancy.

2012 City of Melbourne Primary Preference count (9 Councillors to be elected)

	1st Preferences		QUOTA			
			Group %	Droop 10.00%	x/y 11.11%	
	1					
FOSTER, Richard	3805	5.98%				
D'CRUZ, Emily Lee	63	0.10%				
RUBBO, Mark Dattilo	72	0.11%				
SYME, Wendy	5	0.01%				
EDWARDS, Jason	8	0.01%				
			3953	6.21%	0.62	0.56
MAYNE, Stephen	3808	5.98%				
ANDERSON, Michele	20	0.03%				
			3828	6.01%	0.60	0.54
DOWNING, Luke S.	1895	2.98%				
CRAGG, David	34	0.05%				
			1929	3.03%	0.30	0.27
CHAMBERLIN, Kevin	3607	5.67%				
DUTTA, Roshena	58	0.09%				
PARISI, Nick	8	0.01%				
MACDONALD, Alex	13	0.02%				
			3686	5.79%	0.58	0.52
RAHAMAN, Azeezur	678	1.06%				
FISCHL, Leesa	589	0.93%				
			1267	1.99%	0.20	0.18
ANDERSON, Gerard	522	0.82%				
NORRIS, Maree	6	0.01%				
			528	0.83%	0.08	0.07
OKE, Cathy	9886	15.53%				

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LEPPERT, Rohan	14	0.02%				
RHODES, Lachlan	8	0.01%				
PODESTA, Jennifer	13	0.02%				
THIEL, Philip	21	0.03%				
			9942	15.62%	1.56	1.41
LOUEY, Kevin	23759	37.32%				
WOOD, Arron	29	0.05%				
PINDER-MORTIMER, Beverley	11	0.02%				
JETTER, Carl	12	0.02%				
SHEN, Harvard	16	0.03%				
SWEETMAN, Fiona	10	0.02%				
WEI, Hope	27	0.04%				
			23864	37.48%	3.75	3.37
WATTS, Jackie	6073	9.54%				
KENNEDY, Michael	16	0.03%				
KINSELLA, Marie	9	0.01%				
O'BRIEN, Sue	16	0.03%				
			6114	9.60%	0.96	0.86
ONG, Ken	8263	12.98%				
PAGANO, Carlo	7	0.01%				
HEWITT, Sally	17	0.03%				
SMITH, Leona	17	0.03%				
			8304	13.04%	1.30	1.17
VISA, Moti	123	0.19%	123	0.19%	0.02	0.02
LOH, David	11	0.02%	11	0.02%	0.00	0.00
van der CRAATS, Anthony	115	0.18%	115	0.18%	0.02	0.02
TOTAL	63664	100.00%	63664	100.00%	10.00	9.00

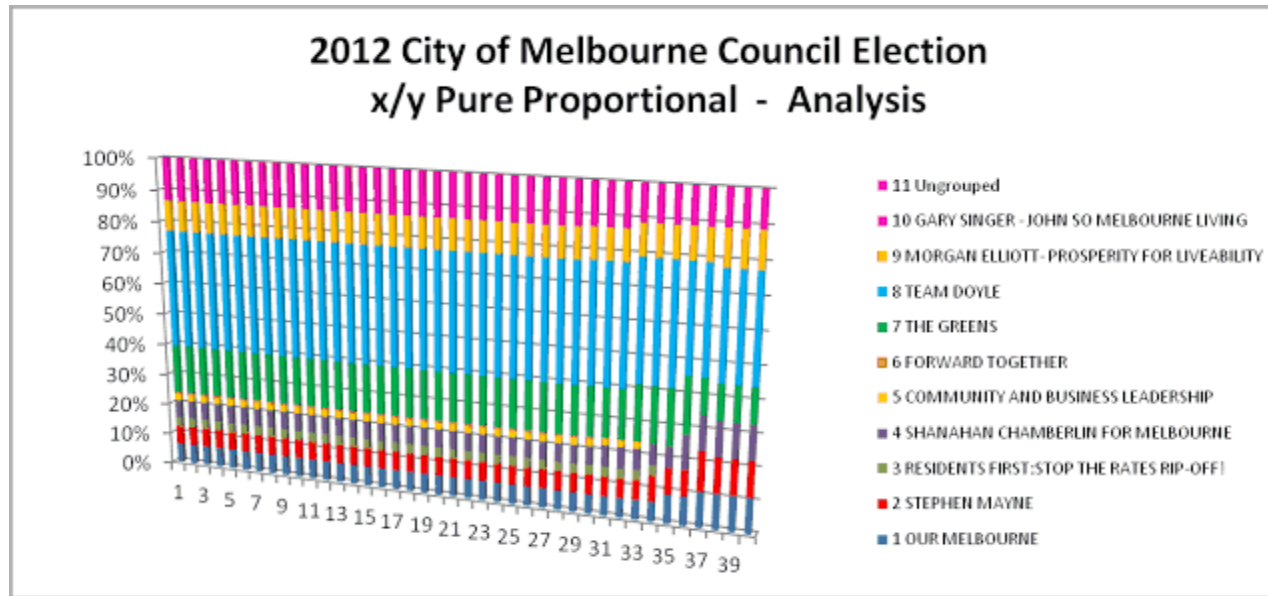
x/y Pure Proportional Representation - minus the flaws

Analysis and recounting of the City of Melbourne "C9" Council elections produces a different result.

