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**Variability Assessment of Data Treated by the
TopDown Algorithm for Redistricting**

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Abstract

This study provides empirical results for ongoing research and development. The objective of this study is to assess the variability of data results from application of the *TopDown Algorithm (TDA)* to the 2010 Census Edited File (2010 CEF) for Rhode Island and for twenty additional jurisdictions. The *TDA* is being planned for use to protect the confidentiality of respondent data collected during the 2020 Census. Following the 2010 Census, swapping was applied to the 2010 CEF to protect confidentiality. We assume that a version of the *TDA* will be applied to the 2020 CEF and that the results will be used by jurisdictions in devising redistricting plans for offices from the U.S. House of Representatives to local school boards and for the analysis of such plans by the U.S. Department of Justice (DOJ) for compliance with Federal voting rights laws, including Section 2 of the *Voting Rights Act of 1965*, 52 U.S.C. 10301. Throughout this report, we use 25 runs of the preliminary version of the *TDA* that was used to produce the 2010 Demonstration Data Products released in the fall of 2019. We use only the person-level data for which the privacy-loss budget was four ($\epsilon = 4$). Our approach has two parts: (1) to report observations on variability of results among 25 runs of the *TDA* and (2) to report observations on variability between the results among the 25 runs of the *TDA* and the published 2010 Census *Public Law 94-171* data. We observe that variability in data results from the *TDA* increases as we consider decreasing levels of geography and population.

Disclaimer and Acknowledgements: The views presented in this paper are those of the authors and not the U.S. Census Bureau. We are grateful to our colleagues Pat Cantwell, Mary Mulry, James Livsey, and Tucker McElroy for their careful review of this paper and for their many thoughtful comments and questions that have strengthened the paper's presentation and content. The statistics in this paper have been cleared by the Census Bureau Disclosure Review Board (DRB Clearance Number CBDRB-FY20-225). *Corresponding author for comments:* tommy.wright@census.gov; (301) 763-1702.

TECHNICAL SUMMARY

This study provides empirical results for ongoing research and development. The objective of this study is to assess the variability of data results from application of the *TopDown Algorithm (TDA)* to the 2010 Census Edited File (2010 CEF) for Rhode Island and for twenty additional jurisdictions. The *TDA* is being planned for use to protect the confidentiality of respondent data collected during the 2020 Census. Following the 2010 Census, swapping [5] was applied to the 2010 CEF to protect confidentiality. (It is important to note that we are unaware of any published studies or reports at any time on the variability of data results from the application of swapping.) We assume that a version of the *TDA* will be applied to the 2020 CEF. Throughout this report, we use 25 runs of the preliminary version of the *TDA* that was used to produce the 2010 Demonstration Data Products.

Our approach has two parts: (1) report variability among the 25 runs and (2) report variability of the 25 runs relative to the official published results from the 2010 Census (i.e., *Public Law 94-171*). We use only the person-level data for which the privacy-loss budget was four ($\epsilon = 4$). From our earlier work, with a different application of an earlier version of the *TDA*, we obtained results for other values of ϵ ranging from 0.01 to 10 and observed empirically that variability decreases as ϵ increases and that this decrease in variability seems to level off for values of $\epsilon \geq 3$.

The first set of analyses in our study is a follow-up to earlier analyses done for Rhode Island in the context of the 2018 End-to-End Census Test. For each of the given redistricting plans we studied for Rhode Island, we observe that counts and percentages put in place from swapping being applied to the 2010 CEF have similar counts and percentages after the *TDA* is applied to the same 2010 CEF. Also for each of these plans, we further observe empirically that variability in the *TDA* increases as we consider decreasing levels of geography and population: from congressional districts, to upper chamber districts, and finally to lower chamber districts for Rhode Island data.

In the second set of analyses in our study, we repeat our analyses for three specific cases provided by DOJ. Our observations for the smaller geographies and populations of these three cases show less similarities between swapping and *TDA* results and more variability for *TDA*. (Analyses for seventeen additional cases, also provided by DOJ, are given in APPENDIX D.)

This study is focused on the presentation of data. The key data analyses are presented

- (i) in Tables IV, V, VI, VII.1, VII.2, and VII.3 where we observe swapping treated counts and percentages publicly released following the 2010 Census and corresponding *TDA* treated counts and percentages; and
- (ii) in Tables IVa, Va, VIa, VII.1.a, VII.2.a, and VII.3.a where we observe measures of variability for the *TDA* as described in Section VIII (Illustration of computations given in APPENDIX C).

The Key Empirical Message on Variability

The two measures $AVERV(\cdot)$ and $MEDRV(\cdot)$ summarize the key single empirical message of this study ($\epsilon = 4$).

Variability in the TDA increases as we consider decreasing levels of geography and population - from state (RI POP = 1,052,567); to congressional district (RI-CD IDEAL POP = 526,283.5); to upper chamber district (RI-SLDU IDEAL POP = 27,699.1); to lower chamber district (RI-SLDL IDEAL POP = 14,034.2); to Panola County, MS (DISTRICT IDEAL POP = 6,941.4); to Tate County, MS (SCHOOL DISTRICT IDEAL POP = 3,764.6); and finally to Tylertown (Walthall County), MS (DISTRICT IDEAL POP = 402.25).

To see this empirical evidence, sequentially observe the values for $AVERV(\cdot)$ and $MEDRV(\cdot)$ on the last two rows of Tables IVa; Va; VIa; VII.1.a; VII.2.a; VII.3.a; and additional tables in APPENDIX D.

I. INTRODUCTION

The specific focus of this paper is whether the explicitly acknowledged randomness used in the *TopDown Algorithm (TDA)* for disclosure avoidance in the 2020 Census delivers official data that are fit for the development and analysis of redistricting plans. That randomness is characterized in this paper by measures of the variability observed in 25 runs of the same version of the *TDA* using the same allocation of the privacy-loss budget in each run ($\epsilon = 4$). The variability inherent in the official 2010 *PL-94-171* redistricting data resulted primarily from disclosure avoidance via household swapping. The parameters of the official 2010 redistricting data are confidential and no estimates of the resulting variability have ever been published, including in this paper. Our approach has two parts: (1) to report observations on variability of results among 25 runs of the *TDA* [1] for Rhode Island and (2) to report observations on variability between the results among the 25 runs of the *TDA* and the published 2010 Census *Public Law 94-171* data for Rhode Island. Providence County, Rhode Island is the site of the 2018 End-to-End Census Test. Our focus on Rhode Island follows earlier work where we used $\epsilon = 0.25$. Our analyses in this report use $\epsilon = 4$. In this report, we also repeat these two-part analyses for three specific cases provided by the DOJ.

To protect privacy and confidentiality of data collected in the 2020 Census, all such data will be subjected to the *TDA* based on the use of randomization applied to the 2020 CEF. The resulting data will be the official data release from the 2020 Census for all purposes.

2010 Census Data for Rhode Island

The *TDA* was applied to data in the 2010 CEF for Rhode Island twenty-five different times, which we refer to as twenty-five runs of the *TDA*. For each run and for each of the 25,181 blocks in Rhode Island in the 2010 Census, various demographic variables report counts of various combinations of race, ethnicity (Hispanic or not Hispanic), and age. The specific variables correspond to the following from Tables P2 (similar to Table P9, Summary File 1 (SF1)) and P4 (similar to Table P11, SF1) of the 113th Congress *PL 94-171* data for Rhode Island and are given below. For reference: U.S. Census Bureau. (2011). 2010 Census Redistricting Data (*Public Law 94-171*) Summary File. Retrieved from <https://www.census.gov/data/datasets/2010/dec/redistricting-file-pl-94-171.html>.

The demographic variables given below are displayed in Table A of APPENDIX A. The number in parenthesis following each demographic variable indicates the row on which the variable is found.

For each of the 25,181 blocks in a single run, we construct demographic variables (next page) that we believe are the key quantitative variables that will enable jurisdictions, the DOJ, private parties, and the courts to ensure the implementation of redistricting plans that comply with federal law. These variables are presented and defined in APPENDICES A and B.

Rhode Island has two (2) congressional districts (CD), 38 state districts (SLDU) in its upper legislative chamber, and 75 state districts (SLDL) in its lower legislative chamber. For each of Rhode Island's 25,181 blocks, the Census Bureau's Geography Division provided a file to us with:

- (1) Congressional District assignment before the 2010 Census,
- (2) Congressional District assignment after the 2010 Census (2013),
- (3) Upper Chamber District assignment before the 2010 Census,
- (4) Upper Chamber District assignment after the 2010 Census (2013),
- (5) Lower Chamber District assignment before the 2010 Census,
- (6) Lower Chamber District assignment after the 2010 Census (2013),
- (7) Number of Housing Units (with & without people) in the 2010 Census, and
- (8) Number of People counted in the 2010 Census

We linked the Geography Division file with each *TDA* run file to produce a file that has a record for each block that contains both the legislative information and the demographic variables. These 25 merged files, one for each *TDA* run, form the foundation of our case study for Rhode Island.

Variables used from Table P2 (113th Congress): Total Population – Selected Counts
(Columns 3 & 4, Table A, APPENDIX A / “(row)” refers to row of Table A, APPENDIX A.)

Total (row 1)

Hispanic or Latino (row 2)

Not Hispanic or Latino (row 3)

Population of one race (row 4)

- White alone (row 5)

- Black or African American alone (row 6)

- American Indian and Alaska Native alone (row 7)

- Asian alone (row 8)

- Native Hawaiian and Other Pacific Islander alone (row 9)

- Some Other Race alone (row 10)

Two or More Races (row 11)

Population of two races (row 12)

- White; Black or African American (row 13)

- White; American Indian and Alaska Native (row 14)

- White; Asian (row 15)

- White; Native Hawaiian and Other Pacific Islander (row 16)

- White; Some Other Race (row 17)

Variables used from Table P4 (113th Congress): Population 18 Years and Over – Selected Counts
(Columns 5 & 6, Table A, APPENDIX A / “(row)” refers to row of Table A, APPENDIX A.)

Total 18 Years and Over (row 1)

Hispanic or Latino (row 2)

Not Hispanic or Latino (row 3)

Population of one race (row 4)

- White alone (row 5)

- Black or African American alone (row 6)

- American Indian and Alaska Native alone (row 7)

- Asian alone (row 8)

- Native Hawaiian and Other Pacific Islander alone (row 9)

- Some Other Race alone (row 10)

Two or More Races (row 11)

Population of two races (row 12)

- White; Black or African American (row 13)

- White; American Indian and Alaska Native (row 14)

- White; Asian (row 15)

- White; Native Hawaiian and Other Pacific Islander (row 16)

- White; Some Other Race (row 17)

2010 Census Data for Three Cases Provided by DOJ

For three cases provided by DOJ, we conduct similar analyses of data as just described for Rhode Island. The three cases are Panola County, Mississippi (MS) (2,180 blocks); Tate County (School District), MS (784 blocks), and Tylertown (Walthall County), MS (136 blocks). Analyses for seventeen additional cases provided by DOJ are presented in APPENDIX D.

Overview of Report

In Section II of this report, we present data for the two congressional districts of Rhode Island and using DOJ formatted data tables (e.g., Table I), Section III visually compares 2010 CEF data treated by the disclosure avoidance method (swapping [5]) with randomly selected runs of the same 2010 CEF data treated by the *TDA* method (i.e., differential privacy) being planned for use by the 2020 Census. Section IV is similar to Section III except the visual comparisons are for four of Rhode Island's Upper Chamber Districts. Section V is similar to Sections III and IV except the visual comparisons are for four of Rhode Island's Lower Chamber Districts. Section VI investigates three cases provided by DOJ using varying (mainly smaller) total population and varying group composition selected for comparisons similar to those of previous Sections for CDs, SLDUs, and SLDLs. Section VII defines and looks at variability among the 25 *TDA* runs of Rhode Island data using the planned *TDA* method of 2020, and it also looks at variability among the 25 *TDA* runs in comparison with the public data for Rhode Island from 2010 (this section also presents similar tables for the three cases provided by DOJ; additional seventeen cases given in APPENDIX D). The insert following Table I gives a suggestion for reviewing the tables of counts and percentages. The key empirical message on variability is given in the last paragraph of Section VII. Section VIII provides some concluding remarks based on the tables. The APPENDICES follow Section VIII.

II. FORMAT OF COUNTS & PERCENTAGES TABLES USED IN OUR STUDY

Table I shows the redistricting plan (POST-2010) adopted by Panola County, Mississippi in 2011 and the cleared proposed plan. For definitions of the demographic categories, see APPENDIX B.

The county of five (5) districts has an overall population (TOTAL) of 34,707 people based on the 2010 Census. The average population per district (IDEAL POPULATION) is $34,707/5 = 6,941$ people. Using the POST-2010 plan, the deviations from the IDEAL POPULATION for each of the 5 districts (DEV) are 33, -392, 133, 164, and 64, respectively; and the corresponding percent deviations ($DEV = DEV/6941 \times 100\%$) are respectively: 0.48%, -5.65%, -1.92%, 2.36%, and 0.92%. From Table I, it is noteworthy that the demographic group of WHITENH has 16,981 people which is $WHITENHP = 48.93\%$ of the county's population while the demographic group BLACKNH has 16,899 people which is $BLACKNHP = 48.69\%$ of the county's population. The other demographics in the table present total population at least 18 years of age (TOTAL18), total population of Hispanics (TOTALHISP), population counts of various race groups, as well as counts of population at least 18 by race groups. Some physical characteristics of the districts are given by (SHAPE-AREA and SHAPE-LEN). We do not provide physical characteristics in subsequent tables.

Table I. POST-2010 Census Demographics, Counts, & Percentages: Panola County, Mississippi

Demographics	Panola	Counts & Percentages by District (POST-2010)				
		1	2	3	4	5
SHAPE-AREA		0.0444	0.0521	0.0286	0.0396	0.0142
SHAPE-LEN		1.0946	1.3222	0.7693	1.1264	1.0638
TOTAL	34,707	6,974	6,549	7,074	7,105	7,005
DEV		33	-392	133	164	64
DEV P		0.48	-5.65	1.92	2.36	0.92
TOTAL18	25,363	5,214	4,732	5,171	5,345	4,901
TOTALHISP	494	66	75	85	120	148
TOTALHISPP	1.42	0.95	1.15	1.20	1.69	2.11
TOTALNH	34,213	6,908	6,474	6,989	6,985	6,857
TOTALNHP	98.58	99.05	98.85	98.8	98.31	97.89
WHITENH	16,981	2,419	2,096	4,030	5,250	3,186
WHITENHP	48.93	34.69	32.00	56.97	73.89	45.48
BLACKNH	16,899	4,427	4,332	2,925	1,658	3,557
BLACKNHP	48.69	63.48	66.15	41.35	23.34	50.78
AIANNH	148	26	20	15	38	49
AIANNHP	0.43	0.37	0.31	0.21	0.53	0.70
ASIANNH	89	8	7	5	17	52
ASIANNHP	0.26	0.11	0.11	0.07	0.24	0.74
HPINH	4	0	0	0	2	2
HPINH P	0.01	0.00	0.00	0.00	0.03	0.03
OTHERNH	19	7	5	1	3	3
OTHERNHP	0.05	0.10	0.08	0.01	0.04	0.04
MLTMNNH	73	21	14	13	17	8
MLTMNNHP	0.21	0.30	0.21	0.18	0.24	0.11
HISP18	298	44	44	52	63	95
HISP18 P	1.17	0.84	0.93	1.01	1.18	1.94
NONHISP18	25,065	5,170	4,688	5,119	5,282	4,806
NONHISP18 P	98.83	99.16	99.07	98.99	98.82	98.06
WHITENH18	13,455	2,025	1,732	3,072	4,115	2,511
WHITENH18 P	53.05	38.84	36.6	59.41	76.99	51.23
BLACKNH18	11,394	3,099	2,928	2,024	1,118	2,225
BLACKNH18 P	44.92	59.44	61.88	39.14	20.92	45.40
AIANNH18	115	21	16	11	29	38
AIANNH18 P	0.45	0.40	0.34	0.21	0.54	0.78
ASIANNH18	54	8	5	2	12	27
ASIANNH18 P	0.21	0.15	0.11	0.04	0.22	0.55
HPINH18	2	0	0	0	1	1
HPINH18 P	0.01	0.00	0.00	0.00	0.02	0.02
OTHERNH18	5	1	0	1	2	1
OTHERNH18 P	0.02	0.02	0.00	0.02	0.04	0.02
MLTMNH18	40	16	7	9	5	3
MLTMNH18 P	0.16	0.31	0.15	0.17	0.09	0.06

Source: U.S. Department of Justice, Washington, D.C.

A Suggestion from the Authors for Reviewing Each Table

When we inspect the various tables to follow in this report, we first look at the column of overall counts and percentages for the various demographic groups in a jurisdiction (e.g., state or county or school district) and then ask how these counts and percentages are distributed over the various districts.

III. INVESTIGATION OF RHODE ISLAND CONGRESSIONAL DISTRICT DATA

In the year 2010, Rhode Island had 25,181 blocks; 206 blocks had 0 housing units and 7,537 blocks had 0 people. Following the 2010 Census, Rhode Island continued with the previous congressional district boundaries until 2013. So the congressional districts for the 111th Congress used the previous boundaries with the new data from the 2010 Census (Benchmark Plan). In 2013, new boundaries of the districts were drawn to reflect changes observed in the 2010 Census data. The IDEAL POPULATION for each congressional district is $\frac{1,052,567}{2} = 526,283.5$. Movement of the blocks, housing units, and people from the 111th Congress boundaries to the 113th Congress

boundaries are presented in Table II. The last two columns of Table III follow from Table A (APPENDIX A) using the definitions of APPENDIX B. For example, the Total Population in the 2010 Census of Rhode Island’s CD-02 Non-Hispanic Asians is “ASIANNH” (Table III) = (Non-Hispanic) “Asian alone” (Table A, row 8) + (Non-Hispanic) “White; Asian” (Table A, row 15); that is, $16,489 = 14,606 + 1,883$. Clearly, the DEV values for CD-01 and CD-02 go from $-7,262.5$ and $7,262.5$ respectively in the 111th Congress to -0.5 and 0.5 respectively in the 113th Congress.

For the remainder of this report, we only refer to data from the 2013 redistricting plan for Rhode Island, i.e., the last two columns of Table III.

Table IV shows results from three randomly chosen runs of the twenty-five runs of the *TDA* for Congressional Districts 01 and 02 for Rhode Island (last six columns) and displays them with the counts from the 2010 Census (alternately referred to as swapping or Summary File 1 (SF1) in this report) relative to the boundaries for the 113th Congress. These three runs provide a taste of what variability might be expected among the various runs of the *TDA*. Throughout this report, we use the same value of $\epsilon = 4$, and exactly the same implementation code and parameters, for all discussed runs of the *TDA*.

In Table IV, we also compare the results for CD-01 and CD-02 from each of the three *TDA* runs with the corresponding published results (2010 Census, SF1) for CD-01 and CD-02.

From Table IV, while the corresponding counts for each demographic group (on each row) vary among the runs as well as relative to the released 2010 Census counts, the corresponding percentages displayed differ by less than 0.5 of a percentage point for all demographic groups. The fact that the DEV values for the three runs differ from -0.5 and 0.5 should be of no concern because the 2020 congressional redistricting would use the noise-infused block level counts to create congressional districts where the DEV values differ by no more than 1 person. In general, state legislative districts are allowed to deviate by more than 1 person.

In Table IV, note that CD-01 has smaller counts for WHITENH than CD-02 using the 2010 Census counts. As a consequence, CD-01 has comparatively larger counts for most minority demographic groups than CD-02. This observation is true for the total population group counts as well as for the 18 and older population groups. This observation tends to also hold for each of the three *TDA* runs. (The same holds true for WHITENH18 and most minority groups in the 18 and older population.)

For each run, note also that the total count of MLTMNNH (also MLTMNH18) for CD-01 and CD-02 exceeds the total count of MLTMNNH (also MLTMNH18) for the 2010 Census SF1 data.

IV. INVESTIGATION OF RHODE ISLAND’S 38 UPPER CHAMBER DISTRICTS

There are 38 districts with one legislator each in Rhode Island’s Upper Chamber. Therefore, the IDEAL POPULATION for each State Upper Chamber District is $\frac{1,052,567}{38} = 27,699.1$. Columns 2-5 of Table V give 2010 Census counts and percentages for the State Upper Chamber Districts (SLDU) 01, 02, 03, and 04. Columns 6-9 of Table V give corresponding counts and percentages from the same *TDA* Run A noted in Table IV.

For the 2010 Census counts as well as the counts for the *TDA* Run A, SLDU-02 has relatively high percentages for both TOTALHISP and HISP18P. Similarly, for the 2010 Census counts as well as for the *TDA* Run A, SLDU-03 and SLDU-04 each has relatively high percentages for both WHITENHP and WHITENH18P. SLDU-01 has a relatively high percentage total for TOTALHISP and BLACKNHP. The same holds true in SLDU-01 for HISP18P and BLACKNH18P.

Table II. Number of Rhode Island Blocks (B), Housing Units (HU), and People (P) that Moved from 111th Congress Districts to 113th Congress Districts

111 th Congress CDs	113 th Congress CDs		
	01	02	Total
01 B	10,793	724	11,517
01 HU	217,975	13,299	231,274
01 P	484,898	34,123	519,021
02 B	661	13,003	13,664
02 HU	14,680	217,434	232,114
02 P	41,385	492,161	533,546
Total B	11,454	13,727	25,181
Total HU	232,655	230,733	463,388
Total P	526,283	526,284	1,052,567

Source: Summary File 1, 2010 Census and Geography Division, U. S. Bureau of the Census, Washington, D.C.

Table III. Rhode Island Plans with Counts and Percentages by Congressional Districts (CDs)

Demographics		Benchmark Plan, 2011 111 th Congress [2]		POST-2010 Plan, 2013 113 th Congress [3]	
DIST-ID	Rhode Island	CD-01	CD-02	CD-01	CD-02
TOTAL	1,052,567	519,021	533,546	526,283	526,284
DEV		-7,262.5	7,262.5	-0.5	0.5
DEVP		-1.38	1.38	0.00	0.00
TOTAL18	828,611	411,061	417,550	412,778	415,833
TOTALHISP	130,655	56,918	73,737	76,100	54,555
TOTALHISP18P	12.41	10.97	13.82	14.46	10.37
TOTALNH	921,912	462,103	459,809	450,183	471,729
TOTALNHP	87.59	89.03	86.18	85.54	89.63
WHITENH	803,685	397,882	405,803	377,109	426,576
WHITENHP	76.35	76.66	76.06	71.66	81.05
BLACKNH	57,927	31,973	25,954	37,627	20,300
BLACKNHP	5.50	6.16	4.86	7.15	3.86
AIANNH	6,839	2,917	3,922	3,142	3,697
AIANNHP	0.65	0.56	0.74	0.60	0.70
ASIANNH	34,194	15,479	18,715	17,705	16,489
ASIANNHP	3.25	2.98	3.51	3.36	3.13
HPINH	655	365	290	383	272
HPINHP	0.06	0.07	0.05	0.07	0.05
OTHERNH	10,296	8,296	2,000	8,492	1,804
OTHERNHP	0.98	1.60	0.37	1.61	0.34
MLTMNH	8,316	5,191	3,125	5,725	2,591
MLTMNHP	0.79	1.00	0.59	1.09	0.49
HISP18	84,715	36,485	48,230	49,303	35,412
HISP18P	10.22	8.88	11.55	11.94	8.52
NONHISP18	743,896	374,576	369,320	363,475	380,421
NONHISP18P	89.78	91.12	88.45	88.06	91.48
WHITENH18	660,823	329,527	331,296	312,240	348,583
WHITENH18P	79.75	80.16	79.34	75.64	83.83
BLACKNH18	39,485	21,430	18,055	25,402	14,083
BLACKNH18P	4.77	5.21	4.32	6.15	3.39
AIANNH18	4,963	2,178	2,785	2,332	2,631
AIANNH18P	0.60	0.53	0.67	0.56	0.63
ASIANNH18	25,333	11,723	13,610	13,276	12,057
ASIANNH18P	3.06	2.85	3.26	3.22	2.90
HPINH18	500	291	209	307	193
HPINH18P	0.06	0.07	0.05	0.07	0.05
OTHERNH18	7,290	5,935	1,355	6,061	1,229
OTHERNH18P	0.88	1.44	0.32	1.47	0.30
MLTMNH18	5,502	3,492	2,010	3,857	1,645
MLTMNH18P	0.66	0.85	0.48	0.93	0.40

Source: See References [2] and [3], U. S. Bureau of the Census, Washington, D.C.

Table IV. Rhode Island: Three of Twenty-five Runs of the *TDA*
by Congressional Districts (CDs) for the 113th Congress
($\epsilon = 4$)

		2010 Census, SF1 (PL 94-171)(2013) Counts & Percentages POST-2010 Plan		Counts & Percentages, 113 th Congress 3 Out of 25 Runs of the <i>TDA</i>					
Demographics		113 th Congress		<i>TDA</i> -Run A		<i>TDA</i> -Run B		<i>TDA</i> -Run C	
DIST-ID	Rhode Island	CD-01	CD-02	CD-01	CD-02	CD-01	CD-02	CD-01	CD-02
TOTAL	1,052,567	526,283	526,284	525,815	526,752	525,866	526,701	526,311	526,256
DEV		-0.5	0.5	-468.5	468.5	-417.5	417.5	27.5	-27.5
DEVP		0.00	0.00	-0.09	0.09	-0.08	0.08	0.01	-0.01
TOTAL18	828,611	412,778	415,833	412,897	416,320	412,564	416,578	413,168	416,280
TOTALHISP	130,655	76,100	54,555	75,797	54,358	75,923	53,652	76,049	53,762
TOTALHISP18P	12.41	14.46	10.37	14.42	10.32	14.44	10.19	14.45	10.22
TOTALNH	921,912	450,183	471,729	450,018	472,394	449,943	473,049	450,262	472,494
TOTALNHP	87.59	85.54	89.63	85.58	89.68	85.56	89.81	85.55	89.78
WHITENH	803,685	377,109	426,576	377,356	426,295	377,309	426,302	377,135	426,446
WHITENHP	76.35	71.66	81.05	71.77	80.93	71.75	80.94	71.66	81.03
BLACKNH	57,927	37,627	20,300	37,670	19,996	37,503	20,218	37,457	20,218
BLACKNHP	5.50	7.15	3.86	7.16	3.80	7.13	3.84	7.12	3.84
AIANNH	6,839	3,142	3,697	2,820	3,839	3,034	3,608	3,153	3,492
AIANNHP	0.65	0.60	0.70	0.54	0.73	0.58	0.69	0.60	0.66
ASIANNH	34,194	17,705	16,489	17,808	16,185	17,799	16,186	17,857	16,097
ASIANNHP	3.25	3.36	3.13	3.39	3.07	3.38	3.07	3.39	3.06
HPINH	655	383	272	199	124	195	195	257	97
HPINH18P	0.06	0.07	0.05	0.04	0.02	0.04	0.04	0.05	0.02
OTHERNH	10,296	8,492	1,804	8,252	1,985	8,092	2,217	8,156	2,035
OTHERNHP	0.98	1.61	0.34	1.57	0.38	1.54	0.42	1.55	0.39
MLTMNNH	8,316	5,725	2,591	5,913	3,970	6,011	4,323	6,247	4,109
MLTMNHP	0.79	1.09	0.49	1.12	0.75	1.14	0.82	1.19	0.78
HISP18	84,715	49,303	35,412	49,340	35,210	48,974	34,998	49,256	35,126
HISP18P	10.22	11.94	8.52	11.95	8.46	11.87	8.40	11.92	8.44
NONHISP18	743,896	363,475	380,421	363,557	381,110	363,590	381,580	363,912	381,154
NONHISP18P	89.78	88.06	91.48	88.05	91.54	88.13	91.60	88.08	91.56
WHITENH18	660,823	312,240	348,583	312,492	348,320	312,405	348,371	312,316	348,427
WHITENH18P	79.75	75.64	83.83	75.68	83.67	75.72	83.63	75.59	83.70
BLACKNH18	39,485	25,402	14,083	25,397	13,862	25,340	13,980	25,342	13,940
BLACKNH18P	4.77	6.15	3.39	6.15	3.33	6.14	3.36	6.13	3.35
AIANNH18	4,963	2,332	2,631	2,051	2,745	2,244	2,552	2,333	2,471
AIANNH18P	0.60	0.56	0.63	0.50	0.66	0.54	0.61	0.56	0.59
ASIANNH18	25,333	13,276	12,057	13,338	11,832	13,342	11,823	13,409	11,731
ASIANNH18P	3.06	3.22	2.90	3.23	2.84	3.23	2.84	3.25	2.82
HPINH18	500	307	193	144	74	117	149	168	64
HPINH18P	0.06	0.07	0.05	0.03	0.02	0.03	0.04	0.04	0.02
OTHERNH18	7,290	6,061	1,229	5,917	1,364	5,830	1,508	5,837	1,408
OTHERNH18P	0.88	1.47	0.30	1.43	0.33	1.41	0.36	1.41	0.34
MLTMNH18	5,502	3,857	1,645	4,218	2,913	4,312	3,197	4,507	3,113
MLTMNH18P	0.66	0.93	0.40	1.02	0.70	1.05	0.77	1.09	0.75

Source: Data from 3 Runs of the *TDA*, U. S. Bureau of the Census, Washington, D.C.

Selected observations for Table IV:

- 1: Corresponding percentages between the 2010 Census data and the *TDA* data on each row displayed in Table IV differ by less than 0.5 of a percentage point for all demographic groups.
- 2: CD-01 has fewer counts for WHITENH (also WHITENH18) than CD-02 using the 2010 Census counts. As a consequence, CD-01 has comparatively larger counts for most minority demographic groups than CD-02. The same holds for the 18 and older population groups. This observation also tends to hold for each of the three *TDA* runs.

Table V. Rhode Island Run A of Twenty-five Runs of the *TDA*
for State Upper Chamber Districts (SLDU) 01, 02, 03, and 04 (4 of 38 Districts)
($\epsilon = 4$)

	2010 Census, SF1 (PL 94-171) (2013) Counts & Percentages POST-2010 Plan				Counts & Percentages, 2013 Run A of the <i>TDA</i>			
Demographics								
DIST-ID	SLDU-01	SLDU-02	SLDU-03	SLDU-04	SLDU-01	SLDU-02	SLDU-03	SLDU-04
TOTAL	28,161	28,079	28,398	28,201	27,649	28,004	28,659	28,172
DEV	461.9	379.9	698.9	501.9	-50.1	304.9	959.9	472.9
DEVP	1.67	1.37	2.52	1.81	-0.18	1.10	3.47	1.71
TOTAL18	20,914	19,846	25,361	23,599	20,516	19,766	25,373	23,525
TOTALHISP	10,282	16,288	1,409	3,217	9,678	16,030	1764	3,282
TOTALHISPP	36.51	58.01	4.96	11.41	35.00	57.24	6.16	11.65
TOTALNH	17,879	11,791	26,989	24,984	17,971	11,974	26,895	24,890
TOTALNHP	63.49	41.99	95.04	88.59	65.00	42.76	93.84	88.35
WHITENH	10,222	3,553	22,028	21,210	10,250	3,625	22,044	21,108
WHITENHP	36.30	12.65	77.57	75.21	37.07	12.94	76.92	74.93
BLACKNH	4,862	4,332	1,124	2,348	4,868	4,439	1,143	2,363
BLACKNHP	17.27	15.43	3.96	8.33	17.61	15.85	3.99	8.39
AIANNH	283	216	135	172	257	288	170	137
AIANNHP	1.00	0.77	0.48	0.61	0.93	1.03	0.59	0.49
ASIANNH	1,526	3,032	3,262	826	1,709	2,940	3,146	803
ASIANNHP	5.42	10.80	11.49	2.93	6.18	10.50	10.98	2.85
HPINH	25	11	16	14	40	5	2	11
HPINHP	0.09	0.04	0.06	0.05	0.14	0.02	0.01	0.04
OTHERNH	457	189	224	241	507	256	244	249
OTHERNHP	1.62	0.67	0.79	0.85	1.83	0.91	0.85	0.88
MLTMNNH	504	458	200	173	340	421	146	219
MLTMNNHP	1.79	1.63	0.70	0.61	1.23	1.50	0.51	0.78
HISP18	6,458	11,014	1,241	2,097	6,002	10,883	1,325	2,210
HISP18P	30.88	55.50	4.89	8.89	29.26	55.06	5.22	9.39
NONHISP18	14,456	8,832	24,120	21,502	14,514	8,883	24,048	21,315
NONHISP18P	69.12	44.50	95.11	91.11	70.74	44.94	94.78	90.61
WHITENH18	9,131	3,062	19,682	18,839	9,158	3,135	19,697	18,710
WHITENH18P	43.66	15.43	77.61	79.83	44.64	15.86	77.63	79.53
BLACKNH18	3,309	3,027	973	1,599	3,237	3,065	948	1,646
BLACKNH18P	15.82	15.25	3.84	6.78	15.78	15.51	3.74	7.00
AIANNH18	197	154	110	136	210	209	126	102
AIANNH18P	0.94	0.78	0.43	0.58	1.02	1.06	0.50	0.43
ASIANNH18	1,170	2,135	2,989	611	1,298	2,030	2,959	562
ASIANNH18P	5.59	10.76	11.79	2.59	6.33	10.27	11.66	2.39
HPINH18	20	11	14	13	36	5	2	11
HPINH18P	0.10	0.06	0.06	0.06	0.18	0.03	0.01	0.05
OTHERNH18	326	125	186	178	318	197	197	183
OTHERNH18P	1.56	0.63	0.73	0.75	1.55	1.00	0.78	0.78
MLTMNH18	303	318	166	126	257	242	119	101
MLTMNH18P	1.45	1.60	0.65	0.53	1.25	1.22	0.47	0.43

Source: Data from Run A of the *TDA*, U. S. Bureau of the Census, Washington, D.C.

Selected observations for Table V:

- 1: SLDU-01 has percentage total $\geq 50\%$ for TOTALHISPP and BLACKNHP (also HISP18P and BLACKNH18P) for 2010 Census and the *TDA* run.
- 2: SLDU-02 has percentages $\geq 50\%$ for both TOTALHISPP and HISP18P for 2010 Census and the *TDA* run.
- 3: SLDU-03 and SLDU-04 each has a percentage $\geq 50\%$ for both WHITENHP and WHITENH18P for the 2010 Census and the *TDA* run.

V. INVESTIGATION OF RHODE ISLAND’S 75 LOWER CHAMBER DISTRICTS

There are 75 districts with one legislator each in Rhode Island’s Lower Chamber. Therefore, the IDEAL POPULATION for each State Lower Chamber District (SLDL) is $\frac{1,052,567}{75} = 14,034.2$. As with Table V for Rhode Island’s Upper Chamber, Columns 2-5 of Table VI give 2010 Census counts and percentages for the State Lower Chamber Districts 01, 02, 03, and 04. Columns 6-9 of Table VI give corresponding counts and percentages from the same *TDA* Run A noted in Table IV.

