

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1	Alabama	Airports	28,400	445	448	(0.57%)	28,400	1.8711E8	4,428	5	541.40%	308.93%	115	776	1
2	Alabama	Correction	32,380	3,196	3,196	0.01%	32,380	14279199	2,627	30	1132.57%	143.84%	2,844	3,549	1
3	Alabama	Elementary and Secondary - Instruction	74815751	63,999	64,006	(0.01%)	74815751	1.656E13	1363530	25	5386.92%	298.40%	47,046	80,953	1
4	Alabama	Financial Administration	54,365	4,118	4,120	(0.04%)	54,365	2.9554E9	18,694	49	190.82%	290.81%	3,661	4,575	1
5	Alabama	Firefighters	118,572	5,527	5,521	0.11%	118,572	2.036E9	55,103	28	115.18%	81.89%	4,852	6,202	1
6	Alabama	Judical & Legal	7,586	1,368	1,369	(0.10%)	7,586	1.3113E8	4,880	37	55.45%	234.65%	1,197	1,538	1
7	Alabama	Other Government Administration	117,933	2,355	2,350	0.20%	117,933	6.162E10	86,722	50	35.99%	286.25%	1,682	3,028	1
8	Alabama	Health	98,307	5,159	5,151	0.15%	98,307	1.1765E9	8,850	15	1010.79%	387.57%	4,544	5,773	1
9	Alabama	Hospitals	74,060	20,809	20,817	(0.04%)	74,060	5.8169E9	35,583	3	108.14%	214.34%	20,276	21,342	1
10	Alabama	Streets & Highways	227,313	5,965	5,973	(0.14%)	227,313	7.1334E9	62,600	53	263.12%	134.92%	5,030	6,899	1
11	Alabama	Housing & Community Development (Local)	202,138	1,879	1,888	(0.48%)	202,138	1.079E10	43,492	13	364.77%	238.86%	998	2,760	1
12	Alabama	Local Libraries	6,249	885	885	0.02%	6,249	6653265	2,746	24	127.55%	93.93%	730	1,040	1
13	Alabama	Natural Resources	17,089	426	422	0.84%	17,089	1.376E10	14,755	2	15.81%	794.88%	169	682	1
14	Alabama	Parks & Recreation	38,688	2,832	2,834	(0.06%)	38,688	7.8873E8	16,706	35	131.57%	168.10%	2,447	3,218	1
15	Alabama	Police Protection - Officers	467,809	10,076	10,075	0.01%	467,809	1.21E10	81,871	57	471.39%	134.37%	8,736	11,417	1
16	Alabama	Welfare	27,695	869	865	0.41%	27,695	1.2952E9	12,540	12	120.86%	287.00%	542	1,195	1
17	Alabama	Sewerage	15,205	1,390	1,387	0.20%	15,205	2.0935E8	8,493	23	79.04%	170.37%	1,148	1,631	1
18	Alabama	Solid Waste Management	81,072	3,202	3,197	0.16%	81,072	2.8226E9	54,491	39	48.78%	97.50%	2,644	3,760	1
19	Alabama	Other & Unallocable	56,271	4,335	4,339	(0.09%)	56,271	8.5734E8	25,881	42	117.42%	113.13%	3,870	4,800	1
20	Alabama	Water Supply	263,691	3,748	3,749	(0.03%)	263,691	1.722E10	89,299	30	195.29%	146.95%	2,741	4,754	1
21	Alabama	Electric Power	24,471	1,061	1,062	(0.13%)	24,471	83721787	8,725	9	180.45%	104.87%	754	1,367	1
22	Alabama	Gas Supply	39,765	838	845	(0.80%)	39,765	5.7112E8	14,363	11	176.86%	166.39%	447	1,229	1
23	Alabama	Transit	6,659	424	418	1.50%	6,659	3.0752E8	9,369	2	( 28.92%)	187.18%	264	584	1

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Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
24	Alabama	Elementary and Secondary - Other Total	20830187	30,361	30,366	(0.02%)	20830187	5.037E12	1488137	25	1299.75%	150.82%	21,415	39,306	1
25	Alabama	Fire - Other	212	271	271	0.04%	212	26,977	90	5	134.07%	181.53%	243	300	1
26	Alabama	Police-Other	38,082	2,168	2,169	(0.05%)	38,082	9.2315E8	19,524	38	95.05%	155.62%	1,785	2,550	1
27	Alaska	Correction	351	78	72	9.53%	351	55,023	59	1	492.84%	396.51%	42	115	1
28	Alaska	Elementary and Secondary - Instruction	38,908	10,053	10,053	0.00%	38,908	1.4802E8	5,250	6	641.13%	231.75%	9,666	10,439	1
29	Alaska	Financial Administration	4,021	888	888	0.02%	4,021	8371546	2,898	11	38.74%	99.83%	764	1,012	1
30	Alaska	Firefighters	549	650	644	0.90%	549	163,275	185	2	196.77%	218.33%	604	696	1
31	Alaska	Other Government Administration	5,497	881	882	(0.01%)	5,497	29552338	2,788	10	97.15%	194.95%	736	1,027	1
32	Alaska	Health	526	234	218	7.36%	526	242,204	83	1	532.64%	591.88%	189	279	1
33	Alaska	Streets & Highways	1,916	742	743	(0.02%)	1,916	3275480	1,355	7	41.48%	133.60%	657	828	1
34	Alaska	Housing & Community Development (Local)	37,158	634	635	(0.02%)	37,158	2.2305E8	6,465	6	474.72%	231.00%	257	1,012	1
35	Alaska	Local Libraries	60	189	189	0.07%	60	1,752	41	2	46.94%	101.75%	174	204	1
36	Alaska	Parks & Recreation	111	372	371	0.18%	111	3,402	58	2	93.53%	101.32%	351	393	1
37	Alaska	Police Protection - Officers	2,417	862	863	(0.07%)	2,417	2893409	1,488	9	62.47%	114.34%	766	959	1
38	Alaska	Sewerage	189	279	279	0.05%	189	65,893	167	4	13.28%	154.12%	252	306	1
39	Alaska	Solid Waste Management	149	276	276	(0.01%)	149	15,608	86	4	72.82%	145.35%	252	300	1
40	Alaska	Water Transport & Terminals	347	146	143	2.04%	347	124,489	229	2	51.61%	154.25%	109	182	1
41	Alaska	Other & Unallocable	4,198	494	494	0.05%	4,198	35908673	2,409	5	74.25%	248.76%	367	621	1
42	Alaska	Water Supply	1,316	288	288	(0.00%)	1,316	7730539	888	7	48.16%	313.06%	217	359	1
43	Alaska	Electric Power	1,464	451	449	0.46%	1,464	3632750	1,119	3	30.83%	170.36%	376	526	1
44	Alaska	Elementary and Secondary - Other Total	5,198	5,768	5,768	0.00%	5,198	7032628	1,795	5	189.59%	147.74%	5,626	5,909	1

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Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
45	Alaska	Fire - Other	4	96	95	1.01%	4
46	Alaska	Police-Other	689	365	365	0.07%	689
47	Arizona	Airports	28,051	1,147	1,149	(0.16%)	28,051
48	Arizona	Correction	107,600	5,260	5,260	(0.00%)	107,600
49	Arizona	Elementary and Secondary - Instruction	1.9291E8	67,290	67,285	0.01%	1.9291E8
50	Arizona	Higher Education - Other	1615790	6,553	6,514	0.60%	1615790
51	Arizona	Higher Education - Instructional	261,598	2,060	2,044	0.77%	261,598
52	Arizona	Financial Administration	69,094	4,712	4,712	(0.00%)	69,094
53	Arizona	Firefighters	616,515	6,889	6,892	(0.05%)	616,515
54	Arizona	Judical & Legal	115,308	8,099	8,098	0.01%	115,308
55	Arizona	Other Government Administration	123,093	3,697	3,700	(0.07%)	123,093
56	Arizona	Health	15,256	2,632	2,632	(0.01%)	15,256

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
45	1	0	1	3872.14%	1142.80%	92	100	1
46	905,798	424	3	62.68%	224.70%	314	417	1
47	1.5142E9	18,340	4	52.95%	212.17%	819	1,475	1
48	1.0127E9	8,298	3	1196.74%	383.52%	4,617	5,903	1
49	2.113E18	1.0068E8	32	91.61%	1443.83%	40,067	94,513	1
50	6.584E11	631,900	2	155.70%	128.41%	4,062	9,045	1
51	1.06E10	77,180	2	238.95%	133.39%	1,057	3,062	1
52	1.0383E9	9,460	15	630.35%	340.61%	4,197	5,227	1
53	9.479E10	107,050	18	475.92%	287.61%	5,350	8,428	1
54	9.2794E8	14,494	14	695.55%	210.17%	7,433	8,764	1
55	8.553E9	40,349	14	205.07%	229.21%	3,010	4,385	1
56	3.3775E8	4,605	4	231.28%	399.07%	2,390	2,874	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
57	Arizona	Streets & Highways	112,140	4,041	4,041	(0.01%)	112,140
58	Arizona	Housing & Community Development (Local)	9,207	1,342	1,341	0.04%	9,207
59	Arizona	Local Libraries	16,053	1,306	1,306	(0.03%)	16,053
60	Arizona	Natural Resources	121,369	634	635	(0.23%)	121,369
61	Arizona	Parks & Recreation	64,376	3,023	3,023	(0.01%)	64,376
62	Arizona	Police Protection - Officers	462,070	13,093	13,090	0.02%	462,070
63	Arizona	Welfare	2,706	975	975	(0.01%)	2,706
64	Arizona	Sewerage	47,490	1,644	1,642	0.11%	47,490
65	Arizona	Solid Waste Management	20,265	2,185	2,185	(0.01%)	20,265
66	Arizona	Other & Unallocable	80,488	3,245	3,247	(0.05%)	80,488
67	Arizona	Water Supply	56,972	3,268	3,268	0.01%	56,972
68	Arizona	Electric Power	42,465	4,945	4,885	1.22%	42,465

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
57	8.4933E8	15,654	15	616.35%	186.17%	3,384	4,697	1
58	39333742	6,617	6	39.13%	94.78%	1,153	1,530	1
59	1.2129E8	6,505	9	146.76%	169.29%	1,057	1,554	1
60	6.9937E9	33,067	3	267.04%	252.91%	0	1,316	1
61	9.9275E8	12,512	13	414.50%	251.81%	2,525	3,520	1
62	1.206E10	53,741	15	759.81%	204.34%	11,760	14,425	1
63	59098830	2,319	2	16.68%	331.54%	873	1,077	1
64	3.586E9	25,059	9	89.51%	238.97%	1,217	2,071	1
65	3.2212E8	8,526	8	137.69%	210.51%	1,906	2,464	1
66	8.5377E8	26,370	13	205.23%	110.81%	2,689	3,801	1
67	1.859E10	44,468	9	28.12%	306.61%	2,800	3,736	1
68	5.437E9	23,041	1	84.31%	320.03%	4,541	5,349	1

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Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
69	Arizona	Gas Supply	4,479	163	114	42.9%	4,479
70	Arizona	Transit	72,997	484	483	0.25%	72,997
71	Arizona	Elementary and Secondary - Other Total	72578968	32,072	32,034	0.12%	72578968
72	Arizona	Fire - Other	18,918	1,053	1,051	0.21%	18,918
73	Arizona	Police-Other	60,307	4,478	4,478	(0.01%)	60,307
74	Arkansas	Airports	472	290	290	0.00%	472
75	Arkansas	Correction	32,762	2,300	2,299	0.02%	32,762
76	Arkansas	Elementary and Secondary - Instruction	17437747	45,497	45,508	(0.02%)	17437747
77	Arkansas	Higher Education - Other	142,304	377	64	489%	142,304
78	Arkansas	Higher Education - Instructional	55,587	236	40	489%	55,587
79	Arkansas	Financial Administration	23,129	2,299	2,299	0.01%	23,129
80	Arkansas	Firefighters	18,420	2,523	2,523	(0.00%)	18,420

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
69	6972190	841	1	432.37%	313.88%	32	294	1
70	1.2124E9	14,798	3	393.27%	235.29%	0	1,014	1
71	3.704E17	49598557	32	46.33%	1227.07%	15,374	48,770	1
72	1.0019E8	6,016	13	214.44%	166.37%	784	1,323	1
73	3.7198E8	14,777	13	308.12%	130.52%	3,996	4,959	1
74	55,993	151	5	213.41%	157.06%	247	333	1
75	17908936	4,229	23	674.73%	100.07%	1,945	2,654	1
76	2.763E12	1446182	53	1105.78%	114.93%	37,312	53,682	1
77	59089282	108	1	131799%	7124.93%	0	1,116	1
78	9016309	42	1	131799%	7124.93%	0	698	1
79	64004493	4,556	48	407.63%	175.59%	2,001	2,597	1
80	12670506	2,756	17	568.26%	129.14%	2,257	2,789	1

Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
81	Arkansas	Judical & Legal	10,254	1,446	1,446	0.03%	10,254
82	Arkansas	Other Government Administration	49,018	1,833	1,833	0.02%	49,018
83	Arkansas	Health	1,721	258	258	0.04%	1,721
84	Arkansas	Hospitals	16,324	1,297	1,287	0.76%	16,324
85	Arkansas	Streets & Highways	73,167	3,425	3,424	0.03%	73,167
86	Arkansas	Housing & Community Development (Local)	20,509	970	969	0.08%	20,509
87	Arkansas	Local Libraries	11,129	670	671	(0.15%)	11,129
88	Arkansas	Natural Resources	6,131	137	136	1.08%	6,131
89	Arkansas	Parks & Recreation	3,859	972	972	(0.03%)	3,859
90	Arkansas	Police Protection - Officers	130,571	5,645	5,644	0.01%	130,571
91	Arkansas	Welfare	8	42	42	(0.01%)	8
92	Arkansas	Sewerage	7,885	1,154	1,154	0.04%	7,885

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
81	10995642	3,234	42	217.05%	102.53%	1,248	1,645	1
82	4.4036E9	32,068	47	52.86%	206.94%	1,400	2,267	1
83	1337455	983	10	75.06%	117.63%	177	339	1
84	9254004	504	1	3137.84%	603.39%	1,046	1,547	1
85	64752759	7,502	57	875.35%	107.27%	2,895	3,955	1
86	76461017	3,573	18	474.00%	244.74%	689	1,250	1
87	1.8578E9	4,722	22	135.67%	912.76%	463	877	1
88	19359824	2,795	3	119.35%	157.43%	0	291	1
89	781,043	865	22	346.03%	102.14%	850	1,094	1
90	6.0962E9	28,512	60	357.96%	273.85%	4,937	6,353	1
91	26	6	3	42.69%	87.81%	36	48	1
92	39071083	3,636	18	116.89%	171.93%	980	1,328	1

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93	Arkansas	Solid Waste Management	15,193	1,407	1,406	0.09%	15,193
94	Arkansas	Water Transport & Terminals	16	12	10	20.0%	16
95	Arkansas	Other & Unallocable	11,710	1,257	1,258	(0.04%)	11,710
96	Arkansas	Water Supply	58,957	2,194	2,194	(0.01%)	58,957
97	Arkansas	Electric Power	1,330	431	431	0.02%	1,330
98	Arkansas	Gas Supply	444	13	7	92.7%	444
99	Arkansas	Transit	856	323	309	4.61%	856
100	Arkansas	Elementary and Secondary - Other Total	5000360	22,189	22,194	(0.02%)	5000360
101	Arkansas	Fire - Other	9	66	66	(0.01%)	9
102	Arkansas	Police-Other	8,189	1,246	1,246	(0.02%)	8,189
103	California	Airports	63,411	6,828	6,832	(0.06%)	63,411
104	California	Correction	883,922	29,177	29,177	0.00%	883,922

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
93	31051078	6,284	34	141.77%	88.68%	1,166	1,649	1
94	13	0	1	9162.24%	2101.10%	4	20	1
95	7.13E8	7,779	30	50.54%	343.25%	1,045	1,470	1
96	8.3236E8	25,553	34	130.72%	112.91%	1,718	2,670	1
97	395,910	636	3	109.13%	98.92%	360	503	1
98	968,335	335	1	32.44%	293.65%	0	55	1
99	6,169	2	1	44303.1%	4072.65%	266	381	1
100	2.475E11	342,232	52	1361.10%	145.36%	17,806	26,572	1
101	9	2	2	433.55%	183.52%	60	72	1
102	14243230	3,234	35	153.27%	116.72%	1,068	1,423	1
103	6.2866E9	40,433	14	56.83%	196.10%	6,334	7,321	1
104	1.978E10	64,722	12	1265.72%	217.28%	27,334	31,020	1

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Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
105	California	Elementary and Secondary - Instruction	2.4133E8	344,222	344,223	(0.00%)	2.4133E8
106	California	Higher Education - Other	18183030	27,776	27,817	(0.15%)	18183030
107	California	Higher Education - Instructional	9489631	19,567	19,578	(0.06%)	9489631
108	California	Financial Administration	991,092	24,333	24,341	(0.03%)	991,092
109	California	Firefighters	2175383	27,590	27,646	(0.20%)	2175383
110	California	Judical & Legal	555,207	36,257	36,257	0.00%	555,207
111	California	Other Government Administration	1628469	24,518	24,521	(0.01%)	1628469
112	California	Health	2421392	40,687	40,691	(0.01%)	2421392
113	California	Hospitals	1760654	55,635	55,640	(0.01%)	1760654
114	California	Streets & Highways	1903567	20,810	20,826	(0.08%)	1903567
115	California	Housing & Community Development (Local)	1448705	11,314	11,306	0.07%	1448705
116	California	Local Libraries	255,195	7,385	7,377	0.10%	255,195

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
105	1.299E14	19038932	154	1167.56%	59.87%	313,774	374,670	1
106	9.651E12	9571142	27	89.98%	32.46%	19,418	36,134	1
107	3.945E12	4190036	27	126.48%	47.40%	13,529	25,605	1
108	1.88E11	223,309	68	343.82%	194.16%	22,382	26,285	1
109	2.305E11	885,469	50	145.68%	54.22%	24,700	30,481	1
110	1.551E10	100,428	39	452.84%	124.01%	34,797	37,718	1
111	1.379E12	547,965	68	197.18%	214.34%	22,017	27,019	1
112	1.447E11	200,287	24	1108.96%	189.91%	37,637	43,737	1
113	3.499E11	463,641	8	279.74%	127.58%	53,034	58,236	1
114	6.846E11	551,568	67	245.12%	150.01%	18,106	23,514	1
115	8.515E10	229,307	55	531.78%	127.26%	8,955	13,673	1
116	8.2818E9	85,000	40	200.23%	107.06%	6,395	8,375	1



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117	California	Natural Resources	1539119	7,052	7,031	0.30%	1539119
118	California	Parks & Recreation	1731583	17,465	17,471	(0.03%)	1731583
119	California	Police Protection - Officers	6129212	62,891	62,868	0.04%	6129212
120	California	Welfare	3542689	65,820	65,826	(0.01%)	3542689
121	California	Sewerage	1080192	11,211	11,243	(0.29%)	1080192
122	California	Solid Waste Management	419,124	8,225	8,213	0.14%	419,124
123	California	Water Transport & Terminals	137,552	2,208	2,193	0.68%	137,552
124	California	Other & Unallocable	3392867	26,702	26,677	0.09%	3392867
125	California	Water Supply	2783570	22,662	22,677	(0.06%)	2783570
126	California	Electric Power	172,612	11,590	11,583	0.06%	172,612
127	California	Gas Supply	65,643	470	224	110%	65,643
128	California	Transit	1439902	30,864	30,868	(0.01%)	1439902

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
117	5.44E11	457,459	18	236.45%	161.23%	4,621	9,484	1
118	2.784E11	524,206	64	230.32%	100.66%	14,886	20,044	1
119	1.879E12	1749702	62	250.30%	78.34%	58,038	67,743	1
120	2.525E11	234,689	20	1409.53%	214.11%	62,131	69,509	1
121	4.731E11	395,258	48	173.29%	174.02%	9,174	13,248	1
122	1.605E11	249,934	37	67.69%	160.31%	6,956	9,493	1
123	6.105E10	63,841	2	115.46%	387.04%	1,481	2,935	1
124	1.991E12	1466680	66	131.33%	96.20%	23,091	30,312	1
125	3.212E11	673,920	59	313.04%	84.09%	19,392	25,933	1
126	2.57E10	88,954	6	94.05%	180.20%	10,776	12,404	1
127	2.9082E8	781	1	8302.85%	2183.01%	0	972	1
128	5.148E12	521,349	17	176.19%	435.20%	28,512	33,216	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
129	California	Elementary and Secondary - Other Total	52010399	156,094	156,089	0.00%	52010399
130	California	Fire - Other	32,696	2,898	2,895	0.09%	32,696
131	California	Police-Other	982,977	23,992	23,996	(0.02%)	982,977
132	Colorado	Airports	14,198	1,361	1,363	(0.15%)	14,198
133	Colorado	Correction	35,334	3,586	3,586	(0.00%)	35,334
134	Colorado	Elementary and Secondary - Instruction	48233206	61,942	61,966	(0.04%)	48233206
135	Colorado	Higher Education - Other	1007035	1,006	489	106%	1007035
136	Colorado	Higher Education - Instructional	177,042	417	205	104%	177,042
137	Colorado	Financial Administration	258,766	4,478	4,481	(0.07%)	258,766
138	Colorado	Firefighters	328,153	5,074	5,074	0.01%	328,153
139	Colorado	Judical & Legal	4,806	2,378	2,378	(0.01%)	4,806
140	Colorado	Other Government Administration	204,572	4,136	4,136	0.00%	204,572

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
129	1.691E13	7264312	154	615.97%	56.60%	141,959	170,229	1
130	1.1869E9	20,944	43	56.11%	164.49%	2,543	3,252	1
131	2.544E10	260,039	60	278.01%	61.33%	22,049	25,935	1
132	3.7748E8	9,010	6	57.58%	215.63%	1,127	1,595	1
133	49481812	2,455	14	1339.17%	286.51%	3,217	3,954	1
134	3.412E13	2665093	16	1709.81%	219.17%	48,330	75,554	1
135	4.906E10	21,328	1	4621.76%	1038.58%	0	2,973	1
136	9.2914E9	11,565	1	1430.88%	833.50%	0	1,242	1
137	2.365E11	175,287	35	47.62%	277.44%	3,481	5,475	1
138	1.629E10	84,792	18	287.01%	150.53%	3,952	6,197	1
139	6.4439E8	2,854	23	68.39%	889.34%	2,242	2,514	1
140	1.456E11	106,567	35	91.97%	358.05%	3,250	5,023	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
141	Colorado	Health	90,876	3,473	3,472	0.04%	90,876
142	Colorado	Hospitals	167,293	8,327	8,326	0.01%	167,293
143	Colorado	Streets & Highways	214,323	4,858	4,860	(0.04%)	214,323
144	Colorado	Housing & Community Development (Local)	268,378	2,015	2,013	0.12%	268,378
145	Colorado	Local Libraries	92,967	1,759	1,759	(0.00%)	92,967
146	Colorado	Natural Resources	52,625	609	619	(1.58%)	52,625
147	Colorado	Parks & Recreation	159,149	4,275	4,270	0.12%	159,149
148	Colorado	Police Protection - Officers	387,815	9,689	9,689	0.00%	387,815
149	Colorado	Welfare	136,738	6,051	6,050	0.02%	136,738
150	Colorado	Sewerage	93,170	2,260	2,249	0.50%	93,170
151	Colorado	Solid Waste Management	9,730	602	602	(0.07%)	9,730
152	Colorado	Other & Unallocable	104,920	4,613	4,619	(0.13%)	104,920

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
141	3.122E10	51,319	16	77.08%	344.33%	2,883	4,064	1
142	1.6376E9	26,486	9	531.62%	152.79%	7,525	9,128	1
143	9.5348E9	61,285	36	249.72%	159.33%	3,951	5,765	1
144	1.963E11	149,897	13	79.04%	295.57%	1,000	3,031	1
145	4.3805E9	21,445	12	333.52%	308.63%	1,161	2,357	1
146	3.5148E9	27,451	6	91.70%	215.97%	160	1,059	1
147	5.8277E9	51,958	25	206.30%	146.92%	3,493	5,057	1
148	4.725E10	94,830	35	308.96%	229.22%	8,469	10,910	1
149	3.9156E9	45,313	16	201.76%	138.09%	5,326	6,776	1
150	3.1975E9	37,747	17	146.83%	149.81%	1,662	2,858	1
151	4.2104E8	6,855	15	41.94%	299.34%	408	795	1
152	4.3496E9	78,131	30	34.29%	84.41%	3,978	5,248	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
153	Colorado	Water Supply	164,152	4,112	4,112	(0.00%)	164,152
154	Colorado	Electric Power	29,051	1,499	1,500	(0.05%)	29,051
155	Colorado	Gas Supply	3,081	305	273	11.6%	3,081
156	Colorado	Transit	18,626	2,932	2,916	0.55%	18,626
157	Colorado	Elementary and Secondary - Other Total	8486009	26,458	26,459	(0.00%)	8486009
158	Colorado	Fire - Other	11,587	484	484	0.08%	11,587
159	Colorado	Police-Other	38,682	3,536	3,537	(0.03%)	38,682
160	Connecticut	Elementary and Secondary - Instruction	27058878	60,327	60,336	(0.01%)	27058878
161	Connecticut	Financial Administration	62,008	2,007	2,013	(0.29%)	62,008
162	Connecticut	Firefighters	42,228	4,026	4,025	0.01%	42,228
163	Connecticut	Judical & Legal	5	137	137	0.15%	5
164	Connecticut	Other Government Administration	80,073	1,748	1,750	(0.10%)	80,073