If we remove all the distortions that arise through the segmentation, wrong calculation of the surplus transfer value and the method of calculating the quota that was introduced last century back in the times of the typewriter when computer technology was not readily available we would have a true proportionality election. If we divided the number of votes by the number of vacancies (x/y) and allocated each vote a value of one and proportioned out the value of the vote with one single transaction per candidate, no segmentation the results of the election would have been

Order	Candidate	Group
1	LOUEY, Kevin	TEAM DOYLE
2	OKE, Cathy	THE GREENS
3	ONG, Ken	GARY SINGER - JOHN SO MELBOURNE LIVING
4	WOOD, Arron	TEAM DOYLE
5	PINDER-MORTIMER, Beverley	TEAM DOYLE
6	MAYNE, Stephen	STEPHEN MAYNE
7	WATTS, Jackie	MORGAN ELLIOTT- PROSPERITY FOR LIVEABILITY
8	FOSTER, Richard	OUR MELBOURNE
9	CHAMBERLIN, Kevin	SHANAHAN CHAMBERLIN FOR MELBOURNE

Greens candidate, Rohan Leppert would have been excluded.



The system that is currently in place is semi proportional at best and as a result of the method of calculating the surplus transfer value (based on the number of ballot papers as opposed to the value of the vote) the value of some votes increase at the expense of others. It distorts the proportionality of the vote and does not accurately reflect the voters intentions.

The Greens received 15.62% of the primary vote which in pure proportional terms equates to 1.41 quotas.

After the distribution of preferences the Greens second candidate fails to reach quota and is excluded from the count.

If Victoria is to maintain public confidence in the electoral system the results of the election MUST be accurate and MUST reflect the intentions of the electorate. It must be proportional to the vote. Each vote must equal one value.

The flawed and outdated system of counting the vote was designed to facilitate a manual count, back in the days before calculators or computers. With the aid of computer technology and a more accurate method of counting the vote there is no justification to maintain the existing electoral systems.

If we calculated dividends or interest paid on financial transactions the way we calculate the vote our financial system would collapse

over night.

Group Name	ATL	BTL	Total	%	Quota %	Quotas	Remainder
OUR MELBOURNE	3,414	539	3,953	6.21%	0.56	-	0.56
STEPHEN MAYNE	3,148	680	3,828	6.01%	0.54	-	0.54
RESIDENTS FIRST:STOP THE RATES RIP-OFF!	1,703	226	1,929	3.03%	0.27	-	0.27
SHANAHAN CHAMBERLIN FOR MELBOURNE	3,242	444	3,686	5.79%	0.52	-	0.52
COMMUNITY AND BUSINESS LEADERSHIP	561	73	634	1.00%	0.09	-	0.09
COMMUNITY AND BUSINESS LEADERSHIP	560	73	633	0.99%	0.09	-	0.09
FORWARD TOGETHER	475	53	528	0.83%	0.07	-	0.07
THE GREENS	8,989	953	9,942	15.62%	1.41	- 1.00	0.41
TEAM DOYLE	22,915	949	23,864	37.48%	3.37	- 3.00	0.37
MORGAN ELLIOTT- PROSPERITY FOR LIVEABILITY	5,598	516	6,114	9.60%	0.86	-	0.86
GARY SINGER - JOHN SO MELBOURNE LIVING	7,596	708	8,304	13.04%	1.17	- 1.00	0.17
Ungrouped			249	0.39%	0.04	-	0.04
Sum	58201		63664		9	5	4
	Quota				7074		

The Meek method - Analysis

Analysis of the City of Melbourne C9 Council Election based on the Meek Method of counting the vote. Source [OpenSTV](#) program

Winners:

Elected	Surname	Firstname
1	LOUEY	Kevin
2	OKE	Cathy
3	ONG	Ken
4	WOOD	Arron
5	PINDER-MORTIMER	Beverley
6	MAYNE	Stephen
7	WATTS	Jackie
8	FOSTER	Richard
9	CHAMBERLIN	Kevin

Details of count below

Election title: MCC-C9-2012-Meek
 Method: Meek STV with Hare-Dynamic-Fractional threshold
 Number of total ballots: 63676
 Number of invalid or empty ballots: 2
 Number of ballots used in the count: 63674
 40 candidate running for 9 seats.