For the 2010 Census counts as well as for the *TDA* Run A, note the SLDL-03 has a relatively high percentage total for TOTALHISP and BLACKNHP as well as a high percentage total for HISP18P and BLACKNH18P. Similarly for the 2010 Census counts as well as for the *TDA* Run A, note that SLDL-01, SLDL-02, and SLDL-04 each has relatively high percentages for both WHITENHP and WHITENH18P.

Unlike in Table IV for the congressional districts, the corresponding percentages for the demographic groups in the Lower Chamber Districts differ by up to over 3 percentage points (e.g., see the group HISP18P). Thus we see more variability for lower levels of geography.

VI. INVESTIGATION OF THREE CASES PROVIDED BY DOJ

To examine variability for each of the cases provided by DOJ, we proceed for each as we did with Rhode Island. A high level overview of the three (17 more in APPENDIX D) cases follows

	Jurisdiction	2010 Census Population	Number of Districts	Number of Blocks Overall	Number of Blocks by Districts
1.	Panola County, MS	34,707	5	2,180	(458; 492; 413; 443; 374)
2.	Tate County, MS (School District)	18,823	5	784	(168; 204; 139; 178; 95)
3.	Tylertown, MS (Walthall County)	1,609	4	136	(35; 42; 42; 17)

Panola County, MS: As noted earlier in Table I, in Table VII.1 for the 2010 Census data, WHITENHP = 48.93% and BLACKNHP = 48.69% for the overall county. For the same data, and for districts 01, 02, and 05, we see BLACKNHP values of 63.48%, 66.15%, and 50.78%, respectively; for districts 03 and 04, we see WHITENHP values of 56.97% and 73.89%, respectively. We see similar corresponding percentages for the results from the *TDA*.

Tate County (School District), MS: In Table VII.2 for the 2010 Census data, WHITENHP = 68.22% and BLACKNHP = 28.63% for the overall county. For the same data, and for districts 01, 03, 04, and 05, we see WHITENHP values of 86.31%, 78.04%, 62.02%, and 73.40%, respectively; for district 02, we see BLACKNHP = 54.94%. We see similar corresponding percentages for the results from the *TDA*.

Tylertown (Walthall County), MS: In Table VII.3 for the 2010 Census data, WHITENHP = 53.45% and BLACKNHP = 42.20% for Tylertown (the county seat) overall. For the same data, and for districts 01, 02, and 03, we see WHITENHP values of 91.60%, 53.88%, and 62.92%, respectively; for district 04, we see BLACKNHP = 89.13%. We see not too different corresponding percentages for the results from the *TDA*.

Table VI. Rhode Island Run A of Twenty-five Runs of the *TDA*
for State Lower Chamber Districts (SLDL) 01, 02, 03, and 04 (4 of 75 Districts)
($\epsilon = 4$)

	2010 Census, SF1 (PL 94-171) (2013) Counts & Percentages POST-2010 Plan				Counts & Percentages, 2013 Run A of the <i>TDA</i>			
Demographics								
DIST-ID	SLDL-01	SLDL-02	SLDL-03	SLDL-04	SLDL-01	SLDL-02	SLDL-03	SLDL-04
TOTAL	13,881	13,821	13,949	13,713	13,887	13,866	13,542	13,588
DEV	-153.2	-213.2	-85.2	-321.2	-147.2	-168.2	-492.2	-446.2
DEVP	-1.09	-1.52	-0.61	-2.29	-1.05	-1.20	-3.51	-3.18
TOTAL18	12,835	12,800	9,607	11,205	12,722	12,702	9,479	11,050
TOTALHISP	1,002	1,768	5,905	1,049	1,083	1,738	5,394	1,102
TOTALHISPP	7.22	12.79	42.33	7.65	7.80	12.53	39.83	8.11
TOTALNH	12,879	12,053	8,044	12,664	12,804	12,128	8,148	12,486
TOTALNHP	92.78	87.21	57.67	92.35	92.20	87.47	60.17	91.89
WHITENH	9,922	8,714	3,465	9,539	9,803	8,748	3,654	9,548
WHITENHP	71.48	63.05	24.84	69.56	70.59	63.09	26.98	70.27
BLACKNH	581	1,125	3,015	1,495	577	1,185	2,949	1,497
BLACKNHP	4.19	8.14	21.61	10.90	4.15	8.55	21.78	11.02
AIANNH	46	104	189	126	100	110	162	88
AIANNHP	0.33	0.75	1.35	0.92	0.72	0.79	1.20	0.65
ASIANNH	2,175	1,776	794	792	2,098	1,780	865	826
ASIANNHP	15.67	12.85	5.69	5.78	15.11	12.84	6.39	6.08
HPINH	12	16	12	1	4	0	39	2
HPINHP	0.09	0.12	0.09	0.01	0.03	0.00	0.29	0.01
OTHERNH	57	148	257	396	73	152	282	374
OTHERNHP	0.41	1.07	1.84	2.89	0.53	1.10	2.08	2.75
MLTMNNH	86	170	312	315	149	153	197	151
MLTMNNHP	0.62	1.23	2.24	2.30	1.07	1.10	1.45	1.11
HISP18	951	1,475	3,518	693	903	1,322	3,178	664
HISP18P	7.41	11.52	36.62	6.18	7.10	10.41	33.53	6.01
NONHISP18	11,884	11,325	6,089	10,512	11,819	11,380	6,301	10,386
NONHISP18P	92.59	88.48	63.38	93.82	92.90	89.59	66.47	93.99
WHITENH18	9,081	8,339	3,040	8,119	8,989	8,321	3,192	8,128
WHITENH18P	70.75	65.15	31.64	72.46	70.66	65.51	33.67	73.56
BLACKNH18	560	972	1,971	1,144	548	1,022	1,932	1,119
BLACKNH18P	4.36	7.59	20.52	10.21	4.31	8.05	20.38	10.13
AIANNH18	45	82	129	101	79	95	139	69
AIANNH18P	0.35	0.64	1.34	0.90	0.62	0.75	1.47	0.62
ASIANNH18	2,052	1,655	575	635	2,018	1,670	649	694
ASIANNH18P	15.99	12.93	5.99	5.67	15.86	13.15	6.85	6.28
HPINH18	10	14	11	1	4	0	35	2
HPINH18P	0.08	0.11	0.11	0.01	0.03	0.00	0.37	0.02
OTHERNH18	51	126	190	280	55	139	197	239
OTHERNH18P	0.40	0.98	1.98	2.50	0.43	1.09	2.08	2.16
MLTMNH18	85	137	173	232	126	133	157	135
MLTMNH18P	0.66	1.07	1.80	2.07	0.99	1.05	1.66	1.22

Source: Data from Run A of the *TDA*, U. S. Bureau of the Census, Washington, D.C.

Selected observations for Table VI:

- 1: SLDL-01, SLDL-02, and SLDL-04 each has a percentage $\geq 50\%$ for both WHITENHP and WHITENH18P for 2010 Census and the *TDA* run.
- 2: SLDL-03 has a percentage total $\geq 50\%$ for TOTALHISPP and BLACKNHP as well as a percentage total $\geq 50\%$ for HISP18P and BLACKNH18P for 2010 Census and the *TDA* run.

Table VII.1. Panola County, MS Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04, and 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{34,707}{5} = 6,941.4 \quad TDA \text{ IDEAL POPULATION} = \frac{34,656}{5} = 6,931.2$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	Panola	01	02	03	04	05	Panola	01	02	03	04	05
TOTAL	34,707	6,974	6,549	7,074	7,105	7,005	34,656	6,911	6,652	7,000	7,094	6,999
DEV		32.6	-392.4	132.6	163.6	63.6		-20.2	-279.2	68.8	162.8	67.8
DEVP		0.47	-5.65	1.91	2.36	0.92		-0.29	-4.03	0.99	2.35	0.98
TOTAL18	25,363	5,214	4,732	5,171	5,345	4,901	25,380	5,167	4,774	5,064	5,421	4,954
TOTALHISP	494	66	75	85	120	148	439	96	74	67	76	126
TOTALHISP P	1.42	0.95	1.15	1.20	1.69	2.11	1.27	1.39	1.11	0.96	1.07	1.80
TOTALNH	34,213	6,908	6,474	6,989	6,985	6,857	34,217	6,815	6,578	6,933	7,018	6,873
TOTALNHP	98.58	99.05	98.85	98.80	98.31	97.89	98.73	98.61	98.89	99.04	98.93	98.20
WHITENH	16,981	2,419	2,096	4,030	5,250	3,186	16,989	2,279	2,236	4,070	5,281	3,123
WHITENHP	48.93	34.69	32.00	56.97	73.89	45.48	49.02	32.98	33.61	58.14	74.44	44.62
BLACKNH	16,899	4,427	4,332	2,925	1,658	3,557	16,924	4,491	4,311	2,826	1,678	3,618
BLACKNHP	48.69	63.48	66.15	41.35	23.34	50.78	48.83	64.98	64.81	40.37	23.65	51.69
AIANNH	148	26	20	15	38	49	139	34	12	9	21	63
AIANNHP	0.43	0.37	0.31	0.21	0.53	0.70	0.40	0.49	0.18	0.13	0.30	0.90
ASIANNH	89	8	7	5	17	52	89	5	9	6	13	56
ASIANNHP	0.26	0.11	0.11	0.07	0.24	0.74	0.26	0.07	0.14	0.09	0.18	0.80
HPINH	4	0	0	0	2	2	29	0	1	14	2	12
HPINH P	0.01	0.00	0.00	0.00	0.03	0.03	0.08	0.00	0.02	0.20	0.03	0.17
OTHERNH	19	7	5	1	3	3	4	2	2	0	0	0
OTHERNHP	0.05	0.10	0.08	0.01	0.04	0.04	0.01	0.03	0.03	0.00	0.00	0.00
MLTMNNH	73	21	14	13	17	8	43	4	7	8	23	1
MLTMNNHP	0.21	0.30	0.21	0.18	0.24	0.11	0.12	0.06	0.11	0.11	0.32	0.01
HISP18	298	44	44	52	63	95	291	69	41	49	36	96
HISP18 P	1.17	0.84	0.93	1.01	1.18	1.94	1.15	1.34	0.86	0.97	0.66	1.94
NONHISP18	25,065	5,170	4,688	5,119	5,282	4,806	25,089	5,098	4,733	5,015	5,385	4,858
NONHISP18 P	98.83	99.16	99.07	98.99	98.82	98.06	98.85	98.66	99.14	99.03	99.34	98.06
WHITENH18	13,455	2,025	1,732	3,072	4,115	2,511	13,456	1,902	1,817	3,040	4,209	2,488
WHITENH18 P	53.05	38.84	36.60	59.41	76.99	51.23	53.02	36.81	38.06	60.03	77.64	50.22
BLACKNH18	11,394	3,099	2,928	2,024	1,118	2,225	11,410	3,162	2,903	1,945	1,135	2,265
BLACKNH18 P	44.92	59.44	61.88	39.14	20.92	45.40	44.96	61.20	60.81	38.41	20.94	45.72
AIANNH18	115	21	16	11	29	38	96	25	10	7	9	45
AIANNH18 P	0.45	0.40	0.34	0.21	0.54	0.78	0.38	0.48	0.21	0.14	0.17	0.91
ASIANNH18	54	8	5	2	12	27	70	5	0	4	13	48
ASIANNH18 P	0.21	0.15	0.11	0.04	0.22	0.55	0.28	0.10	0.00	0.08	0.24	0.97
HPINH18	2	0	0	0	1	1	29	0	1	14	2	12
HPINH18 P	0.01	0.00	0.00	0.00	0.02	0.02	0.11	0.00	0.02	0.28	0.04	0.24
OTHERNH18	5	1	0	1	2	1	0	0	0	0	0	0
OTHERNH18 P	0.02	0.02	0.00	0.02	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNH18	40	16	7	9	5	3	28	4	2	5	17	0
MLTMNH18 P	0.16	0.31	0.15	0.17	0.09	0.06	0.11	0.08	0.04	0.10	0.31	0.00

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.1:

- 1: Panola has WHITENHP = 48.93% and BLACKNHP = 48.69% for the 2010 Census; and WHITENHP = 49.02% and BLACKNHP = 48.83% for the *TDA* run. For 18+ population, WHITENH18P \geq 50.00% for the 2010 Census and for the *TDA* run.
- 2: Districts 01 and 02 each has a percentage \geq 50% for BLACKNHP (also BLACKNH18P) for both the 2010 Census and the *TDA* run. District 05 has a BLACKNHP (also BLACKNH18P) percentage close to 50.00% for both the 2010 Census and the *TDA* run.

Table VII.2. Tate County School Districts (SD), MS Run A of Twenty-five Runs of the *TDA*
for School Districts 01, 02, 03, 04, and 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{18,823}{5} = 3,764.6 \quad TDA \text{ IDEAL POPULATION} = \frac{18,790}{5} = 3,758$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	Tate	01	02	03	04	05	Tate	01	02	03	04	05
DIST-ID												
TOTAL	18,823	3,914	3,893	3,665	3,697	3,654	18,790	3,828	3,888	3,597	3,803	3,674
DEV		149.4	128.4	-99.6	-67.6	-110.6		70	130	-161	45	-84
DEVP		3.97	3.41	-2.65	-1.80	-2.94		1.86	3.46	-4.28	1.20	-2.24
TOTAL18	13,893	2,780	2,826	2,799	2,755	2,733	13,929	2,730	2,837	2,766	2,834	2,762
TOTALHISP	399	87	63	110	32	107	422	78	81	85	76	102
TOTALHISPP	2.12	2.22	1.62	3.00	0.87	2.93	2.25	2.04	2.08	2.36	2.00	2.78
TOTALNH	18,424	3,827	3,830	3,555	3,665	3,547	18,368	3,750	3,807	3,512	3,727	3,572
TOTALNHP	97.88	97.78	98.38	97.00	99.13	97.07	97.75	97.96	97.92	97.64	98.00	97.22
WHITENH	12,841	3,378	1,628	2,860	2,293	2,682	12,768	3,294	1,628	2,778	2,333	2,735
WHITENHP	68.22	86.31	41.82	78.04	62.02	73.40	67.95	86.05	41.87	77.23	61.35	74.44
BLACKNH	5,389	400	2,139	666	1,349	835	5,483	428	2,165	696	1,369	825
BLACKNHP	28.63	10.22	54.94	18.17	36.49	22.85	29.18	11.18	55.68	19.35	36.00	22.46
AIANNH	103	32	26	19	11	15	36	11	5	13	2	5
AIANNHP	0.55	0.82	0.67	0.52	0.30	0.41	0.19	0.29	0.13	0.36	0.05	0.14
ASIANNH	47	14	16	6	7	4	27	8	4	13	0	2
ASIANNHP	0.25	0.36	0.41	0.16	0.19	0.11	0.14	0.21	0.10	0.36	0.00	0.05
HPINH	3	2	0	0	0	1	4	0	0	4	0	0
HPINHP	0.02	0.05	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.11	0.00	0.00
OTHERNH	9	1	5	1	1	1	0	0	0	0	0	0
OTHERNHP	0.05	0.03	0.13	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNNH	32	0	16	3	4	9	50	9	5	8	23	5
MLTMNHP	0.17	0.00	0.41	0.08	0.11	0.25	0.27	0.24	0.13	0.22	0.60	0.14
HISP18	215	47	34	63	16	55	250	54	53	41	43	59
HISP18P	1.55	1.69	1.20	2.25	0.58	2.01	1.79	1.98	1.87	1.48	1.52	2.14
NONHISP18	13,678	2,733	2,792	2,736	2,739	2,678	13,679	2,676	2,784	2,725	2,791	2,703
NONHISP18P	98.45	98.31	98.80	97.75	99.42	97.99	98.21	98.02	98.13	98.52	98.48	97.86
WHITENH18	9,747	2,438	1,278	2,219	1,755	2,057	9,749	2,385	1,300	2,176	1,772	2,116
WHITENH18P	70.16	87.70	45.22	79.28	63.70	75.27	69.99	87.36	45.82	78.67	62.53	76.61
BLACKNH18	3,790	261	1,471	498	965	595	3,852	275	1,477	527	995	578
BLACKNH18P	27.28	9.39	52.05	17.79	35.03	21.77	27.65	10.07	52.06	19.05	35.11	20.93
AIANNH18	79	23	21	13	9	13	25	7	5	9	2	2
AIANNH18P	0.57	0.83	0.74	0.46	0.33	0.48	0.18	0.26	0.18	0.33	0.07	0.07
ASIANNH18	35	8	13	4	6	4	23	8	0	13	0	2
ASIANNH18P	0.25	0.29	0.46	0.14	0.22	0.15	0.17	0.29	0.00	0.47	0.00	0.07
HPINH18	3	2	0	0	0	1	0	0	0	0	0	0
HPINH18P	0.02	0.07	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
OTHERNH18	4	1	1	1	0	1	0	0	0	0	0	0
OTHERNH18P	0.03	0.04	0.04	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNH18	20	0	8	1	4	7	30	1	2	0	22	5
MLTMNH18P	0.14	0.00	0.28	0.04	0.15	0.26	0.22	0.04	0.07	0.00	0.78	0.18

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.2:

- 1: Tate Schools has WHITENHP = 68.22% and BLACKNHP = 28.63% for the 2010 Census; and WHITENHP = 67.95% and BLACKNHP = 29.18% for the *TDA* run. Similar results for 18+ population.
- 2: School District 02 is the only district with a WHITENHP (also WHITENH18P) percentage lower than 50.00% in both the 2010 Census and the *TDA* run.

Table VII.3. Tylertown (Walthall County), MS Run A of Twenty-five Runs of the *TDA* for Districts 01, 02, 03, and 04 ($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{1,609}{4} = 402.25 \quad TDA \text{ IDEAL POPULATION} = \frac{1,603}{4} = 400.75$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan				Counts & Percentages Run A of the <i>TDA</i>					
	Tylertown	01	02	03	04	Tylertown	01	02	03	04
DIST-ID										
TOTAL	1,609	405	399	391	414	1,603	442	320	454	387
DEV		2.8	-3.2	-11.2	11.8		41.2	-80.8	53.2	-13.8
DEVP		0.70	-0.80	-2.78	2.93		10.28	-20.16	13.28	-3.44
TOTAL18	1,233	327	320	313	273	1,242	371	288	335	248
TOTALHISP	42	12	7	9	14	24	11	6	2	5
TOTALHISP18P	2.61	2.96	1.75	2.30	3.38	1.50	2.49	1.88	0.44	1.29
TOTALNH	1,567	393	392	382	400	1,579	431	314	452	382
TOTALNHP	97.39	97.04	98.25	97.70	96.62	98.50	97.51	98.12	99.56	98.71
WHITENH	860	371	215	246	28	802	320	156	265	61
WHITENHP	53.45	91.60	53.88	62.92	6.76	50.03	72.40	48.75	58.37	15.76
BLACKNH	679	17	174	119	369	739	103	149	166	321
BLACKNHP	42.20	4.20	43.61	30.43	89.13	46.10	23.30	46.56	36.56	82.95
AIANNH	14	5	3	3	3	15	1	7	7	0
AIANNHP	0.87	1.23	0.75	0.77	0.72	0.94	0.23	2.19	1.54	0.00
ASIANNH	12	0	0	12	0	19	7	1	11	0
ASIANNHP	0.75	0.00	0.00	3.07	0.00	1.19	1.58	0.31	2.42	0.00
HPINH	0	0	0	0	0	2	0	0	2	0
HPINH18P	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.44	0.00
OTHERNH	0	0	0	0	0	0	0	0	0	0
OTHERNHP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNNH	2	0	0	2	0	2	0	1	1	0
MLTMNNHP	0.12	0.00	0.00	0.51	0.00	0.12	0.00	0.31	0.22	0.00
HISP18	27	7	4	8	8	22	11	4	2	5
HISP18P	2.19	2.14	1.25	2.56	2.93	1.77	2.96	1.39	0.60	2.02
NONHISP18	1,206	320	316	305	265	1,220	360	284	333	243
NONHISP18P	97.81	97.86	98.75	97.44	97.07	98.23	97.04	98.61	99.40	97.98
WHITENH18	723	302	188	210	23	689	288	151	204	46
WHITENH18P	58.64	92.35	58.75	67.09	8.42	55.48	77.63	52.43	60.90	18.55
BLACKNH18	462	14	127	81	240	494	64	124	109	197
BLACKNH18P	37.47	4.28	39.69	25.88	87.91	39.77	17.25	43.06	32.54	79.44
AIANNH18	10	4	1	3	2	15	1	7	7	0
AIANNH18P	0.81	1.22	0.31	0.96	0.73	1.21	0.27	2.43	2.09	0.00
ASIANNH18	10	0	0	10	0	18	7	1	10	0
ASIANNH18P	0.81	0.00	0.00	3.19	0.00	1.45	1.89	0.35	2.99	0.00
HPINH18	0	0	0	0	0	2	0	0	2	0
HPINH18P	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.60	0.00
OTHERNH18	0	0	0	0	0	0	0	0	0	0
OTHERNH18P	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNH18	1	0	0	1	0	2	0	1	1	0
MLTMNH18P	0.08	0.00	0.00	0.32	0.00	0.16	0.00	0.35	0.30	0.00

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.3:

- 1: Tylertown has WHITENHP = 53.45% and BLACKNHP = 42.20% for the 2010 Census; and WHITENHP = 50.03% and BLACKNHP = 46.10% for the *TDA* run. Similar results hold for 18+ population.
- 2: District 04 has a BLACKNHP (also BLACKNH18P) percentage $\geq 75\%$ in both the 2010 Census and the *TDA* run.
- 3: District 02 has WHITENHP = 53.88% in the 2010 Census and WHITENHP = 48.75% for the *TDA* run.

VII. VARIATION DUE TO THE TopDown ALGORITHM

Definitions of Redistricting Measures of Variation. The measures defined here are all for a specific ϵ . Let

- G \equiv the number of demographic groups;
- P_g \equiv the population of group g (2010 Census, SF1), for $g = 1, \dots, G$; and
- P_{gi} \equiv the population of group g resulting from the i^{th} *TDA* run, for $i = 1, \dots, 25$.

We have the following measures including two types of variation among the 25 *TDA* runs within group g : one relative to AVE_g (see below) and another relative to P_g .

- (i) The **average population of group g** over the 25 *TDA* runs is

$$AVE_g \equiv \frac{P_{g1} + P_{g2} + \dots + P_{g,25}}{25}.$$

- (ii) The **variation(1) among the population of group g** over the 25 *TDA* runs is

$$V(1)_g \equiv \frac{[P_{g1} - AVE_g]^2 + [P_{g2} - AVE_g]^2 + \dots + [P_{g,25} - AVE_g]^2}{25}.$$

- (iii) The **relative variation(1) among the population of group g** over the 25 *TDA* runs is

$$RV(1)_g \equiv \frac{\sqrt{V(1)_g}}{AVE_g}.$$

- (iv) The **average relative variation(1) among the population over the G groups** (essentially a coefficient of variation) is

$$AVERV(1) \equiv \frac{RV(1)_1 + RV(1)_2 + \dots + RV(1)_G}{G}.$$

- (v) Denote the **median relative variation(1) among the population over the G groups** by $MEDRV(1)$.

- (vi) The **variation(2) among the population of group g** over the 25 *TDA* runs is

$$V(2)_g \equiv \frac{[P_{g1} - P_g]^2 + [P_{g2} - P_g]^2 + \dots + [P_{g,25} - P_g]^2}{25}.$$

- (vii) The **relative variation(2) among the population of group g** over the 25 *TDA* runs is

$$RV(2)_g \equiv \frac{\sqrt{V(2)_g}}{P_g}.$$

- (viii) The **average relative variation(2) among the population over the G groups** is

$$AVERV(2) \equiv \frac{RV(2)_1 + RV(2)_2 + \dots + RV(2)_G}{G}.$$

- (ix) Denote the **median relative variation(2) among the population over the G groups** by $MEDRV(2)$.

$V(1)_g$ is an empirical variance measuring variation among the 25 *TDA* runs for group g ; and $V(2)_g$ is an empirical mean square error measuring variation and any potential bias (i.e., $(bias)^2$) relative to P_g for the 25 *TDA* runs for group g .

Tables IVa, Va, VIa, VII.1.a, VII.2.a, and VII.3.a are companion tables for Tables IV, V, VI, VII.1, VII.2, and VII.3 respectively. The formats among the Tables IVa, Va, VIa, VII.1.a, VII.2.a, and VII.3.a are the same, so we make a few comments about Table IVa which also hold for the others. For each demographic group g in each district (Rhode Island and CD for Table IVa; SLDU for Table Va; SLDL for Table VIa; etc.), we provide two sets of three quantities. The first set of quantities gives the average count (AVE_g) over the 25 TDA runs and two associated measures of variation ($\sqrt{V(1)_g}$ and $RV(1)_g$) relative to AVE_g , while the second set of quantities gives the 2010 Census (swapping) count (P_g) and two associated measures of variation ($\sqrt{V(2)_g}$ and $RV(2)_g$) relative to P_g . It is worth noting that $\sqrt{V(2)_g}$ and $RV(2)_g$ are not measures of variability in the swapped data. It is also worth noting that the unit is “persons” for each of the quantities AVE_g , $\sqrt{V(1)_g}$, P_g , and $\sqrt{V(2)_g}$, while the quantities $RV(1)_g$ and $RV(2)_g$ are unitless. So for example, we consider the demographic group $g = \text{ASIANNH}$ of CD-01 in Table IVa. We observe: $AVE_g = 17,744$ persons; $\sqrt{V(1)_g} = 119$ persons; and $RV(1)_g = 0.007$. We also observe: $P_g = 17,705$ persons; $\sqrt{V(2)_g} = 125$ persons; and $RV(2)_g = 0.007$. The detailed computations for these quantities are illustrated in APPENDIX C. In the tables to follow, a few presented results are rounded. In such cases, especially when there is division, one may not be able to obtain other related presented results exactly.

Selected observations for Table IVa:

- 1: $RV(1)_g$ and $RV(2)_g$ are largest for the groups $g = \text{HPINH}$ and HPINH18 which have the smallest counts. In general, groups with smaller counts tend to have more relative variation.
- 2: For a given group g , there is a tendency for $RV(2)_g \geq RV(1)_g$. While this may not be surprising given the definitions of the two measures of variation, this inequality need not hold in all cases, as standardized measures of variation insert different measures of total in the denominator.
- 3: We observe that $RV(1)_g$ and $RV(2)_g$ for counts of groups in CD-02 tend to be larger than for corresponding groups in CD-01. This may be because the redistricting done in 2013 tends to assign fewer counts to minority groups in CD-02 than in the corresponding groups in CD-01.

Notice that the computations for $AVERV(1)$ and $AVERV(2)$ each only average over the relative variations for the counts in a column. Similarly, $MEDRV(1)$ and $MEDRV(2)$ are each the median over the relative variations for the counts in a column.

The Key Empirical Message on Variability

The two measures $AVERV(\cdot)$ and $MEDRV(\cdot)$ summarize the key single empirical message of this study ($\epsilon = 4$):

Variability in the TDA increases as we consider decreasing levels of geography and population - from state (RI POP = 1,052,567); to congressional district (RI-CD IDEAL POP = 526,283.5); to upper chamber district (RI-SLDU IDEAL POP = 27,699.1); to lower chamber district (RI-SLDL IDEAL POP = 14,034.2); to Panola County, MS (DISTRICT IDEAL POP = 6,941.4); to Tate County, MS (SCHOOL DISTRICT IDEAL POP = 3,764.6); and finally to Tylertown (Walthall County), MS (DISTRICT IDEAL POP = 402.25).

To see this empirical evidence, sequentially observe the values for $AVERV(\cdot)$ and $MEDRV(\cdot)$ on the last two rows of Tables IVa; Va; VIa; VII.1.a; VII.2.a; VII.3.a, as well as for other tables in APPENDIX D. We highlight some of this using DISTRICT IDEAL POPULATION and $AVERV(1)$ as follows:

Jurisdiction	District	IDEAL POPULATION	<i>AVERV</i> (1)
Rhode Island	CD-01	526,283.50	0.025
Rhode Island	CD-02	526,283.50	0.043
Rhode Island	SLDU-01	27,699.10	0.138
Rhode Island	SLDU-02	27,699.10	0.149
Rhode Island	SLDU-03	27,699.10	0.165
Rhode Island	SLDU-04	27,699.10	0.139
Rhode Island	SLDL-01	14,034.20	0.222
Rhode Island	SLDL-02	14,034.20	0.188
Rhode Island	SLDL-03	14,034.20	0.168
Rhode Island	SLDL-04	14,034.20	0.198
Panola County, MS	D-01	6,941.40	0.735
Panola County, MS	D-02	6,941.40	0.678
Panola County, MS	D-03	6,941.40	0.678
Panola County, MS	D-04	6,941.40	0.729
Panola County, MS	D-05	6,941.40	0.672
Tate County Schools, MS	D-01	3,764.60	0.677
Tate County Schools, MS	D-02	3,764.60	0.830
Tate County Schools, MS	D-03	3,764.60	0.772
Tate County Schools, MS	D-04	3,764.60	0.721
Tate County Schools, MS	D-05	3,764.60	0.755
Tylertown, MS	D-01	402.25	1.235
Tylertown, MS	D-02	402.25	0.921
Tylertown, MS	D-03	402.25	0.906
Tylertown, MS	D-04	402.25	1.499

Plot of *AVERV*(1) for IDEAL POPULATION Values Noted Above

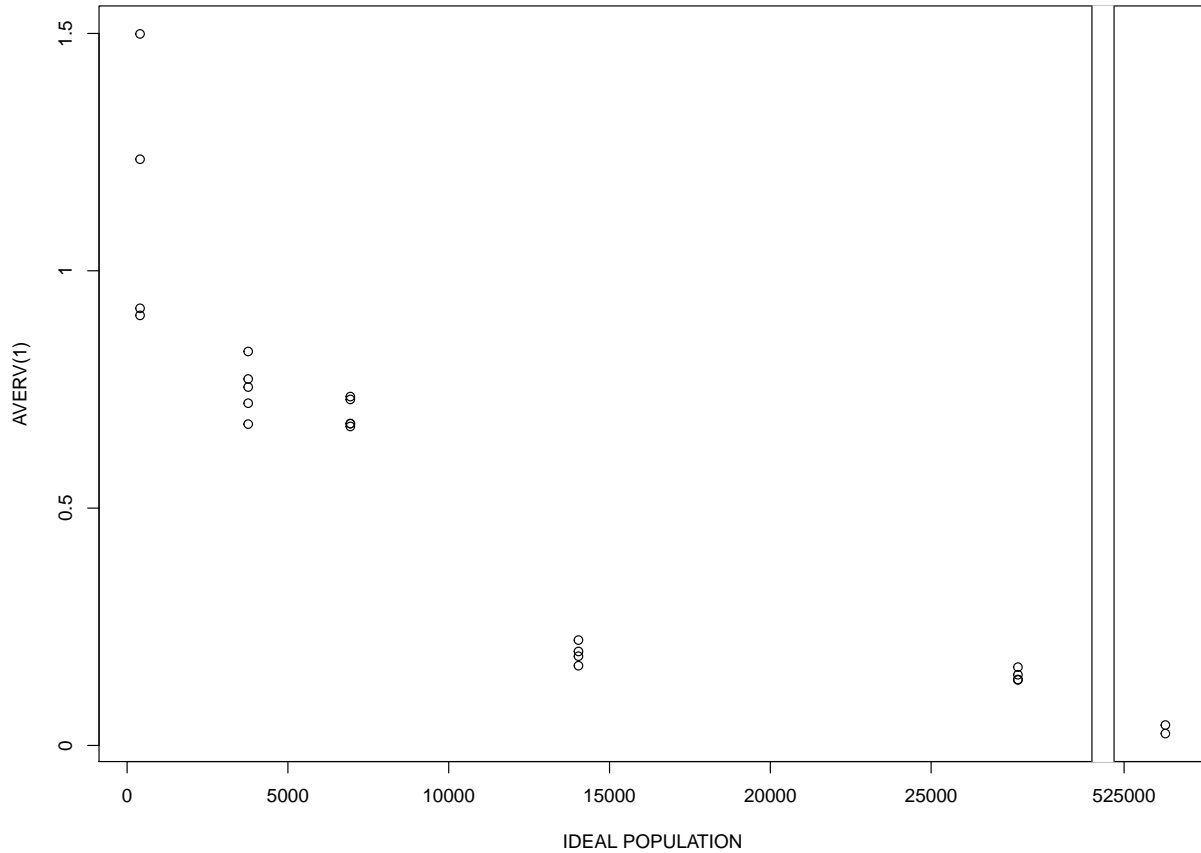


Table IVa. Counts & Measures of Variation for Rhode Island Twenty-five Runs of the TDA
for Congressional Districts (CD) 01, and 02 (2013)
($\epsilon = 4$)

DIST-ID	(Counts & Measures of Variation) (2013)					
	Rhode Island	Rhode Island	CD-01	CD-01	CD-02	CD-02
	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g
	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$
Demographics (g)	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$
TOTAL	1,052,567 0 0.000	1,052,567 0 0.000	525,811 175 0.000	526,283 503 0.001	526,756 175 0.000	526,284 503 0.001
TOTAL18	829,193 199 0.000	828,611 615 0.001	412,662 268 0.001	412,778 292 0.001	416,530 228 0.001	415,833 734 0.002
TOTALHISP	129,981 545 0.004	130,655 867 0.007	75,939 342 0.004	76,100 377 0.005	54,041 336 0.006	54,555 614 0.011
TOTALNH	922,586 545 0.001	921,912 867 0.001	449,872 342 0.001	450,183 462 0.001	472,714 328 0.001	471,729 1,039 0.002
WHITENH	803,613 19 0.000	803,685 74 0.000	377,199 104 0.000	377,109 138 0.000	426,414 101 0.000	426,576 191 0.000
BLACKNH	57,700 34 0.001	57,927 229 0.004	37,470 153 0.004	37,627 219 0.006	20,231 157 0.008	20,300 172 0.008
AIANNH	6,646 23 0.004	6,839 195 0.028	2,993 74 0.025	3,142 167 0.053	3,653 80 0.022	3,697 92 0.025
ASIANNH	33,985 28 0.001	34,194 211 0.006	17,744 119 0.007	17,705 125 0.007	16,242 131 0.008	16,489 280 0.017
HPINH	387 23 0.061	655 269 0.411	238 30 0.127	383 149 0.388	149 33 0.221	272 127 0.467
OTHERNH	10,277 41 0.004	10,296 45 0.004	8,187 77 0.009	8,492 314 0.037	2,090 79 0.038	1,804 296 0.164
MLTMNNH	9,978 559 0.056	8,316 1,754 0.211	6,042 267 0.044	5,725 415 0.072	3,936 339 0.086	2,591 1,387 0.535
HISP18	84,409 566 0.007	84,715 644 0.008	49,202 335 0.007	49,303 350 0.007	35,207 329 0.009	35,412 388 0.011
NONHISP18	744,784 562 0.001	743,896 1,051 0.001	363,460 328 0.001	363,475 329 0.001	381,324 325 0.001	380,421 960 0.003
WHITENH18	660,774 17 0.000	660,823 52 0.000	312,338 83 0.000	312,240 128 0.000	348,436 81 0.000	348,583 168 0.000
BLACKNH18	39,298 29 0.001	39,485 190 0.005	25,267 109 0.004	25,402 173 0.007	14,031 110 0.008	14,083 122 0.009
AIANNH18	4,798 23 0.005	4,963 166 0.033	2,195 64 0.029	2,332 151 0.065	2,603 67 0.026	2,631 73 0.028
ASIANNH18	25,169 20 0.001	25,333 165 0.007	13,305 93 0.007	13,276 98 0.007	11,863 96 0.008	12,057 216 0.018
HPINH18	264 21 0.078	500 237 0.473	168 24 0.145	307 142 0.461	97 25 0.257	193 100 0.516
OTHERNH18	7,305 31 0.004	7,290 35 0.005	5,850 67 0.011	6,061 221 0.037	1,455 67 0.046	1,229 236 0.192
MLTMNH18	7,175 578 0.081	5,502 1,770 0.322	4,337 274 0.063	3,857 553 0.143	2,839 348 0.122	1,645 1,243 0.756
$AVERV(\cdot)$	0.015	0.076	0.025	0.065	0.043	0.138
$MEDRV(\cdot)$	0.002	0.005	0.007	0.007	0.008	0.014