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
153	1.327E10	53,759	23	205.35%	214.28%	3,318	4,906	1
154	1.3261E9	20,342	4	42.81%	179.02%	1,165	1,833	1
155	3093052	455	1	577.75%	386.89%	196	413	1
156	6.749E8	17,467	3	6.64%	148.73%	2,665	3,200	1
157	2.077E12	618,576	16	1271.86%	232.99%	20,749	32,168	1
158	1.9977E8	8,046	9	44.01%	175.67%	273	695	1
159	2.1077E8	12,426	30	211.29%	116.83%	3,150	3,921	1
160	4.707E12	1137014	43	2279.82%	190.82%	50,132	70,523	1
161	1.098E10	22,346	33	177.49%	468.85%	1,519	2,495	1
162	53662403	7,521	22	461.46%	97.40%	3,623	4,428	1
163	1	0	1	15318.8%	2651.54%	133	142	1
164	2.289E10	37,957	33	110.96%	398.60%	1,194	2,303	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
165	Connecticut	Health	28,035	1,049	1,047	0.14%	28,035
166	Connecticut	Streets & Highways	212,294	3,125	3,128	(0.11%)	212,294
167	Connecticut	Housing & Community Development (Local)	17,562	1,278	1,278	0.02%	17,562
168	Connecticut	Local Libraries	21,689	1,043	1,042	0.07%	21,689
169	Connecticut	Natural Resources	35	28	26	5.84%	35
170	Connecticut	Parks & Recreation	13,981	1,248	1,246	0.13%	13,981
171	Connecticut	Police Protection - Officers	233,093	6,374	6,370	0.06%	233,093
172	Connecticut	Welfare	6,453	1,007	1,006	0.07%	6,453
173	Connecticut	Sewerage	15,106	963	963	0.04%	15,106
174	Connecticut	Solid Waste Management	8,318	1,007	1,007	(0.03%)	8,318
175	Connecticut	Other & Unallocable	33,307	1,426	1,428	(0.15%)	33,307
176	Connecticut	Water Supply	11,206	873	875	(0.20%)	11,206

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
165	4.779E10	23,798	22	17.81%	918.59%	720	1,377	1
166	5.039E10	75,861	34	179.84%	295.92%	2,222	4,028	1
167	5122854	1,615	20	987.17%	140.12%	1,018	1,538	1
168	2.7565E9	13,024	21	66.54%	403.13%	754	1,331	1
169	701	14	2	150.58%	187.56%	16	39	1
170	28011405	3,949	31	254.06%	134.03%	1,016	1,479	1
171	9.9154E9	75,625	29	208.22%	131.67%	5,428	7,320	1
172	4266828	2,609	25	147.39%	79.19%	849	1,164	1
173	1.6736E8	4,942	17	205.65%	261.75%	723	1,204	1
174	96872045	5,315	14	56.49%	185.17%	828	1,185	1
175	3.4123E8	15,192	30	119.24%	121.59%	1,068	1,784	1
176	3.8721E8	7,300	7	53.49%	269.54%	666	1,081	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
177	Connecticut	Electric Power	32,753	309	309	0.06%	32,753
178	Connecticut	Gas Supply	1,900	44	37	17.8%	1,900
179	Connecticut	Transit	11,346	584	584	(0.02%)	11,346
180	Connecticut	Elementary and Secondary - Other Total	2026217	16,475	16,484	(0.05%)	2026217
181	Connecticut	Fire - Other	663	249	249	0.13%	663
182	Connecticut	Police-Other	11,607	1,047	1,050	(0.28%)	11,607
183	Delaware	Financial Administration	307	382	382	0.01%	307
184	Delaware	Judical & Legal	15	81	79	2.08%	15
185	Delaware	Other Government Administration	991	706	706	(0.03%)	991
186	Delaware	Streets & Highways	265	398	398	0.00%	265
187	Delaware	Housing & Community Development (Local)	655	169	169	0.04%	655
188	Delaware	Local Libraries	685	163	163	0.03%	685

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
177	4.7255E9	22,869	2	43.22%	300.59%	0	664	1
178	4,838	1	1	306895%	11235.7%	0	129	1
179	9.5068E8	8,219	4	38.04%	375.15%	375	793	1
180	8.365E10	183,214	43	1005.93%	157.86%	13,685	19,265	1
181	171,705	244	18	171.31%	169.69%	199	300	1
182	38999687	5,568	28	108.46%	112.15%	836	1,258	1
183	197,015	138	7	121.50%	320.70%	348	416	1
184	57	3	2	432.54%	262.95%	73	88	1
185	4135325	340	8	191.45%	597.84%	644	768	1
186	10,764	95	5	178.78%	109.25%	366	430	1
187	18,320	37	1	1681.26%	368.04%	119	219	1
188	43,564	65	4	956.18%	321.87%	112	214	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
189	Delaware	Parks & Recreation	14	145	143	1.19%	14
190	Delaware	Police Protection - Officers	2,926	789	789	0.01%	2,926
191	Delaware	Sewerage	116	433	433	(0.00%)	116
192	Delaware	Solid Waste Management	33	43	41	4.26%	33
193	Delaware	Other & Unallocable	97	409	409	(0.00%)	97
194	Delaware	Water Supply	342	110	110	(0.11%)	342
195	Delaware	Electric Power	93	129	127	1.66%	93
196	Delaware	Police-Other	162	213	213	(0.01%)	162
197	Florida	Airports	141,899	4,161	4,163	(0.04%)	141,899
198	Florida	Correction	583,999	15,624	15,622	0.02%	583,999
199	Florida	Elementary and Secondary - Instruction	63549348	231,136	231,167	(0.01%)	63549348
200	Florida	Higher Education - Other	18118525	13,591	13,569	0.16%	18118525

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
189	2	0	1	28696.6%	3257.07%	137	152	1
190	657,520	431	8	578.72%	188.11%	683	895	1
191	8,690	37	3	214.00%	252.78%	412	454	1
192	22	0	1	17990.4%	2555.45%	31	54	1
193	2,209	40	4	144.75%	118.72%	390	428	1
194	77,653	213	5	60.70%	130.79%	74	146	1
195	5,049	33	1	177.87%	212.74%	110	148	1
196	175,858	99	4	63.47%	424.13%	188	238	1
197	2.814E10	84,322	9	68.28%	198.94%	3,423	4,899	1
198	2.646E10	129,201	10	352.01%	125.91%	14,127	17,122	1
199	8.61E13	8246523	13	670.62%	112.52%	215,511	246,761	1
200	1.116E13	4094819	8	342.47%	81.58%	5,248	21,934	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
201	Florida	Higher Education - Instructional	3827411	6,117	6,097	0.33%	3827411
202	Florida	Financial Administration	1455722	16,505	16,497	0.05%	1455722
203	Florida	Firefighters	2093594	25,660	25,677	(0.06%)	2093594
204	Florida	Judical & Legal	241,632	11,382	11,381	0.01%	241,632
205	Florida	Other Government Administration	977,495	10,413	10,422	(0.09%)	977,495
206	Florida	Health	410,225	4,977	4,978	(0.02%)	410,225
207	Florida	Hospitals	429,059	47,332	47,332	(0.00%)	429,059
208	Florida	Streets & Highways	1604069	12,336	12,346	(0.08%)	1604069
209	Florida	Housing & Community Development (Local)	1722652	4,752	4,755	(0.07%)	1722652
210	Florida	Local Libraries	240,448	4,894	4,901	(0.14%)	240,448
211	Florida	Natural Resources	364,610	5,136	5,137	(0.01%)	364,610
212	Florida	Parks & Recreation	629,212	12,104	12,108	(0.03%)	629,212

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
201	1.388E12	1351559	8	183.18%	87.17%	2,282	9,951	1
202	1.683E11	255,251	52	470.31%	160.71%	14,140	18,870	1
203	1.118E11	382,805	40	446.91%	87.36%	22,824	28,496	1
204	4.1497E9	46,890	25	415.31%	137.38%	10,419	12,346	1
205	9.421E11	459,522	52	112.72%	211.22%	8,475	12,351	1
206	4.14E10	161,461	14	154.07%	126.02%	3,722	6,232	1
207	2.871E10	73,396	2	484.58%	230.87%	46,048	48,616	1
208	8.591E11	547,870	50	192.78%	169.17%	9,854	14,818	1
209	9.452E12	406,942	27	323.32%	755.49%	2,179	7,324	1
210	9.179E10	150,827	22	59.42%	200.87%	3,933	5,855	1
211	1.664E11	173,632	18	109.99%	234.90%	3,953	6,320	1
212	6.126E11	344,186	51	82.81%	227.40%	10,549	13,659	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
213	Florida	Police Protection - Officers	3793543	38,782	38,775	0.02%	3793543
214	Florida	Welfare	351,291	4,964	4,965	(0.03%)	351,291
215	Florida	Sewerage	423,729	8,691	8,689	0.02%	423,729
216	Florida	Solid Waste Management	269,959	6,724	6,722	0.02%	269,959
217	Florida	Water Transport & Terminals	131,718	1,247	1,212	2.90%	131,718
218	Florida	Other & Unallocable	2170793	22,206	22,215	(0.04%)	2170793
219	Florida	Water Supply	971,672	11,010	11,005	0.05%	971,672
220	Florida	Electric Power	163,722	4,210	4,220	(0.23%)	163,722
221	Florida	Gas Supply	114,655	572	557	2.77%	114,655
222	Florida	Transit	125,334	7,675	7,677	(0.02%)	125,334
223	Florida	Elementary and Secondary - Other Total	13230236	92,791	92,810	(0.02%)	13230236
224	Florida	Fire - Other	27,226	2,372	2,373	(0.06%)	27,226

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
213	9.809E11	785,862	46	382.72%	126.03%	34,964	42,599	1
214	7.911E11	148,901	17	135.92%	597.34%	3,802	6,125	1
215	9.661E10	268,105	38	58.05%	115.93%	7,415	9,967	1
216	1.41E10	120,444	38	124.14%	98.59%	5,705	7,742	1
217	1.532E10	58,419	3	125.47%	211.85%	536	1,958	1
218	5.895E12	734,021	47	195.74%	330.78%	19,318	25,093	1
219	1.299E11	344,917	42	181.71%	104.49%	9,078	12,942	1
220	2.223E10	75,111	6	117.97%	198.50%	3,417	5,003	1
221	1.676E10	67,415	3	70.07%	192.06%	0	1,236	1
222	2.71E10	45,242	4	177.03%	363.85%	6,981	8,369	1
223	3.888E12	2067409	13	539.94%	95.38%	85,662	99,921	1
224	96513442	11,068	33	145.99%	88.76%	2,048	2,695	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
225	Florida	Police-Other	623,465	18,353	18,353	0.00%	623,465
226	Georgia	Airports	589	962	963	(0.08%)	589
227	Georgia	Correction	777,660	10,102	10,101	0.01%	777,660
228	Georgia	Elementary and Secondary - Instruction	2.7924E8	153,784	153,765	0.01%	2.7924E8
229	Georgia	Financial Administration	320,685	7,439	7,440	(0.01%)	320,685
230	Georgia	Firefighters	470,781	11,052	11,061	(0.08%)	470,781
231	Georgia	Judical & Legal	306,570	9,261	9,262	(0.01%)	306,570
232	Georgia	Other Government Administration	222,418	5,101	5,110	(0.18%)	222,418
233	Georgia	Health	1693488	7,672	7,671	0.01%	1693488
234	Georgia	Hospitals	575,644	16,581	16,581	(0.00%)	575,644
235	Georgia	Streets & Highways	567,371	7,844	7,851	(0.09%)	567,371
236	Georgia	Housing & Community Development (Local)	519,406	2,427	2,428	(0.04%)	519,406

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
225	1.086E10	133,265	42	367.84%	78.21%	16,806	19,901	1
226	5529375	447	6	31.71%	526.08%	915	1,010	1
227	1.164E10	86,060	33	803.63%	125.37%	8,373	11,830	1
228	6.387E14	13457351	30	1975.00%	187.79%	121,032	186,537	1
229	8.4479E9	52,573	62	509.98%	174.83%	6,329	8,549	1
230	8.0868E9	175,090	43	168.88%	51.36%	9,707	12,397	1
231	1.8404E9	30,691	48	898.91%	139.78%	8,176	10,347	1
232	1.375E11	107,211	60	107.46%	345.84%	4,176	6,025	1
233	1.389E13	701,216	36	141.51%	531.52%	5,121	10,222	1
234	3.9966E9	19,870	11	2797.05%	318.16%	15,094	18,068	1
235	1.259E10	153,535	60	269.54%	73.08%	6,367	9,320	1
236	2.924E10	62,277	13	734.03%	274.58%	1,014	3,840	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
237	Georgia	Local Libraries	33,790	1,856	1,856	0.01%	33,790
238	Georgia	Natural Resources	1,481	148	148	0.13%	1,481
239	Georgia	Parks & Recreation	131,714	3,899	3,897	0.06%	131,714
240	Georgia	Police Protection - Officers	1676668	20,204	20,212	(0.04%)	1676668
241	Georgia	Welfare	91,295	917	917	(0.02%)	91,295
242	Georgia	Sewerage	103,425	3,355	3,354	0.04%	103,425
243	Georgia	Solid Waste Management	471,484	4,330	4,326	0.08%	471,484
244	Georgia	Other & Unallocable	415,557	5,953	5,960	(0.12%)	415,557
245	Georgia	Water Supply	383,737	6,214	6,210	0.06%	383,737
246	Georgia	Electric Power	31,438	931	928	0.29%	31,438
247	Georgia	Gas Supply	44,881	558	558	0.08%	44,881
248	Georgia	Transit	18,304	4,817	4,818	(0.03%)	18,304

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
237	2.1741E8	21,354	22	58.24%	69.05%	1,496	2,217	1
238	2855645	1,685	9	( 12.06%)	100.31%	73	224	1
239	2.964E10	70,259	42	87.47%	245.05%	3,188	4,611	1
240	4.357E10	203,147	65	725.35%	102.75%	17,666	22,742	1
241	1.5028E9	17,621	10	418.10%	220.00%	325	1,509	1
242	1.3227E9	34,926	27	196.13%	104.13%	2,725	3,986	1
243	1.218E11	117,558	43	301.07%	296.88%	2,984	5,675	1
244	5.608E10	240,072	53	73.10%	98.64%	4,690	7,217	1
245	1.263E10	106,740	39	259.51%	105.27%	4,999	7,428	1
246	8.6738E8	14,966	10	110.06%	196.78%	583	1,278	1
247	2.1923E9	34,302	12	30.84%	136.50%	143	974	1
248	1.1706E9	14,714	4	24.40%	232.52%	4,551	5,082	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
249	Georgia	Elementary and Secondary - Other Total	62212729	73,003	73,016	(0.02%)	62212729
250	Georgia	Fire - Other	1,132	446	446	0.03%	1,132
251	Georgia	Police-Other	187,062	4,351	4,350	0.02%	187,062
252	Idaho	Airports	17	138	136	1.78%	17
253	Idaho	Correction	26,528	1,542	1,542	(0.00%)	26,528
254	Idaho	Elementary and Secondary - Instruction	6494844	20,035	20,033	0.01%	6494844
255	Idaho	Higher Education - Other	329,415	785	762	3.03%	329,415
256	Idaho	Higher Education - Instructional	74,953	373	362	3.10%	74,953
257	Idaho	Financial Administration	20,598	1,348	1,348	(0.00%)	20,598
258	Idaho	Firefighters	10,216	1,130	1,130	0.02%	10,216
259	Idaho	Judical & Legal	16,721	1,465	1,465	0.00%	16,721
260	Idaho	Other Government Administration	9,484	924	924	0.04%	9,484

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
249	4.009E13	4858738	29	1180.43%	130.32%	57,544	88,463	1
250	159,978	484	22	133.97%	82.67%	380	512	1
251	2.9609E9	47,867	53	290.79%	113.68%	3,503	5,199	1
252	65	3	1	484.69%	280.96%	130	146	1
253	38434133	3,484	12	661.34%	177.92%	1,223	1,861	1
254	3.725E11	335,015	20	1838.67%	182.18%	15,040	25,030	1
255	1.526E10	29,169	1	1029.34%	423.53%	0	1,910	1
256	7.2475E8	6,485	1	1055.80%	415.13%	0	910	1
257	25243829	3,010	26	584.26%	166.90%	1,067	1,629	1
258	80211927	2,991	9	241.57%	299.44%	932	1,328	1
259	35683012	1,773	15	842.92%	336.85%	1,212	1,718	1
260	17698248	4,755	22	99.48%	88.48%	733	1,115	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
261	Idaho	Health	729	769	769	(0.01%)	729
262	Idaho	Hospitals	148,716	2,953	2,953	(0.01%)	148,716
263	Idaho	Streets & Highways	35,180	1,660	1,661	(0.04%)	35,180
264	Idaho	Housing & Community Development (Local)	2,993	166	160	3.55%	2,993
265	Idaho	Local Libraries	6,212	371	371	(0.01%)	6,212
266	Idaho	Natural Resources	11,416	333	332	0.40%	11,416
267	Idaho	Parks & Recreation	2,246	537	537	(0.09%)	2,246
268	Idaho	Police Protection - Officers	30,136	2,514	2,514	0.01%	30,136
269	Idaho	Welfare	501	106	106	(0.03%)	501
270	Idaho	Sewerage	5,751	615	616	(0.16%)	5,751
271	Idaho	Solid Waste Management	2,581	438	438	(0.01%)	2,581
272	Idaho	Water Transport & Terminals	922	30	6	395%	922

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
261	1089141	158	4	360.74%	659.78%	716	822	1
262	1.5065E9	42,198	6	252.42%	91.98%	2,197	3,708	1
263	1.7253E8	8,732	35	302.88%	150.42%	1,293	2,028	1
264	7874439	948	2	215.59%	295.94%	58	273	1
265	10103463	1,565	10	297.03%	203.17%	216	525	1
266	47753256	3,380	11	237.73%	204.43%	124	543	1
267	12481791	1,249	12	79.86%	282.92%	444	629	1
268	34148016	4,633	26	550.49%	126.14%	2,174	2,854	1
269	41,365	137	8	265.98%	148.68%	62	150	1
270	16431796	2,006	15	186.74%	202.09%	466	764	1
271	535,042	672	14	284.08%	108.87%	338	538	1
272	127,588	42	1	2103.37%	853.65%	0	89	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
273	Idaho	Other & Unallocable	8,895	831	832	(0.16%)	8,895
274	Idaho	Water Supply	5,052	478	478	(0.09%)	5,052
275	Idaho	Electric Power	232	97	97	(0.04%)	232
276	Idaho	Transit	820	45	34	31.3%	820
277	Idaho	Elementary and Secondary - Other Total	882,550	7,823	7,823	0.00%	882,550
278	Idaho	Fire - Other	65	66	66	0.42%	65
279	Idaho	Police-Other	7,155	968	968	0.00%	7,155
280	Illinois	Airports	99,694	897	898	(0.08%)	99,694
281	Illinois	Correction	135,836	10,082	10,086	(0.04%)	135,836
282	Illinois	Elementary and Secondary - Instruction	2.6573E8	187,018	186,958	0.03%	2.6573E8
283	Illinois	Higher Education - Other	8713919	9,872	9,905	(0.33%)	8713919
284	Illinois	Higher Education - Instructional	2526057	5,432	5,455	(0.42%)	2526057