R|FOSTER, Rich|D'CRUZ, Emil|RUBBO, Mark|SYME, Wendy|EDWARDS, Jas|MAYNE, Steph|ANDERSON, Mi|DOWNING, Luk|CRAGG, David
 |ard|y Lee|Dattilo| |on|en|chele|e S|
 | | | | | | | |

 |CHAMBERLIN, |DUTTA, Roshe|PARISI, Nick|MACDONALD, A|RAHAMAN, Aze|FISCHL, Lees|ANDERSON, Ge|NORRIS, Mare|OKE, Cathy
 |Kevin|na| | |lex|ezur|a|rard|e|
 | | | | | | | |

 |LEPPERT, Roh|RHODES, Lach|PODESTA, Jen|THIEL, Phili|LOUEY, Kevin|WOOD, Arron|PINDER-MORTI|JETTER, Carl|SHEN, Harvar
 |an|lan|nifer|p| | |MER, Beverle| |d
 | | | | | |y| | |

 |SWEETMAN, Fi|WEI, Hope|WATTS, Jacki|KENNEDY, Mic|KINSELLA, Ma|O'BRIEN, Sue|ONG, Ken|PAGANO, Carl|HEWITT, Sall
 |ona| |e|hael|rie| | |o|y
 | | | | | | | |

 |SMITH, Leona|VISA, Moti|LOH, David|van der CRAA|Exhausted|Surplus|Threshold
 | | | |TS, Anthony| | |
 | | | | | | | |

1	3805.000000	63.000000	72.000000	5.000000	8.000000	3808.000000	20.000000	1895.000000	34.000000
	3607.000000	58.000000	8.000000	13.000000	678.000000	589.000000	522.000000	6.000000	9886.000000
	14.000000	8.000000	13.000000	21.000000	23759.000000	29.000000	11.000000	12.000000	16.000000
	10.000000	27.000000	6073.000000	16.000000	9.000000	16.000000	8273.000000	7.000000	17.000000
	17.000000	123.000000	11.000000	115.000000	0.000000	20693.333333	7074.888889		

| Count of first choices. Candidates OKE, Cathy; LOUEY, Kevin; and ONG, Ken have reached the threshold and are
 | elected.

2	3808.671302	64.787587	73.848988	5.702222	8.000000	3829.434154	20.000000	1895.530869	34.000000
	3620.065927	59.874797	8.000000	13.000000	680.141004	589.000000	522.638801	6.284352	7081.767290
	2763.234048	10.274816	22.667968	22.990464	7076.430356	16668.642186	13.808888	20.370532	18.085424
	11.688796	31.909758	6084.361097	16.289642	9.000000	16.289642	7083.962982	1192.447936	19.149089
	18.549906	125.109405	11.289642	116.700099	0.000031	9611.247270	7074.888886		

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
 | 0.715648; LOUEY, Kevin, 0.297778; and ONG, Ken, 0.855179. Candidate WOOD, Arron has reached the threshold and is
 | elected.

3	3808.840219	64.791584	73.854348	5.702286	8.000000	3831.439664	20.000000	1895.533437	34.000000
	3621.905078	59.877127	8.000000	13.000000	680.145132	589.000000	523.216451	6.285047	7074.964317
	2770.761804	10.855932	22.855658	22.995329	7076.467278	7075.551346	9592.336245	22.589468	18.090710

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| 12.265175| 33.726094| 6085.361829| 16.696036| 9.000000| 16.291832| 7076.233061| 1202.105377| 19.165750
| 18.561634| 125.113459| 11.291832| 117.107547| 0.021914| 2521.119972| 7074.886455

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714953; LOUEY, Kevin, 0.297714; ONG, Ken, 0.854084; and WOOD, Arron, 0.424444. Candidate PINDER-MORTIMER,
| Beverley has reached the threshold and is elected.

4| 3808.946736| 64.791955| 73.854562| 5.702352| 8.000000| 3832.022894| 20.000000| 1895.533730| 34.000000
| 3622.119186| 60.028536| 8.000000| 13.000000| 680.145374| 589.000000| 523.216588| 6.285054| 7074.973535
| 2770.860174| 10.856027| 22.855911| 22.995378| 7075.290249| 7075.956191| 7076.048297| 2535.061440| 18.828492
| 14.304190| 33.989969| 6085.469304| 16.847486| 9.000000| 16.292156| 7075.020493| 1203.431660| 19.168172
| 18.563378| 125.113661| 11.292156| 117.107862| 0.026852| 2.859235| 7074.885906

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714946; LOUEY, Kevin, 0.297648; ONG, Ken, 0.853922; WOOD, Arron, 0.424405; and PINDER-MORTIMER, Beverley,
| 0.737557.

5| 3808.946932| 64.792027| 73.854628| 5.702369| 8.000000| 3832.024170| 20.000000| 1895.533767| 34.000000
| 3622.119993| 60.028686| 8.000000| 13.000000| 680.145446| 589.000000| 523.216678| 6.285062| 7074.894757
| 2770.937678| 10.856155| 22.856206| 22.995434| 7074.886620| 7075.060287| 7075.848568| 2536.577573| 18.829027
| 14.305321| 33.990487| 6085.469853| 16.847660| 9.000000| 16.292188| 7074.888397| 1203.562729| 19.168413
| 18.563551| 125.113730| 11.292188| 117.107974| 0.005446| 1.138873| 7074.888284

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714938; LOUEY, Kevin, 0.297631; ONG, Ken, 0.853906; WOOD, Arron, 0.424341; and PINDER-MORTIMER, Beverley,
| 0.737436.