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table Va. Counts & Measures of Variation for Rhode Island Twenty-five Runs of the TDA
for State Upper Chamber Districts (SLDU) 01, 02, 03, and 04 (4 of 38 Districts, 2013)
($\epsilon = 4$)

DIST-ID	(Measures of Variation) (2013)							
	SLDU-01	SLDU-01	SLDU-02	SLDU-02	SLDU-03	SLDU-03	SLDU-04	SLDU-04
	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g
	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$
Demographics (g)	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$
TOTAL	27,838 108 0.004	28,161 341 0.012	27,929 87 0.003	28,079 173 0.006	28,535 93 0.003	28,398 165 0.006	28,139 84 0.003	28,201 105 0.004
TOTAL18	20,676 107 0.005	20,914 261 0.012	19,704 95 0.005	19,846 171 0.009	25,334 75 0.003	25,361 79 0.003	23,546 106 0.005	23,599 119 0.005
TOTALHISP	9,897 124 0.012	10,282 404 0.039	15,877 121 0.008	16,288 429 0.026	1,660 54 0.033	1,409 257 0.182	3,187 61 0.019	3,217 68 0.021
TOTALNH	17,940 140 0.008	17,879 153 0.009	12,052 138 0.011	11,791 296 0.025	26,875 91 0.003	26,989 146 0.005	24,952 92 0.004	24,984 98 0.004
WHITENH	10,344 91 0.009	10,222 152 0.015	3,650 79 0.022	3,553 125 0.035	21,936 58 0.003	22,028 109 0.005	21,165 64 0.003	21,210 79 0.004
BLACKNH	4,832 93 0.019	4,862 97 0.020	4,401 76 0.017	4,332 103 0.024	1,178 55 0.047	1,124 77 0.068	2,366 64 0.027	2,348 67 0.028
AIANNH	271 42 0.154	283 43 0.154	250 33 0.134	216 48 0.221	131 31 0.237	135 31 0.232	174 24 0.139	172 24 0.141
ASIANNH	1,609 62 0.038	1,526 104 0.068	3,045 51 0.017	3,032 52 0.017	3,137 65 0.021	3,262 141 0.043	749 54 0.072	826 94 0.114
HPINH	23 18 0.771	25 18 0.720	21 19 0.912	11 21 1.954	11 9 0.840	16 10 0.651	11 9 0.798	14 9 0.654
OTHERNH	474 48 0.101	457 51 0.112	274 40 0.148	189 94 0.500	258 46 0.177	224 57 0.254	258 31 0.120	241 35 0.147
MLTMNNH	386 42 0.108	504 125 0.248	411 42 0.102	458 63 0.138	225 43 0.191	200 50 0.248	229 34 0.150	173 66 0.382
HISP18	6,209 94 0.015	6,458 266 0.041	10,745 91 0.008	11,014 284 0.026	1,321 56 0.043	1,241 97 0.079	2,087 74 0.035	2,097 74 0.035
NONHISP18	14,467 96 0.007	14,456 97 0.007	8,959 114 0.013	8,832 171 0.019	24,013 65 0.003	24,120 125 0.005	21,458 86 0.004	21,502 97 0.005
WHITENH18	9,225 78 0.008	9,131 123 0.013	3,116 51 0.016	3,062 74 0.024	19,621 44 0.002	19,682 75 0.004	18,790 51 0.003	18,839 71 0.004
BLACKNH18	3,256 74 0.023	3,309 91 0.027	3,067 64 0.021	3,027 75 0.025	1,001 39 0.039	973 48 0.049	1,625 45 0.027	1,599 52 0.032
AIANNH18	192 31 0.160	197 31 0.158	182 24 0.135	154 37 0.240	107 26 0.242	110 26 0.237	128 19 0.149	136 21 0.152
ASIANNH18	1,211 52 0.043	1,170 67 0.057	2,141 45 0.021	2,135 45 0.021	2,919 44 0.015	2,989 83 0.028	563 41 0.073	611 63 0.104
HPINH18	14 14 1.002	20 15 0.767	13 14 1.082	11 14 1.296	9 9 0.974	14 10 0.725	7 6 0.831	13 8 0.642
OTHERNH18	330 39 0.119	326 39 0.121	176 32 0.180	125 60 0.479	199 42 0.210	186 44 0.236	189 29 0.153	178 31 0.173
MLTMNH18	238 35 0.145	303 74 0.244	264 31 0.118	318 62 0.196	158 32 0.205	166 33 0.201	157 27 0.173	126 41 0.325
$AVERV(\cdot)$	0.138	0.142	0.149	0.264	0.165	0.163	0.139	0.149
$MEDRV(\cdot)$	0.030	0.049	0.021	0.026	0.041	0.073	0.054	0.070

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VIa. Counts & Measures of Variation for Rhode Island Twenty-five Runs of the TDA
for State Lower Chamber Districts (SLDL) 01, 02, 03, and 04 (4 of 75 Districts, 2013)
($\epsilon = 4$)

DIST-ID	(Measures of Variation) (2013)							
	SLDL-01	SLDL-01	SLDL-02	SLDL-02	SLDL-03	SLDL-03	SLDL-04	SLDL-04
	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g
	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$
Demographics (g)	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$
TOTAL	14,020 93 0.007	13,881 167 0.012	13,759 119 0.009	13,821 134 0.010	13,630 114 0.008	13,949 338 0.024	13,607 73 0.005	13,713 129 0.009
TOTAL18	12,864 125 0.010	12,835 128 0.010	12,606 95 0.008	12,800 216 0.017	9,462 88 0.009	9,607 170 0.018	11,104 88 0.008	11,205 134 0.012
TOTALHISP	1,102 49 0.044	1,002 111 0.111	1,768 74 0.042	1,768 74 0.042	5,616 111 0.020	5,905 310 0.053	1,111 50 0.045	1,049 80 0.076
TOTALNH	12,918 69 0.005	12,879 79 0.006	11,991 100 0.008	12,053 117 0.010	8,015 112 0.014	8,044 115 0.014	12,496 74 0.006	12,664 184 0.015
WHITENH	9,922 64 0.006	9,922 64 0.006	8,620 76 0.009	8,714 121 0.014	3,595 71 0.020	3,465 149 0.043	9,558 59 0.006	9,539 62 0.007
BLACKNH	624 38 0.061	581 57 0.099	1,207 59 0.049	1,125 101 0.090	2,922 77 0.026	3,015 120 0.040	1,460 32 0.022	1,495 47 0.032
AIANNH	57 19 0.335	46 22 0.476	96 25 0.262	104 26 0.254	167 27 0.163	189 35 0.185	100 24 0.239	126 35 0.279
ASIANNH	2,126 55 0.026	2,175 74 0.034	1,721 55 0.032	1,776 78 0.044	818 51 0.063	794 57 0.071	789 44 0.056	792 45 0.056
HPINH	7 6 0.963	12 8 0.695	10 10 1.015	16 12 0.727	14 13 0.892	12 13 1.071	5 6 1.231	1 7 7.153
OTHERNH	88 24 0.275	57 39 0.692	161 28 0.177	148 31 0.211	275 36 0.130	257 40 0.156	352 32 0.090	396 54 0.136
MLTMNNH	95 30 0.317	86 31 0.365	177 38 0.216	170 39 0.229	222 36 0.161	312 96 0.309	231 33 0.143	315 90 0.287
HISP18	955 51 0.054	951 51 0.054	1,407 71 0.050	1,475 98 0.066	3,361 83 0.025	3,518 177 0.050	714 45 0.063	693 50 0.071
NONHISP18	11,909 86 0.007	11,884 89 0.008	11,199 83 0.007	11,325 151 0.013	6,101 97 0.016	6,089 97 0.016	10,391 85 0.008	10,512 148 0.014
WHITENH18	9,121 70 0.008	9,081 80 0.009	8,222 60 0.007	8,339 132 0.016	3,142 54 0.017	3,040 116 0.038	8,121 54 0.007	8,119 54 0.007
BLACKNH18	567 41 0.072	560 41 0.073	1,031 43 0.042	972 73 0.075	1,917 62 0.033	1,971 83 0.042	1,124 31 0.028	1,144 37 0.032
AIANNH18	48 19 0.404	45 19 0.431	76 22 0.291	82 23 0.279	120 21 0.171	129 22 0.174	86 23 0.267	101 28 0.273
ASIANNH18	2,031 44 0.022	2,052 48 0.024	1,595 51 0.032	1,655 79 0.048	591 43 0.073	575 46 0.080	641 35 0.055	635 36 0.056
HPINH18	6 7 1.102	10 8 0.771	8 8 1.087	14 11 0.750	9 11 1.173	11 11 0.999	3 5 1.412	1 5 5.367
OTHERNH18	67 23 0.338	51 28 0.551	129 27 0.206	126 27 0.212	189 31 0.166	190 31 0.165	248 23 0.095	280 40 0.142
MLTMNH18	69 27 0.390	85 31 0.367	139 29 0.210	137 29 0.213	132 24 0.182	173 47 0.273	167 29 0.176	232 71 0.307
$AVERV(\cdot)$	0.222	0.240	0.188	0.166	0.168	0.191	0.198	0.716
$MEDRV(\cdot)$	0.058	0.086	0.045	0.071	0.048	0.062	0.055	0.064

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.1.a. Counts & Measures of Variation for Panola County, MS Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Panola County		01		02		03		04		05	
	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g
	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$
Demographics (g)	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$
TOTAL	34,695 35 0.001	34,707 37 0.001	6,960 65 0.009	6,974 66 0.010	6,569 86 0.013	6,549 89 0.014	7,030 78 0.011	7,074 90 0.013	7,067 61 0.009	7,105 72 0.010	7,069 61 0.009	7,005 89 0.013
TOTAL18	25,372 41 0.002	25,363 42 0.002	5,208 58 0.011	5,214 58 0.011	4,738 62 0.013	4,732 62 0.013	5,162 67 0.013	5,171 67 0.013	5,321 58 0.011	5,345 63 0.012	4,944 53 0.011	4,901 68 0.014
TOTALHISP	504 32 0.063	494 33 0.067	92 15 0.164	66 30 0.451	77 16 0.211	75 16 0.218	72 17 0.231	85 21 0.249	115 28 0.246	120 29 0.240	149 25 0.170	148 25 0.170
TOTALNH	34,191 42 0.001	34,213 48 0.001	6,868 63 0.009	6,908 74 0.011	6,492 86 0.013	6,474 88 0.014	6,958 80 0.012	6,989 86 0.012	6,952 60 0.009	6,985 68 0.010	6,920 60 0.009	6,857 87 0.013
WHITENH	16,989 16 0.001	16,981 18 0.001	2,459 64 0.026	2,419 75 0.031	2,143 76 0.035	2,096 89 0.043	4,049 68 0.017	4,030 70 0.017	5,185 58 0.011	5,250 87 0.017	3,154 54 0.017	3,186 63 0.020
BLACKNH	16,899 24 0.001	16,899 24 0.001	4,350 52 0.012	4,427 93 0.021	4,309 52 0.012	4,332 57 0.013	2,868 53 0.018	2,925 78 0.027	1,698 59 0.035	1,658 71 0.043	3,674 47 0.013	3,557 126 0.035
AIANNH	140 22 0.159	148 24 0.160	29 10 0.352	26 11 0.406	20 12 0.614	20 12 0.611	18 10 0.584	15 11 0.722	30 14 0.474	38 16 0.430	44 14 0.331	49 15 0.314
ASIANNH	88 22 0.254	89 22 0.251	14 11 0.731	8 12 1.552	10 7 0.706	7 7 1.026	11 6 0.604	5 9 1.701	18 11 0.635	17 11 0.658	35 12 0.340	52 21 0.395
HPINH	7 12 1.746	4 12 3.012	1 3 3.117	0 3 Inf	1 1 2.263	0 1 Inf	2 3 1.996	0 4 Inf	2 6 2.926	2 6 3.043	2 3 2.107	2 3 1.697
OTHERNH	13 10 0.815	19 12 0.636	3 3 1.064	7 5 0.740	2 2 1.034	5 4 0.720	2 3 1.397	1 3 3.298	3 5 1.567	3 5 1.587	2 3 1.477	3 3 1.164
MLTMNNH	56 24 0.428	73 29 0.403	13 9 0.731	21 12 0.594	8 6 0.765	14 9 0.612	9 7 0.715	13 8 0.584	17 10 0.621	17 10 0.615	9 11 1.175	8 11 1.360
HISP18	305 21 0.069	298 22 0.075	54 16 0.287	44 19 0.421	48 11 0.239	44 12 0.270	49 14 0.293	52 15 0.282	64 18 0.280	63 18 0.284	91 19 0.210	95 20 0.206
NONHISP18	25,067 37 0.001	25,065 37 0.001	5,154 56 0.011	5,170 58 0.011	4,691 61 0.013	4,688 61 0.013	5,113 66 0.013	5,119 67 0.013	5,257 56 0.011	5,282 61 0.012	4,853 55 0.011	4,806 72 0.015
WHITENH18	13,464 15 0.001	13,455 18 0.001	2,056 55 0.027	2,025 63 0.031	1,749 65 0.037	1,732 67 0.039	3,092 47 0.015	3,072 51 0.017	4,076 50 0.012	4,115 63 0.015	2,490 56 0.023	2,511 60 0.024
BLACKNH18	11,398 18 0.002	11,394 19 0.002	3,056 55 0.018	3,099 70 0.023	2,911 48 0.016	2,928 51 0.017	1,992 44 0.022	2,024 54 0.027	1,135 42 0.037	1,118 45 0.040	2,303 41 0.018	2,225 88 0.039
AIANNH18	109 19 0.176	115 20 0.175	23 9 0.389	21 9 0.427	17 11 0.660	16 11 0.685	13 10 0.763	11 10 0.910	23 11 0.499	29 13 0.447	34 11 0.323	38 12 0.307
ASIANNH18	56 19 0.341	54 19 0.359	10 9 0.828	8 9 1.107	7 6 0.867	5 7 1.324	7 6 0.869	2 8 4.224	12 8 0.682	12 8 0.691	19 11 0.571	27 13 0.498
HPINH18	5 10 1.905	2 10 2.455	1 2 3.682	0 2 Inf	0 1 2.577	0 1 Inf	1 3 2.664	0 3 Inf	1 4 2.626	1 4 3.699	2 3 2.211	1 3 3.400
OTHERNH18	3 6 1.700	5 6 1.189	1 1 2.315	1 1 1.296	1 2 2.582	0 2 Inf	1 2 2.373	1 2 2.000	0 1 2.951	2 2 1.015	1 3 2.833	1 3 2.720
MLTMNH18	32 16 0.504	40 18 0.450	8 7 0.913	16 11 0.682	5 5 0.883	7 5 0.715	7 6 0.943	9 7 0.746	8 8 0.933	5 8 1.669	4 7 1.581	3 7 2.342
$AVERV(\cdot)$	0.409	0.595	0.735	Inf	0.678	Inf	0.678	Inf	0.729	0.727	0.672	0.737
$MEDRV(\cdot)$	0.114	0.117	0.320	0.424	0.426	0.441	0.439	0.433	0.377	0.357	0.267	0.257

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.2.a. Counts & Measures of Variation for Tate County School Districts, MS Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Tate Schools		01		02		03		04		05	
Demographics (g)	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g
	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$
	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$
TOTAL	18,824 67 0.004	18,823 67 0.004	3,944 69 0.018	3,914 75 0.019	3,848 48 0.012	3,893 65 0.017	3,620 42 0.012	3,665 62 0.017	3,754 87 0.023	3,697 104 0.028	3,658 47 0.013	3,654 47 0.013
TOTAL18	13,914 58 0.004	13,893 62 0.004	2811 59 0.021	2,780 66 0.024	2,808 42 0.015	2,826 46 0.016	2,778 29 0.011	2,799 36 0.013	2,798 61 0.022	2,755 75 0.027	2,720 37 0.013	2,733 39 0.014
TOTALHISP	398 40 0.102	399 40 0.101	92 23 0.255	87 24 0.275	60 16 0.273	63 17 0.265	86 19 0.223	110 31 0.280	76 14 0.187	32 46 1.431	85 22 0.266	107 32 0.297
TOTALNH	18,426 71 0.004	18,424 71 0.004	3,852 67 0.017	3,827 71 0.019	3,788 47 0.012	3,830 63 0.017	3,534 42 0.012	3,555 47 0.013	3,679 85 0.023	3,665 86 0.024	3,573 53 0.015	3,547 60 0.017
WHITENH	12,803 52 0.004	12,841 64 0.005	3,361 50 0.015	3,378 53 0.016	1,616 26 0.016	1,628 29 0.018	2,822 47 0.017	2,860 61 0.021	2,301 67 0.029	2,293 67 0.029	2,704 44 0.016	2,682 49 0.018
BLACKNH	5,438 45 0.008	5,389 66 0.012	444 46 0.104	400 64 0.159	2,129 37 0.017	2,139 38 0.018	684 30 0.044	666 35 0.052	1,344 41 0.030	1,349 41 0.030	837 40 0.048	835 40 0.048
AIANNH	91 24 0.265	103 27 0.263	25 13 0.520	32 15 0.461	23 13 0.574	26 14 0.527	14 7 0.532	19 9 0.475	16 9 0.548	11 10 0.939	12 8 0.642	15 8 0.559
ASIANNH	56 19 0.345	47 21 0.449	15 9 0.581	14 9 0.617	12 9 0.764	16 10 0.627	8 5 0.610	6 5 0.898	11 8 0.739	7 9 1.231	10 8 0.775	4 10 2.486
HPINH	4 5 1.419	3 5 1.776	1 1 2.148	2 2 0.938	0 2 3.641	0 2 Inf	1 1 2.319	0 1 Inf	1 2 1.761	0 3 Inf	1 2 2.617	1 2 2.307
OTHERNH	9 8 0.881	9 8 0.897	2 3 1.564	1 3 3.212	2 3 1.397	5 4 0.845	1 2 1.737	1 2 1.949	1 3 2.063	1 3 2.742	2 3 1.344	1 4 3.516
MLTMNNH	26 16 0.611	32 17 0.529	5 5 1.021	0 8 Inf	4 5 1.119	16 13 0.799	4 5 1.051	3 5 1.628	4 5 1.060	4 5 1.194	7 7 0.917	9 7 0.778
HISP18	216 27 0.126	215 27 0.126	47 17 0.357	47 17 0.356	36 12 0.346	34 12 0.366	45 15 0.325	63 23 0.364	40 11 0.283	16 27 1.676	48 16 0.342	55 18 0.325
NONHISP18	13,699 63 0.005	13,678 66 0.005	2,764 57 0.021	2,733 65 0.024	2,772 40 0.014	2,792 44 0.016	2,732 32 0.012	2,736 32 0.012	2,758 60 0.022	2,739 63 0.023	2,672 43 0.016	2,678 43 0.016
WHITENH18	9,756 41 0.004	9,747 42 0.004	2,457 48 0.020	2,438 52 0.021	1,270 24 0.019	1,278 26 0.020	2,196 35 0.016	2,219 42 0.019	1,766 45 0.026	1,755 47 0.027	2,067 35 0.017	2,057 37 0.018
BLACKNH18	3,812 36 0.009	3,790 42 0.011	274 33 0.121	261 36 0.137	1,471 29 0.020	1,471 29 0.020	515 23 0.044	498 28 0.057	968 32 0.033	965 32 0.034	584 31 0.053	595 33 0.055
AIANNH18	68 22 0.318	79 24 0.306	19 10 0.556	23 11 0.489	18 11 0.638	21 12 0.562	11 8 0.721	13 8 0.638	12 8 0.712	9 9 0.975	9 7 0.823	13 8 0.646
ASIANNH18	40 15 0.367	35 16 0.449	11 8 0.682	8 8 1.025	10 8 0.796	13 8 0.652	6 5 0.781	4 5 1.364	7 7 0.955	6 7 1.149	6 6 0.946	4 6 1.456
HPINH18	3 5 1.885	3 5 1.711	0 1 2.550	2 2 0.949	0 2 3.641	0 2 Inf	0 1 3.391	0 1 Inf	1 2 2.106	0 2 Inf	1 2 2.847	1 2 2.069
OTHERNH18	4 5 1.272	4 5 1.337	1 2 1.710	1 2 2.280	1 2 2.007	1 2 2.088	1 1 2.319	1 1 1.371	1 1 2.291	0 2 Inf	1 1 2.019	1 1 1.342
MLTMNH18	15 13 0.865	20 14 0.695	2 3 1.251	0 4 Inf	2 2 1.286	8 7 0.827	3 4 1.266	1 4 4.228	3 5 1.502	4 5 1.205	5 6 1.368	7 7 0.979
$AVERV(\cdot)$	0.425	0.434	0.677	Inf	0.830	Inf	0.772	Inf	0.721	Inf	0.755	0.848
$MEDRV(\cdot)$	0.196	0.194	0.439	0.409	0.460	0.447	0.429	0.420	0.415	1.062	0.492	0.442

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.3.a. Counts & Measures of Variation for Tylertown (Walthall County), MS Twenty-five Runs of the TDA for County Districts 01, 02, 03, 04 ($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Tylertown		01		02		03		04	
	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g	AVE_g	P_g
	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$	$\sqrt{V(1)_g}$	$\sqrt{V(2)_g}$
Demographics (g)	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$	$RV(1)_g$	$RV(2)_g$
TOTAL	1,635 48 0.029	1,609 54 0.034	391 38 0.096	405 40 0.099	429 40 0.094	399 50 0.126	461 51 0.111	391 87 0.222	354 36 0.103	414 70 0.170
TOTAL18	1,249 40 0.032	1,233 43 0.035	314 36 0.114	327 38 0.116	330 27 0.080	320 28 0.088	354 47 0.132	313 62 0.199	251 31 0.122	273 38 0.138
TOTALHISP	38 16 0.408	42 16 0.383	8 7 0.830	12 8 0.651	10 7 0.738	7 8 1.091	14 10 0.687	9 11 1.223	6 6 0.936	14 10 0.694
TOTALNH	1,597 50 0.031	1,567 58 0.037	383 36 0.094	393 37 0.095	419 38 0.091	392 47 0.120	447 50 0.113	382 82 0.215	347 35 0.101	400 63 0.158
WHITENH	851 35 0.041	860 36 0.042	313 25 0.081	371 63 0.170	202 31 0.151	215 33 0.155	276 39 0.141	246 49 0.199	60 20 0.332	28 38 1.354
BLACKNH	704 26 0.037	679 36 0.053	60 27 0.451	17 51 2.984	205 30 0.146	174 43 0.249	156 29 0.185	119 47 0.392	283 29 0.102	369 91 0.246
AIANNH	14 10 0.718	14 10 0.728	3 4 1.539	5 5 0.921	5 5 1.132	3 5 1.816	6 6 1.123	3 7 2.325	1 3 2.296	3 4 1.176
ASIANNH	11 8 0.733	12 8 0.683	2 4 1.691	0 4 Inf	3 4 1.309	0 4 Inf	5 6 1.142	12 9 0.752	1 2 2.041	0 2 Inf
HPINH	3 4 1.112	0 5 Inf	1 2 2.498	0 3 Inf	1 2 1.525	0 3 Inf	1 1 2.000	0 1 Inf	0 1 2.953	0 1 Inf
OTHERNH	4 7 1.628	0 8 Inf	2 4 1.920	0 4 Inf	1 2 2.374	0 2 Inf	1 2 1.503	0 2 Inf	0 1 3.574	0 1 Inf
MLTMNNH	9 9 0.981	2 11 5.578	2 3 1.617	0 4 Inf	3 3 0.993	0 4 Inf	3 4 1.542	2 4 2.195	2 3 1.890	0 3 Inf
HISP18	26 13 0.487	27 13 0.466	6 5 0.891	7 5 0.740	7 5 0.714	4 5 1.356	9 9 0.980	8 9 1.143	4 5 1.163	8 6 0.773
NONHISP18	1,223 39 0.032	1,206 43 0.036	308 35 0.114	320 37 0.116	323 26 0.080	316 27 0.085	345 46 0.133	305 61 0.199	247 30 0.122	265 35 0.132
WHITENH18	715 28 0.039	723 29 0.040	268 26 0.097	302 43 0.143	170 20 0.119	188 27 0.144	231 34 0.146	210 40 0.188	46 17 0.361	23 29 1.255
BLACKNH18	476 22 0.045	462 26 0.056	34 21 0.621	14 29 2.085	144 21 0.145	127 27 0.212	101 23 0.229	81 31 0.381	197 24 0.123	240 49 0.206
AIANNH18	11 9 0.790	10 9 0.853	2 4 1.751	4 4 1.075	3 4 1.197	1 4 4.233	4 6 1.428	3 6 2.125	1 3 2.868	2 3 1.616
ASIANNH18	9 7 0.803	10 7 0.741	1 2 2.438	0 3 Inf	3 4 1.372	0 4 Inf	5 6 1.187	10 8 0.775	1 1 1.920	0 1 Inf
HPINH18	3 4 1.324	0 5 Inf	1 2 3.530	0 2 Inf	1 2 1.741	0 2 Inf	1 1 2.000	0 1 Inf	0 1 2.953	0 1 Inf
OTHERNH18	3 5 1.737	0 5 Inf	1 3 2.148	0 3 Inf	0 1 3.240	0 1 Inf	1 1 1.796	0 2 Inf	0 1 3.824	0 1 Inf
MLTMNH18	7 7 1.099	1 9 9.340	1 3 2.180	0 4 Inf	2 2 1.168	0 3 Inf	2 3 1.548	1 4 3.611	1 2 2.205	0 3 Inf
$AVERV(\cdot)$	0.605	Inf	1.235	Inf	0.921	Inf	0.906	Inf	1.499	Inf
$MEDRV(\cdot)$	0.602	0.575	1.215	1.580	0.866	1.586	1.051	0.959	1.526	1.304

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

VIII. CONCLUDING REMARKS

General Remark on Differential Privacy, TDA , and ϵ

Our objective in this study has been to report on some variability in results from the TDA ; it has not been to discuss how the TDA is constructed nor how it operates. However, we feel compelled to offer a few such comments in this general remark, though our knowledge on the TDA is limited.

The objective of the TDA is to bring privacy protection to respondent data. There are three things to consider: (i) a database (i.e., the 2010 CEF); (ii) a query made to the database (e.g., the number of people with certain characteristics in the database); and (iii) a randomized data protection mechanism that gives differential privacy (i.e., a probability distribution which is a part of the TDA). As Dwork (2014) notes, “On an intuitive level, the goal of *differential privacy* is to obscure the presence or absence of any individual (in a database), or small group of individuals, while at the same time preserving statistical utility.”

With differential privacy, the degree of privacy protection is reported by a positive quantity ϵ . Consider two different values of ϵ , ϵ_1 and ϵ_2 . If $\epsilon_1 < \epsilon_2$, more privacy is offered with ϵ_1 than with ϵ_2 . While details of the TDA and its foundation based on principles of *differential privacy* [4] are out-of-scope for this study (whose focus is only observing variability of output from the TDA), we note that the TDA has two components; and we share a little of our limited understanding. For simplicity, assume that an investigator is interested in knowing the count of persons in the 2010 CEF data with certain very specific characteristics. Thus a query is made of the 2010 CEF data (the answer sought should be a nonnegative integer). In the first component (noise processing) of the implementation of the TDA , random noise is generated and added to the answer from our query of the 2010 CEF data. The source of the random noise is a probability distribution (differentially private random mechanism) with positive probability at each of the integers ...-3, -2, -1, 0, 1, 2, 3,... Thus the “noised answer” that is to be returned to the investigator submitting the query is

“noised answer” = (the query’s answer using 2010 CEF data) + (random noise which is an integer).

However, if the random noise is a negative integer whose absolute value is greater than the query’s answer using the 2010 CEF data, then our noised answer would be a negative noised answer, which is not feasible. Thus, action is needed. This is the purpose of component two (post-processing) of the TDA , to ensure that our “final noised answer” to the query is a nonnegative integer. So some more work is needed before the investigator eventually gets a “final noised answer” to the original query.

Statistical theory permits deep explicit understanding of the variability caused by generation of the random noise in the first component. In particular, if $\epsilon_1 < \epsilon_2$, the variability in the noise addition with ϵ_1 is more than the variability in the noise with ϵ_2 . The variability and uncertainty due to the activity of the second component is less well understood by us, and we believe it currently contributes more variability and uncertainty than the first component. We believe that the empirical variability reported in this study is an overall combination of variability and uncertainty from the two components.

Specific Remarks

The Rhode Island Data: The first set of analyses in our study is a follow-up to earlier analyses done for Rhode Island in the context of the 2018 End-to-End Census Test. For each of the given redistricting plans we studied for Rhode Island, we observe that counts and percentages

put in place from swapping being applied to the 2010 CEF have similar counts and percentages after the *TDA* is applied to the same 2010 CEF. Also for each of these plans, we further observe empirically that variability in the *TDA* increases as we consider decreasing levels of geography and population: from congressional districts, to upper chamber districts, and finally to lower chamber districts for Rhode Island data.

The 20 DOJ Provided Jurisdictions Data: In the second set of analyses in our study, we repeat our analyses for three specific cases provided by DOJ. Our observations for the smaller geographies and populations of these three cases show less similarities between swapping and *TDA* results and more variability for *TDA*. (Analyses for seventeen additional cases also provided by DOJ are given in APPENDIX D.)

Need for Better Understanding of the *TDA*: The preliminary version of the *TDA* studied in this paper infuses noise via differentially private mechanisms with a total privacy-loss budget of $\epsilon = 4$. It then post-processes those noisy estimates into fully consistent non-negative, integer-valued data with the same schema as was produced in 2010. The observation that $RV(2)_g > RV(1)_g$ (also $\sqrt{V(2)_g} > \sqrt{V(1)_g}$) in the majority of the variation tables may be a reflection of bias caused by post-processing. If there is some bias, it is relative to the official (swapping) counts from the 2010 Census and not necessarily relative to the unknown true counts. A stronger understanding of the cumulative effects of the noise infusion and post-processing, as they affect the cases provided by DoJ, would be beneficial. This is a topic for further study.

Study Limitation: This study is limited in that new data (*TDA*) was retrofitted into existing redistricting plans developed using similar, but different data (2010 Census) treated by swapping. In practice, redistricting plans would be drawn using one set of data to satisfy desired parameters. In congressional redistricting, for instance, DEV would not exceed 1 for any district, by design.

Swapping Results and *TDA* Results: Finally, despite limitations, the Tables (IV; V; VI; VII.1; VII.2; VII.3 and also those in APPENDIX D) produced by the *TDA* with $\epsilon = 4$ tend to be not too different from the corresponding results produced in the 2010 Census (swapping) for the cases analyzed in this study.

X. REFERENCES

- [1] Abowd, J., Ashmead, R., Garfinkel, S., Kifer, D., Leclerc, P., Machanavajjhala, A., Moran, B., Sexton, W., and Zhuravlev, P. (October 2019 Draft) U.S. Bureau of the Census, Washington, D.C. < https://github.com/uscensusbureau/census2020-das-2010ddp/blob/master/doc/20191020_1843-Consistency-for-Large-Scale-Differentially-Private-Histograms.pdf >
- [2] **Table P2** HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE, Universe: Total population, 2010 Census Redistricting Data (Public Law 94-171) Summary File *Also* **Table P4** HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE FOR THE POPULATION 18 YEARS AND OVER, Universe: Total population 18 years and over, 2010 Census Redistricting Data (Public Law 94-171) Summary File, American FactFinder, U. S. Bureau of the Census, Washington, D.C.
- [3] **Table P9** HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE, Universe: Total population, 2010 Census Congressional District Summary File (113th Congress) *Also* **Table P11** HISPANIC OR LATINO, AND NOT HISPANIC OR LATINO BY RACE FOR THE POPULATION 18 YEARS AND OVER, Universe: Population 18 years and over, 2010 Census Congressional District Summary File (113th Congress), American FactFinder, U. S. Bureau of the Census, Washington, D.C.
- [4] Dwork, C. (2014). “Differential Privacy: A Cryptographic Approach to Private Data Analysis,” in *Privacy, Big data, and the Public Good*, (Editors: J. Lane, V. Stodden, S. Bender, and H. Nissenbaum), New York, NY: Cambridge University Press, 296-322.
- [5] Zayatz, L. (2007). “Disclosure Avoidance Practices and Research at the U.S. Census Bureau: An Update”, *Journal of Official Statistics*, Vol 21, No. 2, 253-265.

