

LSQ calculations for NEW ZEALAND 2011: actual result (5% and 1 seat THRESHOLDS)

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	23889	1	0.8	-0.241	0.058	ESP	
Alliance	1209	0	0.0	-0.054	0.003		
ALCP	11738	0	0.0	-0.525	0.275		
Conservative	59237	0	0.0	-2.648	7.009		
Democrats for SC	1714	0	0.0	-0.077	0.006		
Green	247372	14	11.6	0.514	0.265		
Labour	614937	34	28.1	0.616	0.379		
Liberarians	1595	0	0.0	-0.071	0.005		
Mana	24168	1	0.8	-0.254	0.064	ESP	
Maori	31982	3	2.5	1.050	1.102	ESP	
National	1058636	59	48.8	1.446	2.092		
NZ First	147544	8	6.6	0.017	0.000		
United Future	13443	1	0.8	0.226	0.051	ESP	
Others	0	0	0.0	0.000			
Total	2237464	121	100.0		11.310	5.655	2.378

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LSQ calculations for NEW ZEALAND 2011  
5% threshold & 1 seat threshold BUT no overhang

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	23889	1	0.8	-0.234	0.055	ESP	
Alliance	1209	0	0.0	-0.054	0.003		
ALCP	11738	0	0.0	-0.525	0.275		
Conservative	59237	0	0.0	-2.648	7.009		
Democrats for SC	1714	0	0.0	-0.077	0.006		
Green	247372	14	11.7	0.611	0.373		
Labour	614937	34	28.3	0.850	0.722		
Liberarianz	1595	0	0.0	-0.071	0.005		
Mana	24168	1	0.8	-0.247	0.061	ESP	
Maori	31982	3	2.5	1.071	1.146	ESP	
National	1058636	58	48.3	1.019	1.039	Quotient 120	
NZ First	147544	8	6.7	0.072	0.005		
United Future	13443	1	0.8	0.233	0.054	ESP	
Others	0	0	0.0	0.000	10.754	5.377	2.319
Total	2237464	120	100.0	0.000			

1.127  
3.939  
2.319  
7.385  
2.461666667

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L2Q calculations for NEW ZEALAND 2011: v2 (4% THRESHOLD; ESPs included in the SL formula)

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	23889	1	0.8	-0.241	0.058	ESP	
Alliance	1209	0	0.0	-0.054	0.003		
ALCP	11738	0	0.0	-0.525	0.275		
Conservative	59237	0	0.0	-2.648	7.009		
Democrats for SC	1714	0	0.0	-0.077	0.006		
Green	247372	14	11.6	0.514	0.265		
Labour	614937	34	28.1	0.616	0.379		
Liberarianz	1595	0	0.0	-0.071	0.005		
Mana	24168	1	0.8	-0.254	0.064	ESP	
Maori	31982	3	2.5	1.050	1.102	ESP	
National	1058636	59	48.8	1.446	2.092		
NZ First	147544	8	6.6	0.017	0.000		
United Future	13443	1	0.8	0.226	0.051	ESP	
Others	0	0	0.0	0.000	11.310	5.655	2.378
Total	2237464	121	100.0				

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LSQ calculations for NEW ZEALAND 2011: v3 (4% THRESHOLD; NO ONE-SEAT THRESHOLD; AND NO OVERHANG) Squared / 2 Squared root i.e., LSQ

RECALCULATED RESULT USING 2011 DATA - 120 SEATS

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
<b>ACT</b>	23889	1	0.8	-0.234	0.055	ESP	
Alliance	1209	0	0.0	-0.054	0.003		
ALCP	11738	0	0.0	-0.525	0.275		
Conservative	59237	0	0.0	-2.648	7.009		
Democrats for SC	1714	0	0.0	-0.077	0.006		
Green	247372	14	11.7	0.611	0.373		
Labour	614937	34	28.3	0.850	0.722		
Liberarianz	1595	0	0.0	-0.071	0.005		
Mana	24168	1	0.8	-0.247	0.061	ESP	
Maori	31982	3	2.5	1.071	1.146	ESP	
National	1058636	58	48.3	1.019	1.039		
NZ First	147544	8	6.7	0.072	0.005		
United Future	13443	1	0.8	0.233	0.054	ESP	
Others	0	0	0.0	0.000			
<b>Total</b>	2237464	120	100.0	0.000	10.754	5.377	2.319