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
273	31388094	2,727	18	226.18%	205.46%	646	1,016	1
274	7726013	1,991	15	153.74%	139.62%	338	617	1
275	1,768	11	3	1999.48%	380.23%	67	127	1
276	0	0	1	.	.	0	101	1
277	1.535E10	74,149	20	1090.24%	167.10%	5,982	9,665	1
278	216,070	57	1	13.79%	812.63%	50	82	1
279	4850298	968	18	639.07%	227.50%	802	1,134	1
280	7.0943E9	31,987	4	211.67%	263.31%	278	1,516	1
281	4.8375E8	12,934	20	950.23%	170.05%	9,359	10,804	1
282	3.029E14	31501155	84	743.55%	55.24%	155,068	218,968	1
283	4.074E12	3727261	9	133.79%	54.15%	4,087	15,658	1
284	5.643E11	1225282	9	106.16%	61.31%	2,317	8,547	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
285	Illinois	Financial Administration	225,904	6,137	6,144	(0.12%)	225,904	1.09E10	122,976	112	83.70%	84.91%	5,205	7,068	1
286	Illinois	Firefighters	484,198	10,236	10,243	(0.07%)	484,198	7.301E10	152,959	62	216.55%	176.65%	8,872	11,600	1
287	Illinois	Judical & Legal	139,555	12,267	12,277	(0.08%)	139,555	5.7034E8	14,819	27	841.71%	161.15%	11,534	12,999	1
288	Illinois	Other Government Administration	206,379	6,145	6,166	(0.34%)	206,379	2.78E10	135,594	102	52.20%	122.96%	5,255	7,035	1
289	Illinois	Health	276,782	4,982	4,981	0.01%	276,782	1.313E10	81,379	25	240.12%	140.83%	3,951	6,013	1
290	Illinois	Hospitals	329,308	10,249	10,247	0.02%	329,308	4.6614E9	48,604	9	577.53%	140.47%	9,124	11,374	1
291	Illinois	Streets & Highways	651,169	8,522	8,510	0.14%	651,169	2.18E12	445,105	120	46.30%	331.73%	6,940	10,103	1
292	Illinois	Housing & Community Development (Local)	596,713	2,966	2,963	0.11%	596,713	2.718E10	70,124	23	750.93%	235.11%	1,452	4,480	1
293	Illinois	Local Libraries	540,413	4,628	4,631	(0.06%)	540,413	3.182E10	94,884	44	469.55%	188.00%	3,187	6,069	1
294	Illinois	Natural Resources	108,144	918	929	(1.18%)	108,144	7.925E10	59,160	7	82.80%	475.86%	273	1,563	1
295	Illinois	Parks & Recreation	959,720	8,533	8,537	(0.04%)	959,720	2.07E11	148,890	67	544.58%	305.57%	6,613	10,454	1
296	Illinois	Police Protection - Officers	769,872	34,609	34,630	(0.06%)	769,872	1.208E10	207,022	120	271.88%	53.10%	32,889	36,329	1
297	Illinois	Welfare	289,070	4,247	4,239	0.20%	289,070	1.107E10	132,373	17	118.38%	79.47%	3,194	5,301	1
298	Illinois	Sewerage	295,559	4,813	4,809	0.08%	295,559	6.521E11	131,812	66	124.23%	612.63%	3,747	5,878	1
299	Illinois	Solid Waste Management	7,223	1,356	1,355	0.10%	7,223	2.641E8	6,227	15	16.01%	261.00%	1,190	1,523	1
300	Illinois	Water Transport & Terminals	77,997	276	57	384%	77,997	6.5083E8	3,076	1	2435.81%	829.42%	0	823	1
301	Illinois	Other & Unallocable	124,301	5,576	5,568	0.15%	124,301	1.091E10	89,384	72	39.06%	116.86%	4,885	6,267	1
302	Illinois	Water Supply	170,011	4,002	4,003	(0.03%)	170,011	8.8485E9	79,434	79	114.03%	118.42%	3,194	4,810	1
303	Illinois	Electric Power	35,888	1,105	1,103	0.19%	35,888	3.7749E9	26,144	6	37.27%	235.01%	734	1,476	1
304	Illinois	Gas Supply	8,485	109	108	1.33%	8,485	3.689E8	7,349	3	15.46%	261.37%	0	290	1
305	Illinois	Transit	404,654	13,761	13,753	0.06%	404,654	3.345E11	180,491	6	124.20%	320.45%	12,514	15,008	1
306	Illinois	Elementary and Secondary - Other Total	30463841	67,690	67,659	0.05%	30463841	8.453E12	4467597	84	581.88%	65.08%	56,872	78,508	1
307	Illinois	Fire - Other	3,666	1,060	1,061	(0.07%)	3,666	8866322	2,598	28	41.14%	114.63%	942	1,179	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
308	Illinois	Police-Other	72,011	6,208	6,226	(0.28%)	72,011	1.4242E8	23,436	99	207.27%	50.92%	5,682	6,734	1
309	Indiana	Airports	277	250	250	(0.07%)	277	79,811	148	4	87.36%	191.16%	217	282	1
310	Indiana	Correction	499,197	5,796	5,798	(0.03%)	499,197	6.0183E9	64,064	26	679.21%	121.09%	4,412	7,181	1
311	Indiana	Elementary and Secondary - Instruction	52840310	79,767	79,775	(0.01%)	52840310	1.136E13	2467900	61	2041.10%	136.56%	65,519	94,014	1
312	Indiana	Financial Administration	140,872	3,497	3,496	0.04%	140,872	2.1346E9	38,959	66	261.59%	118.59%	2,762	4,233	1
313	Indiana	Firefighters	58,998	6,683	6,688	(0.08%)	58,998	1.8497E9	34,852	26	69.28%	123.40%	6,207	7,159	1
314	Indiana	Judical & Legal	330,615	5,539	5,538	0.02%	330,615	2.4604E9	33,518	37	886.38%	147.99%	4,412	6,666	1
315	Indiana	Other Government Administration	224,203	4,581	4,582	(0.02%)	224,203	3.858E9	58,440	61	283.64%	106.28%	3,653	5,509	1
316	Indiana	Health	116,127	2,685	2,685	0.00%	116,127	8.1965E8	23,521	28	393.71%	121.72%	2,017	3,353	1
317	Indiana	Hospitals	2657240	19,259	19,258	0.01%	2657240	9.755E10	253,446	11	948.45%	123.23%	16,064	22,454	1
318	Indiana	Streets & Highways	254,363	5,254	5,255	(0.02%)	254,363	2.8332E9	52,262	64	386.70%	101.85%	4,266	6,243	1
319	Indiana	Housing & Community Development (Local)	78,656	1,223	1,225	(0.20%)	78,656	6.5937E8	7,996	10	883.64%	321.12%	673	1,772	1
320	Indiana	Local Libraries	184,644	3,041	3,038	0.10%	184,644	9.1147E8	14,949	25	1135.15%	201.95%	2,199	3,883	1
321	Indiana	Natural Resources	13,299	355	353	0.58%	13,299	2.6215E8	8,756	16	51.88%	184.92%	129	581	1
322	Indiana	Parks & Recreation	10,964	2,096	2,095	0.07%	10,964	43210314	4,101	42	167.35%	160.29%	1,891	2,302	1
323	Indiana	Police Protection - Officers	239,487	10,282	10,283	(0.01%)	239,487	1.168E10	65,223	69	267.19%	165.69%	9,322	11,241	1
324	Indiana	Welfare	29,884	831	832	(0.15%)	29,884	1.3967E9	17,747	15	68.39%	210.59%	492	1,170	1
325	Indiana	Sewerage	44,823	2,606	2,604	0.07%	44,823	2.5249E8	16,157	42	177.42%	98.34%	2,191	3,021	1
326	Indiana	Solid Waste Management	37,890	965	964	0.06%	37,890	1.9141E9	14,984	20	152.87%	291.99%	583	1,346	1
327	Indiana	Water Transport & Terminals	313	18	7	152%	313	1,132	1	1	31856.0%	3434.26%	0	52	1
328	Indiana	Other & Unallocable	122,725	2,629	2,630	(0.05%)	122,725	1.735E10	80,157	35	53.11%	164.33%	1,942	3,315	1
329	Indiana	Water Supply	38,073	1,771	1,767	0.23%	38,073	4.8421E8	25,158	37	51.33%	87.47%	1,389	2,154	1
330	Indiana	Electric Power	6,451	3,188	3,189	(0.03%)	6,451	26579328	4,336	8	48.79%	118.91%	3,031	3,345	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
331	Indiana	Gas Supply	876	739	738	0.08%	876	856,378	507	3	72.75%	182.45%	681	797	1
332	Indiana	Transit	173	1,328	1,324	0.32%	173	31,957	46	1	275.26%	388.47%	1,302	1,354	1
333	Indiana	Elementary and Secondary - Other Total	14954854	38,390	38,397	(0.02%)	14954854	4.473E12	2865671	61	421.86%	73.80%	30,810	45,969	1
334	Indiana	Fire - Other	319	257	258	(0.25%)	319	189,741	177	4	80.50%	246.20%	222	292	1
335	Indiana	Police-Other	68,310	2,725	2,726	(0.04%)	68,310	1.7477E9	26,916	46	153.79%	155.32%	2,213	3,237	1
336	Iowa	Airports	29	130	128	1.58%	29	432	8	1	278.23%	272.29%	119	141	1
337	Iowa	Correction	19,929	1,398	1,398	(0.02%)	19,929	23821950	4,841	27	311.64%	100.81%	1,121	1,674	1
338	Iowa	Elementary and Secondary - Instruction	15328961	47,209	47,212	(0.01%)	15328961	8.76E11	1238713	66	1137.49%	75.56%	39,535	54,883	1
339	Iowa	Higher Education - Other	672,918	3,318	3,319	(0.03%)	672,918	5.415E10	116,409	8	478.06%	199.91%	1,710	4,926	1
340	Iowa	Higher Education - Instructional	236,138	1,950	1,952	(0.09%)	236,138	3.233E10	80,243	8	194.28%	224.07%	998	2,903	1
341	Iowa	Financial Administration	56,770	2,494	2,492	0.07%	56,770	61679114	10,544	55	438.39%	74.48%	2,027	2,961	1
342	Iowa	Firefighters	1,640	1,642	1,642	(0.02%)	1,640	3606549	475	14	245.03%	399.61%	1,562	1,721	1
343	Iowa	Judical & Legal	5,656	787	787	0.00%	5,656	1349044	957	32	490.89%	121.34%	640	934	1
344	Iowa	Other Government Administration	64,030	1,938	1,940	(0.09%)	64,030	3.884E10	47,390	67	35.12%	415.88%	1,442	2,434	1
345	Iowa	Health	52,579	1,622	1,623	(0.09%)	52,579	1.3898E8	8,250	31	537.32%	142.89%	1,172	2,071	1
346	Iowa	Hospitals	1330904	9,264	9,261	0.03%	1330904	2.537E10	197,663	25	573.32%	80.59%	7,003	11,525	1
347	Iowa	Streets & Highways	250,270	5,220	5,220	(0.00%)	250,270	2.2535E9	64,396	72	288.65%	73.72%	4,239	6,200	1
348	Iowa	Housing & Community Development (Local)	388	357	357	0.05%	388	37,001	107	11	262.48%	179.55%	319	396	1
349	Iowa	Local Libraries	6,562	809	808	0.17%	6,562	84965953	4,042	30	62.35%	228.07%	651	968	1
350	Iowa	Natural Resources	539	135	135	0.08%	539	122,781	313	8	72.26%	111.97%	90	181	1
351	Iowa	Parks & Recreation	6,322	1,220	1,220	0.03%	6,322	6245856	2,683	51	135.63%	93.15%	1,064	1,376	1
352	Iowa	Police Protection - Officers	70,811	4,484	4,481	0.07%	70,811	9.9281E8	22,526	71	214.35%	139.88%	3,963	5,006	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
353	Iowa	Welfare	7,140	799	800	(0.09%)	7,140	1.1012E8	4,504	18	58.54%	233.01%	634	965	1
354	Iowa	Sewerage	9,099	1,075	1,076	(0.09%)	9,099	62431813	5,512	32	65.06%	143.34%	888	1,262	1
355	Iowa	Solid Waste Management	2,464	550	552	(0.43%)	2,464	10272257	1,793	20	37.44%	178.77%	452	647	1
356	Iowa	Other & Unallocable	11,730	1,348	1,349	(0.04%)	11,730	32096577	3,465	52	238.54%	163.50%	1,136	1,561	1
357	Iowa	Water Supply	19,426	1,419	1,419	(0.01%)	19,426	1.6385E8	13,783	32	40.94%	92.87%	1,146	1,692	1
358	Iowa	Electric Power	12,297	787	789	(0.24%)	12,297	82240250	8,924	12	37.79%	101.62%	570	1,004	1
359	Iowa	Gas Supply	1,121	80	79	0.90%	1,121	1449411	697	4	60.72%	172.64%	14	145	1
360	Iowa	Transit	113	459	457	0.44%	113	32,922	60	2	86.78%	301.20%	438	480	1
361	Iowa	Elementary and Secondary - Other Total	1871934	14,448	14,451	(0.02%)	1871934	1.748E11	482,515	64	287.95%	86.65%	11,767	17,130	1
362	Iowa	Fire - Other	1	72	72	0.11%	1	0	0	1	276464%	10372.1%	70	74	1
363	Iowa	Police-Other	11,205	1,248	1,247	0.10%	11,205	8373933	3,748	41	198.97%	77.21%	1,041	1,456	1
364	Kansas	Airports	12	207	207	0.21%	12	51	5	2	113.59%	130.36%	201	214	1
365	Kansas	Correction	32,870	3,015	3,015	0.02%	32,870	68709311	5,532	17	494.14%	149.83%	2,660	3,371	1
366	Kansas	Elementary and Secondary - Instruction	17084527	53,585	53,552	0.06%	17084527	2.001E12	945,083	57	1707.73%	149.68%	45,483	61,686	1
367	Kansas	Higher Education - Other	868,983	3,808	3,817	(0.23%)	868,983	4.88E10	313,298	6	177.37%	70.51%	1,981	5,635	1
368	Kansas	Higher Education - Instructional	268,323	2,132	2,145	(0.61%)	268,323	1.043E10	131,936	6	103.37%	77.42%	1,117	3,147	1
369	Kansas	Financial Administration	36,308	2,716	2,716	(0.01%)	36,308	89248389	5,008	52	624.96%	188.63%	2,342	3,089	1
370	Kansas	Firefighters	2,247	2,887	2,887	0.01%	2,247	2129865	1,159	10	93.86%	125.92%	2,794	2,980	1
371	Kansas	Judicial & Legal	6,919	1,445	1,445	(0.01%)	6,919	8225113	1,879	34	268.30%	152.65%	1,282	1,608	1
372	Kansas	Other Government Administration	26,218	2,171	2,169	0.08%	26,218	1.3455E8	8,202	65	219.65%	141.42%	1,853	2,488	1
373	Kansas	Health	30,010	2,704	2,704	0.01%	30,010	71737675	8,168	30	267.42%	103.70%	2,365	3,044	1
374	Kansas	Hospitals	427,095	7,147	7,147	(0.00%)	427,095	1.124E10	176,335	11	142.21%	60.12%	5,866	8,428	1
375	Kansas	Streets & Highways	167,581	4,557	4,556	0.02%	167,581	6.4683E8	25,773	76	550.21%	98.68%	3,755	5,359	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
376	Kansas	Housing & Community Development (Local)	6,460	845	846	(0.08%)	6,460	3811733	1,345	11	380.42%	145.19%	688	1,003	1
377	Kansas	Local Libraries	2,585	798	798	(0.05%)	2,585	1564802	579	10	346.60%	216.13%	698	897	1
378	Kansas	Natural Resources	6,456	296	296	0.15%	6,456	12326250	1,521	10	324.42%	230.80%	139	454	1
379	Kansas	Parks & Recreation	1,508	1,521	1,522	(0.05%)	1,508	10901336	1,105	27	36.46%	298.80%	1,445	1,597	1
380	Kansas	Police Protection - Officers	39,508	5,817	5,816	0.02%	39,508	1.1785E8	9,506	76	315.62%	114.21%	5,428	6,207	1
381	Kansas	Welfare	2,488	393	393	0.02%	2,488	1645760	534	5	366.16%	240.37%	295	491	1
382	Kansas	Sewerage	1,093	1,107	1,105	0.14%	1,093	1348079	1,088	36	0.45%	106.75%	1,042	1,171	1
383	Kansas	Solid Waste Management	3,704	955	955	0.02%	3,704	3628467	3,418	35	8.36%	55.73%	836	1,074	1
384	Kansas	Other & Unallocable	39,403	2,183	2,182	0.04%	39,403	2.4148E8	7,379	39	434.00%	210.60%	1,794	2,572	1
385	Kansas	Water Supply	10,076	1,933	1,930	0.15%	10,076	7741106	3,642	55	176.65%	76.40%	1,736	2,130	1
386	Kansas	Electric Power	2,077	1,054	1,054	(0.02%)	2,077	378,153	966	22	115.05%	63.67%	964	1,143	1
387	Kansas	Gas Supply	163	57	57	(0.32%)	163	27,623	74	6	120.54%	224.46%	32	82	1
388	Kansas	Transit	14	277	276	0.53%	14	108	2	1	702.78%	605.29%	270	285	1
389	Kansas	Elementary and Secondary - Other Total	2621786	19,814	19,832	(0.09%)	2621786	2.678E11	934,781	55	180.47%	55.36%	16,641	22,988	1
390	Kansas	Fire - Other	681	166	153	8.61%	681	90,514	207	2	228.56%	145.22%	115	217	1
391	Kansas	Police-Other	9,742	1,819	1,819	0.00%	9,742	6049362	2,114	29	360.88%	116.35%	1,626	2,012	1
392	Kentucky	Airports	26	617	617	0.05%	26	312	6	1	304.52%	278.62%	607	627	1
393	Kentucky	Correction	246,574	3,479	3,479	0.01%	246,574	4.3781E9	61,492	27	300.99%	107.60%	2,506	4,453	1
394	Kentucky	Elementary and Secondary - Instruction	71346986	62,830	62,843	(0.02%)	71346986	1.231E13	1320423	33	5303.34%	265.67%	46,275	79,386	1
395	Kentucky	Financial Administration	45,643	1,689	1,689	0.02%	45,643	6.3604E8	22,901	54	99.30%	110.12%	1,271	2,108	1
396	Kentucky	Firefighters	812,749	3,711	3,711	(0.01%)	812,749	3.189E13	426,498	35	90.56%	1324.07%	1,944	5,478	1
397	Kentucky	Judical & Legal	8,703	967	967	(0.03%)	8,703	32713566	3,565	25	144.11%	160.42%	784	1,150	1
398	Kentucky	Other Government Administration	108,313	2,378	2,376	0.07%	108,313	4.6648E9	37,506	49	188.79%	182.10%	1,733	3,023	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
399	Kentucky	Health	398,949	5,187	5,187	(0.01%)	398,949	1.392E10	91,739	27	334.87%	128.60%	3,949	6,425	1
400	Kentucky	Hospitals	173,295	4,150	4,150	(0.00%)	173,295	2.161E9	22,888	2	657.13%	203.10%	3,334	4,966	1
401	Kentucky	Streets & Highways	133,095	2,977	2,975	0.06%	133,095	1.7466E9	33,993	55	291.53%	122.94%	2,262	3,692	1
402	Kentucky	Housing & Community Development (Local)	11,829	912	913	(0.10%)	11,829	95401995	5,823	8	103.14%	167.74%	699	1,125	1
403	Kentucky	Local Libraries	110,749	1,338	1,341	(0.25%)	110,749	1.0935E9	15,047	9	636.02%	219.77%	685	1,990	1
404	Kentucky	Natural Resources	63,303	238	189	25.8%	63,303	1.064E11	37,795	1	67.49%	862.97%	0	731	1
405	Kentucky	Parks & Recreation	5,189	1,562	1,562	0.00%	5,189	8542476	3,531	24	46.95%	82.78%	1,421	1,703	1
406	Kentucky	Police Protection - Officers	156,086	6,337	6,334	0.05%	156,086	3.609E8	28,850	60	441.02%	65.85%	5,563	7,111	1
407	Kentucky	Welfare	4,979	287	287	0.04%	4,979	28243484	2,520	6	97.56%	210.87%	149	425	1
408	Kentucky	Sewerage	12,864	1,722	1,722	(0.00%)	12,864	40903861	10,437	20	23.26%	61.28%	1,500	1,944	1
409	Kentucky	Solid Waste Management	23,031	1,291	1,291	(0.02%)	23,031	75693704	8,657	28	166.03%	100.49%	993	1,588	1
410	Kentucky	Water Transport & Terminals	5,268	82	71	15.4%	5,268	8774807	1,033	1	410.16%	286.88%	0	224	1
411	Kentucky	Other & Unallocable	39,289	2,044	2,046	(0.10%)	39,289	1.6444E9	24,612	35	59.63%	164.76%	1,655	2,432	1
412	Kentucky	Water Supply	162,361	2,727	2,725	0.07%	162,361	2.9661E9	33,836	28	379.85%	160.96%	1,937	3,517	1
413	Kentucky	Electric Power	2,584	774	774	(0.02%)	2,584	1648001	1,080	5	139.29%	118.86%	674	873	1
414	Kentucky	Gas Supply	1,705	140	140	(0.30%)	1,705	1772937	1,246	3	36.78%	106.83%	59	221	1
415	Kentucky	Transit	8,979	349	337	3.46%	8,979	4.0377E8	7,407	1	21.23%	271.30%	163	534	1
416	Kentucky	Elementary and Secondary - Other Total	33515421	40,121	40,113	0.02%	33515421	1.89E13	2548588	33	1215.06%	170.58%	28,774	51,468	1
417	Kentucky	Fire - Other	698	121	121	0.03%	698	1627545	583	5	19.64%	218.83%	69	173	1
418	Kentucky	Police-Other	8,083	891	890	0.06%	8,083	7769207	3,277	31	146.63%	85.05%	714	1,067	1
419	Louisiana	Airports	1,515	413	413	(0.02%)	1,515	2439535	751	4	101.74%	207.98%	337	489	1
420	Louisiana	Correction	548,662	5,857	5,847	0.17%	548,662	1.074E12	301,903	19	81.73%	343.24%	4,405	7,309	1
421	Louisiana	Elementary and Secondary - Instruction	92460134	63,902	63,892	0.02%	92460134	6.486E13	3496712	18	2544.20%	230.32%	45,055	82,749	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
422	Louisiana	Financial Administration	152,503	3,495	3,492	0.09%	152,503	1.897E11	69,790	31	118.52%	624.08%	2,730	4,261	1
423	Louisiana	Firefighters	122,933	4,605	4,605	0.00%	122,933	9.3811E8	33,162	13	270.70%	92.36%	3,918	5,292	1
424	Louisiana	Judical & Legal	102,043	5,422	5,417	0.09%	102,043	1.685E11	38,010	25	168.46%	1079.86%	4,796	6,048	1
425	Louisiana	Other Government Administration	185,198	2,674	2,676	(0.09%)	185,198	2.547E10	109,188	28	69.61%	146.18%	1,830	3,517	1
426	Louisiana	Health	28,337	1,492	1,491	0.06%	28,337	3.9773E8	9,724	12	191.40%	205.08%	1,162	1,822	1
427	Louisiana	Hospitals	947,663	16,478	16,480	(0.01%)	947,663	4.366E10	305,082	10	210.63%	68.49%	14,570	18,386	1
428	Louisiana	Streets & Highways	432,639	5,075	5,077	(0.03%)	432,639	3.727E11	239,065	32	80.97%	255.35%	3,786	6,365	1
429	Louisiana	Housing & Community Development (Local)	18,328	1,024	1,025	(0.05%)	18,328	3.0056E8	15,749	11	16.37%	110.08%	759	1,290	1
430	Louisiana	Local Libraries	32,192	2,131	2,130	0.06%	32,192	2.3376E8	9,528	15	237.89%	160.47%	1,780	2,483	1
431	Louisiana	Natural Resources	6,972	903	903	(0.00%)	6,972	7958366	756	4	821.91%	373.01%	739	1,067	1
432	Louisiana	Parks & Recreation	34,660	2,849	2,847	0.08%	34,660	1.68E11	20,616	18	68.12%	1988.23%	2,484	3,214	1
433	Louisiana	Police Protection - Officers	841,727	11,635	11,633	0.02%	841,727	3.311E11	200,223	33	320.39%	287.39%	9,837	13,433	1
434	Louisiana	Welfare	4,050	631	631	0.02%	4,050	1780829	707	4	472.53%	188.63%	506	756	1
435	Louisiana	Sewerage	73,745	1,834	1,832	0.11%	73,745	1.751E11	44,452	17	65.90%	941.47%	1,302	2,366	1
436	Louisiana	Solid Waste Management	34,413	931	935	(0.40%)	34,413	4.4605E9	21,090	11	63.18%	316.68%	568	1,295	1
437	Louisiana	Water Transport & Terminals	5,390	319	318	0.19%	5,390	5553308	572	3	841.82%	411.74%	175	462	1
438	Louisiana	Other & Unallocable	60,074	3,016	3,016	0.00%	60,074	1.682E11	25,146	24	138.90%	1630.93%	2,536	3,496	1
439	Louisiana	Water Supply	115,900	1,984	1,980	0.21%	115,900	1.827E11	71,003	24	63.23%	602.00%	1,317	2,651	1
440	Louisiana	Electric Power	14,817	603	603	0.07%	14,817	74275497	5,996	4	147.12%	143.74%	365	842	1
441	Louisiana	Gas Supply	33,303	337	335	0.49%	33,303	1.682E11	27,140	7	22.71%	1511.08%	0	694	1
442	Louisiana	Transit	1,829	345	344	0.35%	1,829	814,009	57	2	3101.31%	1579.26%	261	429	1
443	Louisiana	Elementary and Secondary - Other Total	21601583	29,226	29,228	(0.01%)	21601583	4.899E12	772,293	17	2697.07%	286.61%	20,116	38,335	1
444	Louisiana	Fire - Other	214	98	98	0.01%	214	13,678	139	5	54.05%	84.06%	69	127	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
445	Louisiana	Police-Other	70,156	3,048	3,043	0.15%
446	Maine	Airports	127	152	150	1.35%
447	Maine	Correction	34,580	725	724	0.10%
448	Maine	Elementary and Secondary - Instruction	4036790	17,629	17,629	(0.00%)
449	Maine	Financial Administration	21,365	916	919	(0.22%)
450	Maine	Firefighters	3,477	1,089	1,088	0.12%
451	Maine	Judical & Legal	1,367	161	161	0.04%
452	Maine	Other Government Administration	24,532	834	834	0.04%
453	Maine	Health	602	138	138	(0.32%)
454	Maine	Streets & Highways	32,184	1,519	1,521	(0.08%)
455	Maine	Housing & Community Development (Local)	1,508	412	412	0.01%
456	Maine	Local Libraries	990	208	208	(0.03%)

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
445	70,156	1.696E11	36,609	23	91.63%	1124.84%	2,528	3,567	1
446	127	2,745	17	2	627.65%	300.31%	130	174	1
447	34,580	1.1493E8	2,859	6	1109.36%	374.92%	360	1,089	1
448	4036790	6.287E11	376,389	32	972.51%	210.67%	13,691	21,567	1
449	21,365	4.3048E8	15,143	38	41.09%	137.01%	630	1,203	1
450	3,477	1884084	1,616	16	115.18%	84.94%	974	1,205	1
451	1,367	68,656	57	6	2300.26%	460.17%	89	234	1
452	24,532	3.7778E9	17,477	34	40.37%	351.69%	527	1,141	1
453	602	748,706	408	3	47.57%	212.25%	89	186	1
454	32,184	3.1008E8	23,469	33	37.13%	75.03%	1,168	1,871	1
455	1,508	227,083	313	8	381.69%	152.26%	336	488	1
456	990	490,371	995	10	( 0.47%)	70.39%	146	270	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
457	Maine	Natural Resources	600	40	33	22.5%
458	Maine	Parks & Recreation	1,487	348	348	0.12%
459	Maine	Police Protection - Officers	22,804	1,834	1,834	0.02%
460	Maine	Welfare	18	306	305	0.22%
461	Maine	Sewerage	3,033	497	497	0.10%
462	Maine	Solid Waste Management	3,091	379	380	(0.23%)
463	Maine	Water Transport & Terminals	128	13	12	11.5%
464	Maine	Other & Unallocable	9,425	487	487	0.07%
465	Maine	Water Supply	3,038	595	595	(0.07%)
466	Maine	Electric Power	734	39	17	129%
467	Maine	Transit	11,517	184	83	121%
468	Maine	Elementary and Secondary - Other Total	481,700	5,487	5,486	0.02%

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
457	600	133,318	125	1	377.77%	290.97%	0	88	1
458	1,487	4521994	1,381	15	7.71%	154.01%	273	424	1
459	22,804	24406262	6,614	29	244.81%	74.70%	1,538	2,130	1
460	18	370	9	2	110.07%	219.79%	298	315	1
461	3,033	53108883	1,561	21	94.36%	466.95%	390	605	1
462	3,091	3812028	2,056	18	50.33%	94.94%	270	488	1
463	128	40,491	98	2	31.04%	206.29%	0	36	1
464	9,425	7769106	2,345	11	301.97%	118.88%	297	677	1
465	3,038	698,814	615	17	393.98%	135.92%	487	703	1
466	734	29,441	12	1	6186.56%	1469.68%	0	92	1
467	11,517	27707786	767	1	1401.64%	686.35%	0	394	1
468	481,700	1.252E10	52,294	32	821.13%	213.98%	4,126	6,847	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
469	Maine	Fire - Other	99	51	49	3.41%
470	Maine	Police-Other	1,444	367	367	0.00%
471	Maryland	Airports	113	21	21	0.03%
472	Maryland	Correction	56,643	3,620	3,620	0.00%
473	Maryland	Elementary and Secondary - Instruction	9450527	82,764	82,766	(0.00%)
474	Maryland	Higher Education - Other	100,473	5,589	5,590	(0.01%)
475	Maryland	Higher Education - Instructional	22,767	2,426	2,426	(0.01%)
476	Maryland	Financial Administration	36,534	2,166	2,167	(0.05%)
477	Maryland	Firefighters	23,529	6,151	6,150	0.02%
478	Maryland	Judical & Legal	10,593	3,200	3,200	(0.00%)
479	Maryland	Other Government Administration	116,302	3,178	3,185	(0.20%)
480	Maryland	Health	32,700	4,155	4,155	0.00%

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
469	99	29,993	74	2	34.75%	235.45%	31	70	1
470	1,444	383,666	352	15	310.49%	176.02%	292	441	1
471	113	21,456	80	1	40.87%	182.07%	0	42	1
472	56,643	2.4708E8	4,520	5	1153.09%	347.74%	3,154	4,087	1
473	9450527	1.129E12	51,281	5	18328.9%	2072.15%	76,739	88,790	1
474	100,473	7.4528E8	13,006	2	672.53%	209.91%	4,968	6,211	1
475	22,767	40331122	2,631	2	765.43%	241.41%	2,130	2,721	1
476	36,534	2.1289E9	17,873	14	104.41%	258.16%	1,791	2,541	1
477	23,529	1.4023E8	8,902	3	164.33%	133.03%	5,851	6,452	1
478	10,593	6604255	622	5	1602.85%	413.11%	2,998	3,402	1
479	116,302	4.896E11	70,617	14	64.69%	990.85%	2,510	3,847	1
480	32,700	2.4272E8	5,477	5	497.06%	284.46%	3,801	4,510	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
481	Maryland	Streets & Highways	108,587	4,957	4,958	(0.03%)
482	Maryland	Housing & Community Development (Local)	27,254	2,342	2,342	(0.01%)
483	Maryland	Local Libraries	8,478	1,890	1,890	0.02%
484	Maryland	Natural Resources	7,288	491	491	0.09%
485	Maryland	Parks & Recreation	19,269	4,631	4,630	0.01%
486	Maryland	Police Protection - Officers	219,475	11,938	11,937	0.00%
487	Maryland	Welfare	4,067	3,250	3,250	(0.01%)
488	Maryland	Sewerage	30,861	3,136	3,136	0.01%
489	Maryland	Solid Waste Management	28,802	1,905	1,904	0.04%
490	Maryland	Other & Unallocable	95,047	4,122	4,122	0.01%
491	Maryland	Water Supply	26,103	2,169	2,168	0.03%
492	Maryland	Electric Power	5,360	82	80	1.94%