**APPENDIX A. Congressional District (CD) Counts from Tables P2 and P4, PL 94-171, SF1, 2010 Census,
113th Congress**

Table A. HISPANIC OR LATINO AND NOT HISPANIC OR LATINO BY RACE (Rhode Island)

Demographics	Total Pop, P2			Pop. ≥ 18 Yrs, P4		Row
	RI	CD-01	CD-02	CD-01	CD-02	
Total	1,052,567	526,283	526,284	412,778	415,833	1
Hispanic or Latino	130,655	76,100	54,555	49,303	35,412	2
Not Hispanic or Latino	921,912	450,183	471,729	363,475	380,421	3
Population of one race	898,433	435,686	462,747	355,212	375,667	4
- White alone	803,685	377,109	426,576	312,240	348,583	5
- Black or African American alone	51,560	33,737	17,823	24,027	13,198	6
- American Indian and Alaska Native alone	4,020	1,799	2,221	1,320	1,613	7
- Asian alone	29,988	15,382	14,606	12,057	11,200	8
- Native Hawaiian and Other Pacific Islander alone	305	157	148	129	111	9
- Some other Race alone	8,875	7,502	1,373	5,439	962	10
Two or More Races	23,479	14,497	8,982	8,263	4,754	11
Population of Two Races	21,096	13,061	8,035	7,517	4,292	12
- White; Black or African American	6,367	3,890	2,477	1,375	885	13
- White; American Indian and Alaska Native	2,819	1,343	1,476	1,012	1,018	14
- White; Asian	4,206	2,323	1,883	1,219	857	15
- White; Native Hawaiian and Other Pacific Islander	350	226	124	178	82	16
- White; Some Other Race	1,421	990	431	622	267	17
- Black or African American; American Indian and Alaska Native	1,784	1,030	754	726	560	18
- Black or African American; Asian	275	171	104	92	47	19
- Black or African American; Native Hawaiian and Other Pacific Islander	103	75	28	49	19	20
- Black or African American; Some Other Race	2,714	2,341	373	1,752	273	21
- American Indian and Alaska Native; Asian	123	61	62	45	43	22
- American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander	17	11	6	7	6	23
- American Indian and Alaska Native; Some Other Race	236	150	86	96	51	24
- Asian; Native Hawaiian and Other Pacific Islander	100	52	48	45	41	25
- Asian; Some Other Race	348	199	149	153	116	26
- Native Hawaiian and Other Pacific Islander; Some Other Race	233	199	34	146	27	27
Population of Three Races	2,173	1,288	885	680	435	28
- White; Black or African American; American Indian and Alaska Native	1,069	540	529	278	242	29
- White; Black or African American; Asian	129	83	46	30	16	30
- White; Black or African American; Native Hawaiian and Other Pacific Islander	33	22	11	6	6	31
- White; Black or African American; Some Other Race	311	216	95	110	45	32
- White; American Indian and Alaska Native; Asian	51	21	30	10	16	33
- White; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander	10	5	5	3	3	34
- White; American Indian and Alaska Native; Some Other Race	55	32	23	13	11	35
- White; Asian; Native Hawaiian and Other Pacific Islander	59	37	22	27	14	36
- White; Asian; Some Other Race	43	30	13	19	8	37
- White; Native Hawaiian and Other Pacific Islander; Some Other Race	35	19	16	9	7	38
- Black or African American; American Indian and Alaska Native; Asian	20	12	8	7	6	39
- Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander	6	3	3	3	2	40
- Black or African American; American Indian and Alaska Native; Some Other Race	180	125	55	60	37	41
- Black or African American; Asian; Native Hawaiian and Other Pacific Islander	12	11	1	8	1	42
- Black or African American; Asian; Some Other Race	37	24	13	14	7	43
- Black or African American; Native Hawaiian and Other Pacific Islander; Some Other Race	107	96	11	74	10	44
- American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander	5	4	1	4	1	45
- American Indian and Alaska Native; Asian; Some Other Race	2	2	0	1	0	46
- American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some Other Race	6	4	2	2	2	47
Race	3	2	1	2	1	48
- Asian; Native Hawaiian and Other Pacific Islander; Some Other Race	3	2	1	2	1	48
Population of Four Races	188	126	62	57	27	49
- White; Black or African American; American Indian and Alaska Native; Asian	55	43	12	20	4	50
- White; Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander	5	2	3	2	0	51
Other Pacific Islander	57	29	28	14	14	52
- White; Black or African American; American Indian and Alaska Native; Some Other Race	7	3	4	1	0	53
- White; Black or African American; Asian; Native Hawaiian and Other Pacific Islander	19	16	3	6	0	54
- White; Black or African American; Asian; Some Other Race	5	4	1	0	1	55
- White; Black or African American; Native Hawaiian and Other Pacific Islander; Some Other Race	5	4	1	0	1	55
Race	20	14	6	6	5	56
- White; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander	1	1	0	1	0	57
- White; American Indian and Alaska Native; Asian; Some Other Race	3	1	2	0	1	58
Other Race	1	0	1	0	1	59
- White; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race	1	0	1	0	1	59
- Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander	0	0	0	0	0	60
Other Pacific Islander	7	5	2	1	1	61
- Black or African American; American Indian and Alaska Native; Asian; Some Other Race	6	6	0	5	0	62
- Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some Other Race	1	1	0	1	0	63
Race	1	1	0	0	0	64
- American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race	1	1	0	0	0	64
Other Race	22	22	0	9	0	65
Population of Five Races	3	3	0	2	0	66
- White; Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander	18	18	0	6	0	67
- White; Black or African American; American Indian and Alaska Native; Asian; Some Other Race	0	0	0	0	0	68
- White; Black or African American; American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander; Some Other Race	0	0	0	0	0	69
Other Race	1	1	0	1	0	70
- White; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race	0	0	0	0	0	71
- Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race	0	0	0	0	0	71
Population of Six Races	0	0	0	0	0	72
- White; Black or African American; American Indian and Alaska Native; Asian; Native Hawaiian and Other Pacific Islander; Some Other Race	0	0	0	0	0	73

Source: See Reference [3], U. S. Bureau of the Census, Washington, D.C.

APPENDIX B. Data Dictionary for Demographic Variables

DIST-ID:	Identification for geographical area: e.g., congressional or state legislative, county, or state
SHAPE-AREA:	The area
SHAPE-LEN:	The perimeter
TOTAL:	Total population
DEV:	Deviation from Ideal = TOTAL - (IDEAL POPULATION)
DEVP:	Percent deviation from Ideal = $[\text{DEV}/(\text{IDEAL POPULATION})] \times 100\%$
TOTAL18	All individuals 18 years of age or older
TOTALHISP:	All individuals of any race and who chose Hispanic
TOTALHISP:	$[\text{TOTALHISP}/\text{TOTAL}] \times 100\%$
TOTALNH:	All individuals of any race and who chose Not Hispanic
TOTALNHP:	$[\text{TOTALNH}/\text{TOTAL}] \times 100\%$
WHITENH:	All individuals who chose White and Not Hispanic
WHITENHP:	$[\text{WHITENH}/\text{TOTAL}] \times 100\%$
BLACKNH:	All individuals who chose Black either singly or in combination with White and chose Not Hispanic
BLACKNHP:	$[\text{BLACKNH}/\text{TOTAL}] \times 100\%$
AIANNH:	All individuals who chose AIAN either singly or in combination with White and chose Not Hispanic
AIANNHP:	$[\text{AIANNH}/\text{TOTAL}] \times 100\%$
ASIANNH:	All individuals who chose Asian either singly or in combination with White and chose Not Hispanic
ASIANNHP:	$[\text{ASIANNH}/\text{TOTAL}] \times 100\%$
HPINH:	All individuals who chose Hawaiian or Other Pacific Islander either singly or in combination with White and chose Not Hispanic
HPINH:	$[\text{HPINH}/\text{TOTAL}] \times 100\%$
OTHERNH:	All individuals who chose Some other race either singly or in combination with White and chose Not Hispanic
OTHERNHP:	$[\text{OTHERNH}/\text{TOTAL}] \times 100\%$
MLTMNNH:	All individuals who chose two or more minority groups and may or may not have chosen White but did not select Hispanic (<i>We believe this definition needs to be clarified. We believe that the counts for White "and" each of the 5 other race categories should be subtracted from the two or more raves counts to obtain the counts for MLTMNNH.</i>)
MLTMNNHP:	$[\text{MLTMNNH}/\text{TOTAL}] \times 100\%$
HISP18:	All individuals 18 years of age or older of any race who chose Hispanic
HISP18P:	$[\text{HISP18}/\text{TOTAL18}] \times 100\%$
NONHISP18:	All individuals 18 years of age or older of any race who chose Not Hispanic
NONHISP18P:	$[\text{NONHISP18}/\text{TOTAL18}] \times 100\%$
WHITENH18:	All individuals 18 years of age or older who chose White and Not Hispanic
WHITENH18P:	$[\text{WHITENH18}/\text{TOTAL18}] \times 100\%$
BLACKNH18:	All individuals 18 years of age or older who chose Black either singly or in combination with White and chose Not Hispanic
BLACKNH18P:	$[\text{BLACKNH18}/\text{TOTAL18}] \times 100\%$
AIANNH18:	All individuals 18 years of age or older who chose AIAN either singly or in combination with White and chose Not Hispanic
AIANNH18P:	$[\text{AIANNH18}/\text{TOTAL18}] \times 100\%$
ASIANNH18:	All individuals 18 years of age or older who chose Asian either singly or in combination with White and chose Not Hispanic
ASIANNH18P:	$[\text{ASIANNH18}/\text{TOTAL18}] \times 100\%$
HPINH18:	All individuals 18 years of age or older who chose Hawaiian or Other Pacific Islander either singly or in combination with White and chose Not Hispanic
HPINH18P:	$[\text{HPINH18}/\text{TOTAL18}] \times 100\%$
OTHERNH18:	All individuals 18 years of age or older who chose some other race either singly or in combination with White and chose Not Hispanic
OTHERNH18P:	$[\text{OTHERNH18}/\text{TOTAL18}] \times 100\%$
MLTMNNH18:	All individuals 18 years of age or older who chose two or more minority races and chose Not Hispanic (<i>See note above for MLTMNNH.</i>)
MLTMNNH18P:	$[\text{MLTMNNH18}/\text{TOTAL18}] \times 100\%$

APPENDIX C. Computation Illustration for Measures of Variation in Table IVa

For the demographic group $g = ASIANNH$ of CD-01 in Table IVa, we illustrate the computations for AVE_g , $\sqrt{V(1)_g}$, $RV(1)_g$, P_g , $\sqrt{V(2)_g}$, and $RV(2)_g$ which are all defined in Section VII of this report. The same details follow for all other demographic groups as well as all entries in Tables IVa; Va; VIa; VII.1.a; VII.2.a; and VII.3.a. From the 2010 Census (swapping), Table IV gives $P_{ASIANNH} = 17,705$. There are 25 *TDA* runs, and the details for the i^{th} run are given on row i of the table below for $i = 1, 2, \dots, 25$.

Run i	$P_{ASIANNH(i)}$	$(P_{ASIANNH(i)} - AVE_{ASIANNH})^2$	$(P_{ASIANNH(i)} - P_{ASIANNH})^2$
1.	17,862	$(17,862 - 17,743.56)^2 = 14,028.0336$	$(17,862 - 17,705)^2 = 24,649$
2.	17,750	$(17,750 - 17,743.56)^2 = 41.4736$	$(17,750 - 17,705)^2 = 2,025$
3.	17,660	$(17,660 - 17,743.56)^2 = 6,982.2736$	$(17,660 - 17,705)^2 = 2,025$
4.	17,664	$(17,664 - 17,743.56)^2 = 6,329.7936$	$(17,664 - 17,705)^2 = 1,681$
5.	17,819	$(17,819 - 17,743.56)^2 = 5,691.1936$	$(17,819 - 17,705)^2 = 12,996$
6.	17,668	$(17,668 - 17,743.56)^2 = 5,709.3136$	$(17,668 - 17,705)^2 = 1,369$
7.	17,808	$(17,808 - 17,743.56)^2 = 4,152.5136$	$(17,808 - 17,705)^2 = 10,609$
8.	17,722	$(17,722 - 17,743.56)^2 = 464.8336$	$(17,722 - 17,705)^2 = 289$
9.	17,567	$(17,567 - 17,743.56)^2 = 31,173.4336$	$(17,567 - 17,705)^2 = 19,044$
10.	17,708	$(17,708 - 17,743.56)^2 = 1,264.5136$	$(17,708 - 17,705)^2 = 9$
11.	17,582	$(17,582 - 17,743.56)^2 = 26,101.6336$	$(17,582 - 17,705)^2 = 15,129$
12.	17,665	$(17,665 - 17,743.56)^2 = 6,171.6736$	$(17,665 - 17,705)^2 = 1,600$
13.	17,814	$(17,814 - 17,743.56)^2 = 4,961.7936$	$(17,814 - 17,705)^2 = 11,881$
14.	17,688	$(17,688 - 17,743.56)^2 = 3,086.9136$	$(17,688 - 17,705)^2 = 289$
15.	17,863	$(17,863 - 17,743.56)^2 = 14,265.9136$	$(17,863 - 17,705)^2 = 24,964$
16.	17,799	$(17,799 - 17,743.56)^2 = 3,073.5936$	$(17,799 - 17,705)^2 = 8,836$
17.	17,722	$(17,722 - 17,743.56)^2 = 464.8336$	$(17,722 - 17,705)^2 = 289$
18.	17,799	$(17,799 - 17,743.56)^2 = 3,073.5936$	$(17,799 - 17,705)^2 = 8,836$
19.	17,546	$(17,546 - 17,743.56)^2 = 39,029.9536$	$(17,546 - 17,705)^2 = 25,281$
20.	18,004	$(18,004 - 17,743.56)^2 = 67,828.9936$	$(18,004 - 17,705)^2 = 89,401$
21.	17,769	$(17,769 - 17,743.56)^2 = 647.1936$	$(17,769 - 17,705)^2 = 4,096$
22.	18,001	$(18,001 - 17,743.56)^2 = 66,275.3536$	$(18,001 - 17,705)^2 = 87,616$
23.	17,599	$(17,599 - 17,743.56)^2 = 20,897.5936$	$(17,599 - 17,705)^2 = 11,236$
24.	17,857	$(17,857 - 17,743.56)^2 = 12,868.6336$	$(17,857 - 17,705)^2 = 23,104$
25.	17,653	$(17,653 - 17,743.56)^2 = 8,201.1136$	$(17,653 - 17,705)^2 = 2,704$
<i>Totals</i>	443,589	352,786.1600	389,958

Thus we have (compare with corresponding entries of Table IVa):

$AVE_{ASIANNH} = \frac{443,589}{25} = 17,743.56 \approx \mathbf{17,744}$	$P_{ASIANNH} = \mathbf{17,705}$
$\sqrt{V(1)_{ASIANNH}} = \sqrt{\frac{352,786.1600}{25}} = 118.791 \approx \mathbf{119}$	$\sqrt{V(2)_{ASIANNH}} = \sqrt{\frac{389,958}{25}} = 124.893 \approx \mathbf{125}$
$RV(1)_{ASIANNH} = \frac{\sqrt{V(1)_{ASIANNH}}}{AVE_{ASIANNH}} = 0.00669 \approx \mathbf{0.007}$	$RV(2)_{ASIANNH} = \frac{\sqrt{V(2)_{ASIANNH}}}{AVE_{ASIANNH}} = 0.00705 \approx \mathbf{0.007}$

APPENDIX D. Seventeen Additional Cases Provided by DOJ

This APPENDIX gives the tables of counts and percentages and tables of variation for seventeen additional cases (POST-2010) provided by DOJ. The presentation follows the same spirit as given for three similar cases presented in Section VII.

State	Jurisdiction	2010 Census Population	Number of Districts	Tables
MS	Lafayette County	47,351	5	VII.4; VII.4.a
MS	Natchez (Adams County)	16,157	6	VII.5; VII.5.a
MS	Amite County	13,131	5	VII.6; VII.6.a
MS	Brookhaven (Lincoln County)	12,513	6	VII.7; VII.7.a
GA	Greene County Schools	15,994	4	VII.8; VII.8.a
GA	Greene County	15,994	4	VII.9; VII.9.a
GA	Long County School Districts	14,464	5	VII.10; VII.10.a
GA	Long County (Commissioners)	14,464	5	VII.11; VII.11.a
LA	Bossier Parish	116,979	12	VII.12; VII.12.a
LA	St. Landry Parish	83,384	13	VII.13; VII.13.a
LA	Jefferson Davis Parish	31,594	13	VII.14; VII.14.a
NC	New Bern (Craven County)	29,524	6	VII.15; VII.15.a
TX	Galveston County (Constables)	291,309	5	VII.16; VII.16.a
TX	Galveston County (Commissioners)	291,309	4	VII.17; VII.17.a
TX	Ector County	137,130	4	VII.18; VII.18.a
TX	McKinney Indp Schools (Collin County)	111,017	5	VII.19; VII.19.a
VA	Isle of Wight County	35,270	5	VII.20; VII.20.a

Table VII.4. Lafayette County, MS Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{47,351}{5} = 9,470.2 \quad TDA \text{ IDEAL POPULATION} = \frac{47,322}{5} = 9,464.4$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	L'vette	01	02	03	04	05	L'vette	01	02	03	04	05
TOTAL	47,351	9,326	9,307	9,349	9,732	9,637	47,322	9,210	9,323	9,395	9,719	9,675
DEV		-144.2	-163.2	-121.2	261.8	166.8		-254.4	-141.4	-69.4	254.6	210.6
DEVP		-1.52	-1.72	-1.28	2.76	1.76		-2.69	-1.49	-0.73	2.69	2.23
TOTAL18	38,591	7,885	7,353	7,059	7,875	8,419	38,572	7,844	7,301	7,144	7,872	8,411
TOTALHISP	1,073	271	281	146	184	191	1,006	179	218	221	142	246
TOTALHISP18P	2.27	2.91	3.02	1.56	1.89	1.98	2.13	1.94	2.34	2.35	1.46	2.54
TOTALNH	46,278	9,055	9,026	9,203	9,548	9,446	46,316	9,031	9,105	9,174	9,577	9,429
TOTALNHP	97.73	97.09	96.98	98.44	98.11	98.02	97.87	98.06	97.66	97.65	98.54	97.46
WHITENH	33,538	7,248	6,172	4,886	7,676	7,556	33,530	7,199	6,242	4,945	7,587	7,557
WHITENHP	70.83	77.72	66.32	52.26	78.87	78.41	70.85	78.17	66.95	52.63	78.06	78.11
BLACKNH	11,276	1,580	2,599	4,118	1,467	1,512	11,297	1,630	2,687	3,952	1,591	1,437
BLACKNHP	23.81	16.94	27.93	44.05	15.07	15.69	23.87	17.70	28.82	42.06	16.37	14.85
AIANNH	167	51	18	32	44	22	176	24	26	28	52	46
AIANNHP	0.35	0.55	0.19	0.34	0.45	0.23	0.37	0.26	0.28	0.30	0.54	0.48
ASIANNH	1,129	149	184	137	329	330	1,185	170	134	202	327	352
ASIANNHP	2.38	1.60	1.98	1.47	3.38	3.42	2.50	1.85	1.44	2.15	3.36	3.64
HPINH	27	8	6	3	7	3	27	1	3	6	5	12
HPINHP	0.06	0.09	0.06	0.03	0.07	0.03	0.06	0.01	0.03	0.06	0.05	0.12
OTHERNH	54	9	16	7	11	11	60	3	5	27	7	18
OTHERNHP	0.11	0.10	0.17	0.07	0.11	0.11	0.13	0.03	0.05	0.29	0.07	0.19
MLTMNH	87	10	31	20	14	12	41	4	8	14	8	7
MLTMNHP	0.18	0.11	0.33	0.21	0.14	0.12	0.09	0.04	0.09	0.15	0.08	0.07
HISP18	832	216	217	105	130	164	764	152	143	185	112	172
HISP18P	2.16	2.74	2.95	1.49	1.65	1.95	1.98	1.94	1.96	2.59	1.42	2.04
NONHISP18	37,759	7,669	7,136	6,954	7,745	8,255	37,808	7,692	7,158	6,959	7,760	8,239
NONHISP18P	97.84	97.26	97.05	98.51	98.35	98.05	98.02	98.06	98.04	97.41	98.58	97.96
WHITENH18	28,217	6,220	5,162	3,816	6,348	6,671	28,193	6,221	5,210	3,818	6,242	6,702
WHITENH18P	73.12	78.88	70.20	54.06	80.61	79.24	73.09	79.31	71.36	53.44	79.29	79.68
BLACKNH18	8,357	1,264	1,771	2,989	1,081	1,252	8,393	1,346	1,815	2,888	1,208	1,136
BLACKNH18P	21.66	16.03	24.09	42.34	13.73	14.87	21.76	17.16	24.86	40.43	15.35	13.51
AIANNH18	144	45	16	26	37	20	160	20	26	27	48	39
AIANNH18P	0.37	0.57	0.22	0.37	0.47	0.24	0.41	0.25	0.36	0.38	0.61	0.46
ASIANNH18	922	120	148	104	258	292	969	99	92	190	253	335
ASIANNH18P	2.39	1.52	2.01	1.47	3.28	3.47	2.51	1.26	1.26	2.66	3.21	3.98
HPINH18	17	4	4	2	4	3	14	1	3	2	0	8
HPINH18P	0.04	0.05	0.05	0.03	0.05	0.04	0.04	0.01	0.04	0.03	0.00	0.10
OTHERNH18	38	7	13	4	7	7	48	3	5	23	1	16
OTHERNH18P	0.10	0.09	0.18	0.06	0.09	0.08	0.12	0.04	0.07	0.32	0.01	0.19
MLTMNH18	64	9	22	13	10	10	31	2	7	11	8	3
MLTMNH18P	0.17	0.11	0.30	0.18	0.13	0.12	0.08	0.03	0.10	0.15	0.10	0.04

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.4:

- 1: Lafayette has WHITENHP = 70.83% and BLACKNHP = 23.81% for the 2010 Census; and WHITENHP = 70.85% and BLACKNHP = 23.87% for the *TDA* run. Similar results for 18+ population.
- 2: For all five of Lafayette's districts, WHITENHP > 50.00% for the 2010 Census and for the *TDA* run. Similar results for 18+ population.

Table VII.4.a. Counts & Measures of Variation for Lafayette County, MS Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Lafayette		01	01	02	02	03	03	04	04	05	05
TOTAL	47,258 36 0.001	47,351 100 0.002	9,305 95 0.010	9,326 98 0.010	9,217 119 0.013	9,307 149 0.016	9,479 141 0.015	9,349 192 0.021	9,682 107 0.011	9,732 118 0.012	9,574 76 0.008	9,637 99 0.010
TOTAL18	38,520 44 0.001	38,591 83 0.002	7,915 84 0.011	7,885 89 0.011	7,247 96 0.013	7,353 143 0.019	7,194 124 0.017	7,059 183 0.026	7,828 99 0.013	7,875 110 0.014	8,337 74 0.009	8,419 110 0.013
TOTALHISP	1,032 32 0.031	1,073 52 0.048	200 30 0.151	271 78 0.286	241 32 0.133	281 51 0.182	209 32 0.152	146 71 0.483	155 26 0.170	184 39 0.212	227 21 0.095	191 42 0.220
TOTALNH	46,226 46 0.001	46,278 70 0.002	9,106 93 0.010	9,055 106 0.012	8,976 120 0.013	9,026 130 0.014	9,270 141 0.015	9,203 156 0.017	9,527 107 0.011	9,548 109 0.011	9,347 70 0.007	9,446 121 0.013
WHITENH	33,547 24 0.001	33,538 25 0.001	7,247 83 0.011	7,248 83 0.011	6,181 89 0.014	6,172 89 0.014	5,076 104 0.020	4,886 217 0.044	7,570 88 0.012	7,676 138 0.018	7,473 83 0.011	7,556 118 0.016
BLACKNH	11,277 23 0.002	11,276 23 0.002	1,667 64 0.038	1,580 108 0.068	2,582 82 0.032	2,599 84 0.032	3,905 81 0.021	4,118 228 0.055	1,630 59 0.036	1,467 174 0.118	1,494 66 0.044	1,512 68 0.045
AIANNH	173 14 0.082	167 15 0.092	28 13 0.452	51 26 0.516	30 12 0.404	18 17 0.949	40 18 0.462	32 20 0.629	38 16 0.432	44 17 0.397	37 17 0.470	22 23 1.049
ASIANNH	1,103 30 0.027	1,129 40 0.035	139 27 0.196	149 29 0.195	151 26 0.176	184 43 0.232	225 33 0.146	137 94 0.684	269 33 0.123	329 69 0.209	320 28 0.088	330 30 0.090
HPINH	20 13 0.644	27 15 0.543	4 4 0.981	8 6 0.702	4 4 0.992	6 5 0.756	4 4 1.203	3 4 1.439	3 4 1.195	7 5 0.773	4 5 1.203	3 5 1.825
OTHERNH	45 13 0.300	54 16 0.301	7 6 0.943	9 7 0.756	12 9 0.710	16 9 0.590	9 7 0.789	7 7 1.031	7 5 0.685	11 6 0.569	10 8 0.747	11 8 0.694
MLTMNH	61 23 0.368	87 34 0.394	15 10 0.695	10 11 1.122	15 9 0.608	31 18 0.586	12 7 0.604	20 11 0.537	10 8 0.834	14 9 0.653	9 5 0.566	12 6 0.493
HISP18	790 24 0.030	832 48 0.058	162 27 0.167	216 60 0.279	181 28 0.157	217 46 0.212	153 31 0.206	105 57 0.543	108 22 0.203	130 31 0.238	186 21 0.111	164 30 0.186
NONHISP18	37,730 38 0.001	37,759 47 0.001	7,752 82 0.011	7,669 117 0.015	7,066 101 0.014	7,136 123 0.017	7,042 122 0.017	6,954 150 0.022	7,719 96 0.012	7,745 99 0.013	8,151 67 0.008	8,255 124 0.015
WHITENH18	28,218 18 0.001	28,217 18 0.001	6,264 77 0.012	6,220 89 0.014	5,142 72 0.014	5,162 75 0.014	3,945 80 0.020	3,816 152 0.040	6,272 75 0.012	6,348 106 0.017	6,594 76 0.012	6,671 108 0.016
BLACKNH18	8,365 14 0.002	8,357 16 0.002	1,330 66 0.049	1,264 93 0.074	1,755 62 0.035	1,771 64 0.036	2,874 79 0.028	2,989 139 0.047	1,182 57 0.048	1,081 116 0.107	1,224 63 0.051	1,252 69 0.055
AIANNH18	147 14 0.093	144 14 0.097	24 12 0.505	45 24 0.544	24 10 0.408	16 13 0.819	34 15 0.441	26 17 0.661	32 14 0.436	37 15 0.401	32 16 0.502	20 20 1.025
ASIANNH18	908 27 0.029	922 30 0.032	113 23 0.204	120 24 0.201	121 24 0.195	148 36 0.242	170 32 0.186	104 73 0.702	220 32 0.145	258 49 0.192	284 30 0.104	292 31 0.105
HPINH18	14 12 0.850	17 12 0.729	4 4 1.206	4 4 1.124	3 4 1.211	4 4 0.951	3 4 1.413	2 4 1.954	2 3 1.771	4 4 0.977	3 4 1.544	3 4 1.483
OTHERNH18	31 9 0.274	38 11 0.285	5 5 0.933	7 5 0.746	8 6 0.832	13 8 0.640	7 6 0.940	4 7 1.669	5 4 0.933	7 5 0.700	7 5 0.712	7 5 0.750
MLTMNH18	47 21 0.442	64 27 0.420	12 8 0.675	9 8 0.926	13 8 0.655	22 13 0.569	9 6 0.628	13 7 0.532	7 6 0.861	10 7 0.675	6 4 0.624	10 5 0.539
AVERV	0.159	0.152	0.363	0.381	0.332	0.345	0.366	0.557	0.397	0.315	0.346	0.432
MEDRV	0.030	0.042	0.181	0.240	0.166	0.222	0.169	0.534	0.158	0.211	0.100	0.146

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.5. Natchez (Adams County), MS Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{16,157}{6} = 2,692.8 \quad TDA \text{ IDEAL POPULATION} = \frac{16,139}{6} = 2,689.8$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan							Counts & Percentages Run A of the <i>TDA</i>						
	Natchez	01	02	03	04	05	06	Natchez	01	02	03	04	05	06
DIST-ID														
TOTAL	16,157	2,692	2,593	3,024	2,641	2,580	2,627	16,139	2,509	2,577	2,973	2,754	2,696	2,630
DEV		-0.8	-99.8	331.2	-51.8	-112.8	-65.8		-180.8	-112.8	283.2	64.2	6.2	-59.8
DEVP		-0.03	-3.71	12.30	-1.92	-4.19	-2.44		-6.72	-4.19	10.53	2.39	0.23	-2.22
TOTAL18	12,326	2,048	1,827	2,526	2,069	1,823	2,033	12,286	1,908	1,825	2,524	2,103	1,890	2,036
TOTALHISP	181	23	17	34	24	51	32	223	26	50	51	24	40	32
TOTALHISPP	1.12	0.85	0.66	1.12	0.91	1.98	1.22	1.38	1.04	1.94	1.72	0.87	1.48	1.22
TOTALNH	15,976	2,669	2,576	2,990	2,617	2,529	2,595	15,916	2,483	2,527	2,922	2,730	2,656	2,598
TOTALNHP	98.88	99.15	99.34	98.88	99.09	98.02	98.78	98.62	98.96	98.06	98.28	99.13	98.52	98.78
WHITENH	6,351	648	25	2,210	649	1,156	1,663	6,420	543	44	2,214	659	1,305	1,655
WHITENHP	39.31	24.07	0.96	73.08	24.57	44.81	63.30	39.78	21.64	1.71	74.47	23.93	48.41	62.93
BLACKNH	9,422	1,995	2,522	720	1,930	1,350	905	9,306	1,914	2,462	667	2,055	1,313	895
BLACKNHP	58.32	74.11	97.26	23.81	73.08	52.33	34.45	57.66	76.29	95.54	22.44	74.62	48.70	34.03
AIANNH	50	6	4	11	14	8	7	49	10	11	12	1	9	6
AIANNHP	0.31	0.22	0.15	0.36	0.53	0.31	0.27	0.30	0.40	0.43	0.40	0.04	0.33	0.23
ASIANNH	68	8	4	34	7	9	6	73	2	0	18	3	22	28
ASIANNHP	0.42	0.30	0.15	1.12	0.27	0.35	0.23	0.45	0.08	0.00	0.61	0.11	0.82	1.06
HPINH	5	0	0	2	2	1	0	3	0	0	1	0	2	0
HPINHP	0.03	0.00	0.00	0.07	0.08	0.04	0.00	0.02	0.00	0.00	0.03	0.00	0.07	0.00
OTHERNH	18	3	0	8	5	0	2	0	0	0	0	0	0	0
OTHERNHP	0.11	0.11	0.00	0.26	0.19	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNH	62	9	21	5	10	5	12	65	14	10	10	12	5	14
MLTMNHP	0.38	0.33	0.81	0.17	0.38	0.19	0.46	0.40	0.56	0.39	0.34	0.44	0.19	0.53
HISP18	110	16	11	16	18	28	21	180	21	43	51	24	27	14
HISP18P	0.89	0.78	0.60	0.63	0.87	1.54	1.03	1.47	1.10	2.36	2.02	1.14	1.43	0.69
NONHISP18	12,216	2,032	1,816	2,510	2,051	1,795	2,012	12,106	1,887	1,782	2,473	2,079	1,863	2,022
NONHISP18P	99.11	99.22	99.40	99.37	99.13	98.46	98.97	98.53	98.90	97.64	97.98	98.86	98.57	99.31
WHITENH18	5,416	579	17	1,914	579	938	1,389	5,413	479	36	1,915	562	1,054	1,367
WHITENH18P	43.94	28.27	0.93	75.77	27.98	51.45	68.32	44.06	25.10	1.97	75.87	26.72	55.77	67.14
BLACKNH18	6,651	1,435	1,780	550	1,446	839	601	6,539	1,390	1,727	523	1,509	782	608
BLACKNH18P	53.96	70.07	97.43	21.77	69.89	46.02	29.56	53.22	72.85	94.63	20.72	71.75	41.38	29.86
AIANNH18	32	6	3	7	5	6	5	41	8	11	12	1	3	6
AIANNH18P	0.26	0.29	0.16	0.28	0.24	0.33	0.25	0.33	0.42	0.60	0.48	0.05	0.16	0.29
ASIANNH18	57	5	3	29	7	7	6	71	2	0	18	1	22	28
ASIANNH18P	0.46	0.24	0.16	1.15	0.34	0.38	0.30	0.58	0.10	0.00	0.71	0.05	1.16	1.38
HPINH18	4	0	0	1	2	1	0	2	0	0	1	0	1	0
HPINH18P	0.03	0.00	0.00	0.04	0.10	0.05	0.00	0.02	0.00	0.00	0.04	0.00	0.05	0.00
OTHERNH18	15	1	0	8	4	0	2	0	0	0	0	0	0	0
OTHERNH18P	0.12	0.05	0.00	0.32	0.19	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MLTMNH18	41	6	13	1	8	4	9	40	8	8	4	6	1	13
MLTMNH18P	0.33	0.29	0.71	0.04	0.39	0.22	0.44	0.33	0.42	0.44	0.16	0.29	0.05	0.64

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.5:

- 1: Natchez has WHITENHP = 39.31% and BLACKNHP = 58.32% for the 2010 Census; and WHITENHP = 39.78% and BLACKNHP = 57.66% for the *TDA* run. Similar results for 18+ population.
- 2: District 02 has a BLACKNHP (also BLACKNH18P) percentage $\geq 90\%$ in both the 2010 Census and the *TDA* run.
- 3: For district 05, BLACKNHP = 52.33% for the 2010 Census, and BLACKNHP = 48.70% for the *TDA* run.