6| 3808.946977| 64.792027| 73.854628| 5.702369| 8.000000| 3832.024430| 20.000000| 1895.533767| 34.000000
| 3622.120108| 60.028746| 8.000000| 13.000000| 680.145446| 589.000000| 523.216688| 6.285062| 7074.894788
| 2770.937704| 10.856165| 22.856209| 22.995434| 7074.886796| 7074.893706| 7075.011357| 2537.572208| 18.829317
| 14.306122| 33.990618| 6085.469912| 16.847727| 9.000000| 16.292188| 7074.888471| 1203.562741| 19.168413
| 18.563551| 125.113730| 11.292188| 117.107981| 0.012426| 0.138286| 7074.887509

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714938; ONG, Ken, 0.853906; WOOD, Arron, 0.424331; and PINDER-MORTIMER, Beverley, 0.737336.

7| 3809.946977| 64.938121| 74.854628| | 8.702369| 3832.024430| 21.000000| 1895.533767| 34.000000
| 3622.120108| 60.028746| 8.000000| 13.000000| 680.145446| 589.000000| 523.216688| 6.285062| 7074.894788
| 2770.937704| 10.856165| 22.856209| 22.995434| 7074.886796| 7074.893706| 7075.011357| 2537.572208| 18.829317
| 14.306122| 33.990618| 6085.469912| 16.847727| 9.000000| 16.292188| 7075.742377| 1203.562741| 20.168413
| 18.563551| 125.113730| 11.292188| 117.107981| 0.012426| 0.992192| 7074.887509

| Count after eliminating SYME, Wendy and transferring votes.

8| 3810.946977| 64.938121| 74.854628| | 8.702369| 3832.024430| 21.000000| 1895.533767| 34.000000
| 3622.120108| 60.028746| 8.000000| 13.000000| 680.145446| 589.000000| 527.216688| | 7075.609726
| 2771.222766| 10.856165| 22.856209| 22.995434| 7074.886796| 7074.893706| 7075.221543| 2537.572208| 18.829317
| 14.306122| 33.990618| 6085.469912| 16.847727| 9.000000| 16.367063| 7075.742377| 1203.562741| 20.168413
| 18.563551| 125.113730| 11.292188| 117.107981| 0.012427| 1.917316| 7074.887509

| Count after eliminating NORRIS, Maree and transferring votes.

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9| 3810.947505| 64.938614| 74.855173| | 8.702369| 3832.029942| 21.000000| 1895.534015| 34.000000
| 3622.122856| 60.028981| 8.000000| 13.000000| 680.145858| 589.000000| 527.216900| | 7074.898520
| 2771.919242| 10.856741| 22.858698| 22.995938| 7074.887670| 7074.894012| 7074.895418| 2537.904668| 18.829913
| 14.306455| 33.991210| 6085.472013| 16.847953| 9.000000| 16.367298| 7074.890132| 1204.406015| 20.169985
| 18.564654| 125.114137| 11.292394| 117.108300| 0.006421| 0.025378| 7074.888176

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714866; ONG, Ken, 0.853803; WOOD, Arron, 0.424331; and PINDER-MORTIMER, Beverley, 0.737302.

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10| 3810.947505| 64.938614| 75.855173| | 8.702369| 3832.029942| 21.000000| 1895.534015| 34.000000
| 3626.122856| 61.028981| | 14.000000| 680.145858| 589.000000| 527.216900| | 7074.898520
| 2772.919242| 10.856741| 22.858698| 22.995938| 7074.887670| 7074.894012| 7074.895418| 2537.904668| 18.829913
| 14.306455| 33.991210| 6085.472013| 16.847953| 9.000000| 16.367298| 7074.890132| 1204.406015| 20.169985
| 18.564654| 125.114137| 11.292394| 117.108300| 0.006421| 0.025378| 7074.888176

| Count after eliminating PARISI, Nick and transferring votes.

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11| 3811.947505| 64.938614| 80.855173| | | 3832.029942| 21.000000| 1895.534015| 34.000000
| 3626.122856| 61.028981| | 15.000000| 681.145858| 589.000000| 527.216900| | 7074.898520
| 2772.919242| 10.856741| 22.858698| 22.995938| 7074.887670| 7074.894012| 7074.895418| 2537.904668| 18.829913
| 14.306455| 34.693579| 6085.472013| 16.847953| 9.000000| 16.367298| 7074.890132| 1204.406015| 20.169985
| 18.564654| 125.114137| 11.292394| 117.108300| 0.006421| 0.025378| 7074.888176

| Count after eliminating EDWARDS, Jason and transferring votes.