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
481	108,587	3.1548E9	30,049	13	261.36%	186.92%	4,311	5,603	1
482	27,254	79746197	3,556	9	666.37%	251.11%	2,018	2,665	1
483	8,478	3145505	902	4	840.06%	196.65%	1,710	2,071	1
484	7,288	2.5559E8	4,414	5	65.12%	362.24%	324	659	1
485	19,269	1.4095E8	5,263	10	266.15%	225.59%	4,358	4,903	1
486	219,475	2.8875E9	40,943	13	436.05%	131.24%	11,019	12,856	1
487	4,067	1.8358E8	2,409	4	68.87%	562.55%	3,125	3,375	1
488	30,861	1.5445E8	11,559	9	167.00%	107.52%	2,792	3,481	1
489	28,802	7.7371E8	12,420	11	131.89%	223.96%	1,572	2,237	1
490	95,047	2.0043E9	22,788	11	317.09%	196.46%	3,518	4,727	1
491	26,103	3.0192E8	11,150	8	134.10%	155.83%	1,852	2,485	1
492	5,360	15045822	1,906	2	181.15%	203.46%	0	225	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
493	Maryland	Transit	1,493	1,299	1,298	0.08%
494	Maryland	Elementary and Secondary - Other Total	1041961	27,441	27,441	(0.00%)
495	Maryland	Fire - Other	360	599	599	0.02%
496	Maryland	Police-Other	13,273	3,746	3,746	0.00%
497	Massachusetts	Airports	980	73	73	0.27%
498	Massachusetts	Elementary and Secondary - Instruction	87677899	104,449	104,438	0.01%
499	Massachusetts	Higher Education - Other	186	14	4	241%
500	Massachusetts	Higher Education - Instructional	3,953	63	31	103%
501	Massachusetts	Financial Administration	302,215	3,871	3,866	0.14%
502	Massachusetts	Firefighters	1115095	11,184	11,187	(0.03%)
503	Massachusetts	Judical & Legal	325	230	230	(0.06%)

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
493	1,493	203,598	82	2	1728.58%	552.57%	1,223	1,375	1
494	1041961	3.736E10	12,264	5	8396.09%	1576.11%	25,440	29,442	1
495	360	1894831	306	2	17.69%	449.61%	562	636	1
496	13,273	20232479	2,531	12	424.51%	177.75%	3,520	3,972	1
497	980	472,657	413	7	137.64%	166.64%	12	135	1
498	8767789 9	8.063E13	8332282	70	952.27%	107.77%	86,097	122,802	1
499	186	45	0	1	310817%	11205.4%	0	40	1
500	3,953	11994103	765	1	417.03%	452.99%	0	186	1
501	302,215	4.42E10	104,587	52	188.96%	201.01%	2,794	4,949	1
502	1115095	2.663E11	279,645	51	298.75%	184.53%	9,114	13,254	1
503	325	25,958	116	16	179.75%	138.68%	195	265	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
504	Massachusetts	Other Government Administration	276,181	3,330	3,330	(0.00%)
505	Massachusetts	Health	55,588	2,568	2,564	0.15%
506	Massachusetts	Streets & Highways	852,841	5,402	5,382	0.38%
507	Massachusetts	Housing & Community Development (Local)	449,144	4,124	4,129	(0.12%)
508	Massachusetts	Local Libraries	130,948	2,661	2,656	0.19%
509	Massachusetts	Natural Resources	8,691	219	215	1.67%
510	Massachusetts	Parks & Recreation	44,502	1,480	1,480	0.03%
511	Massachusetts	Police Protection - Officers	1666007	13,276	13,252	0.18%
512	Massachusetts	Welfare	36,530	1,539	1,540	(0.04%)
513	Massachusetts	Sewerage	75,626	1,457	1,458	(0.08%)
514	Massachusetts	Solid Waste Management	43,371	941	933	0.83%
515	Massachusetts	Water Transport & Terminals	1,334	39	38	1.45%

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
504	276,181	2.303E11	168,727	51	63.69%	284.44%	2,300	4,360	1
505	55,588	2.9657E9	36,599	47	51.88%	148.80%	2,106	3,030	1
506	852,841	1.242E12	510,798	52	66.96%	218.21%	3,592	7,212	1
507	449,144	6.4419E9	38,710	32	1060.28%	207.34%	2,810	5,437	1
508	130,948	1.989E10	58,835	48	122.57%	239.73%	1,952	3,370	1
509	8,691	1.241E8	6,087	14	42.80%	183.02%	36	401	1
510	44,502	3.7961E8	26,435	41	68.35%	73.71%	1,067	1,894	1
511	1666007	4.739E11	424,255	52	292.69%	162.26%	10,746	15,806	1
512	36,530	1.175E10	22,869	39	59.74%	474.02%	1,165	1,914	1
513	75,626	1.628E10	32,204	39	134.84%	396.17%	918	1,996	1
514	43,371	1.103E10	24,900	21	74.18%	421.70%	533	1,349	1
515	1,334	2903560	1,030	4	29.56%	165.51%	0	110	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias
516	Massachusetts	Other & Unallocable	398,476	4,256	4,256	0.01%
517	Massachusetts	Water Supply	150,605	2,954	2,952	0.07%
518	Massachusetts	Electric Power	109,016	1,011	1,010	0.08%
519	Massachusetts	Gas Supply	2,742	100	98	2.05%
520	Massachusetts	Transit	36,300	186	186	(0.06%)
521	Massachusetts	Elementary and Secondary - Other Total	6471256	26,083	26,101	(0.07%)
522	Massachusetts	Fire - Other	19,260	567	572	(0.94%)
523	Massachusetts	Police-Other	77,993	2,342	2,338	0.18%
524	Michigan	Airports	29,043	919	918	0.15%
525	Michigan	Correction	121,704	5,146	5,150	(0.07%)
526	Michigan	Elementary and Secondary - Instruction	1.0362E8	102,973	102,972	0.00%
527	Michigan	Higher Education - Other	4128288	5,530	5,530	(0.01%)

Obs	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
516	398,476	5.513E11	260,721	44	52.84%	284.79%	3,019	5,494	1
517	150,605	2.628E10	75,638	42	99.11%	214.34%	2,193	3,715	1
518	109,016	8.3041E9	88,343	9	23.40%	103.15%	364	1,658	1
519	2,742	4277417	997	2	175.03%	207.47%	0	203	1
520	36,300	7.7679E8	6,135	3	491.67%	454.28%	0	559	1
521	6471256	2.964E12	1747356	70	270.35%	98.53%	21,097	31,069	1
522	19,260	1.127E10	16,215	35	18.78%	654.61%	295	839	1
523	77,993	4.2576E9	52,096	44	49.71%	125.25%	1,795	2,890	1
524	29,043	7.6333E8	9,842	7	195.08%	280.71%	585	1,253	1
525	121,704	8.3242E8	9,820	25	1139.32%	293.80%	4,463	5,830	1
526	1.0362E8	4.031E13	9715046	75	966.58%	65.35%	83,021	122,924	1
527	4128288	2.066E12	2635747	7	56.63%	54.54%	1,547	9,512	1

**Results from 1000 Replicates**

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
528	Michigan	Higher Education - Instructional	1115426	2,964	2,964	0.01%	1115426
529	Michigan	Financial Administration	119,635	5,285	5,288	(0.07% )	119,635
530	Michigan	Firefighters	70,299	5,002	4,999	0.07%	70,299
531	Michigan	Judical & Legal	281,831	8,300	8,304	(0.05% )	281,831
532	Michigan	Other Government Administration	266,699	5,315	5,319	(0.08% )	266,699
533	Michigan	Health	779,951	8,157	8,155	0.03%	779,951
534	Michigan	Hospitals	660,707	6,592	6,589	0.05%	660,707
535	Michigan	Streets & Highways	428,366	8,298	8,298	0.00%	428,366
536	Michigan	Housing & Community Development (Local)	14,993	1,065	1,068	(0.32% )	14,993

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
528	2.084E11	878,101	7	27.03%	51.98%	894	5,034	1
529	4.7596E9	57,171	95	109.26%	120.67%	4,607	5,962	1
530	8.9824E8	42,190	46	66.63%	71.04%	4,483	5,522	1
531	2.4471E9	40,384	36	597.87%	122.49%	7,259	9,340	1
532	1.714E11	205,798	94	29.59%	201.18%	4,303	6,327	1
533	2.613E11	283,683	20	174.94%	180.18%	6,426	9,888	1
534	3.095E10	161,307	6	309.60%	109.07%	4,999	8,185	1
535	8.242E9	134,184	68	219.24%	67.66%	7,015	9,581	1
536	5.4705E8	12,616	29	18.85%	185.40%	825	1,305	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
537	Michigan	Local Libraries	235,469	2,396	2,395	0.06%	235,469
538	Michigan	Natural Resources	51,719	434	434	0.18%	51,719
539	Michigan	Parks & Recreation	10,889	2,133	2,132	0.03%	10,889
540	Michigan	Police Protection - Officers	377,552	14,658	14,663	(0.03% )	377,552
541	Michigan	Welfare	170,797	2,330	2,325	0.21%	170,797
542	Michigan	Sewerage	85,753	3,098	3,104	(0.20% )	85,753
543	Michigan	Solid Waste Management	34,341	998	999	(0.12% )	34,341
544	Michigan	Water Transport & Terminals	10,079	99	7	1320%	10,079
545	Michigan	Other & Unallocable	286,396	5,160	5,160	0.01%	286,396
546	Michigan	Water Supply	76,001	3,867	3,865	0.06%	76,001

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
537	1.218E10	41,592	30	466.14%	265.39%	1,445	3,348	1
538	1.09E10	29,547	15	75.04%	353.39%	0	880	1
539	37525997	5,318	52	104.78%	115.20%	1,928	2,337	1
540	5.0153E9	137,559	85	174.47%	51.48%	13,454	15,862	1
541	6.2182E9	86,747	20	96.89%	90.90%	1,520	3,140	1
542	4.8926E9	47,053	44	82.25%	148.66%	2,524	3,672	1
543	7.1027E9	26,591	16	29.15%	316.94%	635	1,361	1
544	10423280	205	1	4813.45%	1573.92%	0	296	1
545	1.23E11	143,110	77	100.12%	245.11%	4,112	6,209	1
546	2.2696E9	55,644	53	36.59%	85.62%	3,327	4,408	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
547	Michigan	Electric Power	17,550	734	735	(0.20% )	17,550
548	Michigan	Transit	233,857	4,149	4,148	0.04%	233,857
549	Michigan	Elementary and Secondary - Other Total	18592001	37,148	37,153	(0.01% )	18592001
550	Michigan	Fire - Other	546	466	467	(0.16% )	546
551	Michigan	Police-Other	20,848	3,188	3,190	(0.06% )	20,848
552	Minnesota	Airports	13	642	641	0.21%	13
553	Minnesota	Correction	174,325	4,549	4,549	0.01%	174,325
554	Minnesota	Elementary and Secondary - Instruction	86493505	63,960	63,961	(0.00% )	86493505

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
547	1.8012E8	10,358	8	69.43%	129.57%	474	993	1
548	7.4611E9	38,736	12	503.72%	222.99%	3,201	5,097	1
549	1.221E13	5659589	75	228.50%	61.74%	28,697	45,599	1
550	3910556	617	17	( 11.54%)	320.43%	420	512	1
551	26158459	6,963	60	199.41%	73.45%	2,905	3,471	1
552	171	6	1	102.61%	209.60%	635	649	1
553	1.6963E9	35,392	18	392.55%	116.37%	3,731	5,368	1
554	6.351E13	6853349	33	1162.06%	116.29%	45,731	82,188	1

Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
555	Minnesota	Financial Administration	115,690	4,696	4,698	(0.04% )	115,690
556	Minnesota	Firefighters	39	1,732	1,732	(0.01% )	39
557	Minnesota	Judical & Legal	19,999	2,170	2,170	0.00%	19,999
558	Minnesota	Other Government Administration	102,590	4,278	4,283	(0.11% )	102,590
559	Minnesota	Health	89,182	2,414	2,414	0.01%	89,182
560	Minnesota	Hospitals	164,312	3,804	3,741	1.69%	164,312
561	Minnesota	Streets & Highways	255,408	6,480	6,479	0.01%	255,408
562	Minnesota	Housing & Community Development (Local)	30,135	1,714	1,714	0.02%	30,135
563	Minnesota	Local Libraries	11,365	1,443	1,443	0.01%	11,365

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
555	2.6168E8	13,045	76	786.86%	124.01%	4,030	5,363	1
556	2,692	22	3	80.60%	239.51%	1,720	1,744	1
557	7211284	1,439	20	1289.79%	186.62%	1,893	2,447	1
558	9.7672E8	28,482	75	260.18%	109.73%	3,650	4,906	1
559	1.5854E9	23,754	19	275.44%	167.62%	1,829	3,000	1
560	2.023E10	205,021	3	( 19.86%)	69.37%	3,010	4,599	1
561	2.8076E9	54,660	87	367.26%	96.94%	5,489	7,470	1
562	1.4064E8	5,596	14	438.50%	211.91%	1,374	2,055	1
563	18838840	2,362	19	381.14%	183.75%	1,234	1,652	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
564	Minnesota	Natural Resources	38,558	760	760	(0.03% )	38,558
565	Minnesota	Parks & Recreation	2,366	3,064	3,063	0.03%	2,366
566	Minnesota	Police Protection - Officers	132,190	7,808	7,807	0.01%	132,190
567	Minnesota	Welfare	745,218	9,567	9,567	(0.00% )	745,218
568	Minnesota	Sewerage	5,076	1,043	1,043	(0.05% )	5,076
569	Minnesota	Solid Waste Management	17,367	834	834	0.01%	17,367
570	Minnesota	Water Transport & Terminals	11	33	33	1.03%	11
571	Minnesota	Other & Unallocable	34,992	2,769	2,766	0.10%	34,992
572	Minnesota	Water Supply	7,326	1,531	1,532	(0.06% )	7,326

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
564	3.927E8	11,810	19	226.49%	167.80%	375	1,145	1
565	3141204	1,531	44	54.49%	115.75%	2,969	3,159	1
566	3.1565E8	13,172	74	903.59%	134.88%	7,095	8,520	1
567	2.502E10	93,980	20	692.95%	168.30%	7,875	11,259	1
568	16977562	2,332	41	117.69%	176.72%	903	1,182	1
569	1.3515E8	8,080	21	114.94%	143.88%	576	1,092	1
570	0	0	1	.	.	27	40	1
571	1.5039E8	13,347	58	162.16%	91.88%	2,402	3,136	1
572	45019534	5,195	50	41.02%	129.15%	1,363	1,699	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
573	Minnesota	Electric Power	3,461	892	893	(0.09% )	3,461
574	Minnesota	Gas Supply	310	134	133	0.89%	310
575	Minnesota	Transit	5,924	381	381	(0.04% )	5,924
576	Minnesota	Elementary and Secondary - Other Total	10370650	19,967	19,967	0.00%	10370650
577	Minnesota	Fire - Other	1,357	125	124	0.61%	1,357
578	Minnesota	Police-Other	26,043	2,400	2,400	(0.00% )	26,043
579	Mississippi	Airports	1,607	138	138	0.14%	1,607
580	Mississippi	Correction	132,888	2,063	2,064	(0.05% )	132,888
581	Mississippi	Elementary and Secondary - Instruction	47658764	49,870	49,873	(0.01% )	47658764

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
573	7603560	2,827	18	22.44%	97.54%	777	1,008	1
574	256,954	280	2	10.76%	181.30%	100	169	1
575	23169784	2,055	6	188.23%	234.19%	230	532	1
576	6.784E12	1998970	33	418.80%	130.30%	13,655	26,279	1
577	1.8778E8	1,335	1	1.66%	1026.64%	53	197	1
578	25070485	3,639	41	615.67%	137.60%	2,084	2,716	1
579	225,576	147	4	994.28%	323.50%	60	217	1
580	2.687E9	58,880	18	125.69%	88.04%	1,349	2,778	1
581	1.212E13	3629189	34	1213.21%	95.92%	36,339	63,401	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
582	Mississippi	Higher Education - Other	2362310	3,415	3,417	(0.05% )	2362310
583	Mississippi	Higher Education - Instructional	1344936	2,561	2,562	(0.03% )	1344936
584	Mississippi	Financial Administration	94,310	2,347	2,348	(0.06% )	94,310
585	Mississippi	Firefighters	42,906	3,160	3,160	0.00%	42,906
586	Mississippi	Judical & Legal	53,767	1,956	1,956	(0.00% )	53,767
587	Mississippi	Other Government Administration	66,364	2,165	2,164	0.04%	66,364
588	Mississippi	Health	1,393	182	182	0.03%	1,393
589	Mississippi	Hospitals	561,770	16,260	16,260	0.00%	561,770
590	Mississippi	Streets & Highways	228,472	4,449	4,451	(0.05% )	228,472

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
582	8.85E11	1573809	5	50.10%	59.78%	403	6,428	1
583	3.081E11	856,547	5	57.02%	64.80%	288	4,834	1
584	8.5097E8	16,470	46	472.63%	177.12%	1,745	2,949	1
585	27673880	5,641	32	660.67%	93.26%	2,754	3,566	1
586	4.9224E8	21,742	47	147.30%	102.04%	1,501	2,410	1
587	1.214E10	36,858	53	80.05%	298.95%	1,660	2,670	1
588	201,834	281	9	394.97%	159.67%	109	255	1
589	7.1943E9	85,573	10	556.48%	99.12%	14,791	17,729	1
590	1.4198E9	41,488	51	450.69%	90.82%	3,512	5,386	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
591	Mississippi	Housing & Community Development (Local)	9,499	837	837	(0.00% )	9,499
592	Mississippi	Local Libraries	8,137	703	703	(0.01% )	8,137
593	Mississippi	Natural Resources	2,605	191	192	(0.49% )	2,605
594	Mississippi	Parks & Recreation	8,790	965	965	0.03%	8,790
595	Mississippi	Police Protection - Officers	181,678	5,978	5,978	(0.00%)	181,678
596	Mississippi	Welfare	49,719	323	324	(0.33%)	49,719
597	Mississippi	Sewerage	3,840	579	579	(0.01%)	3,840
598	Mississippi	Solid Waste Management	17,370	872	872	0.01%	17,370
599	Mississippi	Water Transport & Terminals	307	104	101	2.60%	307
600	Mississippi	Other & Unallocable	16,883	1,210	1,210	(0.01%)	16,883

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
591	1271156	764	16	1142.96%	147.53%	646	1,028	1
592	2154032	999	12	714.42%	146.89%	526	880	1
593	3273267	1,260	7	106.83%	143.63%	91	291	1
594	8702419	2,105	29	317.64%	140.15%	782	1,149	1
595	4.5346E8	19,972	58	809.65%	106.62%	5,142	6,813	1
596	5.3618E9	47,709	5	4.21%	153.48%	0	760	1
597	6734704	1,758	18	118.49%	147.65%	457	700	1
598	21295041	5,560	27	212.41%	83.00%	614	1,130	1
599	33,341	125	2	145.59%	146.17%	69	138	1
600	65497069	8,279	33	103.93%	97.76%	955	1,465	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
601	Mississippi	Water Supply	23,264	1,257	1,256	0.04%	23,264
602	Mississippi	Electric Power	10,943	434	434	0.01%	10,943
603	Mississippi	Gas Supply	3,045	189	189	0.21%	3,045
604	Mississippi	Transit	13	112	110	1.42%	13
605	Mississippi	Elementary and Secondary - Other Total	9826364	21,622	21,620	0.01%	9826364
606	Mississippi	Fire - Other	54	121	121	(0.01%)	54
607	Mississippi	Police-Other	31,854	1,553	1,553	(0.03%)	31,854
608	Missouri	Airports	187	1,175	1,175	(0.02%)	187
609	Missouri	Correction	101,186	2,981	2,981	(0.01%)	101,186
610	Missouri	Elementary and Secondary - Instruction	46085078	85,999	86,004	(0.01%)	46085078
611	Missouri	Higher Education - Other	986,098	3,203	3,204	(0.03%)	986,098
612	Missouri	Higher Education - Instructional	242,761	1,543	1,544	(0.08%)	242,761

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
601	1.8922E8	12,552	30	85.34%	109.59%	958	1,555	1
602	8120644	1,420	5	670.70%	200.70%	229	639	1
603	2647432	1,689	8	80.34%	96.36%	81	298	1
604	1	0	1	60017.8%	4761.31%	105	119	1
605	1.478E12	1175433	34	735.98%	103.43%	15,478	27,766	1
606	347	9	8	515.04%	212.71%	107	135	1
607	1.0338E8	10,019	39	217.95%	101.49%	1,203	1,902	1
608	2133791	143	4	30.61%	1018.85%	1,148	1,202	1
609	2.012E10	48,450	15	108.85%	292.80%	2,357	3,604	1
610	8.644E12	2871227	59	1505.07%	102.40%	72,693	99,305	1
611	2.725E11	592,060	3	66.55%	88.18%	1,257	5,149	1
612	1.394E10	140,320	3	73.00%	84.13%	577	2,508	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
613	Missouri	Financial Administration	138,064	3,625	3,626	(0.02%)	138,064	1.17E10	53,981	64	155.77%	200.42%	2,897	4,353	1
614	Missouri	Firefighters	133,906	5,777	5,773	0.06%	133,906	3.1359E9	28,074	31	376.98%	199.47%	5,059	6,494	1
615	Missouri	Judical & Legal	80,502	3,730	3,730	(0.01%)	80,502	2.9155E9	19,746	49	307.69%	273.45%	3,173	4,286	1
616	Missouri	Other Government Administration	103,704	3,372	3,369	0.10%	103,704	7.0214E9	44,547	68	132.80%	188.10%	2,741	4,004	1
617	Missouri	Health	209,732	3,131	3,132	(0.05%)	209,732	4.6548E9	45,048	26	365.57%	151.45%	2,233	4,028	1
618	Missouri	Hospitals	589,529	10,636	10,636	0.00%	589,529	4.824E10	335,773	7	75.57%	65.41%	9,131	12,141	1
619	Missouri	Streets & Highways	477,152	6,227	6,231	(0.07%)	477,152	1.797E11	205,500	74	132.19%	206.31%	4,873	7,580	1
620	Missouri	Housing & Community Development (Local)	118,257	1,124	1,117	0.62%	118,257	2.3828E9	15,711	7	652.68%	310.69%	450	1,798	1
621	Missouri	Local Libraries	78,848	1,966	1,968	(0.08%)	78,848	1.3893E9	17,407	11	352.96%	214.13%	1,416	2,517	1
622	Missouri	Natural Resources	60,391	402	393	2.23%	60,391	1.7357E9	21,414	1	182.01%	194.55%	0	883	1
623	Missouri	Parks & Recreation	12,492	2,763	2,762	0.05%	12,492	83520216	6,189	42	101.85%	147.66%	2,544	2,982	1
624	Missouri	Police Protection - Officers	326,157	11,944	11,948	(0.04%)	326,157	8.9841E9	80,344	75	305.95%	117.97%	10,824	13,063	1
625	Missouri	Welfare	278,325	2,355	2,356	(0.06%)	278,325	3.0086E9	23,162	12	1101.66%	236.81%	1,321	3,389	1
626	Missouri	Sewerage	24,396	2,242	2,240	0.11%	24,396	4.1559E9	15,553	31	56.86%	414.48%	1,936	2,549	1
627	Missouri	Solid Waste Management	2,538	726	725	0.08%	2,538	2305319	1,581	13	60.56%	96.05%	627	824	1
628	Missouri	Water Transport & Terminals	21,225	142	4	3460%	21,225	66017577	981	1	2064.08%	828.45%	0	428	1
629	Missouri	Other & Unallocable	70,767	3,672	3,672	(0.00%)	70,767	1.185E10	38,292	33	84.81%	284.26%	3,151	4,193	1
630	Missouri	Water Supply	142,355	3,174	3,183	(0.28%)	142,355	3.2949E9	36,567	39	289.30%	156.98%	2,435	3,914	1
631	Missouri	Electric Power	12,267	1,319	1,321	(0.12%)	12,267	2.7827E8	10,699	11	14.65%	155.91%	1,102	1,537	1
632	Missouri	Gas Supply	741	150	150	(0.19%)	741	365,447	577	4	28.33%	104.69%	96	203	1
633	Missouri	Transit	90	2,914	2,911	0.10%	90	13,163	40	1	123.01%	285.85%	2,895	2,932	1
634	Missouri	Elementary and Secondary - Other Total	8627937	36,383	36,378	0.01%	8627937	7.684E11	1157355	59	645.49%	75.74%	30,626	42,140	1
635	Missouri	Fire - Other	1,962	1,032	1,033	(0.11%)	1,962	27262104	1,590	8	23.44%	328.49%	945	1,119	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
636	Missouri	Police-Other	71,857	3,393	3,391	0.07%	71,857	8.7244E8	25,273	49	184.32%	116.87%	2,868	3,919	1
637	Montana	Airports	31	117	116	1.04%	31	2,013	17	1	85.64%	266.96%	106	128	1
638	Montana	Correction	1,607	639	639	(0.02%)	1,607	399,806	305	8	426.66%	207.20%	560	717	1
639	Montana	Elementary and Secondary - Instruction	2028224	13,411	13,412	(0.01%)	2028224	8.261E10	150,141	36	1250.88%	191.44%	10,620	16,202	1
640	Montana	Higher Education - Other	54,598	298	191	56.2%	54,598	6.0757E8	12,970	2	320.95%	190.04%	0	756	1
641	Montana	Higher Education - Instructional	16,159	158	101	56.1%	16,159	1.0093E8	5,727	2	182.15%	175.42%	0	407	1
642	Montana	Financial Administration	3,321	712	712	0.05%	3,321	892,442	717	31	363.08%	131.73%	599	825	1
643	Montana	Firefighters	1,354	627	627	0.01%	1,354	2817231	620	7	118.48%	270.89%	555	699	1
644	Montana	Judical & Legal	2,468	764	764	0.02%	2,468	103,606	223	21	1005.78%	144.22%	667	862	1
645	Montana	Other Government Administration	4,000	689	689	(0.04%)	4,000	12723268	1,062	25	276.49%	335.77%	565	813	1
646	Montana	Health	1,354	798	798	0.02%	1,354	116,600	267	13	407.56%	128.02%	726	870	1
647	Montana	Hospitals	5,373	656	625	4.96%	5,373	896,764	47	1	11215.9%	1994.34%	512	800	1
648	Montana	Streets & Highways	13,156	1,232	1,231	0.07%	13,156	3148328	1,177	31	1017.47%	150.71%	1,007	1,457	1
649	Montana	Housing & Community Development (Local)	458	192	192	(0.04%)	458	26,717	43	3	974.43%	383.07%	150	234	1
650	Montana	Local Libraries	238	189	189	(0.05%)	238	10,375	134	13	77.18%	75.81%	159	219	1
651	Montana	Natural Resources	1,284	174	174	(0.02%)	1,284	344,658	336	16	282.25%	174.76%	104	244	1
652	Montana	Parks & Recreation	260	280	280	(0.03%)	260	16,105	84	10	207.41%	150.24%	248	312	1
653	Montana	Police Protection - Officers	8,036	1,498	1,498	0.01%	8,036	583,763	813	31	888.31%	93.96%	1,322	1,674	1
654	Montana	Welfare	5,261	388	388	(0.07%)	5,261	5494586	1,243	6	323.35%	188.62%	246	530	1
655	Montana	Sewerage	661	267	267	0.01%	661	89,558	373	15	77.38%	80.26%	217	317	1
656	Montana	Solid Waste Management	1,318	340	340	0.03%	1,318	267,544	622	17	112.00%	83.21%	269	411	1
657	Montana	Other & Unallocable	12,679	711	711	0.02%	12,679	1.8613E8	4,913	22	158.04%	277.66%	490	931	1
658	Montana	Water Supply	2,204	375	375	0.03%	2,204	1616555	882	18	149.90%	144.16%	283	467	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
659	Montana	Electric Power	167	13	3	331%	167
660	Montana	Transit	116	156	153	1.91%	116
661	Montana	Elementary and Secondary - Other Total	256,216	4,208	4,208	0.01%	256,216
662	Montana	Fire - Other	40	60	58	3.18%	40
663	Montana	Police-Other	1,609	510	510	(0.01%)	1,609
664	Nebraska	Airports	3,075	281	269	4.44%	3,075
665	Nebraska	Correction	14,438	1,408	1,408	0.01%	14,438
666	Nebraska	Elementary and Secondary - Instruction	13604578	32,302	32,322	(0.06%)	13604578
667	Nebraska	Higher Education - Other	617,322	1,515	1,512	0.19%	617,322
668	Nebraska	Higher Education - Instructional	198,882	1,023	1,021	0.16%	198,882
669	Nebraska	Financial Administration	19,265	1,455	1,456	(0.07%)	19,265
670	Nebraska	Firefighters	8,732	1,332	1,240	7.45%	8,732