Table VII.5.a. Counts & Measures of Variation for Natchez (Adams County), MS Twenty-five Runs of the TDA
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

DIST-ID	(Measures of Variation)													
	Natchez		01	01	02	02	03	03	04	04	05	05	06	06
TOTAL	16,156	16,157	2,670	2,692	2,648	2,593	2,942	3,024	2,682	2,641	2,525	2,580	2,688	2,627
	84	84	77	80	37	67	59	101	62	74	64	84	62	87
	0.005	0.005	0.029	0.030	0.014	0.026	0.020	0.033	0.023	0.028	0.025	0.033	0.023	0.033
TOTAL18	12,353	12,326	2,042	2,048	1,858	1,827	2,483	2,526	2,094	2,069	1,806	1,823	2,070	2,033
	81	85	74	74	33	45	56	70	56	62	52	55	50	62
	0.007	0.007	0.036	0.036	0.017	0.025	0.023	0.028	0.027	0.030	0.029	0.030	0.024	0.031
TOTALHISP	240	181	34	23	32	17	48	34	47	24	38	51	42	32
	42	73	14	18	18	23	14	20	17	28	17	22	15	19
	0.176	0.403	0.407	0.768	0.553	1.355	0.295	0.590	0.372	1.184	0.458	0.428	0.365	0.579
TOTALNH	15,916	15,976	2,636	2,669	2,617	2,576	2,894	2,990	2,636	2,617	2,488	2,529	2,646	2,595
	94	111	78	85	45	61	55	111	58	61	64	76	56	76
	0.006	0.007	0.030	0.032	0.017	0.024	0.019	0.037	0.022	0.023	0.026	0.030	0.021	0.029
WHITENH	6,366	6,351	627	648	63	25	2,170	2,210	656	649	1,193	1,156	1,657	1,663
	58	60	53	57	16	41	49	63	51	51	58	69	41	41
	0.009	0.009	0.084	0.088	0.263	1.647	0.022	0.029	0.077	0.079	0.049	0.060	0.025	0.025
BLACKNH	9,359	9,422	1,982	1,995	2,525	2,522	689	720	1,944	1,930	1,266	1,350	953	905
	72	96	50	51	40	40	35	47	48	50	47	97	35	59
	0.008	0.010	0.025	0.026	0.016	0.016	0.051	0.065	0.025	0.026	0.037	0.071	0.037	0.065
AIANNH	60	50	9	6	10	4	8	11	13	14	11	8	9	7
	20	23	8	9	8	10	5	6	10	10	7	8	7	7
	0.336	0.452	0.897	1.419	0.867	2.572	0.676	0.563	0.778	0.750	0.637	0.978	0.794	1.013
ASIANNH	72	68	8	8	9	4	17	34	9	7	13	9	16	6
	18	19	6	6	8	9	8	19	8	8	7	9	13	16
	0.256	0.279	0.791	0.753	0.909	2.254	0.472	0.546	0.869	1.210	0.554	0.963	0.800	2.690
HPINH	4	5	0	0	0	0	1	2	1	2	0	1	1	0
	5	5	1	1	1	1	2	2	2	2	1	1	3	3
	1.435	1.053	1.827	Inf	3.162	Inf	2.264	1.086	1.834	0.964	3.464	1.058	2.726	Inf
OTHERNH	11	18	2	3	2	0	3	8	1	5	1	0	3	2
	11	13	3	3	3	3	3	6	2	4	2	2	4	4
	0.972	0.710	1.706	1.052	1.649	Inf	1.305	0.799	1.633	0.854	1.509	Inf	1.393	1.836
MLTMNH	45	62	8	9	8	21	6	5	11	10	3	5	8	12
	17	24	5	5	8	15	5	5	5	5	4	4	7	8
	0.378	0.389	0.648	0.581	0.956	0.713	0.775	0.982	0.483	0.530	1.056	0.791	0.860	0.668
HISP18	167	110	23	16	21	11	37	16	32	18	26	28	28	21
	32	65	12	14	13	16	14	25	13	20	13	13	13	15
	0.189	0.591	0.530	0.850	0.640	1.499	0.383	1.571	0.413	1.084	0.492	0.467	0.460	0.708
NONHISP18	12,186	12,216	2,019	2,032	1,838	1,816	2,447	2,510	2,062	2,051	1,780	1,795	2,042	2,012
	88	93	75	76	42	47	51	82	57	58	54	56	51	59
	0.007	0.008	0.037	0.037	0.023	0.026	0.021	0.033	0.028	0.028	0.030	0.031	0.025	0.029
WHITENH18	5,430	5,416	560	579	45	17	1,892	1,914	581	579	973	938	1,378	1,389
	50	52	49	53	14	31	45	50	48	48	51	62	41	42
	0.009	0.010	0.088	0.091	0.303	1.835	0.024	0.026	0.083	0.083	0.053	0.066	0.030	0.030
BLACKNH18	6,609	6,651	1,439	1,435	1,773	1,780	524	550	1,456	1,446	783	839	635	601
	64	77	44	44	34	35	23	35	41	42	36	67	26	43
	0.010	0.012	0.030	0.031	0.019	0.020	0.044	0.063	0.028	0.029	0.046	0.080	0.041	0.071
AIANNH18	41	32	6	6	6	3	6	7	8	5	8	6	7	5
	16	18	7	7	7	7	4	5	9	9	6	6	6	6
	0.382	0.563	1.157	1.149	1.167	2.423	0.730	0.650	1.036	1.847	0.727	0.992	0.809	1.193
ASIANNH18	64	57	7	5	6	3	17	29	8	7	13	7	14	6
	17	19	6	6	7	7	8	15	8	8	8	9	12	14
	0.269	0.329	0.842	1.209	1.047	2.468	0.481	0.510	1.049	1.207	0.600	1.344	0.871	2.414
HPINH18	1	4	0	0	0	0	0	1	0	2	0	1	0	0
	2	3	1	1	0	0	1	1	1	2	1	1	0	0
	1.497	0.832	2.579	Inf	4.899	Inf	1.732	0.917	2.579	0.933	3.824	1.039	NaN	NaN
OTHERNH18	9	15	1	1	2	0	2	8	1	4	1	0	2	2
	10	12	2	2	3	3	3	6	1	3	2	2	3	3
	1.079	0.768	1.705	2.200	1.697	Inf	1.317	0.803	1.317	0.866	1.665	Inf	1.614	1.712
MLTMNH18	31	41	5	6	6	13	5	1	7	8	2	4	5	9
	13	16	5	5	7	10	4	6	5	5	3	3	5	6
	0.414	0.397	0.893	0.815	1.154	0.756	0.849	5.727	0.615	0.570	1.271	0.837	0.924	0.683
AVERV	0.372	0.342	0.717	Inf	0.969	Inf	0.575	0.753	0.665	0.616	0.828	Inf	NaN	NaN
MEDRV	0.222	0.359	0.589	0.761	0.754	1.573	0.428	0.554	0.448	0.660	0.523	0.629	NA	NA

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.6. Amite County, MS Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{13,131}{5} = 2,626.2 \quad TDA \text{ IDEAL POPULATION} = \frac{13,142}{5} = 2,628.4$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	Amite	01	02	03	04	05	Amite	01	02	03	04	05
TOTAL	13,131	2,635	2,687	2,544	2,558	2,707	13,142	2,722	2,668	2,553	2,435	2,764
DEV		8.8	60.8	-82.2	-68.2	80.8		93.6	39.6	-75.4	-193.4	135.6
DEVP		0.34	2.32	-3.13	-2.60	3.08		3.56	1.51	-2.87	-7.36	5.16
TOTAL18	10,176	2,048	2,006	1,989	2,015	2,118	10,180	2,153	2,067	1,966	1,859	2,135
TOTALHISP	110	23	32	24	18	13	118	29	27	16	16	30
TOTALHISP18P	0.84	0.87	1.19	0.94	0.70	0.48	0.90	1.07	1.01	0.63	0.66	1.09
TOTALNH	13,021	2,612	2,655	2,520	2,540	2,694	13,024	2,693	2,641	2,537	2,419	2,734
TOTALNHP	99.16	99.13	98.81	99.06	99.30	99.52	99.10	98.93	98.99	99.37	99.34	98.91
WHITENH	7,516	2,038	1,113	1,324	1,853	1,188	7,532	2,101	1,111	1,279	1,720	1,321
WHITENHP	57.24	77.34	41.42	52.04	72.44	43.89	57.31	77.19	41.64	50.10	70.64	47.79
BLACKNH	5,414	546	1,522	1,181	670	1,495	5,409	576	1,513	1,242	679	1,399
BLACKNHP	41.23	20.72	56.64	46.42	26.19	55.23	41.16	21.16	56.71	48.65	27.89	50.62
AIANNH	42	21	3	6	8	4	44	16	6	1	13	8
AIANNHP	0.32	0.80	0.11	0.24	0.31	0.15	0.33	0.59	0.22	0.04	0.53	0.29
ASIANNH	16	2	0	4	8	2	7	0	1	2	4	0
ASIANNHP	0.12	0.08	0.00	0.16	0.31	0.07	0.05	0.00	0.04	0.08	0.16	0.00
HPINH	2	0	0	2	0	0	5	0	2	0	0	3
HPINHP	0.02	0.00	0.00	0.08	0.00	0.00	0.04	0.00	0.07	0.00	0.00	0.11
OTHERNH	4	0	2	0	0	2	8	0	0	6	0	2
OTHERNHP	0.03	0.00	0.07	0.00	0.00	0.07	0.06	0.00	0.00	0.24	0.00	0.07
MLTMNH	27	5	15	3	1	3	19	0	8	7	3	1
MLTMNHP	0.21	0.19	0.56	0.12	0.04	0.11	0.14	0.00	0.30	0.27	0.12	0.04
HISP18	70	11	22	19	8	10	61	22	10	11	6	12
HISP18P	0.69	0.54	1.10	0.96	0.40	0.47	0.60	1.02	0.48	0.56	0.32	0.56
NONHISP18	10,106	2,037	1,984	1,970	2,007	2,108	10,119	2,131	2,057	1,955	1,853	2,123
NONHISP18P	99.31	99.46	98.90	99.04	99.60	99.53	99.40	98.98	99.52	99.44	99.68	99.44
WHITENH18	6,004	1,625	833	1,098	1,490	958	6,019	1,694	864	1,078	1,340	1,043
WHITENH18P	59.00	79.35	41.53	55.20	73.95	45.23	59.13	78.68	41.80	54.83	72.08	48.85
BLACKNH18	4,032	391	1,136	859	505	1,141	4,048	423	1,182	867	500	1,076
BLACKNH18P	39.62	19.09	56.63	43.19	25.06	53.87	39.76	19.65	57.18	44.10	26.90	50.40
AIANNH18	34	14	3	6	7	4	36	14	6	1	13	2
AIANNH18P	0.33	0.68	0.15	0.30	0.35	0.19	0.35	0.65	0.29	0.05	0.70	0.09
ASIANNH18	10	2	0	2	4	2	3	0	1	2	0	0
ASIANNH18P	0.10	0.10	0.00	0.10	0.20	0.09	0.03	0.00	0.05	0.10	0.00	0.00
HPINH18	2	0	0	2	0	0	0	0	0	0	0	0
HPINH18P	0.02	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHERNH18	0	0	0	0	0	0	1	0	0	0	0	1
OTHERNH18P	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05
MLTMNH18	24	5	12	3	1	3	12	0	4	7	0	1
MLTMNH18P	0.24	0.24	0.60	0.15	0.05	0.14	0.12	0.00	0.19	0.36	0.00	0.05

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.6:

- 1: Amite has $WHITENHP = 57.24\%$ and $BLACKNHP = 41.23\%$ for the 2010 Census; and $WHITENHP = 57.31\%$ and $BLACKNHP = 41.16\%$ for the *TDA* run. Similar results for 18+ population.
- 2: Three of the five districts have $WHITENHP > 50.00\%$ for the 2010 Census and for the *TDA* run. Similar results for 18+ population.

Table VII.6.a. Counts & Measures of Variation for Amite County, MS Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Amite		01	01	02	02	03	03	04	04	05	05
TOTAL	13,167	13,131	2,670	2,635	2,618	2,687	2,585	2,544	2,541	2,558	2,753	2,707
	36	51	70	78	81	107	63	75	82	84	65	79
	0.003	0.004	0.026	0.030	0.031	0.040	0.024	0.030	0.032	0.033	0.024	0.029
TOTAL18	10,192	10,176	2,079	2,048	1,964	2,006	1,996	1,989	2,008	2,015	2,146	2,118
	33	37	72	79	62	75	54	55	69	69	56	63
	0.003	0.004	0.035	0.038	0.031	0.037	0.027	0.027	0.034	0.034	0.026	0.030
TOTALHISP	128	110	24	23	24	32	30	24	24	18	26	13
	33	38	13	13	11	14	13	14	14	15	9	15
	0.258	0.344	0.540	0.577	0.466	0.432	0.425	0.593	0.570	0.851	0.348	1.190
TOTALNH	13,039	13,021	2,646	2,612	2,595	2,655	2,555	2,520	2,516	2,540	2,727	2,694
	42	45	69	77	78	99	63	72	80	83	64	72
	0.003	0.003	0.026	0.029	0.030	0.037	0.025	0.029	0.032	0.033	0.023	0.027
WHITENH	7,516	7,516	2,042	2,038	1,139	1,113	1,279	1,324	1,781	1,853	1,275	1,188
	17	17	60	60	50	56	51	68	54	90	43	97
	0.002	0.002	0.029	0.030	0.044	0.050	0.040	0.051	0.030	0.049	0.034	0.082
BLACKNH	5,411	5,414	578	546	1,440	1,522	1,252	1,181	711	670	1,430	1,495
	29	29	38	50	62	103	40	82	43	60	46	80
	0.005	0.005	0.066	0.092	0.043	0.068	0.032	0.069	0.061	0.089	0.032	0.053
AIANNH	42	42	12	21	4	3	10	6	8	8	9	4
	14	14	7	12	4	4	7	8	6	6	8	9
	0.320	0.322	0.621	0.562	1.063	1.373	0.771	1.372	0.675	0.689	0.864	2.311
ASIANNH	29	16	7	2	6	0	5	4	7	8	5	2
	16	21	6	8	5	8	7	7	6	6	5	6
	0.549	1.288	0.851	3.863	0.886	Inf	1.599	1.812	0.845	0.722	1.078	3.142
HPINH	4	2	1	0	1	0	0	2	1	0	1	0
	5	5	1	1	2	2	1	2	2	2	3	4
	1.284	2.476	1.944	Inf	2.667	Inf	2.770	0.943	2.559	Inf	2.330	Inf
OTHERNH	9	4	2	0	1	2	3	0	1	0	2	2
	9	10	3	4	2	2	4	5	2	2	3	3
	1.097	2.624	1.785	Inf	2.014	1.072	1.260	Inf	2.253	Inf	1.747	1.476
MLTMNH	28	27	5	5	5	15	5	3	8	1	5	3
	17	17	5	5	5	11	7	7	8	10	5	5
	0.603	0.635	0.982	0.998	1.025	0.761	1.252	2.431	0.931	10.436	0.998	1.810
HISP18	79	70	14	11	15	22	19	19	14	8	16	10
	28	29	10	10	9	11	9	9	11	12	8	10
	0.350	0.415	0.686	0.946	0.567	0.498	0.494	0.486	0.756	1.544	0.480	1.019
NONHISP18	10,113	10,106	2,064	2,037	1,948	1,984	1,977	1,970	1,994	2,007	2,129	2,108
	34	34	71	76	60	70	51	51	68	70	57	61
	0.003	0.003	0.035	0.037	0.031	0.035	0.026	0.026	0.034	0.035	0.027	0.029
WHITENH18	6,007	6,004	1,639	1,625	846	833	1,057	1,098	1,454	1,490	1,011	958
	14	14	60	61	44	46	40	57	51	62	40	66
	0.002	0.002	0.036	0.038	0.052	0.055	0.037	0.052	0.035	0.042	0.040	0.069
BLACKNH18	4,031	4,032	408	391	1,092	1,136	903	859	524	505	1,103	1,141
	22	22	41	44	50	66	35	57	41	45	44	58
	0.005	0.005	0.100	0.113	0.046	0.058	0.039	0.066	0.078	0.089	0.040	0.051
AIANNH18	33	34	9	14	3	3	7	6	6	7	7	4
	9	9	6	8	4	4	7	7	5	5	7	7
	0.283	0.275	0.693	0.576	1.202	1.352	0.893	1.133	0.751	0.688	0.948	1.859
ASIANNH18	19	10	4	2	4	0	4	2	4	4	3	2
	12	15	5	6	5	6	6	6	3	3	5	5
	0.596	1.486	1.196	2.953	1.175	Inf	1.670	3.148	0.876	0.850	1.341	2.354
HPINH18	3	2	1	0	1	0	0	2	1	0	1	0
	4	4	1	1	2	2	1	2	2	2	3	3
	1.313	2.032	2.087	Inf	3.034	Inf	2.770	0.943	2.873	Inf	2.724	Inf
OTHERNH18	5	0	1	0	1	0	2	0	1	0	1	0
	7	9	3	3	1	2	4	4	1	2	1	2
	1.479	Inf	2.657	Inf	2.726	Inf	1.963	Inf	2.357	Inf	2.023	Inf
MLTMNH18	16	24	2	5	2	12	4	3	5	1	3	3
	10	13	4	5	3	11	6	6	5	6	4	4
	0.644	0.545	1.610	0.914	1.698	0.881	1.672	1.993	0.970	5.845	1.284	1.353
AVERV	0.440	Inf	0.800	Inf	0.942	Inf	0.890	Inf	0.838	Inf	0.821	Inf
MEDRV	0.302	0.333	0.654	0.576	0.727	0.630	0.632	0.768	0.713	0.706	0.672	1.272

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.7. Brookhaven (Lincoln County), MS Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{12,513}{6} = 2,085.5 \quad TDA \text{ IDEAL POPULATION} = \frac{12,506}{6} = 2,084.3$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan							Counts & Percentages Run A of the <i>TDA</i>						
	B'haven	01	02	03	04	05	06	B'haven	01	02	03	04	05	06
TOTAL	12,513	2,084	2,077	2,092	2,079	2,086	2,095	12,506	2,233	2,016	2,083	2,147	1,949	2,078
DEV		-1.5	-8.5	6.5	-6.5	0.5	9.5		148.7	-68.3	-1.3	62.7	-135.3	-6.3
DEVP		-0.07	-0.41	0.31	-0.31	0.02	0.46		7.13	-3.28	-0.06	3.01	-6.49	-0.30
TOTAL18	9,214	1,466	1,474	1,541	1,574	1,662	1,497	9,242	1,610	1,464	1,609	1,541	1,511	1,507
TOTALHISP	118	13	6	23	14	34	28	144	20	11	27	35	20	31
TOTALHISPP	0.94	0.62	0.29	1.10	0.67	1.63	1.34	1.15	0.90	0.55	1.30	1.63	1.03	1.49
TOTALNH	12,395	2,071	2,071	2,069	2,065	2,052	2,067	12,362	2,213	2,005	2,056	2,112	1,929	2,047
TOTALNHP	99.06	99.38	99.71	98.90	99.33	98.37	98.66	98.85	99.10	99.45	98.70	98.37	98.97	98.51
WHITENH	5,421	214	443	509	1,981	1,309	965	5,438	342	473	389	1,923	1,334	977
WHITENHP	43.32	10.27	21.33	24.33	95.29	62.75	46.06	43.48	15.32	23.46	18.67	89.57	68.45	47.02
BLACKNH	6,798	1,839	1,603	1,535	50	698	1,073	6,761	1,857	1,492	1,626	152	583	1,051
BLACKNHP	54.33	88.24	77.18	73.37	2.41	33.46	51.22	54.06	83.16	74.01	78.06	7.08	29.91	50.58
AIANNH	15	2	1	1	1	5	5	17	10	1	0	0	3	3
AIANNHP	0.12	0.10	0.05	0.05	0.05	0.24	0.24	0.14	0.45	0.05	0.00	0.00	0.15	0.14
ASIANNH	97	11	17	3	21	35	10	88	1	21	13	34	4	15
ASIANNHP	0.78	0.53	0.82	0.14	1.01	1.68	0.48	0.70	0.04	1.04	0.62	1.58	0.21	0.72
HPINH	1	0	0	1	0	0	0	4	0	1	1	0	2	0
HPINHP	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.03	0.00	0.05	0.05	0.00	0.10	0.00
OTHERNH	10	0	0	2	6	0	2	17	0	15	1	0	0	1
OTHERNHP	0.08	0.00	0.00	0.10	0.29	0.00	0.10	0.14	0.00	0.74	0.05	0.00	0.00	0.05
MLTMNH	53	5	7	18	6	5	12	37	3	2	26	3	3	0
MLTMNHP	0.42	0.24	0.34	0.86	0.29	0.24	0.57	0.30	0.13	0.10	1.25	0.14	0.15	0.00
HISP18	82	7	5	17	11	22	20	107	20	5	20	28	8	26
HISP18P	0.89	0.48	0.34	1.10	0.70	1.32	1.34	1.16	1.24	0.34	1.24	1.82	0.53	1.73
NONHISP18	9,132	1,459	1,469	1,524	1,563	1,640	1,477	9,135	1,590	1,459	1,589	1,513	1,503	1,481
NONHISP18P	99.11	99.52	99.66	98.90	99.30	98.68	98.66	98.84	98.76	99.66	98.76	98.18	99.47	98.27
WHITENH18	4,300	178	377	380	1,507	1,103	755	4,325	296	407	324	1,435	1,081	782
WHITENH18P	46.67	12.14	25.58	24.66	95.74	66.37	50.43	46.80	18.39	27.80	20.14	93.12	71.54	51.89
BLACKNH18	4,725	1,274	1,074	1,133	35	502	707	4,701	1,285	1,028	1,240	46	417	685
BLACKNH18P	51.28	86.90	72.86	73.52	2.22	30.20	47.23	50.87	79.81	70.22	77.07	2.99	27.60	45.45
AIANNH18	10	1	1	1	1	4	2	13	8	0	0	0	2	3
AIANNH18P	0.11	0.07	0.07	0.06	0.06	0.24	0.13	0.14	0.50	0.00	0.00	0.00	0.13	0.20
ASIANNH18	67	4	13	1	11	30	8	60	1	9	11	29	0	10
ASIANNH18P	0.73	0.27	0.88	0.06	0.70	1.81	0.53	0.65	0.06	0.61	0.68	1.88	0.00	0.66
HPINH18	1	0	0	1	0	0	0	1	0	0	1	0	0	0
HPINH18P	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.00
OTHERNH18	7	0	0	1	6	0	0	17	0	15	1	0	0	1
OTHERNH18P	0.08	0.00	0.00	0.06	0.38	0.00	0.00	0.18	0.00	1.02	0.06	0.00	0.00	0.07
MLTMNH18	22	2	4	7	3	1	5	18	0	0	12	3	3	0
MLTMNH18P	0.24	0.14	0.27	0.45	0.19	0.06	0.33	0.19	0.00	0.00	0.75	0.19	0.20	0.00

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.7:

- 1: Brookhaven has WHITENHP = 43.32% and BLACKNHP = 54.33% for the 2010 Census; and WHITENHP = 43.48% and BLACKNHP = 54.06% for the *TDA* run. Similar results for 18+ population.
- 2: Four of the six districts have BLACKNHP > 50.00% for the 2010 Census and for the *TDA* run.
- 3: Three of the six districts have BLACKNH18P > 50.00% for the 2010 Census and for the *TDA* run.

Table VII.7.a. Counts & Measures of Variation for Brookhaven (Lincoln County), MS Twenty-five Runs of the TDA for Districts 01, 02, 03, 04, 05, 06 ($\epsilon = 4$)

DIST-ID	(Measures of Variation)													
	Brookhaven		01	01	02	02	03	03	04	04	05	05	06	06
TOTAL	12,513	12,513	2,125	2,084	2,035	2,077	2,095	2,092	2,133	2,079	2,014	2,086	2,112	2,095
	94	94	66	78	74	85	60	60	48	73	51	88	65	67
	0.008	0.008	0.031	0.037	0.036	0.041	0.029	0.029	0.023	0.035	0.025	0.042	0.031	0.032
TOTAL18	9,207	9,214	1,513	1,466	1,441	1,474	1,579	1,541	1,591	1,574	1,580	1,662	1,502	1,497
	81	81	60	76	53	62	55	67	33	37	44	93	60	61
	0.009	0.009	0.040	0.052	0.037	0.042	0.035	0.044	0.021	0.024	0.028	0.056	0.040	0.040
TOTALHISP	125	118	13	13	18	6	27	23	19	14	18	34	31	28
	22	23	8	8	10	15	12	12	10	11	9	19	15	15
	0.177	0.197	0.625	0.633	0.571	2.565	0.440	0.537	0.547	0.811	0.514	0.545	0.484	0.541
TOTALNH	12,388	12,395	2,112	2,071	2,017	2,071	2,068	2,069	2,114	2,065	1,996	2,052	2,081	2,067
	84	85	66	78	72	90	53	53	47	68	51	75	62	63
	0.007	0.007	0.031	0.038	0.035	0.043	0.026	0.026	0.022	0.033	0.025	0.037	0.030	0.031
WHITENH	5,512	5,421	329	214	430	443	470	509	1,950	1,981	1,362	1,309	971	965
	77	119	47	125	52	54	60	72	33	45	41	68	61	62
	0.014	0.022	0.144	0.582	0.122	0.122	0.128	0.141	0.017	0.023	0.030	0.052	0.063	0.064
BLACKNH	6,727	6,798	1,768	1,839	1,559	1,603	1,573	1,535	136	50	609	698	1,082	1,073
	54	89	55	89	43	62	46	60	30	91	32	94	45	46
	0.008	0.013	0.031	0.049	0.028	0.039	0.029	0.039	0.218	1.821	0.053	0.135	0.042	0.043
AIANNH	31	15	3	2	6	1	6	1	4	1	4	5	8	5
	12	20	4	4	5	7	6	8	6	7	4	4	7	7
	0.370	1.329	1.184	2.102	0.856	7.378	1.019	7.785	1.485	7.225	0.928	0.749	0.852	1.405
ASIANNH	88	97	9	11	16	17	11	3	20	21	15	35	16	10
	21	23	7	8	11	11	7	11	11	11	9	22	12	13
	0.236	0.234	0.825	0.695	0.649	0.622	0.618	3.625	0.523	0.509	0.622	0.636	0.727	1.326
HPINH	2	1	0	0	1	0	1	1	0	0	1	0	0	0
	3	3	0	0	1	1	2	2	0	0	1	1	0	0
	1.396	3.365	2.894	Inf	1.764	Inf	2.574	2.069	4.899	Inf	1.633	Inf	4.899	Inf
OTHERNH	5	10	0	0	1	0	1	2	1	6	1	0	1	2
	5	7	1	2	3	3	2	2	1	5	1	2	4	4
	0.897	0.668	3.674	Inf	2.948	Inf	1.874	1.086	1.591	0.896	1.494	Inf	2.626	1.863
MLTMNH	22	53	2	5	5	7	6	18	3	6	4	5	3	12
	14	34	2	4	4	5	5	14	4	5	4	4	4	10
	0.646	0.640	1.180	0.771	0.904	0.686	0.973	0.754	1.454	0.878	0.934	0.819	1.321	0.815
HISP18	80	82	8	7	11	5	18	17	12	11	12	22	18	20
	15	15	6	6	8	10	11	11	9	9	7	12	9	10
	0.182	0.179	0.766	0.908	0.710	2.017	0.629	0.672	0.762	0.839	0.590	0.558	0.517	0.480
NONHISP18	9,127	9,132	1,504	1,459	1,430	1,469	1,561	1,524	1,579	1,563	1,568	1,640	1,484	1,477
	73	73	58	74	51	64	50	62	31	35	43	84	59	59
	0.008	0.008	0.039	0.051	0.036	0.043	0.032	0.041	0.019	0.022	0.027	0.051	0.039	0.040
WHITENH18	4,337	4,300	249	178	368	377	376	380	1,482	1,507	1,110	1,103	752	755
	59	69	49	86	39	40	47	47	23	34	31	32	42	42
	0.014	0.016	0.196	0.485	0.105	0.105	0.124	0.123	0.015	0.023	0.028	0.029	0.055	0.055
BLACKNH18	4,694	4,725	1,245	1,274	1,044	1,074	1,172	1,133	78	35	444	502	712	707
	39	50	39	48	37	48	45	59	23	49	38	70	44	44
	0.008	0.011	0.031	0.038	0.035	0.045	0.038	0.052	0.294	1.404	0.087	0.139	0.062	0.062
AIANNH18	19	10	2	1	4	1	3	1	3	1	3	4	5	2
	8	13	3	3	4	5	4	4	4	5	3	3	5	6
	0.428	1.259	1.587	3.329	1.146	5.119	1.350	4.450	1.503	4.792	0.966	0.726	0.902	2.786
ASIANNH18	59	67	7	4	10	13	7	1	14	11	9	30	11	8
	15	17	6	6	6	7	5	7	8	9	6	22	9	10
	0.258	0.258	0.802	1.591	0.619	0.530	0.744	7.497	0.556	0.788	0.665	0.726	0.786	1.209
HPINH18	1	1	0	0	0	0	0	1	0	0	0	0	0	0
	2	2	0	0	1	1	0	1	0	0	1	1	0	0
	1.811	1.811	3.590	Inf	2.325	Inf	2.291	0.917	NaN	NaN	2.438	Inf	4.899	Inf
OTHERNH18	3	7	0	0	1	0	1	1	0	6	1	0	1	0
	5	6	0	0	3	3	1	1	1	6	1	1	3	3
	1.336	0.828	4.899	Inf	3.361	Inf	2.068	1.442	2.592	0.953	1.869	Inf	3.457	Inf
MLTMNH18	14	22	1	2	4	4	3	7	2	3	2	1	2	5
	10	13	2	2	4	4	3	5	2	3	3	3	4	5
	0.723	0.587	1.575	0.933	1.045	0.964	0.989	0.711	1.436	0.897	1.117	2.966	1.660	0.915
AVERV	0.427	0.572	1.207	Inf	0.867	Inf	0.801	1.602	NaN	NaN	0.704	Inf	1.175	Inf
MEDRV	0.209	0.216	0.784	0.733	0.634	0.654	0.624	0.692	NA	NA	0.606	0.597	0.622	0.678

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.8. Greene County Schools, GA Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{15,994}{4} = 3,998.5 \quad TDA \text{ IDEAL POPULATION} = \frac{16,066}{4} = 4,016.5$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	G. School	01	02	03	04	G. School	01	02	03	04
TOTAL	15,994	4,001	4,009	3,997	3,987	16,066	3,919	4,402	3,864	3,881
DEV		2.5	10.5	-1.5	-11.5		-97.5	385.5	-152.5	-135.5
DEVP		0.06	0.26	-0.04	-0.29		-2.43	9.60	-3.80	-3.37
TOTAL18	12,697	3,106	3,205	2,902	3,484	12,743	3,098	3,499	2,763	3,383
TOTALHISP	893	132	409	232	120	914	151	378	276	109
TOTALHISPP	5.58	3.30	10.20	5.80	3.01	5.69	3.85	8.59	7.14	2.81
TOTALNH	15,101	3,869	3,600	3,765	3,867	15,152	3,768	4,024	3,588	3,772
TOTALNHP	94.42	96.70	89.80	94.20	96.99	94.31	96.15	91.41	92.86	97.19
WHITENH	8,771	1,692	2,268	1,450	3,361	8,766	1,686	2,347	1,443	3,290
WHITENHP	54.84	42.29	56.57	36.28	84.30	54.56	43.02	53.32	37.34	84.77
BLACKNH	6,135	2,146	1,278	2,278	433	6,149	2,024	1,599	2,096	430
BLACKNHP	38.36	53.64	31.88	56.99	10.86	38.27	51.65	36.32	54.24	11.08
AIANNH	68	17	17	13	21	36	5	14	2	15
AIANNHP	0.43	0.42	0.42	0.33	0.53	0.22	0.13	0.32	0.05	0.39
ASIANNH	59	7	16	10	26	92	26	25	25	16
ASIANNHP	0.37	0.17	0.40	0.25	0.65	0.57	0.66	0.57	0.65	0.41
HPINH	12	0	9	2	1	11	1	4	0	6
HPINHP	0.08	0.00	0.22	0.05	0.03	0.07	0.03	0.09	0.00	0.15
OTHERNH	17	0	5	6	6	19	12	1	6	0
OTHERNHP	0.11	0.00	0.12	0.15	0.15	0.12	0.31	0.02	0.16	0.00
MLTMNH	39	7	7	6	19	79	14	34	16	15
MLTMNHP	0.24	0.17	0.17	0.15	0.48	0.49	0.36	0.77	0.41	0.39
HISP18	573	88	267	143	75	568	97	241	168	62
HISP18P	4.51	2.83	8.33	4.93	2.15	4.46	3.13	6.89	6.08	1.83
NONHISP18	12,124	3,018	2,938	2,759	3,409	12,175	3,001	3,258	2,595	3,321
NONHISP18P	95.49	97.17	91.67	95.07	97.85	95.54	96.87	93.11	93.92	98.17
WHITENH18	7,609	1,437	1,953	1,182	3,037	7,594	1,447	2,063	1,113	2,971
WHITENH18P	59.93	46.27	60.94	40.73	87.17	59.59	46.71	58.96	40.28	87.82
BLACKNH18	4,358	1,557	939	1,551	311	4,378	1,502	1,122	1,447	307
BLACKNH18P	34.32	50.13	29.30	53.45	8.93	34.36	48.48	32.07	52.37	9.07
AIANNH18	53	13	15	11	14	35	5	14	2	14
AIANNH18P	0.42	0.42	0.47	0.38	0.40	0.27	0.16	0.40	0.07	0.41
ASIANNH18	49	7	13	6	23	82	23	25	23	11
ASIANNH18P	0.39	0.23	0.41	0.21	0.66	0.64	0.74	0.71	0.83	0.33
HPINH18	10	0	8	1	1	11	1	4	0	6
HPINH18P	0.08	0.00	0.25	0.03	0.03	0.09	0.03	0.11	0.00	0.18
OTHERNH18	12	0	3	3	6	17	10	1	6	0
OTHERNH18P	0.09	0.00	0.09	0.10	0.17	0.13	0.32	0.03	0.22	0.00
MLTMNH18	33	4	7	5	17	58	13	29	4	12
MLTMNH18P	0.26	0.13	0.22	0.17	0.49	0.46	0.42	0.83	0.14	0.35

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.8:

- 1: Greene Schools has WHITENHP = 54.84% and BLACKNHP = 38.36% for the 2010 Census; and WHITENHP = 54.56% and BLACKNHP = 38.27% for the *TDA* run.
- 2: Two of the four districts have WHITENHP > 50.00% for the 2010 Census and for the *TDA* run.