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12| 3811.947505| 64.938614| 80.855173| | | 3832.029942| 21.000000| 1895.534015| 34.000000
| 3626.122856| 61.028981| | 15.000000| 681.145858| 589.000000| 527.216900| | 7074.898520
| 2772.919242| 10.856741| 22.858698| 22.995938| 7074.887670| 7074.894012| 7074.895418| 2537.904668| 18.829913
| 14.306455| 34.693579| 6089.472013| 17.847953| | 20.367298| 7074.890132| 1204.406015| 20.169985
| 18.564654| 125.114137| 11.292394| 117.108300| 0.006421| 0.025378| 7074.888176

| Count after eliminating KINSELLA, Marie and transferring votes.

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13| 3811.947505| 64.938614| 80.855173| | | 3832.605611| 21.000000| 1895.534015| 34.000000
| 3626.122856| 62.028981| | 15.000000| 681.145858| 589.000000| 527.216900| | 7077.043118
| 2778.630046| | 23.714100| 23.566206| 7074.887670| 7074.894012| 7074.895418| 2537.904668| 18.829913
| 14.306455| 34.693579| 6089.472013| 17.847953| | 20.367298| 7074.890132| 1204.406015| 20.169985
| 18.564654| 125.114137| 11.292394| 117.108300| 0.006421| 2.169976| 7074.888176

| Count after eliminating RHODES, Lachlan and transferring votes.

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14| 3811.947505| 64.938614| 80.855173| | | 3832.605611| 21.000000| 1895.534015| 34.000000
| 3626.269053| 62.028981| | 17.000000| 682.145858| 589.000000| 528.216900| | 7077.043118
| 2778.630046| | 23.714100| 23.566206| 7074.931183| 7074.894012| 7074.895418| 2537.904668| 18.829913
| 14.306455| 34.942460| 6089.472013| 17.847953| | 20.367298| 7075.743935| 1205.406015| 20.169985
| 18.564654| 128.114137| | 119.108300| 0.006421| 3.066786| 7074.888176

| Count after eliminating LOH, David and transferring votes.

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15| 3811.948851| 64.939556| 80.856608| | | 3832.620041| 21.000000| 1895.534407| 34.000000
| 3626.276078| 62.029364| | 17.000000| 682.146951| 589.000000| 528.217438| | 7074.896218
| 2780.730017| | 23.722254| 23.568159| 7074.908586| 7074.904689| 7074.895741| 2537.906284| 18.830416

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| 14.306679| 34.943195| 6089.477474| 17.848159| | 20.367561| 7074.894051| 1206.249428| 20.171640
| 18.565756| 128.115262| | 119.109055| 0.020082| 0.065995| 7074.886658

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714649; LOUEY, Kevin, 0.297630; ONG, Ken, 0.853700; WOOD, Arron, 0.424331; and PINDE R-MORTIMER, Beverley,
| 0.737302.

16| 3811.948851| 65.939556| 80.856608| | | 3833.620041| 21.000000| 1895.534407| 34.000000
| 3627.276078| 62.029364| | 17.000000| 682.146951| 589.000000| 528.217438| | 7075.083954
| 2780.730017| | 24.082566| 25.568159| 7075.079922| 7074.982982| 7076.150902| 2538.735484| 19.835240
| | 39.363009| 6089.477474| 17.848159| | 20.367561| 7075.747751| 1206.395728| 20.171640
| 18.565756| 128.115262| | 119.109055| 0.020085| 2.612221| 7074.886658

| Count after eliminating SWEETMAN, Fiona and transferring votes.

17| 3811.949145| 65.939895| 80.856829| | | 3833.622561| 21.000000| 1895.534603| 34.000000
| 3627.277563| 62.029611| | 17.000000| 682.147125| 589.000000| 528.217537| | 7074.897402
| 2780.914109| | 24.083343| 25.568330| 7074.890700| 7074.980411| 7075.033458| 2540.038958| 19.836298
| | 39.364662| 6089.478453| 17.848449| | 20.367809| 7074.894506| 1207.239066| 20.173185
| 18.566860| 128.115418| | 119.109231| 0.024483| 0.265632| 7074.886169

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714630; LOUEY, Kevin, 0.297622; ONG, Ken, 0.853597; WOOD, Arron, 0.424326; and PINDE R-MORTIMER, Beverley,
| 0.737171.

18| 3811.949145| 65.939895| 80.856829| | | 3833.622561| 21.000000| 1895.534603| 35.000000
| 3629.277563| 68.029611| | | 682.147125| 590.000000| 528.217537| | 7074.897402
| 2780.914109| | 24.083343| 26.568330| 7075.188322| 7075.278448| 7075.331525| 2540.145230| 19.836298
| | 39.364662| 6090.478453| 19.848449| | 22.367809| 7074.894506| 1207.239066| 20.173185
| 18.566860| 128.115418| | 119.109231| 0.024485| 1.159358| 7074.886169

| Count after eliminating MACDONALD, Alex and transferring votes.