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
659	41	0	1	280723%	10748.4%	0	38	1
660	9,338	38	1	206.88%	255.81%	135	177	1
661	1.2602E9	38,778	34	560.72%	91.54%	3,216	5,200	1
662	3,655	23	1	74.15%	265.12%	47	72	1
663	152,300	580	17	177.42%	67.28%	431	589	1
664	2838891	468	1	556.62%	359.75%	172	390	1
665	7455370	3,003	18	380.82%	90.93%	1,173	1,644	1
666	3.449E12	896,116	26	1418.17%	207.24%	25,073	39,532	1
667	2.726E10	113,851	2	442.22%	145.01%	0	3,055	1
668	2.772E9	36,665	2	442.43%	143.60%	149	1,897	1
669	20387154	2,270	42	748.74%	198.92%	1,183	1,727	1
670	175,425	5	1	167660%	8047.21%	1,149	1,516	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
671	Nebraska	Judical & Legal	9,600	1,149	1,149	(0.02%)	9,600
672	Nebraska	Other Government Administration	25,905	1,416	1,419	(0.20%)	25,905
673	Nebraska	Health	126	408	407	0.17%	126
674	Nebraska	Hospitals	141,695	3,497	3,498	(0.02%)	141,695
675	Nebraska	Streets & Highways	78,846	2,781	2,779	0.06%	78,846
676	Nebraska	Housing & Community Development (Local)	15,401	588	587	0.18%	15,401
677	Nebraska	Local Libraries	420	370	372	(0.44%)	420
678	Nebraska	Natural Resources	34,200	555	555	(0.02%)	34,200
679	Nebraska	Parks & Recreation	238	602	602	(0.02%)	238
680	Nebraska	Police Protection - Officers	13,456	3,095	3,094	0.02%	13,456
681	Nebraska	Welfare	440	1,226	1,226	(0.01%)	440
682	Nebraska	Sewerage	1,072	482	483	(0.28%)	1,072

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
671	5221792	1,155	29	731.29%	197.87%	957	1,341	1
672	64089650	5,164	51	401.67%	155.03%	1,101	1,732	1
673	4,865	45	2	180.74%	155.19%	386	430	1
674	3.681E8	20,626	12	586.98%	93.02%	2,760	4,235	1
675	7.7724E8	18,019	61	337.56%	154.72%	2,230	3,331	1
676	37524853	3,747	4	310.98%	163.47%	345	831	1
677	6809413	401	11	4.67%	650.37%	330	411	1
678	1.0246E8	3,424	15	898.78%	295.60%	192	917	1
679	81,472	170	12	40.30%	168.18%	572	632	1
680	5312546	2,805	52	379.64%	82.16%	2,867	3,322	1
681	103,636	204	9	115.76%	157.69%	1,185	1,267	1
682	7753032	1,028	20	4.26%	270.80%	417	546	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
683	Nebraska	Solid Waste Management	182	270	270	0.07%	182
684	Nebraska	Other & Unallocable	3,893	862	862	0.01%	3,893
685	Nebraska	Water Supply	3,901	947	948	(0.14%)	3,901
686	Nebraska	Electric Power	20,296	6,577	6,578	(0.01%)	20,296
687	Nebraska	Gas Supply	51	461	460	0.18%	51
688	Nebraska	Transit	33	395	394	0.24%	33
689	Nebraska	Elementary and Secondary - Other Total	1782407	9,898	9,885	0.13%	1782407
690	Nebraska	Police-Other	3,724	839	839	(0.03%)	3,724
691	Nevada	Airports	55	1,344	1,342	0.18%	55
692	Nevada	Correction	4,948	2,671	2,671	0.00%	4,948
693	Nevada	Financial Administration	4,275	1,332	1,332	0.00%	4,275
694	Nevada	Firefighters	5,341	2,306	2,306	0.01%	5,341

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
683	73,043	151	6	20.34%	178.59%	244	297	1
684	10486465	1,213	25	221.01%	267.01%	740	984	1
685	14383322	2,767	27	40.96%	137.05%	824	1,069	1
686	8648756	2,097	29	867.87%	140.24%	6,298	6,856	1
687	7,281	18	2	177.72%	466.29%	447	475	1
688	176	10	2	239.20%	134.50%	384	406	1
689	4.02E11	513,706	26	246.97%	123.42%	7,281	12,515	1
690	714,309	875	18	325.73%	96.62%	719	958	1
691	49	0	1	22016.5%	2837.45%	1,330	1,359	1
692	1324352	366	7	1250.81%	314.16%	2,533	2,809	1
693	9350933	676	9	532.82%	452.66%	1,204	1,460	1
694	11932489	1,907	4	180.10%	181.15%	2,163	2,449	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
695	Nevada	Judical & Legal	15,524	2,711	2,711	0.00%	15,524
696	Nevada	Other Government Administration	7,902	1,598	1,598	(0.01%)	7,902
697	Nevada	Health	1,273	824	824	0.01%	1,273
698	Nevada	Hospitals	105,043	3,862	3,862	(0.01%)	105,043
699	Nevada	Streets & Highways	7,625	1,040	1,040	0.01%	7,625
700	Nevada	Housing & Community Development (Local)	251	500	497	0.52%	251
701	Nevada	Local Libraries	2,468	606	606	(0.02%)	2,468
702	Nevada	Natural Resources	2,262	142	142	(0.04%)	2,262
703	Nevada	Parks & Recreation	3,110	1,837	1,837	0.01%	3,110
704	Nevada	Police Protection - Officers	23,458	4,581	4,581	0.00%	23,458
705	Nevada	Welfare	483	743	743	0.00%	483
706	Nevada	Sewerage	1,597	840	840	0.02%	1,597

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
695	26999592	1,634	8	849.91%	317.95%	2,467	2,955	1
696	5248405	1,354	8	483.38%	169.14%	1,424	1,772	1
697	702,779	425	5	199.30%	197.04%	754	894	1
698	5.1847E8	3,931	3	2572.29%	579.26%	3,226	4,497	1
699	15708566	1,569	10	385.86%	252.56%	869	1,211	1
700	11,834	63	2	300.69%	173.64%	469	531	1
701	14929383	940	6	162.46%	410.94%	509	703	1
702	32149105	1,636	5	38.25%	346.57%	49	235	1
703	6255212	1,021	9	204.69%	245.03%	1,728	1,947	1
704	16003913	2,010	8	1067.26%	199.06%	4,281	4,881	1
705	816,957	275	6	75.34%	328.36%	700	786	1
706	790,139	467	6	241.80%	190.29%	762	919	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
707	Nevada	Solid Waste Management	834	89	88	0.62%	834
708	Nevada	Other & Unallocable	14,127	1,576	1,576	0.02%	14,127
709	Nevada	Water Supply	4,504	2,096	2,096	0.01%	4,504
710	Nevada	Electric Power	647	96	94	2.62%	647
711	Nevada	Fire - Other	31	235	235	0.01%	31
712	Nevada	Police-Other	3,476	2,260	2,260	(0.02%)	3,476
713	New Hampshire	Elementary and Secondary - Instruction	6896927	24,856	24,863	(0.03%)	6896927
714	New Hampshire	Financial Administration	5,537	787	787	(0.02%)	5,537
715	New Hampshire	Firefighters	3,780	1,486	1,487	(0.04%)	3,780
716	New Hampshire	Judical & Legal	11	225	224	0.60%	11
717	New Hampshire	Other Government Administration	4,219	620	619	0.09%	4,219
718	New Hampshire	Health	77	109	107	1.44%	77

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
707	1051008	376	3	121.87%	272.74%	32	145	1
708	24598478	2,269	8	522.51%	218.54%	1,343	1,809	1
709	7043949	1,305	6	245.07%	203.35%	1,965	2,228	1
710	290,189	216	2	200.29%	249.83%	47	146	1
711	601	18	2	74.68%	139.10%	224	246	1
712	2147005	497	8	599.83%	295.01%	2,144	2,375	1
713	3.956E13	952,877	36	623.80%	660.03%	19,709	30,003	1
714	3552735	1,513	30	265.91%	124.55%	641	933	1
715	1361405	1,374	18	175.06%	84.89%	1,366	1,607	1
716	0	0	1	107855%	6726.44%	219	232	1
717	4305683	1,616	26	161.05%	128.38%	492	747	1
718	3,169	48	2	60.28%	117.01%	91	126	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
719	New Hampshire	Streets & Highways	29,099	1,458	1,457	0.08%	29,099
720	New Hampshire	Housing & Community Development (Local)	272	330	330	(0.00%)	272
721	New Hampshire	Local Libraries	909	361	361	0.02%	909
722	New Hampshire	Natural Resources	62	22	22	0.08%	62
723	New Hampshire	Parks & Recreation	398	264	264	0.01%	398
724	New Hampshire	Police Protection - Officers	29,458	2,338	2,335	0.11%	29,458
725	New Hampshire	Welfare	29	1,791	1,791	(0.00%)	29
726	New Hampshire	Sewerage	553	332	332	(0.00%)	553
727	New Hampshire	Solid Waste Management	1,804	333	334	(0.21%)	1,804
728	New Hampshire	Other & Unallocable	734	527	527	0.01%	734
729	New Hampshire	Water Supply	684	341	341	0.11%	684
730	New Hampshire	Electric Power	5	2	2	7.34%	5

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
719	1.2757E8	7,920	33	267.39%	142.60%	1,124	1,792	1
720	1,191	19	7	1325.67%	180.81%	298	362	1
721	126,731	623	20	45.87%	57.14%	302	420	1
722	5,613	27	1	126.73%	273.19%	7	37	1
723	18,297	165	18	141.32%	82.07%	225	303	1
724	24930916	3,762	33	683.03%	132.72%	2,001	2,674	1
725	1,480	17	2	72.42%	226.21%	1,780	1,802	1
726	497,505	440	10	25.83%	160.36%	286	378	1
727	448,188	896	21	101.37%	74.73%	250	416	1
728	295,591	382	12	91.94%	142.17%	474	580	1
729	87,210	325	12	110.23%	90.73%	290	393	1
730	0	0	1	3.424E7%	116876%	0	6	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
731	New Hampshire	Elementary and Secondary - Other Total	439,196	5,335	5,334	0.03%	439,196
732	New Hampshire	Fire - Other	8	102	102	0.09%	8
733	New Hampshire	Police-Other	1,286	613	613	(0.02%)	1,286
734	New Jersey	Elementary and Secondary - Instruction	3.3107E8	146,412	146,487	(0.05%)	3.3107E8
735	New Jersey	Financial Administration	235,817	4,611	4,619	(0.17%)	235,817
736	New Jersey	Firefighters	185,880	6,339	6,338	0.01%	185,880
737	New Jersey	Judical & Legal	45,234	6,090	6,092	(0.03%)	45,234
738	New Jersey	Other Government Administration	296,865	5,450	5,460	(0.18%)	296,865
739	New Jersey	Health	17,008	3,110	3,107	0.10%	17,008
740	New Jersey	Streets & Highways	624,357	8,083	8,099	(0.20%)	624,357
741	New Jersey	Housing & Community Development (Local)	56,864	2,853	2,855	(0.08%)	56,864
742	New Jersey	Local Libraries	52,150	3,313	3,309	0.12%	52,150

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
731	3.797E10	78,015	34	462.96%	249.76%	4,037	6,634	1
732	66	3	2	169.18%	259.92%	96	108	1
733	127,919	324	20	297.02%	110.45%	543	683	1
734	9.186E15	27468979	53	1105.26%	348.91%	110,749	182,075	1
735	6.169E10	129,393	69	82.25%	191.95%	3,659	5,563	1
736	8.7438E8	42,644	35	335.89%	69.34%	5,494	7,184	1
737	2.7064E8	18,410	64	145.71%	89.36%	5,673	6,507	1
738	7.705E10	110,226	69	169.33%	251.83%	4,382	6,518	1
739	54024373	10,987	36	54.80%	66.90%	2,854	3,365	1
740	4.061E10	225,910	63	176.37%	89.20%	6,534	9,632	1
741	1.484E10	27,355	25	107.88%	445.35%	2,385	3,320	1
742	1.9967E8	30,656	34	70.12%	46.09%	2,865	3,760	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
743	New Jersey	Natural Resources	7,921	408	409	(0.16%)	7,921
744	New Jersey	Parks & Recreation	50,794	3,945	3,940	0.13%	50,794
745	New Jersey	Police Protection - Officers	2829111	22,138	22,128	0.05%	2829111
746	New Jersey	Welfare	3,888	8,986	8,986	(0.00%)	3,888
747	New Jersey	Sewerage	164,412	4,086	4,086	0.01%	164,412
748	New Jersey	Solid Waste Management	178,503	3,853	3,847	0.16%	178,503
749	New Jersey	Water Transport & Terminals	486	8	9	(6.91%)	486
750	New Jersey	Other & Unallocable	249,754	6,729	6,721	0.11%	249,754
751	New Jersey	Water Supply	79,058	1,826	1,821	0.27%	79,058
752	New Jersey	Electric Power	23,612	248	175	41.6%	23,612
753	New Jersey	Transit	111	572	572	0.05%	111
754	New Jersey	Elementary and Secondary - Other Total	30811835	42,760	42,776	(0.04%)	30811835

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
743	71811971	3,183	2	148.88%	266.25%	234	583	1
744	3.6039E8	31,753	54	59.97%	59.79%	3,503	4,387	1
745	5.75E11	379,605	69	645.28%	199.75%	18,841	25,435	1
746	1758682	1,247	23	211.69%	106.31%	8,863	9,108	1
747	5.5378E9	52,868	53	210.99%	140.76%	3,291	4,881	1
748	6.0544E9	114,544	40	55.84%	67.93%	3,025	4,681	1
749	3132234	433	1	12.37%	409.20%	0	52	1
750	1.128E10	189,702	46	31.66%	55.98%	5,749	7,708	1
751	1.4686E9	56,247	27	40.55%	68.13%	1,275	2,377	1
752	6.8304E8	8,047	1	193.44%	324.80%	0	549	1
753	51,476	115	2	( 2.74%)	198.14%	552	593	1
754	2.688E13	4137483	53	644.70%	125.32%	31,881	53,640	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
755	New Jersey	Fire - Other	8,574	722	722	(0.01%)	8,574
756	New Jersey	Police-Other	100,603	4,064	4,059	0.14%	100,603
757	New Mexico	Airports	128	310	310	(0.01%)	128
758	New Mexico	Correction	86,972	2,396	2,395	0.04%	86,972
759	New Mexico	Elementary and Secondary - Instruction	9171919	31,896	31,901	(0.01%)	9171919
760	New Mexico	Higher Education - Other	583,341	1,869	1,867	0.09%	583,341
761	New Mexico	Higher Education - Instructional	60,256	658	658	0.05%	60,256
762	New Mexico	Financial Administration	38,783	2,115	2,115	0.00%	38,783
763	New Mexico	Firefighters	9,607	2,226	2,226	(0.02%)	9,607
764	New Mexico	Judical & Legal	1,208	381	381	(0.03%)	1,208
765	New Mexico	Other Government Administration	30,856	1,645	1,645	(0.01%)	30,856
766	New Mexico	Health	3,353	525	525	0.02%	3,353

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
755	2.0932E8	6,036	23	42.05%	239.69%	540	903	1
756	1.3382E9	42,511	59	136.65%	86.05%	3,442	4,686	1
757	4,800	44	6	190.47%	157.37%	288	332	1
758	2.2494E8	8,295	9	948.51%	180.81%	1,818	2,974	1
759	9.685E11	617,573	17	1385.16%	159.36%	25,960	37,832	1
760	6.216E10	187,408	2	211.27%	133.03%	372	3,366	1
761	7.9664E8	19,733	2	205.36%	143.04%	177	1,139	1
762	4.5643E8	7,991	22	385.34%	267.35%	1,729	2,501	1
763	3429267	1,257	10	664.45%	147.35%	2,033	2,418	1
764	262,560	304	15	297.36%	168.50%	313	449	1
765	1.0461E8	5,439	19	467.32%	188.05%	1,301	1,989	1
766	4949233	2,391	7	40.23%	93.05%	412	639	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
767	New Mexico	Hospitals	19,034	951	937	1.48%	19,034
768	New Mexico	Streets & Highways	28,692	1,897	1,897	(0.02%)	28,692
769	New Mexico	Housing & Community Development (Local)	1,762	366	367	(0.01%)	1,762
770	New Mexico	Local Libraries	1,799	446	446	0.01%	1,799
771	New Mexico	Natural Resources	748	438	438	0.00%	748
772	New Mexico	Parks & Recreation	6,601	1,442	1,442	(0.02%)	6,601
773	New Mexico	Police Protection - Officers	55,955	3,821	3,820	0.03%	55,955
774	New Mexico	Welfare	3,119	541	540	0.12%	3,119
775	New Mexico	Sewerage	2,837	659	659	(0.01%)	2,837
776	New Mexico	Solid Waste Management	21,157	1,199	1,199	0.00%	21,157
777	New Mexico	Other & Unallocable	18,401	1,604	1,604	(0.03%)	18,401
778	New Mexico	Water Supply	10,305	957	957	0.01%	10,305

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
767	2096334	29	1	65234.9%	4969.96%	680	1,221	1
768	81355605	4,253	21	574.58%	212.06%	1,565	2,229	1
769	864,256	1,333	6	32.18%	69.73%	284	449	1
770	169,692	251	11	615.53%	163.82%	363	529	1
771	61,278	219	8	242.06%	113.13%	384	492	1
772	2606189	729	14	804.90%	221.30%	1,283	1,601	1
773	1.1753E8	5,228	22	970.25%	207.36%	3,357	4,285	1
774	2046665	866	5	260.25%	165.23%	431	650	1
775	2246180	1,222	11	132.18%	122.66%	555	763	1
776	4.1316E8	5,302	14	299.04%	383.38%	914	1,484	1
777	1.0088E8	7,726	15	138.16%	130.00%	1,338	1,869	1
778	64582874	3,689	14	179.32%	217.82%	758	1,156	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
779	New Mexico	Electric Power	916	230	230	0.00%	916
780	New Mexico	Gas Supply	571	106	101	4.84%	571
781	New Mexico	Transit	145	694	690	0.56%	145
782	New Mexico	Elementary and Secondary - Other Total	1582838	11,358	11,360	(0.02%)	1582838
783	New Mexico	Fire - Other	45	96	96	0.02%	45
784	New Mexico	Police-Other	9,196	1,293	1,294	(0.06%)	9,196
785	New York	Airports	10,169	1,449	1,446	0.21%	10,169
786	New York	Correction	504,164	23,712	23,711	0.00%	504,164
787	New York	Elementary and Secondary - Instruction	7.9411E8	312,642	312,588	0.02%	7.9411E8
788	New York	Higher Education - Other	494,464	10,662	10,662	0.00%	494,464
789	New York	Higher Education - Instructional	139,618	6,911	6,911	(0.00%)	139,618
790	New York	Financial Administration	346,941	11,123	11,116	0.07%	346,941

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
779	650,684	361	2	153.74%	223.40%	171	289	1
780	142,243	258	2	120.92%	145.93%	59	153	1
781	1,647	15	1	846.09%	264.91%	670	717	1
782	1.061E11	217,751	17	626.90%	149.61%	8,892	13,824	1
783	321	12	4	269.47%	148.71%	83	109	1
784	17792799	2,744	19	235.18%	153.75%	1,105	1,481	1
785	2.114E9	7,717	8	31.78%	595.83%	1,251	1,647	1
786	5.5727E9	53,098	21	849.49%	140.59%	22,320	25,103	1
787	4.032E15	41433948	48	1816.58%	153.25%	257,409	367,875	1
788	9.306E10	186,703	9	164.84%	163.39%	9,284	12,041	1
789	1.1159E9	47,619	9	193.19%	70.15%	6,179	7,643	1
790	1.422E11	155,704	76	122.82%	242.21%	9,969	12,278	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
791	New York	Firefighters	392,043	20,381	20,388	(0.04%)	392,043
792	New York	Judical & Legal	99,051	10,478	10,477	0.01%	99,051
793	New York	Other Government Administration	579,351	11,105	11,098	0.07%	579,351
794	New York	Health	526,439	15,640	15,643	(0.02%)	526,439
795	New York	Hospitals	719,234	46,408	46,318	0.19%	719,234
796	New York	Streets & Highways	5489148	24,173	24,183	(0.04%)	5489148
797	New York	Housing & Community Development (Local)	15,339	15,684	15,682	0.01%	15,339
798	New York	Local Libraries	386,541	5,745	5,735	0.18%	386,541
799	New York	Natural Resources	5,352	151	151	(0.15%)	5,352
800	New York	Parks & Recreation	144,365	8,186	8,197	(0.14%)	144,365
801	New York	Police Protection - Officers	1493497	66,483	66,494	(0.02%)	1493497
802	New York	Welfare	3904319	43,641	43,639	0.00%	3904319

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
791	1.896E10	247,350	31	58.50%	55.67%	19,154	21,608	1
792	1.3618E9	43,244	64	129.05%	85.33%	9,861	11,095	1
793	1.424E11	311,669	72	85.89%	121.07%	9,613	12,597	1
794	1.662E10	125,126	29	320.73%	103.04%	14,218	17,062	1
795	1.64E11	360,104	2	99.73%	112.46%	44,746	48,070	1
796	1.588E13	1985097	82	176.52%	200.76%	19,581	28,765	1
797	1.2332E8	12,369	21	24.01%	89.78%	15,441	15,926	1
798	7.8385E9	84,235	32	358.88%	105.10%	4,527	6,964	1
799	4.7664E8	4,185	5	27.90%	521.73%	7	294	1
800	5.1267E9	70,061	51	106.06%	102.20%	7,441	8,930	1
801	1.095E11	444,403	65	236.07%	74.45%	64,087	68,878	1
802	2.921E11	279,666	29	1296.07%	193.26%	39,768	47,514	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
803	New York	Sewerage	293,054	6,035	6,046	(0.18%)	293,054
804	New York	Solid Waste Management	198,851	13,137	13,134	0.02%	198,851
805	New York	Water Transport & Terminals	3,050	229	222	3.23%	3,050
806	New York	Other & Unallocable	292,623	19,881	19,885	(0.02%)	292,623
807	New York	Water Supply	211,912	5,846	5,837	0.16%	211,912
808	New York	Electric Power	127,570	466	464	0.52%	127,570
809	New York	Gas Supply	29,924	171	11	1451%	29,924
810	New York	Transit	7,905	46,933	46,933	(0.00%)	7,905
811	New York	Elementary and Secondary - Other Total	1.4914E8	111,368	111,395	(0.02%)	1.4914E8
812	New York	Fire - Other	93,139	2,234	2,234	0.02%	93,139
813	New York	Police-Other	89,081	8,799	8,799	(0.00%)	89,081
814	North Carolina	Airports	1,808	874	874	(0.03%)	1,808