Table VII.8.a. Counts & Measures of Variation for Greene County School, GA Twenty-five Runs of the TDA for Districts 01, 02, 03, 04 ($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Greene School		01	01	02	02	03	03	04	04
TOTAL	16,063	15,994	3,926	4,001	4,336	4,009	3,910	3,997	3,890	3,987
	46	83	42	85	110	345	90	125	49	109
	0.003	0.005	0.011	0.021	0.025	0.086	0.023	0.031	0.013	0.027
TOTAL18	12,730	12,697	3,072	3,106	3,384	3,205	2,862	2,902	3,412	3,484
	41	52	37	50	88	200	75	85	43	84
	0.003	0.004	0.012	0.016	0.026	0.062	0.026	0.029	0.013	0.024
TOTALHISP	928	893	137	132	402	409	255	232	134	120
	37	51	28	28	44	44	36	43	22	27
	0.040	0.057	0.202	0.213	0.109	0.108	0.142	0.186	0.166	0.221
TOTALNH	15,134	15,101	3,789	3,869	3,934	3,600	3,655	3,765	3,756	3,867
	38	51	35	87	99	348	82	137	48	121
	0.003	0.003	0.009	0.022	0.025	0.097	0.022	0.036	0.013	0.031
WHITENH	8,765	8,771	1,705	1,692	2,301	2,268	1,437	1,450	3,322	3,361
	19	20	44	46	69	77	54	55	47	61
	0.002	0.002	0.026	0.027	0.030	0.034	0.037	0.038	0.014	0.018
BLACKNH	6,138	6,135	2,030	2,146	1,555	1,278	2,166	2,278	387	433
	17	17	42	124	66	285	57	126	38	59
	0.003	0.003	0.021	0.058	0.043	0.223	0.026	0.055	0.097	0.137
AIANNH	56	68	14	17	21	17	11	13	10	21
	14	18	9	9	7	8	7	7	7	13
	0.248	0.271	0.634	0.555	0.332	0.453	0.644	0.569	0.664	0.614
ASIANNH	71	59	13	7	22	16	18	10	18	26
	18	22	9	11	11	13	8	11	10	12
	0.260	0.372	0.644	1.528	0.525	0.800	0.480	1.132	0.533	0.478
HPINH	13	12	4	0	4	9	3	2	2	1
	12	12	4	5	6	8	3	3	3	4
	0.905	0.998	1.103	Inf	1.450	0.879	1.290	1.732	1.362	3.622
OTHERNH	21	17	4	0	6	5	5	6	5	6
	17	17	6	8	5	6	7	7	5	5
	0.807	0.996	1.440	Inf	0.900	1.107	1.410	1.229	1.031	0.849
MLTMNH	71	39	19	7	26	7	15	6	11	19
	21	38	11	16	12	22	9	13	7	10
	0.303	0.981	0.560	2.253	0.459	3.162	0.636	2.155	0.622	0.548
HISP18	594	573	86	88	261	267	165	143	83	75
	33	39	24	24	31	31	34	40	16	18
	0.056	0.069	0.280	0.274	0.117	0.117	0.206	0.282	0.194	0.238
NONHISP18	12,136	12,124	2,986	3,018	3,123	2,938	2,697	2,759	3,329	3,409
	31	33	38	50	88	205	63	89	43	90
	0.003	0.003	0.013	0.016	0.028	0.070	0.023	0.032	0.013	0.027
WHITENH18	7,605	7,609	1,453	1,437	1,963	1,953	1,174	1,182	3,015	3,037
	14	15	32	36	68	69	50	50	36	42
	0.002	0.002	0.022	0.025	0.035	0.035	0.042	0.043	0.012	0.014
BLACKNH18	4,362	4,358	1,491	1,557	1,103	939	1,488	1,551	279	311
	14	14	28	71	49	171	42	75	25	41
	0.003	0.003	0.019	0.046	0.045	0.183	0.028	0.049	0.091	0.131
AIANNH18	42	53	11	13	15	15	8	11	8	14
	14	18	7	7	7	7	7	8	5	8
	0.326	0.332	0.630	0.547	0.450	0.463	0.875	0.690	0.643	0.569
ASIANNH18	53	49	11	7	15	13	11	6	16	23
	16	17	8	9	10	10	7	9	7	10
	0.304	0.337	0.732	1.266	0.665	0.788	0.634	1.497	0.428	0.435
HPINH18	10	10	3	0	3	8	2	1	2	1
	12	12	4	5	6	7	3	3	3	3
	1.233	1.208	1.488	Inf	1.785	0.933	1.749	3.481	1.556	3.412
OTHERNH18	13	12	3	0	4	3	3	3	3	6
	12	12	5	6	4	4	4	4	4	5
	0.917	1.031	1.545	Inf	1.035	1.387	1.544	1.403	1.251	0.821
MLTMNH18	51	33	14	4	19	7	11	5	7	17
	20	27	10	14	10	16	8	10	6	12
	0.392	0.822	0.703	3.591	0.523	2.238	0.749	2.028	0.826	0.682
AVERV	0.291	0.375	0.505	Inf	0.430	0.661	0.529	0.835	0.477	0.645
MEDRV	0.152	0.170	0.420	0.411	0.225	0.338	0.343	0.425	0.311	0.336

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.9. Greene County, GA Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{15,994}{4} = 3,998.5 \quad TDA \text{ IDEAL POPULATION} = \frac{16,066}{4} = 4,016.5$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan				Counts & Percentages Run A of the <i>TDA</i>					
	DIST-ID	County	01	02	03	04	County	01	02	03
TOTAL	15,994	4,001	4,009	3,997	3,987	16,066	3,919	4,402	3,864	3,881
DEV		2.5	10.5	-1.5	-11.5		-97.5	385.5	-152.5	-135.5
DEVP		0.06	0.26	-0.04	-0.29		-2.43	9.60	-3.80	-3.37
TOTAL18	12,697	3,106	3,205	2,902	3,484	12,743	3,098	3,499	2,763	3,383
TOTALHISP	893	132	409	232	120	914	151	378	276	109
TOTALHISPP	5.58	3.30	10.20	5.80	3.01	5.69	3.85	8.59	7.14	2.81
TOTALNH	15,101	3,869	3,600	3,765	3,867	15,152	3,768	4,024	3,588	3,772
TOTALNHP	94.42	96.70	89.80	94.20	96.99	94.31	96.15	91.41	92.86	97.19
WHITENH	8,771	1,692	2,268	1,450	3,361	8,766	1,686	2,347	1,443	3,290
WHITENHP	54.84	42.29	56.57	36.28	84.30	54.56	43.02	53.32	37.34	84.77
BLACKNH	6,135	2,146	1,278	2,278	433	6,149	2,024	1,599	2,096	430
BLACKNHP	38.36	53.64	31.88	56.99	10.86	38.27	51.65	36.32	54.24	11.08
AIANNH	68	17	17	13	21	36	5	14	2	15
AIANNHP	0.43	0.42	0.42	0.33	0.53	0.22	0.13	0.32	0.05	0.39
ASIANNH	59	7	16	10	26	92	26	25	25	16
ASIANNHP	0.37	0.17	0.40	0.25	0.65	0.57	0.66	0.57	0.65	0.41
HPINH	12	0	9	2	1	11	1	4	0	6
HPINHP	0.08	0.00	0.22	0.05	0.03	0.07	0.03	0.09	0.00	0.15
OTHERNH	17	0	5	6	6	19	12	1	6	0
OTHERNHP	0.11	0.00	0.12	0.15	0.15	0.12	0.31	0.02	0.16	0.00
MLTMNH	39	7	7	6	19	79	14	34	16	15
MLTMNHP	0.24	0.17	0.17	0.15	0.48	0.49	0.36	0.77	0.41	0.39
HISP18	573	88	267	143	75	568	97	241	168	62
HISP18P	4.51	2.83	8.33	4.93	2.15	4.46	3.13	6.89	6.08	1.83
NONHISP18	12,124	3,018	2,938	2,759	3,409	12,175	3,001	3,258	2,595	3,321
NONHISP18P	95.49	97.17	91.67	95.07	97.85	95.54	96.87	93.11	93.92	98.17
WHITENH18	7,609	1,437	1,953	1,182	3,037	7,594	1,447	2,063	1,113	2,971
WHITENH18P	59.93	46.27	60.94	40.73	87.17	59.59	46.71	58.96	40.28	87.82
BLACKNH18	4,358	1,557	939	1,551	311	4,378	1,502	1,122	1,447	307
BLACKNH18P	34.32	50.13	29.30	53.45	8.93	34.36	48.48	32.07	52.37	9.07
AIANNH18	53	13	15	11	14	35	5	14	2	14
AIANNH18P	0.42	0.42	0.47	0.38	0.40	0.27	0.16	0.40	0.07	0.41
ASIANNH18	49	7	13	6	23	82	23	25	23	11
ASIANNH18P	0.39	0.23	0.41	0.21	0.66	0.64	0.74	0.71	0.83	0.33
HPINH18	10	0	8	1	1	11	1	4	0	6
HPINH18P	0.08	0.00	0.25	0.03	0.03	0.09	0.03	0.11	0.00	0.18
OTHERNH18	12	0	3	3	6	17	10	1	6	0
OTHERNH18P	0.09	0.00	0.09	0.10	0.17	0.13	0.32	0.03	0.22	0.00
MLTMNH18	33	4	7	5	17	58	13	29	4	12
MLTMNH18P	0.26	0.13	0.22	0.17	0.49	0.46	0.42	0.83	0.14	0.35

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.9:

- 1: Greene has WHITENHP = 54.84% and BLACKNHP = 38.36% for the 2010 Census; and WHITENHP = 54.56% and BLACKNHP = 38.27% for the *TDA* run.
- 2: Two of the four districts have WHITENHP > 50.00% for the 2010 Census and for the *TDA* run.

Table VII.9.a. Counts & Measures of Variation for Greene County, GA Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Greene County		01	01	02	02	03	Dist 03	04	04
TOTAL	16,063 46 0.003	15,994 83 0.005	3,926 42 0.011	4,001 85 0.021	4,336 110 0.025	4,009 345 0.086	3,910 90 0.023	3,997 125 0.031	3,890 49 0.013	3,987 109 0.027
TOTAL18	12,730 41 0.003	12,697 52 0.004	3,072 37 0.012	3,106 50 0.016	3,384 88 0.026	3,205 200 0.062	2,862 75 0.026	2,902 85 0.029	3,412 43 0.013	3,484 84 0.024
TOTALHISP	928 37 0.040	893 51 0.057	137 28 0.202	132 28 0.213	402 44 0.109	409 44 0.108	255 36 0.142	232 43 0.186	134 22 0.166	120 27 0.221
TOTALNH	15,134 38 0.003	15,101 51 0.003	3,789 35 0.009	3,869 87 0.022	3,934 99 0.025	3,600 348 0.097	3,655 82 0.022	3,765 137 0.036	3,756 48 0.013	3,867 121 0.031
WHITENH	8,765 19 0.002	8,771 20 0.002	1,705 44 0.026	1,692 46 0.027	2,301 69 0.030	2,268 77 0.034	1,437 54 0.037	1,450 55 0.038	3,322 47 0.014	3,361 61 0.018
BLACKNH	6,138 17 0.003	6,135 17 0.003	2,030 42 0.021	2,146 124 0.058	1,555 66 0.043	1,278 285 0.223	2,166 57 0.026	2,278 126 0.055	387 38 0.097	433 59 0.137
AIANNH	56 14 0.248	68 18 0.271	14 9 0.634	17 9 0.555	21 7 0.332	17 8 0.453	11 7 0.644	13 7 0.569	10 7 0.664	21 13 0.614
ASIANNH	71 18 0.260	59 22 0.372	13 9 0.644	7 11 1.528	22 11 0.525	16 13 0.800	18 8 0.480	10 11 1.132	18 10 0.533	26 12 0.478
HPINH	13 12 0.905	12 12 0.998	4 4 1.103	0 5 Inf	4 6 1.450	9 8 0.879	3 3 1.290	2 3 1.732	2 3 1.362	1 4 3.622
OTHERNH	21 17 0.807	17 17 0.996	4 6 1.440	0 8 Inf	6 5 0.900	5 6 1.107	5 7 1.410	6 7 1.229	5 5 1.031	6 5 0.849
MLTMNH	71 21 0.303	39 38 0.981	19 11 0.560	7 16 2.253	26 12 0.459	7 22 3.162	15 9 0.636	6 13 2.155	11 7 0.622	19 10 0.548
HISP18	594 33 0.056	573 39 0.069	86 24 0.280	88 24 0.274	261 31 0.117	267 31 0.117	165 34 0.206	143 40 0.282	83 16 0.194	75 18 0.238
NONHISP18	12,136 31 0.003	12,124 33 0.003	2,986 38 0.013	3,018 50 0.016	3,123 88 0.028	2,938 205 0.070	2,697 63 0.023	2,759 89 0.032	3,329 43 0.013	3,409 90 0.027
WHITENH18	7,605 14 0.002	7,609 15 0.002	1,453 32 0.022	1,437 36 0.025	1,963 68 0.035	1,953 69 0.035	1,174 50 0.042	1,182 50 0.043	3,015 36 0.012	3,037 42 0.014
BLACKNH18	4,362 14 0.003	4,358 14 0.003	1,491 28 0.019	1,557 71 0.046	1,103 49 0.045	939 171 0.183	1,488 42 0.028	1,551 75 0.049	279 25 0.091	311 41 0.131
AIANNH18	42 14 0.326	53 18 0.332	11 7 0.630	13 7 0.547	15 7 0.450	15 7 0.463	8 7 0.875	11 8 0.690	8 5 0.643	14 8 0.569
ASIANNH18	53 16 0.304	49 17 0.337	11 8 0.732	7 9 1.266	15 10 0.665	13 10 0.788	11 7 0.634	6 9 1.497	16 7 0.428	23 10 0.435
HPINH18	10 12 1.233	10 12 1.208	3 4 1.488	0 5 Inf	3 6 1.785	8 7 0.933	2 3 1.749	1 3 3.481	2 3 1.556	1 3 3.412
OTHERNH18	13 12 0.917	12 12 1.031	3 5 1.545	0 6 Inf	4 4 1.035	3 4 1.387	3 4 1.544	3 4 1.403	3 4 1.251	6 5 0.821
MLTMNH18	51 20 0.392	33 27 0.822	14 10 0.703	4 14 3.591	19 10 0.523	7 16 2.238	11 8 0.749	5 10 2.028	7 6 0.826	17 12 0.682
AVERV	0.291	0.375	0.505	Inf	0.430	0.661	0.529	0.835	0.477	0.645
MEDRV	0.152	0.170	0.420	0.411	0.225	0.338	0.343	0.425	0.311	0.336

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.10. Long County School Districts, GA Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{14,464}{5} = 2,892.8 \quad TDA \text{ IDEAL POPULATION} = \frac{14,421}{5} = 2,884.2$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	L. School	01	02	03	04	05	L. School	01	02	03	04	05
TOTAL	14,464	2,922	2,956	2,879	2,901	2,806	14,421	2,826	3,117	2,707	3,017	2,754
DEV		29.2	63.2	-13.8	8.2	-86.8		-58.2	232.8	-177.2	132.8	-130.2
DEVP		1.01	2.18	-0.48	0.28	-3.00		-2.02	8.07	-6.14	4.60	-4.51
TOTAL18	10,045	1,991	2,067	1,963	2,021	2,003	10,016	1,930	2,093	2,003	2,065	1,925
TOTALHISP	1,778	1,092	170	233	182	101	1,831	920	342	179	280	110
TOTALHISP18	12.29	37.37	5.75	8.09	6.27	3.60	12.70	32.55	10.97	6.61	9.28	3.99
TOTALNH	12,686	1,830	2,786	2,646	2,719	2,705	12,590	1,906	2,775	2,528	2,737	2,644
TOTALNHP	87.71	62.63	94.25	91.91	93.73	96.40	87.30	67.45	89.03	93.39	90.72	96.01
WHITENH	8,491	1,289	2,109	1,336	1,986	1,771	8,484	1,297	2,145	1,391	1,981	1,670
WHITENHP	58.70	44.11	71.35	46.41	68.46	63.11	58.83	45.90	68.82	51.39	65.66	60.64
BLACKNH	3,687	515	544	1,203	575	850	3,666	537	537	1,056	608	928
BLACKNHP	25.49	17.62	18.40	41.79	19.82	30.29	25.42	19.00	17.23	39.01	20.15	33.70
AIANNH	140	14	50	18	27	31	133	27	60	12	23	11
AIANNHP	0.97	0.48	1.69	0.63	0.93	1.10	0.92	0.96	1.92	0.44	0.76	0.40
ASIANNH	186	7	45	40	83	11	216	32	27	56	91	10
ASIANNHP	1.29	0.24	1.52	1.39	2.86	0.39	1.50	1.13	0.87	2.07	3.02	0.36
HPINH	65	1	13	19	14	18	41	4	5	2	25	5
HPINHP	0.45	0.03	0.44	0.66	0.48	0.64	0.28	0.14	0.16	0.07	0.83	0.18
OTHERNH	34	3	8	10	6	7	8	0	0	3	3	2
OTHERNHP	0.24	0.10	0.27	0.35	0.21	0.25	0.06	0.00	0.00	0.11	0.10	0.07
MLTMNH	83	1	17	20	28	17	42	9	1	8	6	18
MLTMNHP	0.57	0.03	0.58	0.69	0.97	0.61	0.29	0.32	0.03	0.30	0.20	0.65
HISP18	1,031	642	95	131	105	58	1,036	527	172	117	164	56
HISP18P	10.26	32.25	4.60	6.67	5.20	2.90	10.34	27.31	8.22	5.84	7.94	2.91
NONHISP18	9,014	1,349	1,972	1,832	1,916	1,945	8,980	1,403	1,921	1,886	1,901	1,869
NONHISP18P	89.74	67.75	95.40	93.33	94.80	97.10	89.66	72.69	91.78	94.16	92.06	97.09
WHITENH18	6,249	972	1,541	979	1,456	1,301	6,226	999	1,523	1,129	1,395	1,180
WHITENH18P	62.21	48.82	74.55	49.87	72.04	64.95	62.16	51.76	72.77	56.37	67.55	61.30
BLACKNH18	2,483	359	358	795	373	598	2,481	373	357	709	379	663
BLACKNH18P	24.72	18.03	17.32	40.50	18.46	29.86	24.77	19.33	17.06	35.40	18.35	34.44
AIANNH18	85	10	27	10	17	21	94	17	31	12	23	11
AIANNH18P	0.85	0.50	1.31	0.51	0.84	1.05	0.94	0.88	1.48	0.60	1.11	0.57
ASIANNH18	114	5	25	22	52	10	126	9	5	31	75	6
ASIANNH18P	1.13	0.25	1.21	1.12	2.57	0.50	1.26	0.47	0.24	1.55	3.63	0.31
HPINH18	35	1	9	12	5	8	41	4	5	2	25	5
HPINH18P	0.35	0.05	0.44	0.61	0.25	0.40	0.41	0.21	0.24	0.10	1.21	0.26
OTHERNH18	13	1	3	5	3	1	8	0	0	3	3	2
OTHERNH18P	0.13	0.05	0.15	0.25	0.15	0.05	0.08	0.00	0.00	0.15	0.15	0.10
MLTMNH18	35	1	9	9	10	6	4	1	0	0	1	2
MLTMNH18P	0.35	0.05	0.44	0.46	0.49	0.30	0.04	0.05	0.00	0.00	0.05	0.10

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.10:

- 1: Long Schools has TOTALHISP18P = 12.29%, WHITENHP = 58.70%, and BLACKNHP = 25.49% for the 2010 Census; and TOTALHISP18P = 12.70%, WHITENHP = 58.83%, and BLACKNHP = 25.42% for the *TDA* run.
- 2: In district 01, TOTALHISP18P = 37.37% for the 2010 Census; and TOTALHISP18P = 32.55% for the *TDA* run.
- 3: For three of the five districts, WHITENHP > 50.00% for the 2010 Census; and for four districts for the *TDA* run.
- 4: For all of the districts, BLACKNHP < 50.00% (also for BLACKNH18P) for the 2010 Census and for the *TDA* run.

Table VII.10.a. Counts & Measures of Variation for Long County School Districts, GA Twenty-five Runs of the TDA
for Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Long School		01	01	02	02	03	03	04	04	05	05
TOTAL	14,464	14,464	2,782	2,922	3,164	2,956	2,749	2,879	2,945	2,901	2,824	2,806
	36	36	59	152	77	222	83	154	94	104	52	55
	0.003	0.003	0.021	0.052	0.024	0.075	0.030	0.054	0.032	0.036	0.018	0.020
TOTAL18	10,055	10,045	1,903	1,991	2,175	2,067	1,931	1,963	2,049	2,021	1,997	2,003
	46	47	50	101	76	132	73	80	70	76	38	39
	0.005	0.005	0.026	0.051	0.035	0.064	0.038	0.041	0.034	0.037	0.019	0.019
TOTALHISP	1,767	1,778	929	1,092	330	170	184	233	218	182	106	101
	51	52	43	169	42	165	35	61	33	50	28	29
	0.029	0.029	0.047	0.155	0.127	0.970	0.192	0.260	0.153	0.272	0.264	0.283
TOTALNH	12,697	12,686	1,853	1,830	2,835	2,786	2,565	2,646	2,727	2,719	2,717	2,705
	49	50	49	54	61	78	78	112	78	78	54	55
	0.004	0.004	0.026	0.029	0.021	0.028	0.030	0.042	0.029	0.029	0.020	0.020
WHITENH	8,474	8,491	1,293	1,289	2,104	2,109	1,361	1,336	1,956	1,986	1,761	1,771
	15	23	32	32	44	45	69	73	70	76	40	41
	0.002	0.003	0.024	0.025	0.021	0.021	0.051	0.055	0.036	0.038	0.023	0.023
BLACKNH	3,718	3,687	503	515	604	544	1,092	1,203	628	575	892	850
	29	43	38	39	41	72	64	129	47	71	49	64
	0.008	0.012	0.075	0.077	0.068	0.133	0.059	0.107	0.076	0.123	0.055	0.076
AIANNH	147	140	18	14	48	50	27	18	30	27	25	31
	22	24	9	9	12	13	16	18	13	13	11	13
	0.152	0.168	0.487	0.659	0.260	0.252	0.579	1.004	0.422	0.475	0.451	0.412
ASIANNH	190	186	21	7	43	45	47	40	63	83	17	11
	22	22	11	17	16	16	19	20	20	29	9	11
	0.115	0.120	0.508	2.482	0.376	0.361	0.400	0.494	0.325	0.347	0.519	1.002
HPINH	48	65	5	1	11	13	9	19	17	14	6	18
	14	22	4	6	8	8	6	11	12	12	5	13
	0.302	0.344	0.967	5.667	0.724	0.622	0.635	0.598	0.675	0.873	0.849	0.723
OTHERNH	40	34	5	3	9	8	10	10	13	6	4	7
	22	23	5	6	7	7	10	10	11	12	4	5
	0.536	0.662	0.991	1.921	0.801	0.869	0.948	0.959	0.826	2.079	1.187	0.777
MLTMNH	79	83	9	1	17	17	20	20	21	28	13	17
	33	33	5	10	12	12	12	12	13	15	10	11
	0.412	0.396	0.599	9.646	0.717	0.724	0.623	0.617	0.612	0.522	0.785	0.636
HISP18	1,031	1,031	553	642	181	95	114	131	126	105	57	58
	35	35	31	94	38	94	30	35	25	33	18	18
	0.034	0.034	0.056	0.146	0.212	0.986	0.267	0.267	0.201	0.316	0.323	0.316
NONHISP18	9,024	9,014	1,350	1,349	1,994	1,972	1,817	1,832	1,923	1,916	1,940	1,945
	41	42	51	51	64	68	67	69	59	59	39	39
	0.005	0.005	0.038	0.038	0.032	0.034	0.037	0.037	0.031	0.031	0.020	0.020
WHITENH18	6,238	6,249	971	972	1,536	1,541	999	979	1,442	1,456	1,288	1,301
	12	16	36	36	46	47	71	74	56	58	44	46
	0.002	0.003	0.037	0.037	0.030	0.030	0.071	0.076	0.039	0.040	0.034	0.035
BLACKNH18	2,494	2,483	347	359	390	358	750	795	394	373	613	598
	19	21	30	32	32	45	47	65	35	41	44	47
	0.007	0.009	0.085	0.089	0.082	0.126	0.062	0.082	0.090	0.110	0.072	0.078
AIANNH18	91	85	10	10	27	27	18	10	19	17	17	21
	17	18	6	6	9	9	9	12	10	10	10	11
	0.190	0.214	0.632	0.647	0.338	0.338	0.513	1.172	0.544	0.612	0.596	0.520
ASIANNH18	119	114	12	5	23	25	28	22	43	52	13	10
	18	19	8	10	12	13	11	13	15	18	7	8
	0.152	0.163	0.660	2.003	0.543	0.504	0.395	0.572	0.358	0.345	0.543	0.810
HPINH18	29	35	3	1	7	9	6	12	11	5	3	8
	11	13	3	4	7	7	5	8	10	11	3	6
	0.394	0.369	1.319	3.784	1.022	0.822	0.869	0.664	0.891	2.278	1.341	0.804
OTHERNH18	18	13	3	1	4	3	4	5	5	3	1	1
	14	15	4	4	6	6	7	7	5	6	2	2
	0.804	1.175	1.418	4.020	1.269	1.919	1.543	1.386	0.971	1.906	1.501	1.685
MLTMNH18	36	35	4	1	7	9	12	9	9	10	4	6
	19	19	5	6	5	6	10	10	8	8	6	6
	0.529	0.547	1.098	5.909	0.827	0.664	0.802	1.121	0.874	0.782	1.327	0.989
AVERV	0.184	0.213	0.456	1.872	0.376	0.477	0.407	0.480	0.361	0.563	0.497	0.462
MEDRV	0.074	0.077	0.286	0.401	0.236	0.350	0.331	0.381	0.263	0.330	0.387	0.364

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.11. Long County Comm, GA Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{14,464}{5} = 2,892.8 \quad TDA \text{ IDEAL POPULATION} = \frac{14,421}{5} = 2,884.2$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	L. Comm	01	02	03	04	05	L. Comm	01	02	03	04	05
TOTAL	14,464	2,922	2,956	2,879	2,901	2,806	14,421	2,826	3,117	2,707	3,017	2,754
DEV		29.2	63.2	-13.8	8.2	-86.8		-58.2	232.8	-177.2	132.8	-130.2
DEVP		1.01	2.18	-0.48	0.28	-3.00		-2.02	8.07	-6.14	4.60	-4.51
TOTAL18	10,045	1,991	2,067	1,963	2,021	2,003	10,016	1,930	2,093	2,003	2,065	1,925
TOTALHISP	1,778	1,092	170	233	182	101	1,831	920	342	179	280	110
TOTALHISP18P	12.29	37.37	5.75	8.09	6.27	3.60	12.70	32.55	10.97	6.61	9.28	3.99
TOTALNH	12,686	1,830	2,786	2,646	2,719	2,705	12,590	1,906	2,775	2,528	2,737	2,644
TOTALNHP	87.71	62.63	94.25	91.91	93.73	96.40	87.30	67.45	89.03	93.39	90.72	96.01
WHITENH	8,491	1,289	2,109	1,336	1,986	1,771	8,484	1,297	2,145	1,391	1,981	1,670
WHITENHP	58.70	44.11	71.35	46.41	68.46	63.11	58.83	45.90	68.82	51.39	65.66	60.64
BLACKNH	3,687	515	544	1,203	575	850	3,666	537	537	1,056	608	928
BLACKNHP	25.49	17.62	18.40	41.79	19.82	30.29	25.42	19.00	17.23	39.01	20.15	33.70
AIANNH	140	14	50	18	27	31	133	27	60	12	23	11
AIANNHP	0.97	0.48	1.69	0.63	0.93	1.10	0.92	0.96	1.92	0.44	0.76	0.40
ASIANNH	186	7	45	40	83	11	216	32	27	56	91	10
ASIANNHP	1.29	0.24	1.52	1.39	2.86	0.39	1.50	1.13	0.87	2.07	3.02	0.36
HPINH	65	1	13	19	14	18	41	4	5	2	25	5
HPINHP	0.45	0.03	0.44	0.66	0.48	0.64	0.28	0.14	0.16	0.07	0.83	0.18
OTHERNH	34	3	8	10	6	7	8	0	0	3	3	2
OTHERNHP	0.24	0.10	0.27	0.35	0.21	0.25	0.06	0.00	0.00	0.11	0.10	0.07
MLTMNH	83	1	17	20	28	17	42	9	1	8	6	18
MLTMNHP	0.57	0.03	0.58	0.69	0.97	0.61	0.29	0.32	0.03	0.30	0.20	0.65
HISP18	1,031	642	95	131	105	58	1,036	527	172	117	164	56
HISP18P	10.26	32.25	4.60	6.67	5.20	2.90	10.34	27.31	8.22	5.84	7.94	2.91
NONHISP18	9,014	1,349	1,972	1,832	1,916	1,945	8,980	1,403	1,921	1,886	1,901	1,869
NONHISP18P	89.74	67.75	95.40	93.33	94.80	97.10	89.66	72.69	91.78	94.16	92.06	97.09
WHITENH18	6,249	972	1,541	979	1,456	1,301	6,226	999	1,523	1,129	1,395	1,180
WHITENH18P	62.21	48.82	74.55	49.87	72.04	64.95	62.16	51.76	72.77	56.37	67.55	61.30
BLACKNH18	2,483	359	358	795	373	598	2,481	373	357	709	379	663
BLACKNH18P	24.72	18.03	17.32	40.50	18.46	29.86	24.77	19.33	17.06	35.40	18.35	34.44
AIANNH18	85	10	27	10	17	21	94	17	31	12	23	11
AIANNH18P	0.85	0.50	1.31	0.51	0.84	1.05	0.94	0.88	1.48	0.60	1.11	0.57
ASIANNH18	114	5	25	22	52	10	126	9	5	31	75	6
ASIANNH18P	1.13	0.25	1.21	1.12	2.57	0.50	1.26	0.47	0.24	1.55	3.63	0.31
HPINH18	35	1	9	12	5	8	41	4	5	2	25	5
HPINH18P	0.35	0.05	0.44	0.61	0.25	0.40	0.41	0.21	0.24	0.10	1.21	0.26
OTHERNH18	13	1	3	5	3	1	8	0	0	3	3	2
OTHERNH18P	0.13	0.05	0.15	0.25	0.15	0.05	0.08	0.00	0.00	0.15	0.15	0.10
MLTMNH18	35	1	9	9	10	6	4	1	0	0	1	2
MLTMNH18P	0.35	0.05	0.44	0.46	0.49	0.30	0.04	0.05	0.00	0.00	0.05	0.10

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.11:

- 1: Long (Comm) has TOTALHISP18P = 12.29%, WHITENHP = 58.70%, and BLACKNHP = 25.49% for the 2010 Census; and TOTALHISP18P = 12.70%, WHITENHP = 58.83%, and BLACKNHP = 25.42% for the *TDA* run.
- 2: In district 01, TOTALHISP18P = 37.37% for the 2010 Census; and TOTALHISP18P = 32.55% for the *TDA* run.
- 3: For three of the five districts, WHITENHP > 50.00% for the 2010 Census; and for four of the districts for the *TDA* run.
- 4: For all of the districts, BLACKNHP < 50.00% (also for BLACKNH18P) for the 2010 Census and for the *TDA* run.

Table VII.11.a. Counts & Measures of Variation for Long County Comm, GA Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Long Comm		01	01	02	02	03	03	04	04	05	05
TOTAL	14,464 36 0.003	14,464 36 0.003	2,782 59 0.021	2,922 152 0.052	3,164 77 0.024	2,956 222 0.075	2,749 83 0.030	2,879 154 0.054	2,945 94 0.032	2,901 104 0.036	2,824 52 0.018	2,806 55 0.020
TOTAL18	10,055 46 0.005	10,045 47 0.005	1,903 50 0.026	1,991 101 0.051	2,175 76 0.035	2,067 132 0.064	1,931 73 0.038	1,963 80 0.041	2,049 70 0.034	2,021 76 0.037	1,997 38 0.019	2,003 39 0.019
TOTALHISP	1,767 51 0.029	1,778 52 0.029	929 43 0.047	1,092 169 0.155	330 42 0.127	170 165 0.970	184 35 0.192	233 61 0.260	218 33 0.153	182 50 0.272	106 28 0.264	101 29 0.283
TOTALNH	12,697 49 0.004	12,686 50 0.004	1,853 49 0.026	1,830 54 0.029	2,835 61 0.021	2,786 78 0.028	2,565 78 0.030	2,646 112 0.042	2,727 78 0.029	2,719 78 0.029	2,717 54 0.020	2,705 55 0.020
WHITENH	8,474 15 0.002	8,491 23 0.003	1,293 32 0.024	1,289 32 0.025	2,104 44 0.021	2,109 45 0.021	1,361 69 0.051	1,336 73 0.055	1,956 70 0.036	1,986 76 0.038	1,761 40 0.023	1,771 41 0.023
BLACKNH	3,718 29 0.008	3,687 43 0.012	503 38 0.075	515 39 0.077	604 41 0.068	544 72 0.133	1,092 64 0.059	1,203 129 0.107	628 47 0.076	575 71 0.123	892 49 0.055	850 64 0.076
AIANNH	147 22 0.152	140 24 0.168	18 9 0.487	14 9 0.659	48 12 0.260	50 13 0.252	27 16 0.579	18 18 1.004	30 13 0.422	27 13 0.475	25 11 0.451	31 13 0.412
ASIANNH	190 22 0.115	186 22 0.120	21 11 0.508	7 17 2.482	43 16 0.376	45 16 0.361	47 19 0.400	40 20 0.494	63 20 0.325	83 29 0.347	17 9 0.519	11 11 1.002
HPINH	48 14 0.302	65 22 0.344	5 4 0.967	1 6 5.667	11 8 0.724	13 8 0.622	9 6 0.635	19 11 0.598	17 12 0.675	14 12 0.873	6 5 0.849	18 13 0.723
OTHERNH	40 22 0.536	34 23 0.662	5 5 0.991	3 6 1.921	9 7 0.801	8 7 0.869	10 10 0.948	10 10 0.959	13 11 0.826	6 12 2.079	4 4 1.187	7 5 0.777
MLTMNH	79 33 0.412	83 33 0.396	9 5 0.599	1 10 9.646	17 12 0.717	17 12 0.724	20 12 0.623	20 12 0.617	21 13 0.612	28 15 0.522	13 10 0.785	17 11 0.636
HISP18	1,031 35 0.034	1,031 35 0.034	553 31 0.056	642 94 0.146	181 38 0.212	95 94 0.986	114 30 0.267	131 35 0.267	126 25 0.201	105 33 0.316	57 18 0.323	58 18 0.316
NONHISP18	9,024 41 0.005	9,014 42 0.005	1,350 51 0.038	1,349 51 0.038	1,994 64 0.032	1,972 68 0.034	1,817 67 0.037	1,832 69 0.037	1,923 59 0.031	1,916 59 0.031	1,940 39 0.020	1,945 39 0.020
WHITENH18	6,238 12 0.002	6,249 16 0.003	971 36 0.037	972 36 0.037	1,536 46 0.030	1,541 47 0.030	999 71 0.071	979 74 0.076	1,442 56 0.039	1,456 58 0.040	1,288 44 0.034	1,301 46 0.035
BLACKNH18	2,494 19 0.007	2,483 21 0.009	347 30 0.085	359 32 0.089	390 32 0.082	358 45 0.126	750 47 0.062	795 65 0.082	394 35 0.090	373 41 0.110	613 44 0.072	598 47 0.078
AIANNH18	91 17 0.190	85 18 0.214	10 6 0.632	10 6 0.647	27 9 0.338	27 9 0.338	18 9 0.513	10 12 1.172	19 10 0.544	17 10 0.612	17 10 0.596	21 11 0.520
ASIANNH18	119 18 0.152	114 19 0.163	12 8 0.660	5 10 2.003	23 12 0.543	25 13 0.504	28 11 0.395	22 13 0.572	43 15 0.358	52 18 0.345	13 7 0.543	10 8 0.810
HPINH18	29 11 0.394	35 13 0.369	3 3 1.319	1 4 3.784	7 7 1.022	9 7 0.822	6 5 0.869	12 8 0.664	11 10 0.891	5 11 2.278	3 3 1.341	8 6 0.804
OTHERNH18	18 14 0.804	13 15 1.175	3 4 1.418	1 4 4.020	4 6 1.269	3 6 1.919	4 7 1.543	5 7 1.386	5 5 0.971	3 6 1.906	1 2 1.501	1 2 1.685
MLTMNH18	36 19 0.529	35 19 0.547	4 5 1.098	1 6 5.909	7 5 0.827	9 6 0.664	12 10 0.802	9 10 1.121	9 8 0.874	10 8 0.782	4 6 1.327	6 6 0.989
AVERV	0.184	0.213	0.456	1.872	0.376	0.477	0.407	0.480	0.361	0.563	0.497	0.462
MEDRV	0.074	0.077	0.286	0.401	0.236	0.350	0.331	0.381	0.263	0.330	0.387	0.364