19| 3811.949145| 65.939895| 80.856829| | | 3834.768964| 21.000000| 1896.534603| 35.000000
| 3629.277563| 68.029611| | | 682.147125| 590.000000| 528.217537| | 7074.897402
| 2780.914109| | 24.083343| 26.568330| 7075.188322| 7075.278448| 7075.331525| 2540.145230| 19.836298
| | 40.364662| 6091.478453| 19.848449| | 23.617042| 7077.455297| 1209.824678| 28.198006
| | 128.115418| | 119.109231| 0.024485| 3.720149| 7074.886169

| Count after eliminating SMITH, Leona and transferring votes.

20| 3811.949524| 65.940720| 80.857142| | | 3834.772537| 21.000000| 1896.535132| 35.000000
| 3629.280016| 68.030066| | | 682.147364| 590.000000| 528.217713| | 7074.891705
| 2780.924450| | 24.083401| 26.568339| 7074.905283| 7075.015905| 7075.291892| 2540.715724| 19.838061
| | 40.367318| 6091.479862| 19.849123| | 23.618201| 7074.893451| 1212.355860| 28.204757
| | 128.115588| | 119.109578| 0.041288| 0.576726| 7074.884302

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714629; LOUEY, Kevin, 0.297610; ONG, Ken, 0.853288; WOOD, Arron, 0.424303; and PINDE R-MORTIMER, Beverley,
| 0.737125.

21| 3811.949545| 65.940721| 80.857142| | | 3834.772676| 21.000000| 1896.535133| 35.000000

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| 3629.280081| 68.030093| | | 682.147364| 590.000000| 528.217720| | 7074.891760
| 2780.924465| | 24.083415| 26.568339| 7074.905372| 7074.899260| 7074.976091| 2541.165786| 19.838246
| | 40.367614| 6091.479896| 19.849156| | 23.618216| 7074.885198| 1212.364057| 28.204777
| | 128.115588| | 119.109584| 0.022705| 0.127015| 7074.886367

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714629; LOUEY, Kevin, 0.297610; ONG, Ken, 0.853287; WOOD, Arron, 0.424296; and PINDE R-MORTIMER, Beverley,
| 0.737083.

=====
22| 3811.949548| 65.940721| 80.857142| | | 3834.772694| 21.000000| 1896.535133| 35.000000
| 3629.280087| 68.030098| | | 682.147364| 590.000000| 528.217720| | 7074.891768
| 2780.924466| | 24.083418| 26.568339| 7074.905386| 7074.899276| 7074.889704| 2541.236846| 19.838278
| | 40.367671| 6091.479899| 19.849161| | 23.618219| 7074.885202| 1212.364057| 28.204777
| | 128.115588| | 119.109584| 0.037854| 0.047921| 7074.884683

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714629; LOUEY, Kevin, 0.297610; WOOD, Arron, 0.424296; and PINDE R-MORTIMER, Beverley, 0.737074.

=====
23| 3811.949548| 65.940721| 80.857142| | | 3834.772694| 21.000000| 1896.535133| 35.000000
| 3629.280087| 68.030098| | | 682.147364| 590.000000| 528.217720| | 7074.891768
| 2780.924466| | 24.083418| 26.568339| 7074.905386| 7074.899276| 7074.889704| 2541.236846| 19.838278
| | 40.367671| 6091.479899| 19.849161| | 23.618219| 7074.885202| 1212.364057| 28.204777
| | 128.115588| | 119.109584| 0.037854| 0.047921| 7074.884683

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714629; LOUEY, Kevin, 0.297610; ONG, Ken, 0.853287; WOOD, Arron, 0.424296; and PINDE R-MORTIMER, Beverley,
| 0.737074.

=====
24| 3812.971755| 65.940721| 80.857142| | | 3834.772694| 21.000000| 1896.535133| 35.000000
| 3630.280087| 68.030098| | | 682.147364| 591.000000| 528.217720| | 7074.891768
| 2780.924466| | 24.083418| 27.270729| 7074.995482| 7074.899276| 7075.626778| 2547.818726|
| | 47.072300| 6091.479899| 19.849161| | 24.618219| 7074.885202| 1212.364057| 28.204777
| | 129.115588| | 119.109584| 0.037856| 0.875091| 7074.884683

| Count after eliminating SHEN, Harvard and transferring votes. Candidates tied within precision of computations.

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25| 3813.971755| 65.940721| 80.857142| | | 3834.919407| 21.000000| 1896.535133| 35.000000
| 3633.280087| 69.030098| | | 682.147364| 591.000000| 528.364433| | 7074.891768
| 2780.924466| | 24.083418| 27.270729| 7075.040530| 7074.899276| 7075.626778| 2547.818726|
| | 47.072300| 6099.732930| | | 30.022587| 7075.738489| 1212.364057| 28.204777
| | 129.115588| | 119.109584| 0.037857| 1.773426| 7074.884683

| Count after eliminating KENNEDY, Michael and transferring votes.