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
803	2.505E12	220,713	35	32.78%	717.09%	4,974	7,096	1
804	8.7015E9	98,922	45	101.02%	94.30%	12,263	14,011	1
805	63714785	2,406	1	26.76%	331.70%	121	337	1
806	1.671E10	100,546	58	191.03%	128.58%	18,821	20,942	1
807	1.802E10	112,148	34	88.96%	119.69%	4,944	6,748	1
808	1.278E11	120,059	4	6.26%	297.81%	0	1,166	1
809	76596148	843	1	3451.45%	1038.71%	0	510	1
810	1.2917E8	6,195	8	27.60%	183.47%	46,759	47,107	1
811	5.9E14	23863282	48	525.00%	101.78%	87,431	135,304	1
812	4.3379E9	43,894	21	112.19%	150.05%	1,636	2,833	1
813	6.6056E9	40,874	54	117.94%	198.84%	8,214	9,384	1
814	8407747	1,179	6	53.35%	245.94%	790	957	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
815	North Carolina	Correction	171,289	4,245	4,227	0.42%	171,289
816	North Carolina	Elementary and Secondary - Instruction	1.2126E8	147,390	147,326	0.04%	1.2126E8
817	North Carolina	Higher Education - Other	1076367	9,014	9,018	(0.05%)	1076367
818	North Carolina	Higher Education - Instructional	570,288	7,321	7,325	(0.06%)	570,288
819	North Carolina	Financial Administration	232,542	6,795	6,786	0.14%	232,542
820	North Carolina	Firefighters	278,906	7,834	7,824	0.13%	278,906
821	North Carolina	Judicial & Legal	2,782	696	697	(0.09%)	2,782
822	North Carolina	Other Government Administration	626,573	5,198	5,203	(0.10%)	626,573
823	North Carolina	Health	2053362	13,460	13,463	(0.02%)	2053362
824	North Carolina	Hospitals	2047749	39,405	39,341	0.16%	2047749
825	North Carolina	Streets & Highways	145,638	3,784	3,776	0.22%	145,638
826	North Carolina	Housing & Community Development (Local)	125,319	2,678	2,670	0.29%	125,319

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
815	9.1242E8	34,351	27	398.65%	87.93%	3,433	5,056	1
816	1.087E14	3906140	29	3004.37%	266.86%	125,807	168,973	1
817	2.087E10	150,601	20	614.71%	95.92%	6,980	11,047	1
818	6.6451E9	93,724	20	508.47%	86.98%	5,841	8,801	1
819	4.5533E9	55,982	61	315.38%	120.53%	5,850	7,741	1
820	4.9778E9	90,984	34	206.54%	77.55%	6,799	8,869	1
821	272,886	317	18	778.75%	164.99%	593	800	1
822	2.563E12	392,385	61	59.68%	407.99%	3,646	6,749	1
823	8.404E10	180,400	31	1038.23%	160.69%	10,651	16,268	1
824	4.512E11	432,341	3	373.64%	155.37%	36,600	42,210	1
825	1.897E10	71,027	32	105.05%	193.90%	3,036	4,532	1
826	7.9628E9	20,173	25	521.24%	442.36%	1,984	3,372	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
827	North Carolina	Local Libraries	34,445	2,126	2,122	0.21%	34,445
828	North Carolina	Natural Resources	17,712	494	489	0.93%	17,712
829	North Carolina	Parks & Recreation	62,787	3,562	3,558	0.11%	62,787
830	North Carolina	Police Protection - Officers	1690355	19,476	19,456	0.10%	1690355
831	North Carolina	Welfare	1903267	14,720	14,733	(0.09%)	1903267
832	North Carolina	Sewerage	117,117	3,385	3,378	0.22%	117,117
833	North Carolina	Solid Waste Management	117,866	3,928	3,918	0.25%	117,866
834	North Carolina	Other & Unallocable	1578077	12,059	12,072	(0.11%)	1578077
835	North Carolina	Water Supply	233,201	4,888	4,880	0.16%	233,201
836	North Carolina	Electric Power	50,394	1,392	1,396	(0.32%)	50,394
837	North Carolina	Gas Supply	1,957	152	145	4.65%	1,957
838	North Carolina	Transit	170,410	1,192	1,186	0.48%	170,410

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
827	1.3294E8	12,325	27	179.46%	93.55%	1,763	2,490	1
828	1.639E8	6,205	24	185.43%	206.32%	233	754	1
829	7.7278E8	23,126	48	171.50%	120.21%	3,071	4,053	1
830	5.681E10	232,308	63	627.64%	102.60%	16,928	22,025	1
831	2.2E10	82,519	29	2206.45%	179.74%	12,016	17,424	1
832	5.8086E9	57,255	31	104.55%	133.11%	2,715	4,056	1
833	5.7174E9	68,455	48	72.18%	110.46%	3,255	4,601	1
834	7.322E11	782,226	54	101.74%	109.39%	9,597	14,521	1
835	8.2569E9	109,245	44	113.47%	83.18%	3,941	5,834	1
836	1.4595E9	21,423	11	135.23%	178.33%	952	1,832	1
837	2678612	664	2	194.72%	246.53%	65	238	1
838	7.718E11	146,478	6	16.34%	599.78%	383	2,001	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
839	North Carolina	Elementary and Secondary - Other Total	14779829	46,065	46,003	0.13%	14779829
840	North Carolina	Fire - Other	2,565	371	366	1.36%	2,565
841	North Carolina	Police-Other	40,559	3,533	3,542	(0.25%)	40,559
842	North Dakota	Airports	212	100	95	4.86%	212
843	North Dakota	Correction	580	423	423	0.00%	580
844	North Dakota	Elementary and Secondary - Instruction	1353795	10,197	10,198	(0.01%)	1353795
845	North Dakota	Financial Administration	3,483	656	656	0.03%	3,483
846	North Dakota	Firefighters	89	338	334	1.11%	89
847	North Dakota	Judical & Legal	886	255	255	0.04%	886
848	North Dakota	Other Government Administration	2,530	282	282	0.04%	2,530
849	North Dakota	Health	815	432	432	0.02%	815
850	North Dakota	Hospitals	1,522	39	7	457%	1,522

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
839	3.651E12	1061947	29	1291.77%	179.94%	38,530	53,600	1
840	2912042	509	21	403.79%	335.16%	272	470	1
841	1.6735E8	16,524	52	145.45%	78.29%	3,139	3,928	1
842	25,780	26	1	705.29%	610.47%	71	128	1
843	32,807	136	4	326.04%	133.01%	376	470	1
844	3.335E11	121,773	23	1011.74%	474.21%	7,916	12,477	1
845	1018601	345	37	908.62%	292.25%	541	772	1
846	780	9	1	898.82%	312.41%	319	356	1
847	139,776	128	14	593.07%	292.59%	197	313	1
848	1081203	642	11	293.96%	161.90%	184	381	1
849	135,210	409	7	99.32%	89.94%	376	488	1
850	64	0	1	1.448E7%	76253.1%	0	115	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
851	North Dakota	Streets & Highways	15,662	1,090	1,090	(0.02%)	15,662
852	North Dakota	Housing & Community Development (Local)	277	237	237	(0.02%)	277
853	North Dakota	Local Libraries	57	76	74	2.73%	57
854	North Dakota	Natural Resources	1,768	145	145	(0.01%)	1,768
855	North Dakota	Parks & Recreation	378	377	377	(0.01%)	378
856	North Dakota	Police Protection - Officers	3,887	1,162	1,162	(0.01%)	3,887
857	North Dakota	Welfare	8,635	829	829	(0.02%)	8,635
858	North Dakota	Sewerage	25	149	149	(0.02%)	25
859	North Dakota	Solid Waste Management	31	262	262	0.05%	31
860	North Dakota	Other & Unallocable	385	299	299	(0.02%)	385
861	North Dakota	Water Supply	964	369	369	0.01%	964
862	North Dakota	Electric Power	62	29	24	19.1%	62

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
851	6964518	1,390	32	1027.14%	189.92%	845	1,335	1
852	11,197	47	3	489.25%	225.23%	204	270	1
853	2,663	30	2	91.32%	173.92%	61	91	1
854	496,442	431	15	310.67%	163.66%	63	227	1
855	16,260	116	5	226.86%	110.26%	339	415	1
856	520,921	325	23	1095.91%	222.09%	1,040	1,284	1
857	2231649	684	14	1162.69%	218.44%	647	1,011	1
858	754	11	3	123.95%	243.01%	139	159	1
859	202	16	4	92.66%	89.02%	251	273	1
860	12,752	192	9	100.53%	58.86%	261	337	1
861	1.4995E8	697	19	38.18%	1755.68%	308	430	1
862	4,156	27	1	127.35%	235.84%	13	44	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
863	North Dakota	Elementary and Secondary - Other Total	129,619	2,899	2,899	(0.01%)	129,619
864	North Dakota	Fire - Other	176	23	12	93.8%	176
865	North Dakota	Police-Other	451	196	196	0.00%	451
866	Ohio	Airports	22,795	1,025	1,027	(0.16%)	22,795
867	Ohio	Correction	397,823	7,349	7,352	(0.04%)	397,823
868	Ohio	Elementary and Secondary - Instruction	2.6587E8	145,954	145,946	0.01%	2.6587E8
869	Ohio	Higher Education - Other	2507687	2,167	2,165	0.10%	2507687
870	Ohio	Higher Education - Instructional	738,257	1,219	1,219	0.04%	738,257
871	Ohio	Financial Administration	176,128	6,584	6,589	(0.08%)	176,128
872	Ohio	Firefighters	1182312	13,236	13,235	0.01%	1182312
873	Ohio	Judical & Legal	649,229	15,296	15,294	0.01%	649,229
874	Ohio	Other Government Administration	468,876	6,629	6,635	(0.09%)	468,876

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
863	2.4499E9	19,639	23	560.01%	252.03%	2,193	3,604	1
864	143	0	1	90671.4%	6179.23%	0	49	1
865	31,666	122	8	270.09%	146.13%	154	238	1
866	1.3712E9	14,626	6	55.86%	253.18%	729	1,321	1
867	4.2577E9	39,072	41	918.18%	167.00%	6,113	8,586	1
868	1.762E16	19322541	66	1275.98%	687.04%	113,994	177,913	1
869	1.691E12	938,203	2	167.29%	138.60%	0	5,271	1
870	1.873E11	364,208	2	102.70%	118.83%	0	2,904	1
871	5.633E10	82,307	130	113.99%	288.36%	5,761	7,406	1
872	1.234E12	807,723	98	46.38%	137.55%	11,105	15,367	1
873	9.1422E9	97,424	89	566.39%	98.14%	13,716	16,875	1
874	2.655E11	276,964	128	69.29%	186.03%	5,287	7,971	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
875	Ohio	Health	1164692	12,719	12,718	0.01%	1164692	1.171E11	532,892	46	118.56%	64.21%	10,604	14,834	1
876	Ohio	Hospitals	586,011	7,929	7,934	(0.06%)	586,011	9.584E10	292,043	3	100.66%	106.01%	6,429	9,429	1
877	Ohio	Streets & Highways	1452637	11,646	11,645	0.01%	1452637	1.493E12	831,315	138	74.74%	146.98%	9,283	14,008	1
878	Ohio	Housing & Community Development (Local)	402,752	4,126	4,127	(0.03%)	402,752	1.855E10	45,096	39	793.09%	302.04%	2,882	5,369	1
879	Ohio	Local Libraries	567,211	5,628	5,613	0.26%	567,211	2.262E10	153,859	23	268.66%	97.76%	4,152	7,104	1
880	Ohio	Natural Resources	117,756	756	749	0.92%	117,756	1.211E10	44,368	24	165.40%	248.00%	83	1,428	1
881	Ohio	Parks & Recreation	246,117	5,351	5,345	0.12%	246,117	2.32E10	52,023	89	373.09%	292.78%	4,379	6,324	1
882	Ohio	Police Protection - Officers	1176291	20,656	20,672	(0.08%)	1176291	9.241E10	385,734	134	204.95%	78.81%	18,530	22,782	1
883	Ohio	Welfare	3218672	18,633	18,637	(0.02%)	3218672	2.845E11	282,343	38	1039.99%	188.91%	15,116	22,149	1
884	Ohio	Sewerage	124,199	5,689	5,690	(0.01%)	124,199	2.462E10	85,863	77	44.65%	182.75%	4,998	6,380	1
885	Ohio	Solid Waste Management	77,628	2,191	2,194	(0.14%)	77,628	1.561E10	32,843	44	136.36%	380.44%	1,645	2,737	1
886	Ohio	Water Transport & Terminals	21,780	97	33	195%	21,780	8.7631E8	12,755	1	70.76%	232.09%	0	387	1
887	Ohio	Other & Unallocable	423,611	6,751	6,754	(0.04%)	423,611	7.018E10	155,707	92	172.06%	170.14%	5,476	8,027	1
888	Ohio	Water Supply	287,650	6,895	6,906	(0.16%)	287,650	7.521E10	156,312	64	84.02%	175.45%	5,844	7,946	1
889	Ohio	Electric Power	55,369	1,255	1,256	(0.11%)	55,369	1.938E9	38,776	10	42.79%	113.53%	793	1,716	1
890	Ohio	Transit	118,910	5,392	5,393	(0.03%)	118,910	5.9682E9	22,432	9	430.10%	344.40%	4,716	6,067	1
891	Ohio	Elementary and Secondary - Other Total	57052649	62,835	62,813	0.04%	57052649	6.27E13	11715963	65	386.97%	67.58%	48,030	77,639	1
892	Ohio	Fire - Other	8,447	509	509	0.02%	8,447	2.9547E8	5,961	47	41.69%	288.35%	329	689	1
893	Ohio	Police-Other	90,127	5,594	5,596	(0.03%)	90,127	5.136E8	35,123	111	156.60%	64.52%	5,006	6,183	1
894	Oklahoma	Airports	71	288	288	0.09%	71	4,819	32	8	122.27%	217.57%	272	305	1
895	Oklahoma	Correction	53,826	1,655	1,656	(0.04%)	53,826	4.2207E8	11,607	10	363.73%	177.00%	1,201	2,110	1
896	Oklahoma	Elementary and Secondary - Instruction	56617367	60,918	60,930	(0.02%)	56617367	1.518E14	4819077	33	1074.86%	255.66%	46,170	75,666	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
897	Oklahoma	Higher Education - Other	10,975	100	46	118%	10,975
898	Oklahoma	Higher Education - Instructional	32,046	192	124	54.8%	32,046
899	Oklahoma	Financial Administration	93,285	2,752	2,751	0.03%	93,285
900	Oklahoma	Firefighters	49,517	4,121	4,123	(0.06%)	49,517
901	Oklahoma	Judicial & Legal	19,189	1,403	1,404	(0.07%)	19,189
902	Oklahoma	Other Government Administration	58,968	2,240	2,242	(0.11%)	58,968
903	Oklahoma	Health	18,937	1,270	1,271	(0.08%)	18,937
904	Oklahoma	Hospitals	356,431	8,916	8,918	(0.02%)	356,431
905	Oklahoma	Streets & Highways	380,715	5,099	5,099	(0.00%)	380,715
906	Oklahoma	Housing & Community Development (Local)	34,277	1,361	1,366	(0.39%)	34,277
907	Oklahoma	Local Libraries	3,126	777	776	0.12%	3,126
908	Oklahoma	Natural Resources	9,539	198	198	0.07%	9,539

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
897	61142792	2,219	1	394.65%	352.42%	0	306	1
898	1.0296E8	3,517	1	811.08%	288.48%	0	543	1
899	1.3296E9	35,004	49	166.50%	104.17%	2,153	3,351	1
900	3.7713E8	21,019	25	135.58%	92.39%	3,684	4,557	1
901	28821140	3,693	36	419.63%	145.38%	1,131	1,675	1
902	1.9873E9	33,497	50	76.04%	133.08%	1,764	2,716	1
903	4.0374E8	13,207	12	43.39%	152.14%	1,000	1,540	1
904	3.7214E9	91,677	13	288.79%	66.54%	7,746	10,086	1
905	4.4237E9	70,771	51	437.96%	93.98%	3,890	6,308	1
906	1.5926E8	6,549	15	423.41%	192.71%	998	1,724	1
907	1742739	1,244	18	151.31%	106.14%	667	886	1
908	21178226	1,865	6	411.56%	246.80%	7	390	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
909	Oklahoma	Parks & Recreation	10,897	1,263	1,263	0.03%	10,897
910	Oklahoma	Police Protection - Officers	208,449	6,720	6,725	(0.07%)	208,449
911	Oklahoma	Welfare	3,692	105	103	1.66%	3,692
912	Oklahoma	Sewerage	12,789	1,144	1,143	0.08%	12,789
913	Oklahoma	Solid Waste Management	16,325	1,072	1,073	(0.11%)	16,325
914	Oklahoma	Water Transport & Terminals	416	18	15	19.5%	416
915	Oklahoma	Other & Unallocable	37,218	1,992	1,992	(0.02%)	37,218
916	Oklahoma	Water Supply	101,638	2,827	2,826	0.05%	101,638
917	Oklahoma	Electric Power	7,276	431	431	0.05%	7,276
918	Oklahoma	Gas Supply	3,029	55	53	2.85%	3,029
919	Oklahoma	Elementary and Secondary - Other Total	12687823	25,945	25,969	(0.09%)	12687823
920	Oklahoma	Fire - Other	245	122	122	(0.13%)	245

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
909	1.2086E8	6,760	23	61.20%	162.62%	1,059	1,468	1
910	5.5809E9	76,034	55	174.15%	98.25%	5,825	7,615	1
911	5.1455E8	2,865	2	28.84%	791.62%	0	224	1
912	2.5164E8	8,262	23	54.79%	192.00%	922	1,366	1
913	1.1315E9	8,451	21	93.16%	398.01%	821	1,322	1
914	247,403	94	1	340.49%	526.93%	0	58	1
915	1.4214E9	20,168	36	84.53%	186.93%	1,614	2,370	1
916	3.6955E9	37,466	39	171.28%	162.26%	2,202	3,452	1
917	1.2598E8	5,189	10	40.21%	216.30%	264	598	1
918	66500350	2,544	3	19.05%	320.50%	0	162	1
919	1.06E14	1953249	33	549.58%	527.12%	18,963	32,926	1
920	102,154	96	5	154.79%	332.33%	91	153	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
921	Oklahoma	Police-Other	34,900	2,031	2,028	0.17%	34,900
922	Oregon	Airports	1,662	420	419	0.27%	1,662
923	Oregon	Correction	87,792	3,148	3,148	0.01%	87,792
924	Oregon	Elementary and Secondary - Instruction	11606282	37,252	37,250	0.01%	11606282
925	Oregon	Higher Education - Other	860,006	3,964	3,964	0.01%	860,006
926	Oregon	Higher Education - Instructional	192,671	1,924	1,923	0.05%	192,671
927	Oregon	Financial Administration	56,701	2,979	2,979	(0.00%)	56,701
928	Oregon	Firefighters	57,379	3,203	3,204	(0.04%)	57,379
929	Oregon	Judical & Legal	22,539	1,540	1,540	0.01%	22,539
930	Oregon	Other Government Administration	63,606	2,559	2,558	0.05%	63,606
931	Oregon	Health	209,167	3,920	3,921	(0.02%)	209,167
932	Oregon	Hospitals	14,311	1,773	1,772	0.07%	14,311

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
921	4.2572E8	14,137	39	146.86%	145.95%	1,665	2,398	1
922	9248934	1,315	4	26.39%	231.32%	340	500	1
923	1.1559E9	20,223	8	334.13%	168.12%	2,568	3,729	1
924	1.19E12	964,532	37	1103.31%	113.09%	30,575	43,929	1
925	9.962E10	321,683	4	167.35%	98.12%	2,147	5,782	1
926	7.5738E9	96,577	4	99.50%	90.11%	1,064	2,784	1
927	1.4642E9	10,214	31	455.11%	374.62%	2,512	3,446	1
928	1.0637E8	9,689	20	492.21%	106.45%	2,733	3,672	1
929	18231094	2,002	23	1026.07%	213.32%	1,246	1,834	1
930	1.545E9	21,918	31	190.20%	179.33%	2,065	3,054	1
931	3.1011E9	32,350	10	546.58%	172.14%	3,024	4,817	1
932	45891144	2,713	1	427.49%	249.69%	1,539	2,008	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
933	Oregon	Streets & Highways	85,122	3,216	3,217	(0.04%)	85,122
934	Oregon	Housing & Community Development (Local)	37,699	979	981	(0.23%)	37,699
935	Oregon	Local Libraries	29,387	986	980	0.60%	29,387
936	Oregon	Natural Resources	63,405	551	548	0.47%	63,405
937	Oregon	Parks & Recreation	14,110	1,866	1,863	0.17%	14,110
938	Oregon	Police Protection - Officers	126,354	5,228	5,228	(0.00%)	126,354
939	Oregon	Welfare	710	771	771	(0.01%)	710
940	Oregon	Sewerage	31,499	1,681	1,678	0.18%	31,499
941	Oregon	Solid Waste Management	2,293	410	410	(0.00%)	2,293
942	Oregon	Water Transport & Terminals	12,553	232	207	12.2%	12,553
943	Oregon	Other & Unallocable	54,358	2,966	2,960	0.19%	54,358
944	Oregon	Water Supply	53,028	1,997	1,994	0.15%	53,028

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
933	1.0725E9	17,442	29	388.04%	187.76%	2,644	3,787	1
934	3.393E8	8,577	7	339.54%	214.77%	598	1,359	1
935	1.076E10	21,595	16	36.08%	480.33%	650	1,322	1
936	2.2361E9	13,942	8	354.78%	339.18%	57	1,044	1
937	1.3349E8	5,103	26	176.52%	226.43%	1,633	2,099	1
938	2.6466E8	14,449	31	774.48%	112.59%	4,531	5,925	1
939	314,567	296	6	139.89%	189.58%	719	823	1
940	3.3795E8	11,151	22	182.48%	164.86%	1,333	2,029	1
941	1136707	579	6	295.73%	184.03%	316	504	1
942	1.7514E8	3,031	1	314.12%	436.58%	13	452	1
943	4.1433E8	18,510	23	193.66%	109.97%	2,509	3,423	1
944	4.8514E8	15,251	26	247.70%	144.42%	1,545	2,448	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
945	Oregon	Electric Power	10,589	672	672	(0.03%)	10,589
946	Oregon	Transit	18,702	2,809	2,810	(0.02%)	18,702
947	Oregon	Elementary and Secondary - Other Total	2100277	14,187	14,185	0.01%	2100277
948	Oregon	Fire - Other	2,473	393	392	0.19%	2,473
949	Oregon	Police-Other	28,338	2,150	2,150	(0.00%)	28,338
950	Pennsylvania	Airports	63,149	1,521	1,523	(0.15%)	63,149
951	Pennsylvania	Correction	1149630	12,662	12,664	(0.02%)	1149630
952	Pennsylvania	Elementary and Secondary - Instruction	3.6278E8	159,442	159,406	0.02%	3.6278E8
953	Pennsylvania	Higher Education - Other	7460490	4,476	4,041	10.8%	7460490
954	Pennsylvania	Higher Education - Instructional	2618243	2,662	2,404	10.7%	2618243
955	Pennsylvania	Financial Administration	218,041	6,709	6,717	(0.11%)	218,041
956	Pennsylvania	Firefighters	43,316	4,734	4,734	0.00%	43,316

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
945	10077577	2,340	3	352.56%	135.67%	470	873	1
946	43389248	3,278	3	470.50%	200.94%	2,541	3,077	1
947	4.309E10	174,733	36	1101.99%	118.81%	11,346	17,027	1
948	9356301	1,346	10	83.66%	227.18%	295	490	1
949	54916426	6,465	25	338.36%	114.63%	1,820	2,480	1
950	4.401E9	24,883	5	153.79%	266.61%	1,028	2,013	1
951	8.817E10	231,109	17	397.44%	128.48%	10,561	14,764	1
952	3.436E14	23576284	57	1438.75%	78.63%	122,110	196,773	1
953	1.502E13	4197595	3	77.73%	92.32%	0	9,830	1
954	2.075E12	1607294	3	62.90%	89.62%	0	5,833	1
955	4.4707E9	82,621	101	163.90%	80.93%	5,794	7,625	1
956	3.1586E8	34,278	27	26.37%	51.85%	4,326	5,142	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
957	Pennsylvania	Judical & Legal	974,808	13,942	13,941	0.01%	974,808
958	Pennsylvania	Other Government Administration	401,171	7,978	7,981	(0.03%)	401,171
959	Pennsylvania	Health	449,235	5,649	5,648	0.01%	449,235
960	Pennsylvania	Hospitals	52,219	229	1	23E3%	52,219
961	Pennsylvania	Streets & Highways	937,801	9,395	9,396	(0.01%)	937,801
962	Pennsylvania	Housing & Community Development (Local)	737,902	4,850	4,846	0.09%	737,902
963	Pennsylvania	Local Libraries	17,905	1,196	1,198	(0.14%)	17,905
964	Pennsylvania	Natural Resources	7,742	319	319	0.13%	7,742
965	Pennsylvania	Parks & Recreation	34,952	2,336	2,340	(0.18%)	34,952
966	Pennsylvania	Police Protection - Officers	800,510	20,007	20,013	(0.03%)	800,510
967	Pennsylvania	Welfare	2373634	17,125	17,126	(0.00%)	2373634
968	Pennsylvania	Sewerage	836,903	5,618	5,610	0.14%	836,903

