

# 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

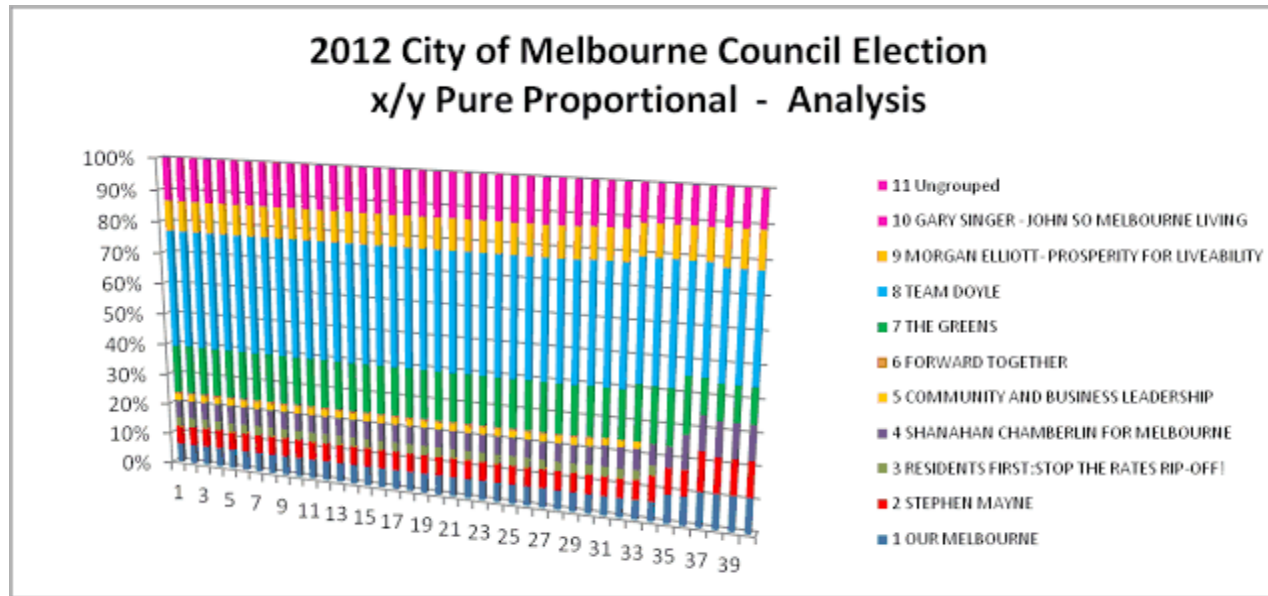
## x/y Pure Proportional Representation - minus the flaws

### **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
<b>Sum</b>	<b>58201</b>		<b>63664</b>		<b>9</b>	<b>5</b>	<b>4</b>
	<b>Quota</b>				<b>7074</b>		

## 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|

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|CHAMBERLIN,|DUTTA, Roshe|PARISI, Nick|MACDONALD, A|RAHAMAN, Aze|FISCHL, Lees|ANDERSON, Ge|NORRIS, Mare|OKE, Cathy

|Kevin|na| |lex|ezur|a|ard|e|

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|LEPPERT, Roh|RHODES, Lach|PODESTA, Jen|THIEL, Phil|LOUEY, Kevin|WOOD, Arron|PINDER-MORTI|JETTER, Carl|SHEN, Harvar

|an|lan|nifer|p| |MER, Beverle| |d|

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|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|

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

| | |TS, Anthony| |

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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

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

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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

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| 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.

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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

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| 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.

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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

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| 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.

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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

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| 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.

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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

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| 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.

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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

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| Count after eliminating SYME, Wendy and transferring votes.

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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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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.

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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

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| Count after eliminating SWEETMAN, Fiona and transferring votes.

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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

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| 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.

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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

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| Count after eliminating MACDONALD, Alex and transferring votes.

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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

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| Count after eliminating SMITH, Leona and transferring votes.

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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

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| 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.

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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

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| 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

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| 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

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| 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.

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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

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| 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

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| Count after eliminating KENNEDY, Michael and transferring votes.

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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

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| 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

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| Count after eliminating PODESTA, Jennifer and transferring votes.

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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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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

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| 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	

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| 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
		6169.424145			7076.720471	
				0.031766	32.033043	7074.885360

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| 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
		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
		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

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| 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.