=====
26| 3813.971755| 65.940721| 81.857142| | | 3850.919407| | 1897.535133| 35.000000
| 3633.280087| 69.030098| | | 682.147364| 591.000000| 530.364433| | 7074.891768
| 2780.924466| | 24.083418| 27.270729| 7075.040530| 7074.899276| 7075.626778| 2547.818726|
| | 47.072300| 6099.732930| | | 30.022587| 7075.738489| 1212.364057| 28.204777
| | 129.115588| | 120.109584| 0.037857| 1.773426| 7074.884683

| Count after eliminating ANDERSON, Michele and transferring votes.

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27| 3814.257126| 65.940721| 82.142513| | | 3853.204778| | 1897.535133| 35.000000
| 3633.280087| 69.030098| | | 682.147364| 591.164289| 530.364433| | 7080.608800
| 2789.563030| | | 31.980552| 7075.040530| 7075.020358| 7075.958211| 2547.861921|
| | 47.147331| 6100.589043| | | 30.022587| 7075.738489| 1212.364057| 28.775519
| | 129.115588| | 120.109584| 0.037858| 7.942973| 7074.884683

| Count after eliminating PODESTA, Jennifer and transferring votes.

=====
28| 3814.261200| 65.942786| 82.146739| | | 3853.242628| | 1897.535885| 35.000000
| 3633.297714| 69.030969| | | 682.150158| 591.164623| 530.365891| | 7074.893333
| 2795.159972| | | 31.993252| 7074.900099| 7074.949261| 7075.051260| 2549.002594|
| | 47.149791| 6100.604855| | | 30.023158| 7074.902631| 1213.200163| 28.779242
| | 129.118504| | 120.111432| 0.021860| 0.264279| 7074.886461

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.714052; LOUEY, Kevin, 0.297604; ONG, Ken, 0.853185; WOOD, Arron, 0.424288; and PINDER-MORTIMER, Beverley,
| 0.736963.

=====
29| 3814.261200| 66.045908| 82.293554| | | 3855.079768| | 1897.535885| 35.000000
| 3633.465638| 70.030969| | | 682.150158| 591.450571| 530.651839| | 7076.321437
| 2795.159972| | | 32.035233| 7075.197703| 7075.247279| 7075.051260| 2549.002594|
| | 47.149791| 6101.898485| | | 30.023158| 7081.118893| 1226.576908|
| | 130.118504| | 121.111432| 0.021861| 8.504272| 7074.886460

| Count after eliminating HEWITT, Sally and transferring votes.

=====
30| 3814.263085| 66.048853| 82.296076| | | 3855.098562| | 1897.537307| 35.000000
| 3633.476303| 70.032140| | | 682.151380| 591.450804| 530.653444| | 7074.904348
| 2796.558271| | | 32.038650| 7074.894134| 7075.028792| 7075.290314| 2549.315821|
| | 47.159049| 6101.907668| | | 30.026002| 7074.896894| 1232.737902|
| | 130.119600| | 121.112650| 0.001951| 0.571117| 7074.888673

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.713908; LOUEY, Kevin, 0.297591; ONG, Ken, 0.852435; WOOD, Arron, 0.424267; and PINDER-MORTIMER, Beverley,
| 0.736946.

=====
31| 3817.263085| 66.152503| 83.443641| | | 3855.202212| | 1898.537307| 36.000000
| 3635.476303| 71.032140| | | 682.151380| 591.526061| 530.653444| | 7074.904348
| 2796.558271| | | 32.038650| 7075.191725| 7075.028792| 7075.588335| 2550.422200|
| | 48.306614| 6118.055233| | | 7075.495652| 1233.737902|
| | 130.119600| | 121.112650| 0.001952| 1.765487| 7074.888673

| Count after eliminating O'BRIEN, Sue and transferring votes.

=====
32| 3817.549177| 66.152503| 83.443641| | | 3856.060488| | 1898.537307| 37.000000
| 3635.762395| 71.032140| | | 682.151380| 595.514562| 530.653444| | 7074.904348
| 2817.540143| | | 7075.489316| 7075.326801| 7075.588335| 2550.422200|
| | 49.306614| 6118.055233| | | 7076.348087| 1233.927684|
| | 130.119600| | 123.112650| 0.001952| 3.213522| 7074.888673

| Count after eliminating THIEL, Philip and transferring votes.

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33| 3821.652827| 70.152503| 84.443641| | | 3857.060488| | 1911.537307|
| 3639.762395| 74.032140| | | 683.151380| 596.514562| 530.653444| | 7074.904348
| 2817.540143| | | | 7075.533230| 7075.326801| 7075.588335| 2550.422200|
| | 50.306614| 6118.055233| | | | 7077.200522| 1234.927684|
| | 132.119600| | 123.112650| 0.001953| 4.109876| 7074.888672

| Count after eliminating CRAAG, David and transferring votes.