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
957	7.961E10	123,648	19	688.38%	228.19%	12,007	15,877	1
958	3.751E10	181,954	107	120.48%	106.45%	6,737	9,220	1
959	7.231E11	162,623	23	176.24%	522.89%	4,335	6,962	1
960	89	0	1	1.22E10%	2209912%	0	676	1
961	1.083E11	485,807	113	93.04%	67.75%	7,497	11,294	1
962	2.23E10	62,499	24	1080.67%	238.96%	3,167	6,534	1
963	6.0863E8	11,462	15	56.21%	215.23%	934	1,459	1
964	46134229	4,347	12	78.09%	156.25%	147	492	1
965	2.1629E9	20,521	62	70.32%	226.63%	1,969	2,702	1
966	1.006E10	247,201	106	223.83%	40.58%	18,253	21,760	1
967	6.899E10	146,059	18	1525.12%	179.83%	14,106	20,145	1
968	1.286E11	211,434	60	295.82%	169.59%	3,825	7,411	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
969	Pennsylvania	Solid Waste Management	197,147	2,777	2,780	(0.12%)	197,147
970	Pennsylvania	Water Transport & Terminals	11,968	101	86	17.1%	11,968
971	Pennsylvania	Other & Unallocable	256,052	4,682	4,677	0.10%	256,052
972	Pennsylvania	Water Supply	936,635	4,675	4,703	(0.60%)	936,635
973	Pennsylvania	Electric Power	3,831	109	108	0.59%	3,831
974	Pennsylvania	Gas Supply	117	1,665	1,664	0.05%	117
975	Pennsylvania	Transit	429,578	11,630	11,632	(0.02%)	429,578
976	Pennsylvania	Elementary and Secondary - Other Total	42835059	56,004	56,009	(0.01%)	42835059
977	Pennsylvania	Fire - Other	1,913	331	331	0.06%	1,913
978	Pennsylvania	Police-Other	29,332	3,419	3,422	(0.07%)	29,332
979	Rhode Island	Elementary and Secondary - Instruction	880,369	14,799	14,799	(0.00%)	880,369
980	Rhode Island	Financial Administration	6,270	565	565	(0.00%)	6,270

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
969	1.908E10	81,033	27	143.29%	170.47%	1,906	3,647	1
970	1.6867E8	2,031	1	489.36%	639.54%	0	315	1
971	1.489E10	116,616	56	119.57%	104.62%	3,690	5,673	1
972	4.862E13	459,948	27	103.64%	1515.92%	2,778	6,572	1
973	12679274	2,338	4	63.90%	152.33%	0	230	1
974	0	0	1	.	.	1,644	1,686	1
975	1.151E10	52,967	10	711.03%	202.57%	10,345	12,914	1
976	2.953E13	6590041	57	550.00%	82.46%	43,177	68,832	1
977	1150248	509	10	275.64%	210.56%	245	417	1
978	1.9449E8	13,774	71	112.95%	101.25%	3,083	3,755	1
979	3.432E10	226,460	8	288.75%	81.81%	12,960	16,638	1
980	1.3957E8	3,249	9	92.99%	363.60%	410	720	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
981	Rhode Island	Firefighters	22,803	2,041	2,041	0.01%	22,803	67471589	3,836	9	494.44%	214.13%	1,745	2,337	1
982	Rhode Island	Judical & Legal	7	74	73	0.96%	7	0	0	1	49569.8%	4315.84%	68	79	1
983	Rhode Island	Other Government Administration	5,758	639	639	(0.02%)	5,758	19190940	2,283	9	152.19%	191.86%	490	788	1
984	Rhode Island	Health	22	61	61	(0.05%)	22	2,694	15	2	43.12%	336.42%	52	70	1
985	Rhode Island	Streets & Highways	14,681	830	830	(0.03%)	14,681	3.2211E8	4,186	9	250.73%	428.77%	592	1,067	1
986	Rhode Island	Housing & Community Development (Local)	16,418	570	570	(0.02%)	16,418	7873018	1,023	5	1505.64%	274.41%	319	821	1
987	Rhode Island	Local Libraries	1,022	242	242	0.01%	1,022	538,287	302	4	238.27%	242.94%	179	305	1
988	Rhode Island	Parks & Recreation	686	416	416	0.00%	686	200,304	244	6	180.97%	183.34%	365	467	1
989	Rhode Island	Police Protection - Officers	46,177	2,302	2,302	0.01%	46,177	1.7149E9	23,925	9	93.01%	173.09%	1,881	2,723	1
990	Rhode Island	Welfare	60	63	62	0.93%	60	2,164	12	1	401.35%	390.91%	47	78	1
991	Rhode Island	Sewerage	1,402	174	174	0.04%	1,402	3802674	763	4	83.73%	255.56%	101	247	1
992	Rhode Island	Solid Waste Management	5,039	111	109	1.62%	5,039	84307523	6,229	2	(19.10%)	147.41%	0	250	1
993	Rhode Island	Water Transport & Terminals	103	10	2	407%	103	86	0	1	46228.6%	4163.35%	0	30	1
994	Rhode Island	Other & Unallocable	2,178	294	294	0.03%	2,178	5431370	1,299	5	67.67%	179.44%	203	386	1
995	Rhode Island	Water Supply	4,739	564	564	(0.01%)	4,739	1285579	407	5	1064.71%	278.66%	429	699	1
996	Rhode Island	Electric Power	2,749	52	18	190%	2,749	182,515	19	1	14692.9%	2298.90%	0	155	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
997	Rhode Island	Elementary and Secondary - Other Total	46,673	3,255	3,255	0.00%	46,673
998	Rhode Island	Fire - Other	1,241	81	81	0.40%	1,241
999	Rhode Island	Police-Other	4,489	495	495	0.01%	4,489
1000	South Carolina	Airports	14,451	470	470	(0.03%)	14,451
1001	South Carolina	Correction	97,299	3,326	3,326	(0.01%)	97,299
1002	South Carolina	Elementary and Secondary - Instruction	1.3343E8	66,313	66,310	0.01%	1.3343E8
1003	South Carolina	Financial Administration	67,080	3,172	3,172	(0.02%)	67,080
1004	South Carolina	Firefighters	130,002	4,650	4,650	(0.01%)	130,002
1005	South Carolina	Judical & Legal	88,175	3,495	3,495	(0.00%)	88,175
1006	South Carolina	Other Government Administration	41,649	2,447	2,448	(0.04%)	41,649
1007	South Carolina	Health	62,800	2,202	2,202	(0.00%)	62,800
1008	South Carolina	Hospitals	353,518	19,816	19,816	0.00%	353,518

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
997	1.0523E8	8,460	8	451.70%	121.26%	2,832	3,679	1
998	4251069	853	3	45.42%	241.67%	12	150	1
999	26524270	2,113	9	112.38%	243.68%	364	626	1
1000	45331436	1,471	5	882.32%	457.68%	234	705	1
1001	2.1509E8	6,381	13	1424.90%	229.85%	2,714	3,937	1
1002	2.842E14	5574503	18	2293.49%	302.43%	43,673	88,953	1
1003	1.3808E8	4,239	41	1482.42%	277.20%	2,664	3,679	1
1004	3.0439E8	27,152	37	378.79%	64.25%	3,943	5,356	1
1005	1.4909E8	4,572	33	1828.64%	267.07%	2,913	4,077	1
1006	2.1413E8	15,369	35	171.00%	95.21%	2,047	2,847	1
1007	4.6886E8	11,401	13	450.85%	189.93%	1,711	2,693	1
1008	1.38E10	83,341	3	324.18%	140.95%	18,651	20,982	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1009	South Carolina	Streets & Highways	36,392	2,399	2,399	(0.00%)	36,392
1010	South Carolina	Housing & Community Development (Local)	57,908	1,065	1,065	0.01%	57,908
1011	South Carolina	Local Libraries	11,826	1,348	1,348	(0.00%)	11,826
1012	South Carolina	Natural Resources	2,096	113	111	1.95%	2,096
1013	South Carolina	Parks & Recreation	23,856	2,256	2,256	(0.00%)	23,856
1014	South Carolina	Police Protection - Officers	342,534	9,464	9,464	(0.00%)	342,534
1015	South Carolina	Welfare	34,012	330	330	(0.02%)	34,012
1016	South Carolina	Sewerage	35,901	1,877	1,877	(0.01%)	35,901
1017	South Carolina	Solid Waste Management	29,863	2,060	2,060	(0.01%)	29,863
1018	South Carolina	Other & Unallocable	53,721	3,006	3,006	(0.00%)	53,721
1019	South Carolina	Water Supply	63,679	2,762	2,762	(0.01%)	63,679
1020	South Carolina	Electric Power	3,629	267	267	(0.08%)	3,629

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1009	85467572	14,845	27	145.15%	62.28%	2,025	2,773	1
1010	2.0365E8	5,131	9	1028.69%	278.15%	593	1,537	1
1011	5581210	1,159	12	920.10%	203.79%	1,135	1,561	1
1012	27062897	1,735	2	20.81%	299.85%	23	203	1
1013	43751636	3,121	32	664.43%	211.95%	1,953	2,559	1
1014	1.3054E9	36,480	45	838.95%	99.04%	8,317	10,611	1
1015	1.3053E9	16,929	9	100.91%	213.41%	0	691	1
1016	37118558	13,327	33	169.37%	45.71%	1,505	2,248	1
1017	44384540	8,559	34	248.89%	77.84%	1,721	2,399	1
1018	3.253E8	10,451	30	414.04%	172.58%	2,552	3,460	1
1019	2.9371E8	12,693	30	401.71%	135.02%	2,267	3,256	1
1020	4832518	2,078	7	74.64%	105.78%	149	385	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1021	South Carolina	Gas Supply	4,551	354	354	(0.02%)	4,551
1022	South Carolina	Transit	37,348	335	335	(0.00%)	37,348
1023	South Carolina	Elementary and Secondary - Other Total	21661946	26,568	26,564	0.01%	21661946
1024	South Carolina	Fire - Other	900	273	273	0.05%	900
1025	South Carolina	Police-Other	13,331	1,895	1,895	0.01%	13,331
1026	South Dakota	Correction	4,600	619	619	(0.00%)	4,600
1027	South Dakota	Elementary and Secondary - Instruction	1852853	13,256	13,257	(0.01%)	1852853
1028	South Dakota	Financial Administration	10,610	915	915	(0.02%)	10,610
1029	South Dakota	Firefighters	630	426	422	1.05%	630
1030	South Dakota	Judical & Legal	784	272	272	0.00%	784
1031	South Dakota	Other Government Administration	2,775	384	384	0.00%	2,775
1032	South Dakota	Health	250	208	208	0.01%	250

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1021	8991907	1,380	4	229.75%	217.27%	222	486	1
1022	4.5667E8	10,894	4	242.84%	196.17%	0	714	1
1023	7.131E12	2360913	18	817.52%	113.11%	17,445	35,690	1
1024	4913396	621	13	44.85%	356.71%	214	332	1
1025	7861243	1,466	29	809.49%	191.28%	1,669	2,121	1
1026	3309682	1,122	8	310.04%	162.15%	486	752	1
1027	5.303E10	119,031	28	1456.62%	193.47%	10,588	15,924	1
1028	1893891	1,024	51	936.29%	134.42%	713	1,117	1
1029	3509979	480	1	31.28%	390.64%	377	476	1
1030	44,872	162	15	385.07%	131.05%	217	327	1
1031	781,612	982	12	182.56%	90.03%	281	487	1
1032	4,637	62	9	304.91%	110.10%	177	239	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1033	South Dakota	Hospitals	9,453	364	334	9.05%	9,453
1034	South Dakota	Streets & Highways	25,237	1,353	1,353	(0.02%)	25,237
1035	South Dakota	Housing & Community Development (Local)	151	122	122	(0.00%)	151
1036	South Dakota	Local Libraries	68	202	202	0.03%	68
1037	South Dakota	Natural Resources	875	173	173	(0.07%)	875
1038	South Dakota	Parks & Recreation	5	340	340	0.06%	5
1039	South Dakota	Police Protection - Officers	3,775	1,271	1,271	(0.03%)	3,775
1040	South Dakota	Welfare	42	161	161	0.00%	42
1041	South Dakota	Sewerage	101	216	216	(0.03%)	101
1042	South Dakota	Solid Waste Management	93	205	205	(0.04%)	93
1043	South Dakota	Other & Unallocable	4,088	877	877	0.02%	4,088
1044	South Dakota	Water Supply	170	310	310	(0.04%)	170

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1033	0	0	1	.	.	174	555	1
1034	13286293	1,629	48	1449.60%	223.81%	1,041	1,664	1
1035	2,281	32	4	373.90%	149.73%	98	146	1
1036	2,007	59	5	15.18%	76.15%	186	218	1
1037	65,139	268	22	226.75%	95.34%	115	231	1
1038	24	1	1	264.29%	344.16%	336	345	1
1039	525,156	876	37	331.19%	82.77%	1,150	1,391	1
1040	236	10	6	320.73%	152.64%	148	174	1
1041	20,285	80	8	26.86%	178.32%	196	236	1
1042	15,357	81	4	15.72%	153.71%	186	224	1
1043	3995007	1,390	21	194.11%	143.79%	752	1,003	1
1044	28,689	100	17	70.09%	169.84%	284	335	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1045	South Dakota	Electric Power	43	151	151	0.02%	43
1046	South Dakota	Transit	17	27	24	13.2%	17
1047	South Dakota	Elementary and Secondary - Other Total	157,460	4,211	4,210	0.02%	157,460
1048	South Dakota	Police-Other	1,180	252	252	0.02%	1,180
1049	Tennessee	Airports	7,474	851	849	0.19%	7,474
1050	Tennessee	Correction	269,940	5,014	5,014	(0.01%)	269,940
1051	Tennessee	Elementary and Secondary - Instruction	67476375	89,410	89,411	(0.00%)	67476375
1052	Tennessee	Financial Administration	176,877	4,053	4,054	(0.02%)	176,877
1053	Tennessee	Firefighters	436,778	7,224	7,225	(0.01%)	436,778
1054	Tennessee	Judical & Legal	141,810	4,403	4,403	0.00%	141,810
1055	Tennessee	Other Government Administration	432,232	4,007	4,004	0.07%	432,232
1056	Tennessee	Health	196,465	3,673	3,674	(0.04%)	196,465

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1045	384	13	6	219.43%	147.10%	138	164	1
1046	0	0	1	1209428%	21845.1%	19	35	1
1047	9.9961E8	21,762	27	623.56%	145.28%	3,433	4,988	1
1048	506,682	756	12	56.05%	94.14%	185	319	1
1049	18922213	2,161	3	245.82%	201.26%	681	1,020	1
1050	4.9565E9	55,317	20	387.99%	127.27%	3,995	6,032	1
1051	1.922E13	2289235	31	2847.55%	191.51%	73,310	105,510	1
1052	4.3555E9	40,767	43	333.88%	161.89%	3,229	4,878	1
1053	1.99E10	246,313	25	77.33%	57.27%	5,929	8,520	1
1054	7.4412E9	59,530	29	138.22%	144.90%	3,665	5,141	1
1055	1.563E11	175,440	41	146.37%	225.33%	2,718	5,295	1
1056	1.7528E9	29,573	22	564.34%	141.57%	2,804	4,541	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1057	Tennessee	Hospitals	1554531	18,826	18,827	(0.01%)	1554531
1058	Tennessee	Streets & Highways	699,725	6,483	6,480	0.05%	699,725
1059	Tennessee	Housing & Community Development (Local)	92,819	1,883	1,884	(0.07%)	92,819
1060	Tennessee	Local Libraries	9,658	1,138	1,138	(0.01%)	9,658
1061	Tennessee	Natural Resources	10,556	200	201	(0.58%)	10,556
1062	Tennessee	Parks & Recreation	84,185	2,382	2,383	(0.03%)	84,185
1063	Tennessee	Police Protection - Officers	1335091	14,529	14,530	(0.00%)	1335091
1064	Tennessee	Welfare	136,751	2,036	2,036	0.02%	136,751
1065	Tennessee	Sewerage	73,646	1,895	1,895	(0.00%)	73,646
1066	Tennessee	Solid Waste Management	103,344	2,719	2,720	(0.04%)	103,344
1067	Tennessee	Other & Unallocable	223,828	3,219	3,219	(0.00%)	223,828
1068	Tennessee	Water Supply	442,652	4,577	4,579	(0.03%)	442,652

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1057	9.706E11	1153785	3	34.73%	85.39%	16,382	21,269	1
1058	7.956E10	229,922	43	204.33%	122.67%	4,843	8,122	1
1059	3.9603E8	9,219	14	906.78%	215.85%	1,285	2,480	1
1060	91245729	7,180	16	34.52%	133.04%	945	1,330	1
1061	2.7979E8	8,367	9	26.15%	199.91%	0	401	1
1062	1.9982E9	34,881	28	141.35%	128.15%	1,814	2,951	1
1063	1.073E11	379,114	45	252.16%	86.39%	12,265	16,794	1
1064	1.168E10	90,191	8	51.62%	119.83%	1,312	2,761	1
1065	3.9359E9	37,619	19	95.77%	166.77%	1,363	2,427	1
1066	7.548E9	43,744	34	136.25%	198.61%	2,089	3,349	1
1067	4.14E10	189,495	35	18.12%	107.38%	2,292	4,146	1
1068	8.724E10	166,966	31	165.11%	176.90%	3,273	5,881	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1069	Tennessee	Electric Power	475,223	5,754	5,750	0.06%	475,223
1070	Tennessee	Gas Supply	89,499	1,951	1,949	0.11%	89,499
1071	Tennessee	Transit	1,551	847	843	0.48%	1,551
1072	Tennessee	Elementary and Secondary - Other Total	9499608	34,836	34,831	0.01%	9499608
1073	Tennessee	Fire - Other	1,000	287	287	0.00%	1,000
1074	Tennessee	Police-Other	96,940	2,995	2,997	(0.06%)	96,940
1075	Texas	Airports	5,976	5,066	5,066	0.00%	5,976
1076	Texas	Correction	3170959	27,822	27,814	0.03%	3170959
1077	Texas	Elementary and Secondary - Instruction	5.0708E8	448,393	448,399	(0.00%)	5.0708E8
1078	Texas	Higher Education - Other	19305862	20,470	20,466	0.02%	19305862
1079	Texas	Higher Education - Instructional	6935126	11,387	11,382	0.04%	6935126
1080	Texas	Financial Administration	812,706	15,741	15,750	(0.06%)	812,706

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1069	5.507E10	313,839	10	51.42%	74.77%	4,402	7,105	1
1070	3.4907E9	51,809	12	72.75%	114.04%	1,365	2,537	1
1071	3823592	356	2	335.75%	549.45%	770	924	1
1072	1.433E12	760,898	31	1148.47%	157.33%	28,795	40,877	1
1073	1287690	627	12	59.52%	180.98%	225	349	1
1074	1.2678E9	53,465	34	81.31%	66.60%	2,385	3,605	1
1075	6832491	1,796	14	232.74%	145.54%	4,915	5,218	1
1076	4.826E11	613,658	34	416.73%	113.21%	24,332	31,312	1
1077	8.709E14	33927526	99	1394.61%	86.98%	404,257	492,530	1
1078	2.786E13	11220561	9	72.06%	47.04%	11,858	29,082	1
1079	3.166E12	3770821	9	83.92%	47.19%	6,225	16,548	1
1080	2.646E11	289,248	93	180.97%	177.84%	13,974	17,508	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1081	Texas	Firefighters	1414015	23,341	23,310	0.13%	1414015
1082	Texas	Judicial & Legal	1201907	20,155	20,158	(0.02%)	1201907
1083	Texas	Other Government Administration	1270727	12,768	12,738	0.24%	1270727
1084	Texas	Health	611,347	22,298	22,294	0.02%	611,347
1085	Texas	Hospitals	3400079	46,456	46,483	(0.06%)	3400079
1086	Texas	Streets & Highways	1318326	19,637	19,637	(0.00%)	1318326
1087	Texas	Housing & Community Development (Local)	854,403	5,315	5,312	0.05%	854,403
1088	Texas	Local Libraries	94,882	5,127	5,124	0.07%	94,882
1089	Texas	Natural Resources	564,262	2,822	2,828	(0.21%)	564,262
1090	Texas	Parks & Recreation	463,840	12,335	12,337	(0.02%)	463,840
1091	Texas	Police Protection - Officers	5065552	49,607	49,586	0.04%	5065552
1092	Texas	Welfare	280,616	3,557	3,556	0.03%	280,616

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1081	1.858E12	541,611	54	161.08%	251.66%	21,010	25,672	1
1082	3.33E10	171,498	89	600.83%	106.41%	18,006	22,303	1
1083	1.163E12	680,295	90	86.79%	158.54%	10,559	14,978	1
1084	1.229E10	158,536	60	285.62%	69.94%	20,766	23,830	1
1085	9.446E13	1906867	27	78.31%	509.69%	42,842	50,071	1
1086	5.984E10	347,425	91	279.46%	70.41%	17,386	21,887	1
1087	5.946E10	120,509	21	609.00%	202.35%	3,503	7,126	1
1088	3.6773E9	48,928	51	93.92%	123.94%	4,524	5,731	1
1089	3.853E10	150,891	25	273.95%	130.08%	1,350	4,294	1
1090	1.364E10	186,151	59	149.17%	62.74%	11,000	13,670	1
1091	1.52E12	1064907	94	375.68%	115.79%	45,196	54,019	1
1092	1.479E11	185,920	21	50.93%	206.82%	2,519	4,595	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1093	Texas	Sewerage	346,382	7,280	7,278	0.03%	346,382
1094	Texas	Solid Waste Management	270,639	5,961	5,943	0.29%	270,639
1095	Texas	Water Transport & Terminals	73,128	1,154	1,089	5.94%	73,128
1096	Texas	Other & Unallocable	660,304	15,589	15,582	0.05%	660,304
1097	Texas	Water Supply	1579144	15,090	15,099	(0.06%)	1579144
1098	Texas	Electric Power	199,535	8,075	8,078	(0.04%)	199,535
1099	Texas	Gas Supply	22,891	1,384	1,362	1.62%	22,891
1100	Texas	Transit	412,335	10,517	10,501	0.16%	412,335
1101	Texas	Elementary and Secondary - Other Total	1.0014E8	195,818	195,811	0.00%	1.0014E8
1102	Texas	Fire - Other	16,397	1,503	1,501	0.14%	16,397
1103	Texas	Police-Other	550,205	15,172	15,169	0.02%	550,205
1104	Utah	Airports	480	528	528	(0.06%)	480

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1093	3.645E10	164,489	48	110.58%	116.07%	6,126	8,433	1
1094	1.52E11	179,696	34	50.61%	216.95%	4,941	6,980	1
1095	3.3805E9	26,388	2	177.13%	220.34%	624	1,684	1
1096	4.542E10	259,280	76	154.67%	82.19%	13,997	17,182	1
1097	1.334E12	619,840	63	154.77%	186.31%	12,627	17,553	1
1098	3.05E10	120,803	6	65.17%	144.57%	7,199	8,950	1
1099	1.656E9	18,710	3	22.35%	217.50%	1,087	1,681	1
1100	8.537E10	168,912	6	144.11%	172.98%	9,258	11,775	1
1101	1.576E14	19513891	100	413.18%	64.33%	176,204	215,432	1
1102	1.648E10	14,547	36	12.71%	882.51%	1,252	1,754	1
1103	1.57E10	169,170	76	225.24%	74.06%	13,718	16,626	1
1104	753,715	284	2	68.77%	305.37%	485	571	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1105	Utah	Correction	57,288	2,098	2,098	(0.00%)	57,288
1106	Utah	Elementary and Secondary - Instruction	17440310	30,211	30,213	(0.01%)	17440310
1107	Utah	Financial Administration	22,581	1,494	1,491	0.18%	22,581
1108	Utah	Firefighters	3,736	1,872	1,872	(0.02%)	3,736
1109	Utah	Judicial & Legal	12,333	1,212	1,212	0.03%	12,333
1110	Utah	Other Government Administration	33,702	1,825	1,824	0.06%	33,702
1111	Utah	Health	67,934	2,531	2,531	(0.01%)	67,934
1112	Utah	Hospitals	48,010	268	228	17.5%	48,010
1113	Utah	Streets & Highways	36,796	1,489	1,489	(0.03%)	36,796
1114	Utah	Housing & Community Development (Local)	5,268	490	489	0.11%	5,268
1115	Utah	Local Libraries	2,183	697	697	0.04%	2,183
1116	Utah	Natural Resources	3,716	118	117	0.47%	3,716

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1105	2.0338E8	5,167	7	1008.83%	276.03%	1,629	2,567	1
1106	2.849E13	301,331	7	5687.75%	1771.35%	22,026	38,397	1
1107	28345278	3,605	30	526.36%	147.68%	1,199	1,788	1
1108	12554243	1,498	11	149.50%	236.60%	1,752	1,991	1
1109	9866142	1,714	22	619.43%	183.23%	995	1,430	1
1110	1.09E8	7,927	30	325.18%	131.71%	1,465	2,185	1
1111	1.9703E9	25,377	9	167.70%	174.91%	2,020	3,042	1
1112	7.5036E8	14,990	2	220.29%	182.74%	0	697	1
1113	1.9261E8	7,820	29	370.53%	177.47%	1,113	1,865	1
1114	1808980	623	6	745.07%	215.77%	347	632	1
1115	393,615	499	11	337.07%	125.61%	606	789	1
1116	18821161	3,075	3	20.86%	141.11%	0	237	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1117	Utah	Parks & Recreation	11,335	1,468	1,468	(0.02%)	11,335
1118	Utah	Police Protection - Officers	70,851	3,783	3,783	0.00%	70,851
1119	Utah	Welfare	14,394	441	441	(0.04%)	14,394
1120	Utah	Sewerage	8,413	984	984	0.00%	8,413
1121	Utah	Solid Waste Management	6,327	579	579	0.03%	6,327
1122	Utah	Other & Unallocable	15,732	1,358	1,358	0.02%	15,732
1123	Utah	Water Supply	23,376	1,521	1,514	0.43%	23,376
1124	Utah	Electric Power	5,947	536	536	0.09%	5,947
1125	Utah	Gas Supply	85	9	6	42.5%	85
1126	Utah	Transit	54,349	2,088	1,985	5.17%	54,349
1127	Utah	Elementary and Secondary - Other Total	2264731	11,567	11,570	(0.03%)	2264731
1128	Utah	Fire - Other	11	134	134	0.25%	11