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LSQ calculations for NEW ZEALAND 2008: actual result (5% and 1 seat THRESHOLDS)

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	85,496.00	5	4.098	0.452	0.204	ESP	
Alliance	1,909.00	0	0.000	-0.081	0.007		
ALCP	9,515.00	0	0.000	-0.406	0.165		
Democrats for SC	1,208.00	0	0.000	-0.052	0.003		
Family	8,176.00	0	0.000	-0.349	0.122		
Green	157,613.00	9	7.377	0.655	0.428	ESP	
Jim Anderton's Prog	21,241.00	1	0.820	-0.086	0.007		
Kiwi	12,755.00	0	0.000	-0.544	0.296		
Labour	796,880.00	43	35.246	1.258	1.581		
Liberarianz	1,176.00	0	0.000	-0.050	0.003		
Maori	55,980.00	5	4.098	1.711	2.927	ESP	
National	1,053,398.00	58	47.541	2.612	6.821		
NZ First	95,356.00	0	0.000	-4.067	16.541		
NZ Pacific	8,640.00	0	0.000	-0.369	0.136		
RAM	465.00	0	0.000	-0.020	0.000		
The Bill and Ben Party	13,016.00	0	0.000	-0.555	0.308		
The Republic Party	313.00	0	0.000	-0.013	0.000		
United Future	20,497.00	1	0.820	-0.055	0.003	ESP	
Workers	932.00	0	0.000	-0.040	0.002		
Others	-	0	0.000	0.000	0.000		
Total	2,344,566.00	122	100.000		29.553	14.777	3.844

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LSQ calculations for NEW ZEALAND 2008  
5% threshold & 1 seat threshold BUT no overhang

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	85,496.00	5	4.167	0.520	0.271	ESP	
Alliance	1,909.00	0	0.000	-0.081	0.007		
ALCP	9,515.00	0	0.000	-0.406	0.165		
Democrats for SC	1,208.00	0	0.000	-0.052	0.003		
Family	8,176.00	0	0.000	-0.349	0.122		
Green	157,613.00	8	6.667	-0.056	0.003	Quotient 119	
Jim Anderton's Prog	21,241.00	1	0.833	-0.073	0.005	ESP	
Kiwi	12,755.00	0	0.000	-0.544	0.296		
Labour	796,880.00	43	35.833	1.845	3.404		
Liberarianz	1,176.00	0	0.000	-0.050	0.003		
Maori	55,980.00	5	4.167	1.779	3.165	ESP	
National	1,053,398.00	57	47.500	2.571	6.608	Quotient 120	
NZ First	95,356.00	0	0.000	-4.067	16.541		
NZ Pacific	8,640.00	0	0.000	-0.369	0.136		
RAM	465.00	0	0.000	-0.020	0.000		
The Bill and Ben Party	13,016.00	0	0.000	-0.555	0.308		
The Republic Party	313.00	0	0.000	-0.013	0.000		
United Future	20,497.00	1	0.833	-0.041	0.002	ESP	
Workers	932.00	0	0.000	-0.040	0.002		
Others	-	0	0.000	0.000	0.000		
Total	2,344,566.00	120	100.000	0.000	31.039	15.520	3.939

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LSQ calculations for NEW ZEALAND 2008: v2 (4% THRESHOLD; ESPs included in the SL formula)

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	85,496	1	0.820	-2.827	7.991	ESP	
Alliance	1,909	0	0.000	-0.081	0.007		
ALCP	9,515	0	0.000	-0.406	0.165		
Democrats for SC	1,208	0	0.000	-0.052	0.003		
Family	8,176	0	0.000	-0.349	0.122		
Green	157,613	9	7.377	0.655	0.428		
Jim Anderton's Prog	21,241	1	0.820	-0.086	0.007	ESP	
Kiwi	12,755	0	0.000	-0.544	0.296		
Labour	796,880	43	35.246	1.258	1.581		
Liberarians	1,176	0	0.000	-0.050	0.003		
Maori	55,980	5	4.098	1.711	2.927	ESP	
National	1,053,398	57	46.721	1.792	3.211		
NZ First	95,356	5	4.098	0.031	0.001		
NZ Pacific	8,640	0	0.000	-0.369	0.136		
RAM	465	0	0.000	-0.020	0.000		
The Bill and Ben Party	13,016	0	0.000	-0.555	0.308		
The Republic Party	313	0	0.000	-0.013	0.000		
United Future	20,497	1	0.820	-0.055	0.003	ESP	
Workers	932	0	0.000	-0.040	0.002		
Others	-	0	0.000	0.000	17.190	8.595	2.932
Total	2,344,566	122	100.000				