34| 3822.652827| 72.603459| 84.443641| | | 3861.058027| | 1911.537307|
| 3640.494457| 76.946184| | | 685.151380| 597.957257| 530.653444| | 7076.078616
| 2818.704855| | | | 7076.903754| 7078.711655| 7079.311527| 2569.603572|
| | | 6118.055233| | | | 7080.955343| 1235.367507|
| | 133.695333| | 123.112650| 0.001972| 17.517545| 7074.888670

| Count after eliminating WEI, Hope and transferring votes.

35| 3927.117051| | | | | 3926.821374| | 1961.949583|
| 3704.921513| | | | 726.656907| 619.886180| 534.946876| | 7098.576906
| 2829.471556| | | | 7085.234464| 7087.500353| 7088.017660| 2576.381530|
| | | 6145.535136| | | | 7108.992020| 1251.988898|
| | | | | 0.001993| 93.878063| 7074.888668

| Count after eliminating D'CRUZ, Emily Lee; RUBBO, Mark Dattilo; DUTTA, Roshena; VISA, Moti; and van der CRAATS,
| Anthony and transferring votes.

36| 3927.174319| | | | | 3927.076118| | 1961.968716|
| 3705.060607| | | | 726.680702| 619.926426| 534.970048| | 7074.960281
| 2852.692689| | | | 7074.949182| 7079.292730| 7088.500367| 2594.440318|
| | | 6145.644376| | | | 7074.954181| 1285.687965|
| | | | | 0.020975| 18.223946| 7074.886559

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.711526; LOUEY, Kevin, 0.297157; ONG, Ken, 0.848346; WOOD, Arron, 0.423513; and PINDER-MORTIMER, Beverley,
| 0.735581.

37| 3935.174319| | | | | 3931.759193| | 1964.671559|
| 4200.832957| | | | 729.957948| 621.121828| | | 7078.517911
| 2856.558111| | | | 7076.223532| 7080.010228| 7089.218779| 2595.761180|
| | | 6149.644376| | | | 7078.377503| 1286.149595|
| | | | | 0.020981| 27.915163| 7074.886558

| Count after eliminating ANDERSON, Gerard and transferring votes.

38| 3938.080881| | | | | 3935.023612| | 1967.671559|
| 4201.832957| | | | 1325.657918| | | 7081.579826
| 2858.583986| | | | 7076.840513| 7080.442581| 7092.360525| 2598.282019|
| | | 6151.247196| | | | 7079.225849| 1287.149595|
| | | | | 0.020983| 36.016504| 7074.886558

| Count after eliminating FISCHL, Leesa and transferring votes.

39| 3946.877593| | | | | 3938.490441| | 1970.602752|

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4210.103716				1327.873343			7937.112099
3206.233933				7081.541914	7085.730856	7098.495490	2603.796246
		6167.043337				7100.075214	
				0.023066	928.523938	7074.886327	

| Count after eliminating PAGANO, Carlo and transferring votes.

40	3948.147964				3944.094794		1970.898376
	4213.032042			1328.738535			7090.075658
	4061.350223			7075.271324	7078.166031	7086.226359	2631.822312
		6169.424145			7076.720471		
				0.031766	32.033043	7074.885360	

| Count after transferring surplus votes. Keep values of candidates who have exceeded the threshold: OKE, Cathy,
| 0.634232; LOUEY, Kevin, 0.296878; ONG, Ken, 0.845337; WOOD, Arron, 0.422865; and PINDE R-MORTIMER, Beverley,
| 0.733135.

41	3972.231773				5124.970329		1987.619632
	4234.027803						7102.014356
	4070.618741			7076.854617	7079.636280	7088.028072	2636.527421
		6183.035621				7118.403571	
				0.031784	90.510106	7074.885358	

| Count after eliminating RAHAMAN, Azeezur and transferring votes.

42	5776.173831				5176.777337		
	4304.654339						7110.553649
	4076.927244			7080.658986	7083.346009	7091.954027	2638.341667
		6197.962953				7136.618149	
				0.031809	128.704045	7074.885355	

| Count after eliminating DOWNING, Luke S and transferring votes.

43	5786.826143				5185.982055		
	6849.105530						7115.162331
	4082.420685			7085.093048	7092.473037	7121.185887	
		6208.932815				7146.786423	
				0.032046	186.274081	7074.885329	

| Count after eliminating JETTER, Carl and transferring votes.

44	6272.692129				8642.433683		
	6878.960219						7139.383871
				7091.972663	7101.312931	7131.413829	
		6230.508089				7185.290275	
				0.032311	1842.495458	7074.885299	

| Count after eliminating LEPPERT, Rohan and transferring votes. Candidate MAYNE, Stephen has reached the threshold
| and is elected. The election is over since the number of candidates remaining is equal to the number of seats.
| Candidates FOSTER, Richard; CHAMBERLIN, Kevin; and WATTS, Jackie are elected.

Winners are FOSTER, Richard; MAYNE, Stephen; CHAMBERLIN, Kevin; OKE, Cathy; LOUEY, Kevin; WOOD, Arron; PINDE R-MORTIMER, Beverley; WATTS, Jackie; and ONG, Ken.