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.12 (Part 1). Bossier Parish, LA Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{116,979}{12} = 9,748.2 \quad TDA \text{ IDEAL POPULATION} = \frac{116,890}{12} = 9,740.8$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan							Counts & Percentages Run A of the <i>TDA</i>						
	Bossier	01	02	03	04	05	06	Bossier	01	02	03	04	05	06
TOTAL	116,979	10,020	9,488	10,081	9,943	9,653	10,009	116,890	10,198	9,453	10,082	9,995	9,592	9,987
DEV		271.8	-260.2	332.8	194.8	-95.2	260.8		457.2	-287.8	341.2	254.2	-148.8	246.2
DEVP		2.79	-2.67	3.41	2.00	-0.98	2.68		4.69	-2.95	3.50	2.61	-1.53	2.53
TOTAL18	86,945	7,460	6,964	7,642	7,629	6,776	7,754	86,931	7,583	6,920	7,627	7,632	6,723	7,726
TOTALHISP	7,026	243	432	339	198	353	374	6,935	323	409	289	261	358	376
TOTALHISPP	6.01	2.43	4.55	3.36	1.99	3.66	3.74	5.93	3.17	4.33	2.87	2.61	3.73	3.76
TOTALNH	109,953	9,777	9,056	9,742	9,745	9,300	9,635	109,955	9,875	9,044	9,793	9,734	9,234	9,611
TOTALNHP	93.99	97.57	95.45	96.64	98.01	96.34	96.26	94.07	96.83	95.67	97.13	97.39	96.27	96.24
WHITENH	80,991	7,802	7,948	8,144	6,621	7,476	8,214	80,994	7,835	7,919	8,134	6,692	7,451	8,175
WHITENHP	69.24	77.86	83.77	80.79	66.59	77.45	82.07	69.29	76.83	83.77	80.68	66.95	77.68	81.86
BLACKNH	24,866	1,745	894	1,396	2,966	1,523	1,037	24,896	1,785	894	1,428	2,845	1,603	1,003
BLACKNHP	21.26	17.42	9.42	13.85	29.83	15.78	10.36	21.30	17.50	9.46	14.16	28.46	16.71	10.04
AIANNH	962	103	86	117	83	67	53	977	86	92	72	97	54	71
AIANNHP	0.82	1.03	0.91	1.16	0.83	0.69	0.53	0.84	0.84	0.97	0.71	0.97	0.56	0.71
ASIANNH	2,322	85	92	68	29	180	281	2,286	119	115	133	47	99	317
ASIANNHP	1.98	0.85	0.97	0.67	0.29	1.86	2.81	1.96	1.17	1.22	1.32	0.47	1.03	3.17
HPINH	200	10	11	5	8	10	8	165	12	13	7	29	12	6
HPINHP	0.17	0.10	0.12	0.05	0.08	0.10	0.08	0.14	0.12	0.14	0.07	0.29	0.13	0.06
OTHERNH	165	8	16	7	15	10	14	233	17	0	10	9	3	21
OTHERNHP	0.14	0.08	0.17	0.07	0.15	0.10	0.14	0.20	0.17	0.00	0.10	0.09	0.03	0.21
MLTMNH	447	24	9	5	23	34	28	404	21	11	9	15	12	18
MLTMNHP	0.38	0.24	0.09	0.05	0.23	0.35	0.28	0.35	0.21	0.12	0.09	0.15	0.13	0.18
HISP18	4,505	133	266	223	136	213	226	4,497	174	260	198	170	238	205
HISP18P	5.18	1.78	3.82	2.92	1.78	3.14	2.91	5.17	2.29	3.76	2.60	2.23	3.54	2.65
NONHISP18	82,440	7,327	6,698	7,419	7,493	6,563	7,528	82,434	7,409	6,660	7,429	7,462	6,485	7,521
NONHISP18P	94.82	98.22	96.18	97.08	98.22	96.86	97.09	94.83	97.71	96.24	97.4	97.77	96.46	97.35
WHITENH18	62,468	5,873	5,922	6,232	5,141	5,428	6,476	62,470	5,912	5,879	6,236	5,198	5,404	6,449
WHITENH18P	71.85	78.73	85.04	81.55	67.39	80.11	83.52	71.86	77.96	84.96	81.76	68.11	80.38	83.47
BLACKNH18	17,048	1,293	626	1,032	2,239	934	778	17,060	1,315	641	1,045	2,152	955	769
BLACKNH18P	19.61	17.33	8.99	13.50	29.35	13.78	10.03	19.62	17.34	9.26	13.70	28.20	14.20	9.95
AIANNH18	718	75	63	92	59	46	40	724	65	78	40	66	46	57
AIANNH18P	0.83	1.01	0.90	1.20	0.77	0.68	0.52	0.83	0.86	1.13	0.52	0.86	0.68	0.74
ASIANNH18	1,715	61	67	53	22	123	208	1,686	84	48	101	25	64	229
ASIANNH18P	1.97	0.82	0.96	0.69	0.29	1.82	2.68	1.94	1.11	0.69	1.32	0.33	0.95	2.96
HPINH18	144	9	7	5	4	9	5	108	12	13	0	5	6	6
HPINH18P	0.17	0.12	0.10	0.07	0.05	0.13	0.06	0.12	0.16	0.19	0.00	0.07	0.09	0.08
OTHERNH18	90	3	8	3	10	4	10	128	10	0	0	1	1	6
OTHERNH18P	0.10	0.04	0.11	0.04	0.13	0.06	0.13	0.15	0.13	0.00	0.00	0.01	0.01	0.08
MLTMNH18	257	13	5	2	18	19	11	258	11	1	7	15	9	5
MLTMNH18P	0.30	0.17	0.07	0.03	0.24	0.28	0.14	0.30	0.15	0.01	0.09	0.20	0.13	0.06

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.12:

- 1: Bossier has WHITENHP = 69.24% and BLACKNHP = 21.26% for the 2010 Census; and WHITENHP = 69.29% and BLACKNHP = 21.30% for the *TDA* run.
- 2: For twelve of the twelve districts, BLACKNHP < 50.00% for the 2010 Census and for the *TDA* run.
- 3: For nine of the twelve districts, WHITENHP > 50.00% for the 2010 Census and for the *TDA* run.

Table VII.12 (Part 2). Bossier Parish, LA Run A of Twenty-five Runs of the *TDA*
for Districts 07, 08, 09, 10, 11, 12
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{116,979}{12} = 9,748.2 \quad TDA \text{ IDEAL POPULATION} = \frac{116,890}{12} = 9,740.8$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan							Counts & Percentages Run A of the <i>TDA</i>						
	Bossier	07	08	09	10	11	12	Bossier	07	08	09	10	11	12
TOTAL	116,979	9,254	9,261	9,283	9,633	10,118	10,236	116,890	9,328	9,233	9,349	9,656	9,996	10,021
DEV		-494.2	-487.2	-465.2	-115.2	369.8	487.8		-412.8	-507.8	-391.8	-84.8	255.2	280.2
DEVP		-5.07	-5.00	-4.77	-1.18	3.79	5.00		-4.24	-5.21	-4.02	-0.87	2.62	2.88
TOTAL18	86,945	6,586	6,678	7,138	6,913	7,777	7,628	86,931	6,654	6,720	7,217	6,988	7,676	7,465
TOTALHISP	7,026	1,059	637	827	1,379	629	556	6,935	904	630	884	1,378	594	529
TOTALHISPP	6.01	11.44	6.88	8.91	14.32	6.22	5.43	5.93	9.69	6.82	9.46	14.27	5.94	5.28
TOTALNH	109,953	8,195	8,624	8,456	8,254	9,489	9,680	109,955	8,424	8,603	8,465	8,278	9,402	9,492
TOTALNHP	93.99	88.56	93.12	91.09	85.68	93.78	94.57	94.07	90.31	93.18	90.54	85.73	94.06	94.72
WHITENH	80,991	3,626	6,976	4,431	4,705	7,195	7,853	80,994	3,703	6,993	4,413	4,719	7,217	7,743
WHITENHP	69.24	39.18	75.33	47.73	48.84	71.11	76.72	69.29	39.7	75.74	47.20	48.87	72.20	77.27
BLACKNH	24,866	4,256	1,306	3,599	3,059	1,720	1,365	24,896	4,318	1,323	3,629	3,011	1,726	1,331
BLACKNHP	21.26	45.99	14.10	38.77	31.76	17.00	13.34	21.30	46.29	14.33	38.82	31.18	17.27	13.28
AIANNH	962	38	93	76	82	95	69	977	77	89	94	74	69	102
AIANNHP	0.82	0.41	1.00	0.82	0.85	0.94	0.67	0.84	0.83	0.96	1.01	0.77	0.69	1.02
ASIANNH	2,322	197	181	233	298	373	305	2,286	187	151	236	288	333	261
ASIANNHP	1.98	2.13	1.95	2.51	3.09	3.69	2.98	1.96	2.00	1.64	2.52	2.98	3.33	2.60
HPINH	200	11	20	38	23	26	30	165	14	8	17	20	5	22
HPINHP	0.17	0.12	0.22	0.41	0.24	0.26	0.29	0.14	0.15	0.09	0.18	0.21	0.05	0.22
OTHERNH	165	15	11	15	23	18	13	233	63	24	30	44	5	7
OTHERNHP	0.14	0.16	0.12	0.16	0.24	0.18	0.13	0.20	0.68	0.26	0.32	0.46	0.05	0.07
MLTMNH	447	52	37	64	64	62	45	404	62	15	46	122	47	26
MLTMNHP	0.38	0.56	0.40	0.69	0.66	0.61	0.44	0.35	0.66	0.16	0.49	1.26	0.47	0.26
HISP18	4,505	701	384	547	868	426	382	4,497	609	368	595	928	388	364
HISP18P	5.18	10.64	5.75	7.66	12.56	5.48	5.01	5.17	9.15	5.48	8.24	13.28	5.05	4.88
NONHISP18	82,440	5,885	6,294	6,591	6,045	7,351	7,246	82,434	6,045	6,352	6,622	6,060	7,288	7,101
NONHISP18P	94.82	89.36	94.25	92.34	87.44	94.52	94.99	94.83	90.85	94.52	91.76	86.72	94.95	95.12
WHITENH18	62,468	2,982	5,193	3,819	3,685	5,758	5,959	62,470	3,046	5,201	3,798	3,682	5,766	5,899
WHITENH18P	71.85	45.28	77.76	53.5	53.31	74.04	78.12	71.86	45.78	77.40	52.63	52.69	75.12	79.02
BLACKNH18	17,048	2,682	875	2,455	2,019	1,168	947	17,060	2,708	931	2,500	1,978	1,178	888
BLACKNH18P	19.61	40.72	13.10	34.39	29.21	15.02	12.41	19.62	40.70	13.85	34.64	28.31	15.35	11.90
AIANNH18	718	32	70	61	65	66	49	724	63	55	75	62	45	72
AIANNH18P	0.83	0.49	1.05	0.85	0.94	0.85	0.64	0.83	0.95	0.82	1.04	0.89	0.59	0.96
ASIANNH18	1,715	147	120	186	210	295	223	1,686	166	129	179	186	270	205
ASIANNH18P	1.97	2.23	1.80	2.61	3.04	3.79	2.92	1.94	2.49	1.92	2.48	2.66	3.52	2.75
HPINH18	144	6	9	25	19	20	26	108	7	8	12	17	5	17
HPINH18P	0.17	0.09	0.13	0.35	0.27	0.26	0.34	0.12	0.11	0.12	0.17	0.24	0.07	0.23
OTHERNH18	90	7	6	8	13	9	9	128	38	21	16	27	1	7
OTHERNH18P	0.10	0.11	0.09	0.11	0.19	0.12	0.12	0.15	0.57	0.31	0.22	0.39	0.01	0.09
MLTMNH18	257	29	21	37	34	35	33	258	17	7	42	108	23	13
MLTMNH18P	0.30	0.44	0.31	0.52	0.49	0.45	0.43	0.30	0.26	0.10	0.58	1.55	0.30	0.17

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Table VII.12.a (Part 1). Counts & Measures of Variation for Bossier Parish, LA Twenty-five Runs of the TDA
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

DIST-ID	(Measures of Variation)													
	Bossier		01	01	02	02	03	03	04	04	05	05	06	06
TOTAL	116,850	116,979	10,013	10,020	9,475	9,488	10,068	10,081	10,031	9,943	9,674	9,653	9,926	10,009
	52	139	70	70	47	49	61	63	69	112	80	83	78	114
	0	0.001	0.007	0.007	0.005	0.005	0.006	0.006	0.007	0.011	0.008	0.009	0.008	0.011
TOTAL18	86,917	86,945	7,474	7,460	6,944	6,964	7,620	7,642	7,683	7,629	6,794	6,776	7,703	7,754
	46	54	64	66	55	59	57	61	69	87	71	73	58	77
	0.001	0.001	0.009	0.009	0.008	0.008	0.007	0.008	0.009	0.011	0.010	0.011	0.008	0.010
TOTALHISP	6,926	7,026	273	243	429	432	294	339	241	198	368	353	364	374
	62	118	30	43	35	35	43	62	31	53	37	40	38	39
	0.009	0.017	0.111	0.177	0.082	0.082	0.146	0.183	0.128	0.267	0.101	0.114	0.105	0.105
TOTALNH	109,924	109,953	9,740	9,777	9,046	9,056	9,774	9,742	9,790	9,745	9,305	9,300	9,562	9,635
	72	78	59	70	55	56	56	65	58	74	70	70	71	102
	0.001	0.001	0.006	0.007	0.006	0.006	0.006	0.007	0.006	0.008	0.007	0.008	0.007	0.011
WHITENH	80,991	80,991	7,790	7,802	7,931	7,948	8,137	8,144	6,666	6,621	7,523	7,476	8,192	8,214
	16	16	44	45	44	47	54	55	64	78	65	80	59	63
	0.000	0.000	0.006	0.006	0.006	0.006	0.007	0.007	0.010	0.012	0.009	0.011	0.007	0.008
BLACKNH	24,877	24,866	1,747	1,745	905	894	1,387	1,396	2,950	2,966	1,522	1,523	1,014	1,037
	21	24	32	32	39	41	45	46	46	49	50	50	39	45
	0.001	0.001	0.018	0.018	0.043	0.045	0.032	0.033	0.016	0.016	0.033	0.033	0.038	0.043
AIANNH	967	962	86	103	87	86	116	117	87	83	62	67	50	53
	19	20	25	30	21	21	17	17	18	19	15	16	20	20
	0.020	0.021	0.288	0.291	0.239	0.241	0.147	0.146	0.208	0.223	0.240	0.234	0.391	0.374
ASIANNH	2,321	2,322	83	85	94	92	103	68	49	29	167	180	266	281
	30	30	23	23	16	16	23	42	17	26	28	31	42	45
	0.013	0.013	0.281	0.275	0.173	0.178	0.219	0.617	0.345	0.898	0.170	0.173	0.159	0.160
HPINH	163	200	7	10	8	11	10	5	8	8	8	10	8	8
	18	42	5	6	6	6	6	8	7	7	6	6	8	8
	0.111	0.208	0.716	0.586	0.702	0.577	0.589	1.562	0.827	0.856	0.763	0.635	0.972	0.948
OTHERNH	167	165	9	8	11	16	8	7	10	15	6	10	11	14
	23	23	7	7	9	10	6	6	9	10	6	7	9	9
	0.139	0.141	0.830	0.905	0.819	0.651	0.789	0.876	0.857	0.668	0.970	0.716	0.764	0.652
MLTMNH	440	447	17	24	10	9	12	5	20	23	17	34	21	28
	58	58	9	11	6	6	8	11	13	13	8	18	11	13
	0.131	0.130	0.519	0.466	0.557	0.635	0.630	2.153	0.643	0.576	0.460	0.540	0.503	0.452
HISP18	4,464	4,505	155	133	257	266	184	223	155	136	227	213	221	226
	38	56	25	33	33	34	36	53	25	32	30	33	34	34
	0.008	0.012	0.159	0.249	0.129	0.129	0.195	0.237	0.160	0.233	0.133	0.155	0.153	0.152
NONHISP18	82,453	82,440	7,319	7,327	6,686	6,698	7,435	7,419	7,528	7,493	6,567	6,563	7,482	7,528
	49	51	58	59	49	51	42	45	63	72	73	73	60	75
	0.001	0.001	0.008	0.008	0.007	0.008	0.006	0.006	0.008	0.010	0.011	0.011	0.008	0.010
WHITENH18	62,474	62,468	5,866	5,873	5,907	5,922	6,228	6,232	5,184	5,141	5,453	5,428	6,473	6,476
	15	16	41	42	40	42	34	34	48	65	58	64	49	49
	0.000	0.000	0.007	0.007	0.007	0.007	0.005	0.005	0.009	0.013	0.011	0.012	0.008	0.008
BLACKNH18	17,053	17,048	1,309	1,293	634	626	1,027	1,032	2,226	2,239	934	934	757	778
	16	17	29	33	29	30	31	32	43	45	39	39	30	37
	0.001	0.001	0.022	0.025	0.045	0.048	0.031	0.031	0.019	0.020	0.042	0.042	0.040	0.047
AIANNH18	721	718	64	75	67	63	91	92	65	59	44	46	34	40
	14	14	22	24	18	18	18	18	17	18	9	9	12	13
	0.019	0.020	0.338	0.324	0.266	0.290	0.195	0.192	0.262	0.303	0.199	0.195	0.350	0.334
ASIANNH18	1,712	1,715	58	61	63	67	75	53	31	22	119	123	198	208
	20	21	17	17	13	14	22	31	13	16	24	24	32	33
	0.012	0.012	0.296	0.285	0.209	0.205	0.292	0.577	0.417	0.714	0.197	0.194	0.160	0.160
HPINH18	117	144	6	9	6	7	7	5	4	4	5	9	6	5
	17	31	5	6	5	5	6	6	4	5	4	6	6	6
	0.141	0.218	0.859	0.670	0.923	0.772	0.807	1.163	1.030	1.126	0.884	0.662	1.087	1.223
OTHERNH18	93	90	5	3	5	8	2	3	5	10	3	4	7	10
	15	16	5	5	6	7	4	4	5	7	4	4	7	7
	0.165	0.176	1.110	1.784	1.329	0.881	1.637	1.365	1.066	0.730	1.579	1.108	1.005	0.744
MLTMNH18	283	257	12	13	4	5	6	2	12	18	9	19	9	11
	43	50	8	8	4	4	5	7	9	11	5	11	6	6
	0.152	0.195	0.680	0.649	0.976	0.775	0.738	3.277	0.750	0.603	0.567	0.592	0.613	0.539
AVERV	0.046	0.058	0.313	0.337	0.327	0.277	0.324	0.623	0.339	0.365	0.320	0.273	0.319	0.300
MEDRV	0.010	0.013	0.220	0.262	0.151	0.153	0.171	0.188	0.184	0.250	0.151	0.164	0.156	0.156

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.12.a (Part 2). Counts & Measures of Variation for Bossier Parish, LA Twenty-five Runs of the TDA
for Districts 07, 08, 09, 10, 11, 12
($\epsilon = 4$)

DIST-ID	(Measures of Variation)													
	Bossier		07	07	08	08	09	09	10	10	11	11	12	12
TOTAL	116,850	116,979	9,246	9,254	9,168	9,261	9,362	9,283	9,657	9,633	10,058	10,118	10,174	10,236
	52	139	82	82	76	120	91	120	62	66	47	76	64	89
	0.000	0.001	0.009	0.009	0.008	0.013	0.010	0.013	0.006	0.007	0.005	0.008	0.006	0.009
TOTAL18	86,917	86,945	6,564	6,586	6,634	6,678	7,180	7,138	7,023	6,913	7,735	7,777	7,563	7,628
	46	54	89	92	82	93	62	75	67	129	49	65	59	88
	0.001	0.001	0.014	0.014	0.012	0.014	0.009	0.010	0.010	0.019	0.006	0.008	0.008	0.011
TOTALHISP	6,926	7,026	985	1,059	576	637	866	827	1,371	1,379	613	629	546	556
	62	118	47	88	51	79	52	65	54	55	36	40	30	32
	0.009	0.017	0.048	0.083	0.088	0.125	0.060	0.079	0.039	0.040	0.059	0.063	0.055	0.057
TOTALNH	109,924	109,953	8,261	8,195	8,592	8,624	8,496	8,456	8,286	8,254	9,445	9,489	9,628	9,680
	72	78	85	107	66	74	62	74	50	59	47	64	70	87
	0.001	0.001	0.010	0.013	0.008	0.009	0.007	0.009	0.006	0.007	0.005	0.007	0.007	0.009
WHITENH	80,991	80,991	3,608	3,626	6,981	6,976	4,433	4,431	4,716	4,705	7,195	7,195	7,820	7,853
	16	16	53	56	46	46	46	46	52	53	33	33	51	61
	0.000	0.000	0.015	0.016	0.007	0.007	0.010	0.010	0.011	0.011	0.005	0.005	0.007	0.008
BLACKNH	24,877	24,866	4,291	4,256	1,320	1,306	3,625	3,599	3,016	3,059	1,716	1,720	1,384	1,365
	21	24	58	68	49	51	54	60	39	58	31	31	37	41
	0.001	0.001	0.014	0.016	0.037	0.039	0.015	0.017	0.013	0.019	0.018	0.018	0.026	0.030
AIANNH	967	962	65	38	69	93	84	76	82	82	93	95	86	69
	19	20	16	31	25	35	18	20	18	18	21	21	22	28
	0.020	0.021	0.246	0.819	0.358	0.372	0.218	0.259	0.222	0.223	0.228	0.224	0.257	0.407
ASIANNH	2,321	2,322	207	197	183	181	257	233	262	298	366	373	284	305
	30	30	31	33	31	31	22	33	28	45	23	24	31	38
	0.013	0.013	0.150	0.167	0.171	0.173	0.084	0.140	0.106	0.152	0.064	0.066	0.111	0.124
HPINH	163	200	18	11	11	20	27	38	22	23	21	26	14	30
	18	42	11	13	7	11	9	14	13	13	12	13	8	18
	0.111	0.208	0.588	1.161	0.608	0.560	0.344	0.374	0.563	0.551	0.564	0.493	0.558	0.594
OTHERNH	167	165	27	15	11	11	17	15	36	23	13	18	8	13
	23	23	15	19	9	9	9	9	12	17	11	12	7	8
	0.139	0.141	0.543	1.247	0.831	0.816	0.549	0.627	0.339	0.758	0.808	0.648	0.850	0.650
MLTMNH	440	447	46	52	18	37	53	64	151	64	42	62	31	45
	58	58	16	17	10	21	19	22	36	94	14	24	13	19
	0.131	0.130	0.344	0.325	0.547	0.580	0.360	0.344	0.235	1.472	0.329	0.395	0.418	0.421
HISP18	4,464	4,505	653	701	353	384	578	547	904	868	416	426	360	382
	38	56	50	69	45	55	43	53	44	57	28	30	26	34
	0.008	0.012	0.076	0.099	0.127	0.143	0.074	0.097	0.048	0.065	0.067	0.069	0.072	0.089
NONHISP18	82,453	82,440	5,911	5,885	6,281	6,294	6,602	6,591	6,119	6,045	7,319	7,351	7,204	7,246
	49	51	70	74	64	65	51	52	56	93	46	56	65	78
	0.001	0.001	0.012	0.013	0.010	0.010	0.008	0.008	0.009	0.015	0.006	0.008	0.009	0.011
WHITENH18	62,474	62,468	2,965	2,982	5,199	5,193	3,808	3,819	3,693	3,685	5,762	5,758	5,935	5,959
	15	16	50	52	48	48	36	37	38	39	34	34	47	53
	0.000	0.000	0.017	0.018	0.009	0.009	0.009	0.010	0.010	0.011	0.006	0.006	0.008	0.009
BLACKNH18	17,053	17,048	2,699	2,682	882	875	2,469	2,455	2,002	2,019	1,156	1,168	959	947
	16	17	46	49	35	35	37	39	26	31	28	31	33	35
	0.001	0.001	0.017	0.018	0.039	0.040	0.015	0.016	0.013	0.015	0.025	0.026	0.034	0.037
AIANNH18	721	718	49	32	51	70	66	61	68	65	64	66	60	49
	14	14	14	22	19	27	13	13	16	17	17	17	14	18
	0.019	0.020	0.280	0.682	0.372	0.381	0.192	0.219	0.241	0.254	0.265	0.258	0.233	0.365
ASIANNH18	1,712	1,715	150	147	129	120	196	186	187	210	291	295	214	223
	20	21	27	27	22	24	23	25	20	30	18	19	27	28
	0.012	0.012	0.180	0.185	0.172	0.199	0.118	0.137	0.106	0.144	0.063	0.064	0.125	0.126
HPINH18	117	144	12	6	6	9	21	25	17	19	16	20	11	26
	17	31	9	11	5	6	8	9	12	12	11	11	7	17
	0.141	0.218	0.745	1.818	0.874	0.670	0.378	0.354	0.707	0.649	0.669	0.572	0.620	0.639
OTHERNH18	93	90	13	7	5	6	9	8	27	13	9	9	5	9
	15	16	12	13	5	5	7	7	11	17	9	9	5	6
	0.165	0.176	0.929	1.839	0.977	0.879	0.818	0.905	0.401	1.326	0.936	0.974	0.916	0.676
MLTMNH18	283	257	23	29	9	21	32	37	125	34	22	35	20	33
	43	50	13	15	7	14	15	16	33	97	9	16	10	17
	0.152	0.195	0.577	0.501	0.778	0.672	0.471	0.430	0.266	2.843	0.410	0.456	0.526	0.510
AVDRV	0.046	0.058	0.241	0.452	0.302	0.286	0.187	0.203	0.168	0.429	0.227	0.218	0.242	0.239
MEDRV	0.010	0.013	0.113	0.133	0.149	0.158	0.079	0.117	0.077	0.105	0.064	0.065	0.091	0.107

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.13 (Part 1). St. Landry Parish, LA Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{83,384}{13} = 6,414.2 \quad TDA \text{ IDEAL POPULATION} = \frac{83,350}{13} = 6,411.5$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	Landry	01	02	03	04	05	Landry	01	02	03	04	05
TOTAL	83,384	6,130	6,290	6,166	6,452	6,095	83,350	6,224	6,126	6,053	6,500	6,194
DEV		-284.2	-124.2	-248.2	37.8	-319.2		-187.5	-285.5	-358.5	88.5	-217.5
DEVP		-4.33	-1.94	-3.87	0.59	-4.98		-2.92	-4.45	-5.59	1.38	-3.39
TOTAL18	60,704	4,362	4,498	4,353	4,744	4,545	60,655	4,338	4,341	4,309	4,845	4,562
TOTALHISP	1,321	84	78	56	78	96	1,276	100	37	39	45	149
TOTALHISP18P	1.58	1.37	1.24	0.91	1.21	1.58	1.53	1.61	0.60	0.64	0.69	2.41
TOTALNH	82,063	6,046	6,212	6,110	6,374	5,999	82,074	6,124	6,089	6,014	6,455	6,045
TOTALNHP	98.42	98.63	98.76	99.09	98.79	98.42	98.47	98.39	99.4	99.36	99.31	97.59
WHITENH	46,025	2,040	1,564	1,802	2,982	3,640	46,045	2,004	1,588	1,693	3,061	3,647
WHITENHP	55.20	33.28	24.86	29.22	46.22	59.72	55.24	32.2	25.92	27.97	47.09	58.88
BLACKNH	34,683	3,885	4,556	4,173	3,295	2,286	34,652	3,959	4,405	4,167	3,338	2,313
BLACKNHP	41.59	63.38	72.43	67.68	51.07	37.51	41.57	63.61	71.91	68.84	51.35	37.34
AIANNH	368	30	25	39	25	28	369	27	25	29	24	33
AIANNHP	0.44	0.49	0.40	0.63	0.39	0.46	0.44	0.43	0.41	0.48	0.37	0.53
ASIANNH	373	7	21	15	16	13	360	33	21	20	1	15
ASIANNHP	0.45	0.11	0.33	0.24	0.25	0.21	0.43	0.53	0.34	0.33	0.02	0.24
HPINH	8	0	0	0	0	1	0	0	0	0	0	0
HPINHP	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
OTHERNH	324	42	25	31	23	11	325	66	26	33	15	2
OTHERNHP	0.39	0.69	0.40	0.50	0.36	0.18	0.39	1.06	0.42	0.55	0.23	0.03
MLTMNH	282	42	21	50	33	20	323	35	24	72	16	35
MLTMNHP	0.34	0.69	0.33	0.81	0.51	0.33	0.39	0.56	0.39	1.19	0.25	0.57
HISP18	833	53	46	44	52	64	806	48	17	30	26	100
HISP18P	1.37	1.22	1.02	1.01	1.10	1.41	1.33	1.11	0.39	0.70	0.54	2.19
NONHISP18	59,871	4,309	4,452	4,309	4,692	4,481	59,849	4,290	4,324	4,279	4,819	4,462
NONHISP18P	98.63	98.78	98.98	98.99	98.9	98.59	98.67	98.89	99.61	99.3	99.46	97.81
WHITENH18	35,217	1,644	1,285	1,428	2,224	2,792	35,224	1,590	1,297	1,334	2,345	2,783
WHITENH18P	58.01	37.69	28.57	32.8	46.88	61.43	58.07	36.65	29.88	30.96	48.4	61.00
BLACKNH18	23,704	2,573	3,099	2,785	2,394	1,642	23,673	2,581	2,968	2,810	2,432	1,604
BLACKNH18P	39.05	58.99	68.90	63.98	50.46	36.13	39.03	59.50	68.37	65.21	50.20	35.16
AIANNH18	247	22	19	22	17	20	244	24	23	16	15	32
AIANNH18P	0.41	0.50	0.42	0.51	0.36	0.44	0.40	0.55	0.53	0.37	0.31	0.70
ASIANNH18	249	6	16	14	10	5	226	12	17	20	0	11
ASIANNH18P	0.41	0.14	0.36	0.32	0.21	0.11	0.37	0.28	0.39	0.46	0.00	0.24
HPINH18	6	0	0	0	0	0	0	0	0	0	0	0
HPINH18P	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHERNH18	251	38	19	25	20	7	255	61	0	28	15	2
OTHERNH18P	0.41	0.87	0.42	0.57	0.42	0.15	0.42	1.41	0.00	0.65	0.31	0.04
MLTMNH18	197	26	14	35	27	15	227	22	19	71	12	30
MLTMNH18P	0.32	0.60	0.31	0.80	0.57	0.33	0.37	0.51	0.44	1.65	0.25	0.66

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.13:

- 1: St. Landry has WHITENHP = 55.20% and BLACKNHP = 41.59% for the 2010 Census; and WHITENHP = 55.24% and BLACKNHP = 41.57% for the *TDA* run.
- 2: For seven of the thirteen districts, WHITENHP > 50.00% for the 2010 Census and for the *TDA* run.
- 3: For five of the thirteen districts, BLACKNHP > 50.00% for the 2010 Census and for the *TDA* run.

