

Calculation of results for an Oregon local petition

First Submission

	PDX 14	Percent of N
Petition ID ?		
Petition size: N = ?	29,517	100.00%
Required number: (R) ?	27,255	92.34%

First sample

Data entry			
Sample size:	n1 = ?	2,952	10.00%
Number invalid	u1 = ? (w/o dups)	918	
Number valid	y1 = n1 - u1	2,034	
Number of duplicates	d1 = ?	13	
Calculations			
Proportion invalid:	u1p = u1/n1	0.310976	
Proportion valid:	y1p = y1/n1	0.689024	
Estimate for # invalid:	Uest = N*u1p	9179.067073	31.10%
Estimate for number of duplicates	Dest = (N/n1)*(N/n1)*d1	1,299.74	4.40%
Estimate for number valid	Mest = N - Uest - Dest	19,038.2	64.50%
MOE for Mest: MOE=1.645*sqrt{[N(N-n1)/n1]*[up1*(1-up1)+Dest(1/n1+(1-4*u1p)/N)}		680.27	2.30%
Lower conf. Limit: ML = Mest - MOE		18,357.9	62.19%

Conclusion

Accept petition: Yes / No (ML >= R / ML < R) No

Combined first and second sample sizes

Data entry			
Size of first sample:	n1	2,952	10.00%
Size of second sample:	n2 = ?	2,953	10.00%
Size of combined first and second samples:	n = n1 + n2	5,905	20.01%
Number invalid in first sample:	u1	918	
Number invalid in second sample:	u2 = ?	926	
Number invalid in combined sample:	u = u1 + u2	1844	
Number valid in first sample	y1 = n1 - u1	2,034	
Number valid in second sample	y2 = n2 - u2	2,027	
Number valid in combined sample	y = n - u	4,061	
Number of duplicates in combined sample	d = ?	55	
Calculations for combined sample			
Proportion invalid	up = u/n	0.312278	
Proportion valid	yp = y/n	0.687722	
Estimate for number invalid	Uest = N*up	9,217.50	31.23%
Estimate for number of duplicates	Dest = (N/n)*(N/n)*d	1,374.25	4.66%
Estimate for number valid	Mest = N - Uest - Dest	18,925.2	64.12%

Conclusion for combined sample

Accept petition: Yes / No (ML >= R / ML < R) No