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1117	10172747	3,705	28	205.95%	86.09%	1,259	1,676	1
1118	3.4001E8	10,904	27	549.80%	169.11%	3,261	4,305	1
1119	79717207	5,389	6	167.11%	165.68%	206	676	1
1120	8983819	2,136	25	293.91%	140.33%	804	1,164	1
1121	8108248	2,232	12	183.50%	127.60%	423	735	1
1122	46317811	4,571	24	244.17%	148.89%	1,112	1,604	1
1123	1.4005E9	10,763	31	117.19%	347.70%	1,221	1,820	1
1124	13857649	1,780	8	234.09%	209.12%	385	688	1
1125	4,841	14	1	509.81%	497.17%	0	27	1
1126	9.3942E9	34,971	1	55.41%	277.15%	1,631	2,545	1
1127	6.251E11	178,691	7	1167.40%	442.45%	8,617	14,516	1
1128	22	3	2	244.69%	150.80%	128	141	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1129	Utah	Police-Other	5,199	1,087	1,087	(0.01%)	5,199
1130	Vermont	Elementary and Secondary - Instruction	1522138	13,173	13,175	(0.01%)	1522138
1131	Vermont	Financial Administration	2,282	305	305	(0.09%)	2,282
1132	Vermont	Firefighters	38	256	256	0.12%	38
1133	Vermont	Judical & Legal	25	22	22	(0.01%)	25
1134	Vermont	Other Government Administration	3,426	451	451	(0.10%)	3,426
1135	Vermont	Health	62	21	20	3.58%	62
1136	Vermont	Streets & Highways	19,175	1,007	1,008	(0.06%)	19,175
1137	Vermont	Housing & Community Development (Local)	86	158	158	0.08%	86
1138	Vermont	Local Libraries	171	76	76	(0.07%)	171
1139	Vermont	Natural Resources	39	6	6	1.60%	39
1140	Vermont	Parks & Recreation	76	106	106	0.02%	76

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1129	5079408	1,021	22	409.31%	220.80%	946	1,228	1
1130	1.351E10	169,936	58	795.71%	68.39%	10,755	15,591	1
1131	1324258	1,376	23	65.88%	83.63%	211	398	1
1132	480	9	2	309.44%	233.71%	244	268	1
1133	120	5	1	382.67%	208.43%	12	32	1
1134	2313164	1,449	27	136.44%	104.95%	336	565	1
1135	8,827	35	3	77.86%	270.21%	5	36	1
1136	20682331	4,792	37	300.13%	94.90%	736	1,279	1
1137	1,801	12	2	620.58%	356.64%	140	176	1
1138	36,137	94	5	81.91%	201.90%	50	102	1
1139	1,409	19	1	107.76%	197.93%	0	18	1
1140	4,469	54	4	40.48%	123.76%	89	123	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1141	Vermont	Police Protection - Officers	1,798	626	626	(0.06%)	1,798
1142	Vermont	Sewerage	512	158	158	(0.19%)	512
1143	Vermont	Solid Waste Management	201	111	111	0.09%	201
1144	Vermont	Other & Unallocable	40	119	119	(0.01%)	40
1145	Vermont	Water Supply	474	164	165	(0.32%)	474
1146	Vermont	Electric Power	1,436	214	214	(0.20%)	1,436
1147	Vermont	Transit	54	196	195	0.69%	54
1148	Vermont	Elementary and Secondary - Other Total	126,360	3,298	3,298	(0.01%)	126,360
1149	Vermont	Fire - Other	49	11	5	119%	49
1150	Vermont	Police-Other	174	177	177	0.01%	174
1151	Virginia	Airports	104,521	2,014	2,014	(0.01%)	104,521
1152	Virginia	Correction	719,386	8,914	8,912	0.03%	719,386

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1141	386,043	706	14	154.86%	88.07%	542	709	1
1142	212,773	362	10	41.52%	127.57%	113	202	1
1143	17,627	70	5	188.59%	190.81%	83	139	1
1144	695	17	4	137.64%	154.87%	107	131	1
1145	160,025	334	9	41.73%	119.61%	122	207	1
1146	601,257	355	3	304.20%	218.21%	139	288	1
1147	37	0	1	28845.0%	3265.47%	182	211	1
1148	3.3311E9	30,018	55	320.95%	192.27%	2,601	3,994	1
1149	30	0	1	29219.6%	3314.23%	0	25	1
1150	1,322	20	7	781.66%	184.53%	151	203	1
1151	2.8996E9	18,570	4	462.85%	289.98%	1,380	2,647	1
1152	2.126E10	244,912	20	193.73%	59.53%	7,252	10,577	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1153	Virginia	Elementary and Secondary - Instruction	48295021	135,659	135,658	0.00%	48295021
1154	Virginia	Financial Administration	147,410	6,824	6,825	(0.01%)	147,410
1155	Virginia	Firefighters	62,890	9,182	9,182	0.00%	62,890
1156	Virginia	Judical & Legal	67,870	4,580	4,579	0.02%	67,870
1157	Virginia	Other Government Administration	107,656	4,219	4,222	(0.06%)	107,656
1158	Virginia	Health	54,987	5,005	5,004	0.01%	54,987
1159	Virginia	Hospitals	161,835	1,861	1,819	2.32%	161,835
1160	Virginia	Streets & Highways	219,376	3,659	3,660	(0.02%)	219,376
1161	Virginia	Housing & Community Development (Local)	2,205	1,810	1,810	0.01%	2,205
1162	Virginia	Local Libraries	113,222	2,351	2,350	0.05%	113,222
1163	Virginia	Natural Resources	51,211	295	295	0.03%	51,211
1164	Virginia	Parks & Recreation	33,050	4,814	4,814	0.00%	33,050

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1153	3.554E13	2362689	33	1944.07%	252.33%	122,039	149,280	1
1154	1.475E10	35,095	39	320.04%	346.06%	6,072	7,577	1
1155	2.8651E8	16,245	16	287.14%	104.20%	8,691	9,674	1
1156	1.6622E8	12,328	31	450.52%	104.58%	4,069	5,090	1
1157	1.699E10	47,463	36	126.82%	274.63%	3,576	4,862	1
1158	3.6052E9	34,895	17	57.58%	172.07%	4,545	5,464	1
1159	0	0	1	.	.	1,073	2,650	1
1160	1.01E10	63,633	16	244.75%	157.97%	2,741	4,577	1
1161	50352365	1,508	8	46.20%	470.52%	1,718	1,902	1
1162	2.9008E9	24,329	20	365.38%	221.38%	1,692	3,011	1
1163	6.5977E9	32,086	5	59.61%	253.15%	0	739	1
1164	1.1743E9	17,787	31	85.81%	192.66%	4,458	5,170	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1165	Virginia	Police Protection - Officers	670,228	14,681	14,686	(0.04%)	670,228
1166	Virginia	Welfare	212,699	8,192	8,192	(0.00%)	212,699
1167	Virginia	Sewerage	188,911	4,091	4,089	0.04%	188,911
1168	Virginia	Solid Waste Management	126,172	3,177	3,176	0.03%	126,172
1169	Virginia	Water Transport & Terminals	582	24	1	2307%	582
1170	Virginia	Other & Unallocable	178,531	9,343	9,342	0.01%	178,531
1171	Virginia	Water Supply	171,314	3,615	3,616	(0.02%)	171,314
1172	Virginia	Electric Power	7,599	342	332	3.03%	7,599
1173	Virginia	Transit	57,214	1,017	1,004	1.28%	57,214
1174	Virginia	Elementary and Secondary - Other Total	8591113	51,011	51,015	(0.01%)	8591113
1175	Virginia	Fire - Other	1,027	813	813	0.01%	1,027
1176	Virginia	Police-Other	52,352	3,369	3,368	0.02%	52,352

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1165	1.198E11	135,822	39	393.46%	254.80%	13,076	16,285	1
1166	1.4118E9	75,736	21	180.84%	49.61%	7,288	9,096	1
1167	1.097E10	59,860	18	215.59%	174.98%	3,239	4,943	1
1168	6.7039E9	49,582	31	154.47%	165.14%	2,481	3,873	1
1169	5,325	3	1	23082.7%	2908.71%	0	71	1
1170	2.2532E9	37,643	36	374.28%	126.10%	8,515	10,171	1
1171	1.204E10	81,116	22	111.19%	135.30%	2,803	4,426	1
1172	94683057	2,480	3	206.36%	392.31%	171	513	1
1173	5.3092E9	34,549	3	65.60%	210.90%	548	1,486	1
1174	7.353E11	466,843	33	1740.26%	183.69%	45,266	56,756	1
1175	392,728	399	10	157.20%	156.87%	750	876	1
1176	2.1894E9	19,437	31	169.34%	240.73%	2,920	3,817	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1177	Washington	Airports	64,776	1,059	1,035	2.34%	64,776
1178	Washington	Correction	202,738	4,609	4,609	(0.01%)	202,738
1179	Washington	Elementary and Secondary - Instruction	53258806	57,879	57,880	(0.00%)	53258806
1180	Washington	Financial Administration	218,258	4,987	4,986	0.03%	218,258
1181	Washington	Firefighters	1208898	7,423	7,441	(0.24%)	1208898
1182	Washington	Judical & Legal	158,398	5,657	5,658	(0.02%)	158,398
1183	Washington	Other Government Administration	200,683	4,200	4,203	(0.07%)	200,683
1184	Washington	Health	237,343	3,211	3,233	(0.68%)	237,343
1185	Washington	Hospitals	1184815	11,184	11,174	0.09%	1184815
1186	Washington	Streets & Highways	399,735	6,716	6,716	(0.01%)	399,735
1187	Washington	Housing & Community Development (Local)	642,746	2,585	2,578	0.27%	642,746
1188	Washington	Local Libraries	328,260	2,133	2,126	0.33%	328,260

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1177	5.8644E9	36,281	2	78.54%	211.07%	560	1,558	1
1178	2.1928E9	24,753	14	719.03%	189.18%	3,726	5,491	1
1179	1.427E12	259,577	38	20417.6%	460.24%	43,575	72,183	1
1180	1.616E10	55,720	33	291.70%	228.14%	4,072	5,903	1
1181	4.948E11	328,984	25	267.46%	213.82%	5,268	9,578	1
1182	7.9959E8	14,701	28	977.48%	192.35%	4,877	6,437	1
1183	1.747E10	97,594	32	105.63%	135.45%	3,322	5,078	1
1184	1.379E11	73,853	10	221.37%	502.90%	2,256	4,166	1
1185	3.737E10	84,079	11	1309.16%	229.92%	9,051	13,318	1
1186	1.825E10	76,615	32	421.75%	176.32%	5,476	7,955	1
1187	1.334E11	154,211	10	316.80%	236.82%	1,014	4,156	1
1188	1.842E10	52,946	8	519.99%	256.37%	1,010	3,256	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1189	Washington	Natural Resources	476,577	1,272	1,263	0.68%	476,577
1190	Washington	Parks & Recreation	149,292	3,430	3,429	0.04%	149,292
1191	Washington	Police Protection - Officers	673,490	9,204	9,201	0.03%	673,490
1192	Washington	Welfare	66,188	1,237	1,234	0.26%	66,188
1193	Washington	Sewerage	221,177	3,366	3,375	(0.27%)	221,177
1194	Washington	Solid Waste Management	29,070	1,458	1,457	0.05%	29,070
1195	Washington	Water Transport & Terminals	264,095	1,716	1,716	(0.02%)	264,095
1196	Washington	Other & Unallocable	3068229	4,244	4,196	1.15%	3068229
1197	Washington	Water Supply	432,517	3,728	3,709	0.50%	432,517
1198	Washington	Electric Power	424,665	8,023	8,020	0.04%	424,665
1199	Washington	Gas Supply	4,002	65	20	226%	4,002
1200	Washington	Transit	627,184	7,841	7,852	(0.14%)	627,184

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1189	7.966E11	181,223	9	162.98%	492.49%	0	2,625	1
1190	7.598E10	84,490	28	76.70%	326.24%	2,673	4,188	1
1191	7.531E10	168,444	32	299.83%	162.92%	7,595	10,812	1
1192	4.09E10	56,055	4	18.08%	360.79%	733	1,741	1
1193	2.59E10	95,497	23	131.61%	168.53%	2,444	4,288	1
1194	1.5901E9	25,798	17	12.68%	154.57%	1,124	1,792	1
1195	4.812E10	142,028	3	85.94%	154.45%	708	2,723	1
1196	1.226E15	2849471	26	7.68%	1229.05%	811	7,677	1
1197	1.156E11	158,228	23	173.35%	214.88%	2,439	5,017	1
1198	1.048E10	81,316	9	422.24%	125.88%	6,746	9,300	1
1199	4677412	622	1	543.75%	347.86%	0	189	1
1200	6.313E10	131,133	6	378.28%	191.60%	6,289	9,393	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1201	Washington	Elementary and Secondary - Other Total	4093710	14,865	14,864	0.01%	4093710
1202	Washington	Fire - Other	27,647	607	605	0.41%	27,647
1203	Washington	Police-Other	59,205	2,678	2,676	0.08%	59,205
1204	West Virginia	Airports	1,540	150	150	(0.08%)	1,540
1205	West Virginia	Correction	323	76	76	0.13%	323
1206	West Virginia	Elementary and Secondary - Instruction	32123430	26,326	26,327	(0.00%)	32123430
1207	West Virginia	Financial Administration	50,049	1,402	1,401	0.04%	50,049
1208	West Virginia	Firefighters	2,218	931	931	0.01%	2,218
1209	West Virginia	Judical & Legal	17,755	983	983	0.01%	17,755
1210	West Virginia	Other Government Administration	17,714	1,085	1,085	0.01%	17,714
1211	West Virginia	Health	22,698	1,022	1,022	(0.04%)	22,698
1212	West Virginia	Hospitals	14,072	2,085	2,085	(0.00%)	14,072

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1201	4.974E11	220,385	38	1757.53%	320.01%	10,899	18,831	1
1202	2.3996E9	17,576	20	57.30%	278.72%	282	933	1
1203	3.6595E8	15,878	29	272.89%	120.48%	2,201	3,155	1
1204	3512417	739	2	108.42%	253.60%	73	227	1
1205	31,783	220	6	46.67%	80.88%	41	111	1
1206	1.166E13	1120510	16	2766.86%	304.78%	15,217	37,435	1
1207	1.8413E8	17,405	31	187.57%	77.97%	963	1,840	1
1208	3228870	1,664	7	33.27%	107.99%	839	1,023	1
1209	12418538	1,976	22	798.32%	178.30%	722	1,244	1
1210	29955704	4,608	33	284.37%	118.76%	824	1,346	1
1211	33851512	3,596	18	531.20%	161.80%	726	1,317	1
1212	52543821	2,839	2	395.73%	255.35%	1,852	2,318	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1213	West Virginia	Streets & Highways	7,568	723	723	0.06%	7,568
1214	West Virginia	Housing & Community Development (Local)	10,193	488	488	0.06%	10,193
1215	West Virginia	Local Libraries	4,059	329	329	0.03%	4,059
1216	West Virginia	Natural Resources	1,414	89	89	(0.07%)	1,414
1217	West Virginia	Parks & Recreation	1,290	503	503	(0.07%)	1,290
1218	West Virginia	Police Protection - Officers	39,518	2,398	2,398	(0.01%)	39,518
1219	West Virginia	Welfare	133	11	9	27.3%	133
1220	West Virginia	Sewerage	19,223	936	941	(0.48%)	19,223
1221	West Virginia	Solid Waste Management	8,257	664	668	(0.59%)	8,257
1222	West Virginia	Other & Unallocable	27,475	1,350	1,351	(0.08%)	27,475
1223	West Virginia	Water Supply	28,941	1,208	1,206	0.20%	28,941
1224	West Virginia	Electric Power	335	19	18	2.95%	335

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1213	8574864	3,875	20	95.28%	75.56%	553	894	1
1214	5325194	1,010	9	908.95%	228.41%	290	686	1
1215	3102694	884	4	359.33%	199.35%	204	454	1
1216	8564621	1,035	7	36.68%	282.81%	15	163	1
1217	552,179	461	13	179.75%	161.15%	432	573	1
1218	5.0038E8	7,133	42	453.99%	313.58%	2,008	2,787	1
1219	10,879	53	1	152.07%	197.02%	0	34	1
1220	6.8947E8	8,460	28	127.24%	310.39%	665	1,208	1
1221	22516149	2,758	14	199.34%	172.03%	486	842	1
1222	55478889	8,666	20	217.04%	85.95%	1,025	1,675	1
1223	60698387	11,316	29	155.75%	68.85%	875	1,542	1
1224	26,858	50	1	565.16%	325.05%	0	54	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1225	West Virginia	Transit	4,861	477	477	(0.08%)	4,861
1226	West Virginia	Elementary and Secondary - Other Total	8146071	13,447	13,447	(0.00%)	8146071
1227	West Virginia	Fire - Other	392	32	31	1.85%	392
1228	West Virginia	Police-Other	2,979	326	326	(0.03%)	2,979
1229	Wisconsin	Airports	121	363	363	(0.05%)	121
1230	Wisconsin	Correction	29,049	3,847	3,847	0.01%	29,049
1231	Wisconsin	Elementary and Secondary - Instruction	28820443	77,017	77,015	0.00%	28820443
1232	Wisconsin	Higher Education - Other	500,782	3,941	3,940	0.03%	500,782
1233	Wisconsin	Higher Education - Instructional	450,354	3,595	3,593	0.05%	450,354
1234	Wisconsin	Financial Administration	52,391	2,928	2,929	(0.04%)	52,391
1235	Wisconsin	Firefighters	19,055	3,942	3,942	0.01%	19,055
1236	Wisconsin	Judical & Legal	16,416	2,976	2,976	(0.01%)	16,416

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1225	16651169	1,712	3	183.99%	238.39%	340	613	1
1226	1.2E12	351,287	16	2218.92%	311.80%	7,853	19,041	1
1227	425,520	261	2	50.38%	250.30%	0	70	1
1228	1417140	988	18	201.42%	120.46%	219	433	1
1229	14,483	46	4	165.18%	264.43%	341	384	1
1230	21502293	2,516	24	1054.67%	184.32%	3,513	4,181	1
1231	1.008E12	748,492	81	3750.47%	134.16%	66,495	87,539	1
1232	9.0687E9	77,567	6	545.61%	122.77%	2,554	5,328	1
1233	4.6157E9	62,748	6	617.71%	108.27%	2,279	4,910	1
1234	7.4336E9	38,923	79	34.60%	221.51%	2,479	3,377	1
1235	54208278	6,095	30	212.62%	120.79%	3,672	4,213	1
1236	1338774	671	44	2348.05%	172.54%	2,725	3,227	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1237	Wisconsin	Other Government Administration	135,105	3,440	3,441	(0.04%)	135,105
1238	Wisconsin	Health	28,635	3,978	3,978	0.00%	28,635
1239	Wisconsin	Hospitals	54,670	620	605	2.56%	54,670
1240	Wisconsin	Streets & Highways	829,481	7,897	7,905	(0.10%)	829,481
1241	Wisconsin	Housing & Community Development (Local)	8,024	809	811	(0.28%)	8,024
1242	Wisconsin	Local Libraries	19,449	1,478	1,479	(0.08%)	19,449
1243	Wisconsin	Natural Resources	4,847	674	674	(0.01%)	4,847
1244	Wisconsin	Parks & Recreation	9,295	2,046	2,046	(0.00%)	9,295
1245	Wisconsin	Police Protection - Officers	220,125	11,225	11,231	(0.05%)	220,125
1246	Wisconsin	Welfare	472,278	9,877	9,877	(0.00%)	472,278
1247	Wisconsin	Sewerage	31,156	1,746	1,745	0.06%	31,156
1248	Wisconsin	Solid Waste Management	9,880	1,257	1,255	0.19%	9,880

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1237	2.093E10	100,176	73	34.87%	144.40%	2,719	4,160	1
1238	25509448	2,422	32	1082.42%	208.56%	3,646	4,310	1
1239	3.2007E8	11,090	2	392.99%	161.33%	162	1,079	1
1240	2.011E13	582,242	90	42.46%	770.18%	6,112	9,682	1
1241	1.1511E8	3,424	22	134.32%	313.32%	633	984	1
1242	8.2488E8	13,107	48	48.38%	219.12%	1,204	1,751	1
1243	2121685	2,253	27	115.13%	64.65%	537	810	1
1244	2.0797E8	5,890	50	57.82%	244.85%	1,857	2,235	1
1245	1.5299E9	53,081	83	314.70%	73.69%	10,306	12,145	1
1246	4.2392E9	30,535	31	1446.69%	213.23%	8,530	11,224	1
1247	6.7238E8	20,551	52	51.60%	126.17%	1,400	2,092	1
1248	5.6456E8	9,495	23	4.05%	250.24%	1,063	1,452	1

## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1249	Wisconsin	Other & Unallocable	14,061	2,545	2,545	0.02%	14,061
1250	Wisconsin	Water Supply	24,217	1,667	1,666	0.06%	24,217
1251	Wisconsin	Electric Power	16,948	522	522	(0.02%)	16,948
1252	Wisconsin	Transit	36	1,821	1,821	(0.00%)	36
1253	Wisconsin	Elementary and Secondary - Other Total	2328278	19,709	19,709	(0.00%)	2328278
1254	Wisconsin	Fire - Other	70	170	170	(0.04%)	70
1255	Wisconsin	Police-Other	15,096	2,914	2,915	(0.02%)	15,096
1256	Wyoming	Airports	753	135	135	(0.07%)	753
1257	Wyoming	Correction	28,368	660	660	0.02%	28,368
1258	Wyoming	Elementary and Secondary - Instruction	484,606	11,118	11,118	0.00%	484,606
1259	Wyoming	Higher Education - Other	57,838	1,224	1,224	(0.02%)	57,838
1260	Wyoming	Higher Education - Instructional	14,613	557	557	(0.00%)	14,613

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1249	1.4166E8	6,894	54	103.95%	172.64%	2,313	2,778	1
1250	4.5529E8	20,192	47	19.93%	105.67%	1,362	1,972	1
1251	5.4526E8	12,652	12	33.96%	184.56%	267	777	1
1252	462	9	2	288.90%	229.78%	1,809	1,833	1
1253	5.584E10	311,614	81	647.17%	75.83%	16,718	22,700	1
1254	10,114	13	8	430.10%	763.06%	154	186	1
1255	27673718	6,474	60	133.16%	81.25%	2,673	3,155	1
1256	51,077	74	4	918.88%	305.96%	81	189	1
1257	80803271	3,464	8	718.93%	259.49%	330	990	1
1258	7.1589E9	39,033	16	1141.52%	216.76%	9,754	12,483	1
1259	2.7494E8	6,852	2	744.08%	241.98%	752	1,695	1
1260	68085525	2,109	2	592.88%	391.25%	320	794	1



## Results from 1000 Replicates

Obs	state	itemcode	var(y^HT)	yHT	true	bias	EX_var
1261	Wyoming	Financial Administration	13,424	667	667	(0.03%)	13,424
1262	Wyoming	Firefighters	780	349	349	0.05%	780
1263	Wyoming	Judical & Legal	7,680	407	407	(0.01%)	7,680
1264	Wyoming	Other Government Administration	14,537	628	628	(0.00%)	14,537
1265	Wyoming	Health	1,863	378	378	(0.11%)	1,863
1266	Wyoming	Hospitals	97,701	5,571	5,572	(0.01%)	97,701
1267	Wyoming	Streets & Highways	16,392	766	766	(0.01%)	16,392
1268	Wyoming	Housing & Community Development (Local)	27	43	42	2.80%	27
1269	Wyoming	Local Libraries	4,010	205	205	0.04%	4,010
1270	Wyoming	Natural Resources	5,359	240	242	(0.67%)	5,359
1271	Wyoming	Parks & Recreation	2,083	451	451	0.04%	2,083
1272	Wyoming	Police Protection - Officers	18,262	1,250	1,250	(0.01%)	18,262

Obs	Var_var	var_HT	n_pps	RB	CV	lo	hi	cover
1261	19668783	1,993	17	573.45%	222.49%	440	894	1
1262	110,140	202	3	286.98%	164.58%	294	404	1
1263	10390495	991	9	674.96%	325.25%	235	579	1
1264	43570987	3,731	13	289.68%	176.94%	392	864	1
1265	213,375	284	8	556.90%	162.92%	293	462	1
1266	1.664E9	12,776	2	664.71%	319.28%	4,959	6,184	1
1267	21261239	2,247	17	629.54%	205.22%	515	1,017	1
1268	1	0	1	557291%	15083.1%	33	53	1
1269	1646064	532	5	654.30%	241.34%	81	329	1
1270	3441687	1,662	10	222.42%	111.62%	97	384	1
1271	800,214	802	12	159.57%	111.48%	362	541	1
1272	4922183	855	18	2036.33%	259.53%	985	1,515	1

