

Analysis of Table 4 from CRS report:
 "The House of Representatives Apportionment Formula:
 An Analysis of Proposals for Change and Their Impact on States"

Thirty-Thousand.org analysis* of Table 4 from CRS report:

"The House of Representatives Apportionment Formula: An Analysis of Proposals for Change and Their Impact on States"

(Based on 1990 census data)

Table 4 as published in CRS report (page CRS-20)

Method	Criteria for evaluation: values to be minimized			
	Variance		Sum of absolute values of differences	
	Average district size	Individual shares	Average district size	Individual shares
Adams	1,911,209,406	0.0354959	13,054,869	44.2368122
Dean	681,742,417	0.0077953	7,170,067	22.3962477
Hill (current)	661,606,402	0.0058026	7,016,021	21.3839214
Webster	665,606,402	0.0057587	6,997,789	21.2530467
Hamilton-Vinton	676,175,430	0.0057013	6,977,798	21.0633312
Jefferson	2,070,360,118	0.0112808	11,149,720	31.9326856

Table 4 — Calculations per Thirty-Thousand.org

Method	Note A	Note B	Note C	Note D
	Criteria for evaluation: values to be minimized			
	Variance		Sum of absolute values of differences	
	Average district size	Individual shares	Average district size	Individual shares
Adams	1,906,815,821	0.0000000000000354143	13,054,869	0.0000442368122
Dean	680,175,194	0.000000000000077774	7,170,067	0.0000223962477
Hill (current)	659,710,369	0.000000000000057893	7,016,021	0.0000213839214
Webster	664,076,272	0.000000000000057454	6,997,789	0.0000212530467
Hamilton-Vinton	674,621,004	0.000000000000056882	6,977,798	0.0000210633312
Jefferson	2,065,600,670	0.000000000000112549	11,149,720	0.0000319326856

Note A	When using a divisor of 434, the TTO analysis produces the same results as CRS. When the divisor is 435 the results are as indicated in the second table above.
Note B	When using a divisor of 434, the TTO analysis produces the same results as CRS, except the values displayed in the CRS report are larger by a factor of 1,000,000,000,000. When the divisor is 435 the results are as indicated in the second table above.
Note C	TTO's calculations produce the same results as CRS
Note D	TTO's calculations produce the same factors as CRS, except the values displayed in the CRS report are larger by a factor of 1,000,000,000,000.

* Supporting spreadsheet is available upon request.