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LSQ calculations for NEW ZEALAND 2008: v3 (4% THRESHOLD; NO ONE-SEAT THRESHOLD; AND NO OVERHANG) Squared / 2 Square root  
i.e., LSQ

RECALCULATED RESULT USING 2008 DATA - 120 SEATS

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root i.e., LSQ
ACT	85,496	1	0.833	-2.813	7.914	ESP	
Alliance	1,909	0	0.000	-0.081	0.007		
ALCP	9,515	0	0.000	-0.406	0.165		
Democrats for SC	1,208	0	0.000	-0.052	0.003		
Family	8,176	0	0.000	-0.349	0.122		
Green	157,613	8	6.667	-0.056	0.003		
Jim Anderton's Prog	21,241	1	0.833	-0.073	0.005	ESP	
Kiwi	12,755	0	0.000	-0.544	0.296		
Labour	796,880	43	35.833	1.845	3.404		
Liberarianz	1,176	0	0.000	-0.050	0.003		
Maori	55,980	5	4.167	1.779	3.165	ESP	
National	1,053,398	56	46.667	1.737	3.018		
NZ First	95,356	5	4.167	0.100	0.010		
NZ Pacific	8,640	0	0.000	-0.369	0.136		
RAM	465	0	0.000	-0.020	0.000		
The Bill and Ben Party	13,016	0	0.000	-0.555	0.308		
The Republic Party	313	0	0.000	-0.013	0.000		
United Future	20,497	1	0.833	-0.041	0.002	ESP	
Workers	932	0	0.000	-0.040	0.002		
Others	-	0	0.000	0.000	18.562	9.281	3.046
Total	2,344,566	120	100.000				

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LSQ calculations for NEW ZEALAND 2005: actual result (5% and 1 seat THRESHOLDS)

OVERALL RESULT 2005

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root
ACT	34,469	2	1.653	0.138	0.019	ESP	
Alliance	1,641	0	0.000	-0.072	0.005		
ALCP	5,748	0	0.000	-0.253	0.064		
Christian Heritage	2,821	0	0.000	-0.124	0.015		
Democrats for SC	1,079	0	0.000	-0.047	0.002		
Destiny NZ	14,210	0	0.000	-0.624	0.390		
Direct Democracy	782	0	0.000	-0.034	0.001		
Green	120,521	6	4.959	-0.337	0.114		
Jim Anderton's Prog	26,441	1	0.826	-0.335	0.113	ESP	
Labour	935,319	50	41.322	0.221	0.049		
Liberarianz	946	0	0.000	-0.042	0.002		
Maori	48,263	4	3.306	1.185	1.404	ESP	
National	889,813	48	39.669	0.568	0.322		
NZ Family Rights	1,178	0	0.000	-0.052	0.003		
NZ First	130,115	7	5.785	0.067	0.005		
OneNZ	478	0	0.000	-0.021	0.000		
The Republic Party	344	0	0.000	-0.015	0.000		
United Future	60,860	3	2.479	-0.195	0.038	ESP	
99 MP Party	601	0	0.000	-0.026	0.001		
Others		0	0.000	0.000	0.000		
Total	2,275,629	121	100.0		2.547	1.273	1.128

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LSQ calculations for NEW ZEALAND 2005  
5% threshold & 1 seat threshold BUT no overhang

OVERALL RESULT 2005

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root
<b>ACT</b>	34,469	2	1.667	0.152	0.023	ESP	
Alliance	1,641	0	0.000	-0.072	0.005		
ALCP	5,748	0	0.000	-0.253	0.064		
Christian Heritage	2,821	0	0.000	-0.124	0.015		
Democrats for SC	1,079	0	0.000	-0.047	0.002		
Destiny NZ	14,210	0	0.000	-0.624	0.390		
Direct Democracy	782	0	0.000	-0.034	0.001		
Green	120,521	6	5.000	-0.296	0.088		
Jim Anderton's Prog	26,441	1	0.833	-0.329	0.108	ESP	
Labour	935,319	50	41.667	0.565	0.319		
Liberarianz	946	0	0.000	-0.042	0.002		
Maori	48,263	4	3.333	1.212	1.470	ESP	
National	889,813	47	39.167	0.065	0.004	Quotient 120	
NZ Family Rights	1,178	0	0.000	-0.052	0.003		
NZ First	130,115	7	5.833	0.116	0.013		
OneNZ	478	0	0.000	-0.021	0.000		
The Republic Party	344	0	0.000	-0.015	0.000		
United Future	60,860	3	2.500	-0.174	0.030	ESP	
99 MP Party	601	0	0.000	-0.026	0.001		
Others	-	0	0.000	0.000	2.540		
<b>Total</b>	<b>2,275,629</b>	<b>120</b>	<b>100.0</b>	<b>0.000</b>	<b>1.270</b>		<b>1.127</b>

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LQ calculations for NEW ZEALAND 2005: v2 (4% THRESHOLD; ESPs included in the SL formula)

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root
ACT	34,469	1	0.826	-0.688	0.474	ESP	
Alliance	1,641	0	0.000	-0.072	0.005		
ALCP	5,748	0	0.000	-0.253	0.064		
Christian Heritage	2,821	0	0.000	-0.124	0.015		
Democrats for SC	1,079	0	0.000	-0.047	0.002		
Destiny NZ	14,210	0	0.000	-0.624	0.390		
Direct Democracy	782	0	0.000	-0.034	0.001		
Green	120,521	7	5.785	0.489	0.239		
Jim Anderton's Prog	26,441	1	0.826	-0.335	0.113	ESP	
Labour	935,319	51	42.149	1.047	1.097		
Liberarianz	946	0	0.000	-0.042	0.002		
Maori	48,263	4	3.306	1.185	1.404	ESP	
National	889,813	49	40.496	1.394	1.943		
NZ Family Rights	1,178	0	0.000	-0.052	0.003		
NZ First	130,115	7	5.785	0.067	0.005		
OneNZ	478	0	0.000	-0.021	0.000		
The Republic Party	344	0	0.000	-0.015	0.000		
United Future	60,860	1	0.826	-1.848	3.415	ESP	
99 MP Party	601	0	0.000	-0.026	0.001		
Others	0	0	0.000	0.000	0.001		
Total	2,275,629	121	100.0	0.000	9.172	4.586	2.142

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L.SQ calculations for NEW ZEALAND 2005: v3 (4% THRESHOLD; NO ONE-SEAT THRESHOLD; AND NO OVERHANG Squared / 2 Square root

RECALCULATED RESULT USING 2005 DATA - 120 SEATS

	Party votes	Seats	Seats %	Votes % minus seats %	Squared	Squared / 2	Square root
ACT	34,469	1	0.833	-0.681	0.464	ESP	
Alliance	1,641	0	0.000	-0.072	0.005		
ALCP	5,748	0	0.000	-0.253	0.064		
Christian Heritage	2,821	0	0.000	-0.124	0.015		
Democrats for SC	1,079	0	0.000	-0.047	0.002		
Destiny NZ	14,210	0	0.000	-0.624	0.390		
Direct Democracy	782	0	0.000	-0.034	0.001		
Green	120,521	7	5.833	0.537	0.289		
Jim Anderton's Prog	26,441	1	0.833	-0.329	0.108	ESP	
Labour	935,319	51	42.500	1.398	1.956		
Liberarianz	946	0	0.000	-0.042	0.002		
Maori	48,263	4	3.333	1.212	1.470	ESP	
National	889,813	48	40.000	0.898	0.807		
NZ Family Rights	1,178	0	0.000	-0.052	0.003		
NZ First	130,115	7	5.833	0.116	0.013		
OneNZ	478	0	0.000	-0.021	0.000		
The Republic Party	344	0	0.000	-0.015	0.000		
United Future	60,860	1	0.833	-1.841	3.390	ESP	
99 MP Party	601	0	0.000	-0.026	0.001		2.119
Others	0	0	0.000	0.000	8.980	4.490	
Total	2,275,629	120	100.0				

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