Table VII.13 (Part 2). St. Landry Parish, LA Run A of Twenty-five Runs of the *TDA*
for County Districts 06, 07, 08, 09
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{83,384}{13} = 6,414.2 \quad TDA \text{ IDEAL POPULATION} = \frac{83,350}{13} = 6,411.5$$

Demographics	2010 Census, SF1 (PL 94-171)									
	Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	Landry	06	07	08	09	Landry	06	07	08	09
TOTAL	83,384	6,261	6,766	6,680	6,802	83,350	6,406	6,785	6,698	6,639
DEV		-153.2	351.8	265.8	387.8		-5.5	373.5	286.5	227.5
DEVP		-2.39	5.48	4.14	6.05		-0.09	5.83	4.47	3.55
TOTAL18	60,704	4,555	4,991	4,788	5,236	60,655	4,727	4,950	4,830	5,143
TOTALHISP	1,321	85	63	187	105	1,276	89	76	145	83
TOTALHISPP	1.58	1.36	0.93	2.80	1.54	1.53	1.39	1.12	2.16	1.25
TOTALNH	82,063	6,176	6,703	6,493	6,697	82,074	6,317	6,709	6,553	6,556
TOTALNHP	98.42	98.64	99.07	97.2	98.46	98.47	98.61	98.88	97.84	98.75
WHITENH	46,025	5,373	5,403	3,944	4,890	46,045	5,453	5,350	3,958	4,868
WHITENHP	55.20	85.82	79.86	59.04	71.89	55.24	85.12	78.85	59.09	73.32
BLACKNH	34,683	731	1,249	2,453	1,617	34,652	779	1,278	2,432	1,562
BLACKNHP	41.59	11.68	18.46	36.72	23.77	41.57	12.16	18.84	36.31	23.53
AIANNH	368	26	16	36	28	369	29	9	63	27
AIANNHP	0.44	0.42	0.24	0.54	0.41	0.44	0.45	0.13	0.94	0.41
ASIANNH	373	31	18	15	110	360	34	28	51	60
ASIANNHP	0.45	0.50	0.27	0.22	1.62	0.43	0.53	0.41	0.76	0.90
HPINH	8	1	0	0	0	0	0	0	0	0
HPINH18P	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHERNH	324	6	14	28	29	325	19	24	28	12
OTHERNHP	0.39	0.10	0.21	0.42	0.43	0.39	0.30	0.35	0.42	0.18
MLTMNH	282	8	3	17	23	323	3	20	21	27
MLTMNHP	0.34	0.13	0.04	0.25	0.34	0.39	0.05	0.29	0.31	0.41
HISP18	833	38	37	115	73	806	51	58	92	53
HISP18P	1.37	0.83	0.74	2.40	1.39	1.33	1.08	1.17	1.90	1.03
NONHISP18	59,871	4,517	4,954	4,673	5,163	59,849	4,676	4,892	4,738	5,090
NONHISP18P	98.63	99.17	99.26	97.60	98.61	98.67	98.92	98.83	98.10	98.97
WHITENH18	35,217	3,968	4,051	2,943	3,912	35,224	4,062	3,957	2,977	3,921
WHITENH18P	58.01	87.11	81.17	61.47	74.71	58.07	85.93	79.94	61.64	76.24
BLACKNH18	23,704	505	866	1,663	1,130	23,673	555	890	1,676	1,081
BLACKNH18P	39.05	11.09	17.35	34.73	21.58	39.03	11.74	17.98	34.70	21.02
AIANNH18	247	17	14	21	19	244	11	4	34	27
AIANNH18P	0.41	0.37	0.28	0.44	0.36	0.40	0.23	0.08	0.70	0.52
ASIANNH18	249	17	11	12	68	226	31	27	16	38
ASIANNH18P	0.41	0.37	0.22	0.25	1.30	0.37	0.66	0.55	0.33	0.74
HPINH18	6	1	0	0	0	0	0	0	0	0
HPINH18P	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHERNH18	251	5	9	20	20	255	14	9	28	7
OTHERNH18P	0.41	0.11	0.18	0.42	0.38	0.42	0.30	0.18	0.58	0.14
MLTMNH18	197	4	3	14	14	227	3	5	7	16
MLTMNH18P	0.32	0.09	0.06	0.29	0.27	0.37	0.06	0.10	0.14	0.31

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Table VII.13 (Part 3). St. Landry Parish, LA Run A of Twenty-five Runs of the *TDA*
for County Districts 10, 11, 12, 13
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{83,384}{13} = 6,414.2 \quad TDA \text{ IDEAL POPULATION} = \frac{83,350}{13} = 6,411.5$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	Landry	10	11	12	13	Landry	10	11	12	13
TOTAL	83,384	6,374	6,691	6,115	6,562	83,350	6,306	6,684	6,172	6,563
DEV		-40.2	276.8	-299.2	147.8		-105.5	272.5	-239.5	151.5
DEVP		-0.63	4.32	-4.66	2.30		-1.65	4.25	-3.74	2.36
TOTAL18	60,704	4,465	4,823	4,478	4,866	60,655	4,457	4,780	4,462	4,911
TOTALHISP	1,321	84	131	125	149	1,276	96	138	128	151
TOTALHISPP	1.58	1.32	1.96	2.04	2.27	1.53	1.52	2.06	2.07	2.30
TOTALNH	82,063	6,290	6,560	5,990	6,413	82,074	6,210	6,546	6,044	6,412
TOTALNHP	98.42	98.68	98.04	97.96	97.73	98.47	98.48	97.94	97.93	97.70
WHITENH	46,025	1,773	4,358	2,938	5,318	46,045	1,735	4,365	3,000	5,323
WHITENHP	55.20	27.82	65.13	48.05	81.04	55.24	27.51	65.31	48.61	81.11
BLACKNH	34,683	4,413	2,077	2,950	998	34,652	4,386	2,073	2,936	1,024
BLACKNHP	41.59	69.23	31.04	48.24	15.21	41.57	69.55	31.01	47.57	15.60
AIANNH	368	24	26	30	35	369	30	35	26	12
AIANNHP	0.44	0.38	0.39	0.49	0.53	0.44	0.48	0.52	0.42	0.18
ASIANNH	373	29	29	29	40	360	19	35	25	18
ASIANNHP	0.45	0.45	0.43	0.47	0.61	0.43	0.30	0.52	0.41	0.27
HPINH	8	5	0	0	1	0	0	0	0	0
HPINHP	0.01	0.08	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
OTHERNH	324	27	50	26	12	325	26	26	24	24
OTHERNHP	0.39	0.42	0.75	0.43	0.18	0.39	0.41	0.39	0.39	0.37
MLTMNH	282	19	20	17	9	323	14	12	33	11
MLTMNHP	0.34	0.30	0.30	0.28	0.14	0.39	0.22	0.18	0.53	0.17
HISP18	833	58	77	82	94	806	67	62	90	112
HISP18P	1.37	1.30	1.60	1.83	1.93	1.33	1.50	1.30	2.02	2.28
NONHISP18	59,871	4,407	4,746	4,396	4,772	59,849	4,390	4,718	4,372	4,799
NONHISP18P	98.63	98.70	98.40	98.17	98.07	98.67	98.50	98.70	97.98	97.72
WHITENH18	35,217	1,423	3,192	2,236	4,119	35,224	1,407	3,171	2,271	4,109
WHITENH18P	58.01	31.87	66.18	49.93	84.65	58.07	31.57	66.34	50.90	83.67
BLACKNH18	23,704	2,903	1,475	2,091	578	23,673	2,922	1,477	2,040	637
BLACKNH18P	39.05	65.02	30.58	46.69	11.88	39.03	65.56	30.90	45.72	12.97
AIANNH18	247	16	18	15	27	244	20	30	5	3
AIANNH18P	0.41	0.36	0.37	0.33	0.55	0.40	0.45	0.63	0.11	0.06
ASIANNH18	249	22	13	23	32	226	2	12	22	18
ASIANNH18P	0.41	0.49	0.27	0.51	0.66	0.37	0.04	0.25	0.49	0.37
HPINH18	6	4	0	0	1	0	0	0	0	0
HPINH18P	0.01	0.09	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
OTHERNH18	251	22	35	20	11	255	26	25	18	22
OTHERNH18P	0.41	0.49	0.73	0.45	0.23	0.42	0.58	0.52	0.40	0.45
MLTMNH18	197	17	13	11	4	227	13	3	16	10
MLTMNH18P	0.32	0.38	0.27	0.25	0.08	0.37	0.29	0.06	0.36	0.20

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Table VII.13.a (Part 1). Counts & Measures of Variation for St. Landry Parish, LA Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	St. Landry		01	01	02	02	03	03	04	04	05	05
TOTAL	83,373	83,384	6,179	6,130	6,205	6,290	6,168	6,166	6,408	6,452	6,140	6,095
	42	43	83	96	92	125	91	91	85	95	74	86
	0.001	0.001	0.013	0.016	0.015	0.020	0.015	0.015	0.013	0.015	0.012	0.014
TOTAL18	60,713	60,704	4,378	4,362	4,435	4,498	4,364	4,353	4,728	4,744	4,577	4,545
	52	53	65	67	74	97	81	82	71	72	49	58
	0.001	0.001	0.015	0.015	0.017	0.022	0.019	0.019	0.015	0.015	0.011	0.013
TOTALHISP	1,307	1,321	91	84	67	78	62	56	81	78	113	96
	42	44	22	23	16	19	19	20	23	23	25	30
	0.032	0.033	0.246	0.279	0.236	0.249	0.298	0.348	0.282	0.298	0.221	0.311
TOTALNH	82,066	82,063	6,088	6,046	6,138	6,212	6,106	6,110	6,327	6,374	6,028	5,999
	40	40	81	91	90	116	95	95	88	100	68	73
	0.000	0.000	0.013	0.015	0.015	0.019	0.015	0.016	0.014	0.016	0.011	0.012
WHITENH	46,035	46,025	2,043	2,040	1,621	1,564	1,762	1,802	2,965	2,982	3,616	3,640
	22	24	69	69	57	81	55	68	62	64	70	74
	0.000	0.001	0.034	0.034	0.035	0.052	0.031	0.038	0.021	0.021	0.019	0.020
BLACKNH	34,665	34,683	3,925	3,885	4,429	4,556	4,259	4,173	3,262	3,295	2,304	2,286
	22	28	61	73	65	143	82	119	62	70	34	38
	0.001	0.001	0.015	0.019	0.015	0.031	0.019	0.029	0.019	0.021	0.015	0.017
AIANNH	369	368	33	30	19	25	27	39	31	25	31	28
	20	20	13	13	8	10	11	16	13	14	15	15
	0.053	0.053	0.394	0.439	0.414	0.397	0.409	0.413	0.414	0.557	0.486	0.551
ASIANNH	377	373	18	7	29	21	17	15	22	16	24	13
	25	25	8	14	13	15	11	11	14	15	13	17
	0.067	0.068	0.467	2.002	0.438	0.698	0.650	0.747	0.629	0.948	0.527	1.318
HPINH	17	8	2	0	1	0	1	0	1	0	2	1
	15	17	3	4	2	2	3	3	1	2	5	5
	0.879	2.136	1.680	Inf	2.040	Inf	3.362	Inf	2.190	Inf	2.263	5.024
OTHERNH	316	324	38	42	17	25	18	31	24	23	21	11
	21	22	19	19	11	14	11	17	12	12	10	14
	0.065	0.069	0.499	0.458	0.659	0.550	0.619	0.556	0.514	0.527	0.497	1.279
MLTMNH	287	282	29	42	23	21	21	50	22	33	29	20
	29	30	8	15	10	10	15	32	9	14	13	16
	0.102	0.105	0.284	0.362	0.446	0.484	0.697	0.650	0.421	0.433	0.453	0.810
HISP18	823	833	58	53	42	46	41	44	53	52	72	64
	33	34	19	20	18	19	16	16	19	19	19	21
	0.040	0.041	0.329	0.370	0.440	0.411	0.380	0.363	0.370	0.375	0.266	0.324
NONHISP18	59,890	59,871	4,320	4,309	4,393	4,452	4,323	4,309	4,675	4,692	4,505	4,481
	52	55	67	68	65	88	78	79	69	71	47	53
	0.001	0.001	0.016	0.016	0.015	0.020	0.018	0.018	0.015	0.015	0.010	0.012
WHITENH18	35,223	35,217	1,643	1,644	1,314	1,285	1,403	1,428	2,227	2,224	2,771	2,792
	12	13	60	60	40	49	50	56	44	44	58	62
	0.000	0.000	0.037	0.037	0.031	0.039	0.036	0.039	0.020	0.020	0.021	0.022
BLACKNH18	23,696	23,704	2,584	2,573	3,013	3,099	2,855	2,785	2,375	2,394	1,658	1,642
	16	18	59	60	45	97	73	101	53	56	38	41
	0.001	0.001	0.023	0.023	0.015	0.031	0.026	0.036	0.022	0.024	0.023	0.025
AIANNH18	245	247	22	22	15	19	16	22	22	17	22	20
	18	18	10	10	9	10	9	10	12	13	10	11
	0.072	0.072	0.468	0.475	0.643	0.546	0.530	0.469	0.537	0.741	0.475	0.533
ASIANNH18	255	249	14	6	22	16	14	14	15	10	16	5
	18	19	6	10	11	13	11	11	11	12	11	15
	0.072	0.078	0.473	1.674	0.493	0.796	0.754	0.770	0.720	1.230	0.706	3.085
HPINH18	11	6	1	0	1	0	1	0	1	0	2	0
	12	13	3	3	2	2	2	2	1	2	3	4
	1.037	2.121	2.179	Inf	2.140	Inf	2.816	Inf	2.291	Inf	2.123	Inf
OTHERNH18	248	251	32	38	12	19	16	25	18	20	14	7
	15	16	17	18	10	12	10	14	10	10	10	12
	0.062	0.062	0.516	0.464	0.834	0.645	0.635	0.546	0.541	0.504	0.662	1.731
MLTMNH18	211	197	22	26	15	14	17	35	17	27	23	15
	26	29	10	10	8	8	14	23	9	14	13	15
	0.123	0.149	0.433	0.398	0.528	0.568	0.827	0.649	0.552	0.514	0.580	1.011
AVERV	0.130	0.250	0.407	Inf	0.473	Inf	0.608	Inf	0.480	Inf	0.469	Inf
MEDRV	0.046	0.047	0.306	0.366	0.426	0.404	0.395	0.388	0.392	0.404	0.360	0.429

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.13.a (Part 2). Counts & Measures of Variation for St. Landry Parish, LA Twenty-five Runs of the TDA for County Districts 06, 07, 08, 09
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	St. Landry		06	06	07	07	08	08	09	09
TOTAL	83,373	83,384	6,365	6,261	6,788	6,766	6,648	6,680	6,709	6,802
	42	43	85	134	73	76	56	64	74	119
	0.001	0.001	0.013	0.021	0.011	0.011	0.008	0.010	0.011	0.017
TOTAL18	60,713	60,704	4,632	4,555	5,007	4,991	4,768	4,788	5,166	5,236
	52	53	72	106	60	62	62	65	59	91
	0.001	0.001	0.016	0.023	0.012	0.012	0.013	0.014	0.011	0.017
TOTALHISP	1,307	1,321	86	85	72	63	151	187	94	105
	42	44	20	20	19	21	27	45	21	24
	0.032	0.033	0.234	0.236	0.268	0.340	0.178	0.240	0.225	0.226
TOTALNH	82,066	82,063	6,279	6,176	6,716	6,703	6,497	6,493	6,615	6,697
	40	40	88	135	68	69	64	64	69	107
	0.000	0.000	0.014	0.022	0.010	0.010	0.010	0.010	0.010	0.016
WHITENH	46,035	46,025	5,402	5,373	5,386	5,403	3,948	3,944	4,870	4,890
	22	24	78	83	60	62	47	47	68	71
	0.000	0.001	0.014	0.015	0.011	0.011	0.012	0.012	0.014	0.015
BLACKNH	34,665	34,683	791	731	1,261	1,249	2,444	2,453	1,615	1,617
	22	28	38	71	34	36	38	39	55	55
	0.001	0.001	0.049	0.097	0.027	0.029	0.015	0.016	0.034	0.034
AIANNH	369	368	29	26	22	16	37	36	24	28
	20	20	12	12	14	15	15	15	9	10
	0.053	0.053	0.407	0.458	0.638	0.940	0.396	0.409	0.362	0.342
ASIANNH	377	373	19	31	20	18	26	15	62	110
	25	25	12	17	11	12	13	17	16	51
	0.067	0.068	0.631	0.549	0.580	0.643	0.513	1.133	0.259	0.462
HPINH	17	8	2	1	1	0	2	0	0	0
	15	17	4	4	1	2	4	4	1	1
	0.879	2.136	1.745	3.709	2.357	Inf	2.140	Inf	2.051	Inf
OTHERNH	316	324	20	6	13	14	23	28	25	29
	21	22	12	18	9	9	11	12	11	12
	0.065	0.069	0.598	3.022	0.649	0.625	0.494	0.443	0.457	0.416
MLTMNH	287	282	17	8	13	3	18	17	19	23
	29	30	10	14	8	13	8	9	10	10
	0.102	0.105	0.599	1.716	0.571	4.319	0.475	0.502	0.497	0.447
HISP18	823	833	47	38	45	37	90	115	65	73
	33	34	11	14	19	20	16	30	16	18
	0.040	0.041	0.232	0.371	0.422	0.551	0.182	0.261	0.242	0.240
NONHISP18	59,890	59,871	4,585	4,517	4,962	4,954	4,678	4,673	5,100	5,163
	52	55	74	100	55	56	62	62	53	82
	0.001	0.001	0.016	0.022	0.011	0.011	0.013	0.013	0.010	0.016
WHITENH18	35,223	35,217	3,991	3,968	4,033	4,051	2,948	2,943	3,896	3,912
	12	13	56	61	51	55	40	41	60	62
	0.000	0.000	0.014	0.015	0.013	0.013	0.014	0.014	0.015	0.016
BLACKNH18	23,696	23,704	536	505	880	866	1,663	1,663	1,120	1,130
	16	18	27	42	29	32	29	29	43	44
	0.001	0.001	0.051	0.082	0.033	0.037	0.017	0.017	0.038	0.039
AIANNH18	245	247	18	17	17	14	23	21	16	19
	18	18	11	12	11	12	11	11	9	9
	0.072	0.072	0.627	0.678	0.649	0.840	0.462	0.515	0.561	0.500
ASIANNH18	255	249	12	17	13	11	14	12	35	68
	18	19	9	10	10	10	10	11	13	35
	0.072	0.078	0.736	0.597	0.744	0.898	0.722	0.886	0.378	0.519
HPINH18	11	6	1	1	0	0	1	0	0	0
	12	13	3	3	1	1	3	3	1	1
	1.037	2.121	2.997	2.877	2.894	Inf	2.573	Inf	2.234	Inf
OTHERNH18	248	251	15	5	10	9	17	20	19	20
	15	16	11	15	6	6	10	11	12	12
	0.062	0.062	0.741	3.089	0.670	0.721	0.614	0.539	0.608	0.588
MLTMNH18	211	197	11	4	9	3	12	14	13	14
	26	29	8	10	7	9	8	8	7	7
	0.123	0.149	0.720	2.522	0.737	2.964	0.674	0.599	0.552	0.522
AVERV	0.130	0.250	0.523	1.006	0.565	Inf	0.476	Inf	0.429	Inf
MEDRV	0.046	0.047	0.320	0.415	0.496	0.588	0.289	0.335	0.250	0.291

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.13.a (Part 3). Counts & Measures of Variation for St. Landry Parish, LA Twenty-five Runs of the TDA
for County Districts 10, 11, 12, 13
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	St. Landry		10	10	11	11	12	12	13	13
TOTAL	83,373	83,384	6,370	6,374	6,691	6,691	6,091	6,115	6,612	6,562
	42	43	63	63	78	78	65	69	55	74
	0.001	0.001	0.010	0.010	0.012	0.012	0.011	0.011	0.008	0.011
TOTAL18	60,713	60,704	4,459	4,465	4,840	4,823	4,476	4,478	4,884	4,866
	52	53	56	56	74	76	64	64	43	47
	0.001	0.001	0.013	0.013	0.015	0.016	0.014	0.014	0.009	0.010
TOTALHISP	1,307	1,321	92	84	133	131	112	125	152	149
	42	44	29	30	26	26	22	25	29	29
	0.032	0.033	0.313	0.355	0.192	0.196	0.196	0.203	0.189	0.194
TOTALNH	82,066	82,063	6,278	6,290	6,558	6,560	5,978	5,990	6,460	6,413
	40	40	62	63	74	74	65	66	69	83
	0.000	0.000	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.013
WHITENH	46,035	46,025	1,777	1,773	4,387	4,358	2,964	2,938	5,292	5,318
	22	24	44	45	58	65	43	50	51	57
	0.000	0.001	0.025	0.025	0.013	0.015	0.014	0.017	0.010	0.011
BLACKNH	34,665	34,683	4,391	4,413	2,042	2,077	2,897	2,950	1,046	998
	22	28	41	46	46	58	36	64	50	69
	0.001	0.001	0.009	0.010	0.023	0.028	0.012	0.022	0.048	0.069
AIANNH	369	368	24	24	32	26	32	30	30	35
	20	20	12	12	10	11	15	15	12	13
	0.053	0.053	0.526	0.518	0.303	0.428	0.479	0.517	0.402	0.373
ASIANNH	377	373	34	29	34	29	32	29	41	40
	25	25	17	18	14	15	15	15	17	17
	0.067	0.068	0.497	0.621	0.412	0.508	0.468	0.532	0.423	0.430
HPINH	17	8	3	5	1	0	1	0	0	1
	15	17	4	4	2	2	1	1	1	1
	0.879	2.136	1.310	0.871	1.770	Inf	2.087	Inf	1.937	1.020
OTHERNH	316	324	30	27	41	50	26	26	20	12
	21	22	10	10	17	19	14	14	10	13
	0.065	0.069	0.327	0.386	0.398	0.371	0.528	0.536	0.523	1.101
MLTMNH	287	282	18	19	21	20	25	17	31	9
	29	30	13	13	10	10	14	16	11	24
	0.102	0.105	0.710	0.690	0.478	0.501	0.539	0.947	0.343	2.669
HISP18	823	833	59	58	82	77	68	82	100	94
	33	34	27	27	19	20	20	24	28	29
	0.040	0.041	0.447	0.458	0.236	0.259	0.287	0.292	0.277	0.304
NONHISP18	59,890	59,871	4,399	4,407	4,758	4,746	4,408	4,396	4,784	4,772
	52	55	57	58	73	75	59	60	52	53
	0.001	0.001	0.013	0.013	0.015	0.016	0.013	0.014	0.011	0.011
WHITENH18	35,223	35,217	1,429	1,423	3,214	3,192	2,263	2,236	4,091	4,119
	12	13	37	38	54	58	35	44	38	47
	0.000	0.000	0.026	0.027	0.017	0.018	0.015	0.020	0.009	0.011
BLACKNH18	23,696	23,704	2,894	2,903	1,454	1,475	2,062	2,091	601	578
	16	18	41	42	45	50	34	45	37	44
	0.001	0.001	0.014	0.015	0.031	0.034	0.017	0.022	0.062	0.076
AIANNH18	245	247	14	16	23	18	18	15	18	27
	18	18	11	11	9	11	14	15	12	15
	0.072	0.072	0.810	0.709	0.401	0.593	0.765	0.968	0.681	0.563
ASIANNH18	255	249	23	22	20	13	24	23	32	32
	18	19	13	13	11	13	13	13	14	14
	0.072	0.078	0.567	0.592	0.543	1.016	0.522	0.545	0.447	0.450
HPINH18	11	6	2	4	0	0	0	0	0	1
	12	13	3	4	1	1	1	1	1	1
	1.037	2.121	1.881	1.020	2.412	Inf	2.412	Inf	2.114	0.959
OTHERNH18	248	251	24	22	33	35	21	20	16	11
	15	16	9	10	14	14	13	13	10	11
	0.062	0.062	0.379	0.435	0.422	0.400	0.638	0.672	0.633	1.023
MLTMNH18	211	197	14	17	14	13	19	11	25	4
	26	29	11	11	7	8	12	15	11	24
	0.123	0.149	0.782	0.655	0.522	0.584	0.635	1.356	0.460	5.919
AVERV	0.130	0.250	0.434	0.372	0.411	Inf	0.483	Inf	0.430	0.761
MEDRV	0.046	0.047	0.353	0.410	0.270	0.315	0.378	0.404	0.310	0.339

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.14 (Part 1). Jefferson Davis Parish, LA Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{31,594}{13} = 2,430.3 \quad TDA \text{ IDEAL POPULATION} = \frac{31,703}{13} = 2,438.7$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	J. Davis	01	02	03	04	05	J. Davis	01	02	03	04	05
TOTAL	31,594	2,398	2,497	2,250	2,481	2,499	31,703	2,522	2,479	2,407	2,537	2,350
DEV		-32.3	66.7	-180.3	50.7	68.7		83.3	40.3	-31.7	98.3	-88.7
DEVP		-1.33	2.74	-7.42	2.09	2.83		3.42	1.65	-1.30	4.03	-3.64
TOTAL18	23,196	1,784	1,819	1,675	1,839	1,921	23,323	1,847	1,776	1,859	1,898	1,846
TOTALHISP	538	43	29	41	71	39	539	33	27	88	63	40
TOTALHISP18P	1.70	1.79	1.16	1.82	2.86	1.56	1.70	1.31	1.09	3.66	2.48	1.70
TOTALNH	31,056	2,355	2,468	2,209	2,410	2,460	31,164	2,489	2,452	2,319	2,474	2,310
TOTALNHP	98.30	98.21	98.84	98.18	97.14	98.44	98.30	98.69	98.91	96.34	97.52	98.30
WHITENH	24,835	2,024	2,315	944	2,022	2,244	24,833	2,202	2,239	1,162	1,971	2,144
WHITENHP	78.61	84.40	92.71	41.96	81.50	89.80	78.33	87.31	90.32	48.28	77.69	91.23
BLACKNH	5,734	318	139	1,243	345	177	5,689	263	205	1,087	421	139
BLACKNHP	18.15	13.26	5.57	55.24	13.91	7.08	17.94	10.43	8.27	45.16	16.59	5.91
AIANNH	250	0	8	5	20	21	243	0	0	19	14	18
AIANNHP	0.79	0.00	0.32	0.22	0.81	0.84	0.77	0.00	0.00	0.79	0.55	0.77
ASIANNH	94	5	4	4	12	13	135	0	2	13	9	2
ASIANNHP	0.30	0.21	0.16	0.18	0.48	0.52	0.43	0.00	0.08	0.54	0.35	0.09
HPINH	8	0	1	3	1	0	29	3	0	12	0	1
HPINHP	0.03	0.00	0.04	0.13	0.04	0.00	0.09	0.12	0.00	0.50	0.00	0.04
OTHERNH	64	4	1	5	5	4	71	8	2	1	0	1
OTHERNHP	0.20	0.17	0.04	0.22	0.20	0.16	0.22	0.32	0.08	0.04	0.00	0.04
MLTMNH	71	4	0	5	5	1	164	13	4	25	59	5
MLTMNHP	0.22	0.17	0.00	0.22	0.20	0.04	0.52	0.52	0.16	1.04	2.33	0.21
HISP18	365	33	20	31	48	29	363	22	12	63	46	24
HISP18P	1.57	1.85	1.10	1.85	2.61	1.51	1.56	1.19	0.68	3.39	2.42	1.30
NONHISP18	22,831	1,751	1,799	1,644	1,791	1,892	22,960	1,825	1,764	1,796	1,852	1,822
NONHISP18P	98.43	98.15	98.90	98.15	97.39	98.49	98.44	98.81	99.32	96.61	97.58	98.7
WHITENH18	18,679	1,533	1,721	781	1,553	1,738	18,656	1,653	1,665	945	1,510	1,689
WHITENH18P	80.53	85.93	94.61	46.63	84.45	90.47	79.99	89.50	93.75	50.83	79.56	91.50
BLACKNH18	3,838	209	68	850	207	123	3,822	149	97	792	267	106
BLACKNH18P	16.55	11.72	3.74	50.75	11.26	6.40	16.39	8.07	5.46	42.60	14.07	5.74
AIANNH18	162	0	5	2	13	15	162	0	0	12	14	18
AIANNH18P	0.70	0.00	0.27	0.12	0.71	0.78	0.69	0.00	0.00	0.65	0.74	0.98
ASIANNH18	62	3	3	2	9	11	90	0	0	10	5	2
ASIANNH18P	0.27	0.17	0.16	0.12	0.49	0.57	0.39	0.00	0.00	0.54	0.26	0.11
HPINH18	7	0	1	2	1	0	29	3	0	12	0	1
HPINH18P	0.03	0.00	0.05	0.12	0.05	0.00	0.12	0.16	0.00	0.65	0.00	0.05
OTHERNH18	43	2	1	5	5	4	63	8	2	1	0	1
OTHERNH18P	0.19	0.11	0.05	0.30	0.27	0.21	0.27	0.43	0.11	0.05	0.00	0.05
MLTMNH18	40	4	0	2	3	1	138	12	0	24	56	5
MLTMNH18P	0.17	0.22	0.00	0.12	0.16	0.05	0.59	0.65	0.00	1.29	2.95	0.27

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.14:

- 1: Jefferson Davis has WHITENHP = 78.61% and BLACKNHP = 18.15% for the 2010 Census; and WHITENHP = 78.33% and BLACKNHP = 17.94% for the *TDA* run.
- 2: For eleven of the thirteen districts, WHITENHP > 50.00% for the 2010 Census and for the *TDA* run.
- 3: For two of the thirteen districts, BLACKNHP > 50.00% (55.24% and 52.46%) for the 2010 Census and one of the thirteen districts for the *TDA* run.

Table VII.14 (Part 2). Jefferson Davis Parish, LA Run A of Twenty-five Runs of the *TDA*
for County Districts 06, 07, 08, 09
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{31,594}{13} = 2,430.3 \quad TDA \text{ IDEAL POPULATION} = \frac{31,703}{13} = 2,438.7$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	J. Davis	06	07	08	09	J. Davis	06	07	08	09
	TOTAL	31,594	2,152	2,529	2,308	2,381	31,703	2,098	2,555	2,414
DEV		-278.3	98.7	-122.3	-49.3		-340.7	116.3	-24.7	-4.7
DEVP		-11.45	4.06	-5.03	-2.03		-13.97	4.77	-1.01	-0.19
TOTAL18	23,196	1,548	1,856	1,668	1,699	23,323	1,472	1,881	1,744	1,690
TOTALHISP	538	37	42	37	35	539	39	60	40	26
TOTALHISP18P	1.70	1.72	1.66	1.60	1.47	1.70	1.86	2.35	1.66	1.07
TOTALNH	31,056	2,115	2,487	2,271	2,346	31,164	2,059	2,495	2,374	2,408
TOTALNHP	98.30	98.28	98.34	98.40	98.53	98.30	98.14	97.65	98.34	98.93
WHITENH	24,835	950	2,175	2,164	1,668	24,833	937	2,065	2,159	1,726
WHITENHP	78.61	44.14	86.00	93.76	70.05	78.33	44.66	80.82	89.44	70.91
BLACKNH	5,734	1,129	287	86	582	5,689	1,079	382	193	573
BLACKNHP	18.15	52.46	11.35	3.73	24.44	17.94	51.43	14.95	8.00	23.54
AIANNH	250	20	15	13	62	243	18	4	9	79
AIANNHP	0.79	0.93	0.59	0.56	2.60	0.77	0.86	0.16	0.37	3.25
ASIANNH	94	7	9	3	8	135	6	29	13	12
ASIANNHP	0.30	0.33	0.36	0.13	0.34	0.43	0.29	1.14	0.54	0.49
HPINH	8	0	0	0	1	29	0	3	0	10
HPINH18P	0.03	0.00	0.00	0.00	0.04	0.09	0.00	0.12	0.00	0.41
OTHERNH	64	0	1	2	6	71	1	8	0	0
OTHERNHP	0.20	0.00	0.04	0.09	0.25	0.22	0.05	0.31	0.00	0.00
MLTMNH	71	9	0	3	19	164	18	4	0	8
MLTMNHP	0.22	0.42	0.00	0.13	0.80	0.52	0.86	0.16	0.00	0.33
HISP18	365	25	24	21	23	363	38	47	24	9
HISP18P	1.57	1.61	1.29	1.26	1.35	1.56	2.58	2.50	1.38	0.53
NONHISP18	22,831	1,523	1,832	1,647	1,676	22,960	1,434	1,834	1,720	1,681
NONHISP18P	98.43	98.39	98.71	98.74	98.65	98.44	97.42	97.50	98.62	99.47
WHITENH18	18,679	716	1,643	1,579	1,195	18,656	677	1,552	1,613	1,206
WHITENH18P	80.53	46.25	88.52	94.66	70.34	79.99	45.99	82.51	92.49	71.36
BLACKNH18	3,838	782	173	55	420	3,822	720	244	95	414
BLACKNH18P	16.55	50.52	9.32	3.30	24.72	16.39	48.91	12.97	5.45	24.50
AIANNH18	162	10	8	7	48	162	16	1	1	43
AIANNH18P	0.70	0.65	0.43	0.42	2.83	0.69	1.09	0.05	0.06	2.54
ASIANNH18	62	7	7	1	3	90	3	22	11	8
ASIANNH18P	0.27	0.45	0.38	0.06	0.18	0.39	0.20	1.17	0.63	0.47
HPINH18	7	0	0	0	1	29	0	3	0	10
HPINH18P	0.03	0.00	0.00	0.00	0.06	0.12	0.00	0.16	0.00	0.59
OTHERNH18	43	0	1	2	5	63	0	8	0	0
OTHERNH18P	0.19	0.00	0.05	0.12	0.29	0.27	0.00	0.43	0.00	0.00
MLTMNH18	40	8	0	3	4	138	18	4	0	0
MLTMNH18P	0.17	0.52	0.00	0.18	0.24	0.59	1.22	0.21	0.00	0.00

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Table VII.14 (Part 3). Jefferson Davis Parish, LA Run A of Twenty-five Runs of the *TDA*
for County Districts 10, 11, 12, 13
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{31,594}{13} = 2,430.3 \quad TDA \text{ IDEAL POPULATION} = \frac{31,703}{13} = 2,438.7$$

Demographics	2010 Census, SF1 (PL 94-171)									
	Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	J. Davis	10	11	12	13	J. Davis	10	11	12	13
TOTAL	31,594	2,500	2,521	2,559	2,519	31,703	2,400	2,674	2,375	2,458
DEV		69.7	90.7	128.7	88.7		-38.7	235.3	-63.7	19.3
DEVP		2.87	3.73	5.30	3.65		-1.59	9.65	-2.61	0.79
TOTAL18	23,196	1,868	1,817	1,897	1,805	23,323	1,822	2,026	1,695	1,767
TOTALHISP	538	35	38	33	58	539	20	50	19	34
TOTALHISPP	1.70	1.40	1.51	1.29	2.30	1.70	0.83	1.87	0.80	1.38
TOTALNH	31,056	2,465	2,483	2,526	2,461	31,164	2,380	2,624	2,356	2,424
TOTALNHP	98.30	98.60	98.49	98.71	97.70	98.30	99.17	98.13	99.20	98.62
WHITENH	24,835	2,021	1,910	2,136	2,262	24,833	2,054	1,960	2,024	2,190
WHITENHP	78.61	80.84	75.76	83.47	89.80	78.33	85.58	73.30	85.22	89.10
BLACKNH	5,734	390	540	353	145	5,689	269	595	297	186
BLACKNHP	18.15	15.60	21.42	13.79	5.76	17.94	11.21	22.25	12.51	7.57
AIANNH	250	25	23	14	24	243	23	34	12	13
AIANNHP	0.79	1.00	0.91	0.55	0.95	0.77	0.96	1.27	0.51	0.53
ASIANNH	94	9	5	9	6	135	9	15	11	14
ASIANNHP	0.30	0.36	0.20	0.35	0.24	0.43	0.38	0.56	0.46	0.57
HPINH	8	0	0	2	0	29	0	0	0	0
HPINH18P	0.03	0.00	0.00	0.08	0.00	0.09	0.00	0.00	0.00	0.00
OTHERNH	64	7	2	10	17	71	24	14	6	6
OTHERNHP	0.20	0.28	0.08	0.39	0.67	0.22	1.00	0.52	0.25	0.24
MLTMNH	71	13	3	2	7	164	1	6	6	15
MLTMNHP	0.22	0.52	0.12	0.08	0.28	0.52	0.04	0.22	0.25	0.61
HISP18	365	25	27	21	38	363	10	30	15	23
HISP18P	1.57	1.34	1.49	1.11	2.11	1.56	0.55	1.48	0.88	1.30
NONHISP18	22,831	1,843	1,790	1,876	1,767	22,960	1,812	1,996	1,680	1,744
NONHISP18P	98.43	98.66	98.51	98.89	97.89	98.44	99.45	98.52	99.12	98.70
WHITENH18	18,679	1,555	1,418	1,611	1,636	18,656	1,574	1,519	1,470	1,583
WHITENH18P	80.53	83.24	78.04	84.92	90.64	79.99	86.39	74.98	86.73	89.59
BLACKNH18	3,838	252	353	248	98	3,822	192	426	184	136
BLACKNH18P	16.55	13.49	19.43	13.07	5.43	16.39	10.54	21.03	10.86	7.70
AIANNH18	162	17	12	8	17	162	19	19	11	8
AIANNH18P	0.70	0.91	0.66	0.42	0.94	0.69	1.04	0.94	0.65	0.45
ASIANNH18	62	5	4	4	3	90	9	15	4	1
ASIANNH18P	0.27	0.27	0.22	0.21	0.17	0.39	0.49	0.74	0.24	0.06
HPINH18	7	0	0	2	0	29	0	0	0	0
HPINH18P	0.03	0.00	0.00	0.11	0.00	0.12	0.00	0.00	0.00	0.00
OTHERNH18	43	5	1	2	10	63	18	14	5	6
OTHERNH18P	0.19	0.27	0.06	0.11	0.55	0.27	0.99	0.69	0.29	0.34
MLTMNH18	40	9	2	1	3	138	0	3	6	10
MLTMNH18P	0.17	0.48	0.11	0.05	0.17	0.59	0.00	0.15	0.35	0.57

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Table VII.14.a (Part 1). Counts & Measures of Variation for Jefferson Davis Parish, LA Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Jefferson Davis		01	01	02	02	03	03	04	04	05	05
TOTAL	31,667	31,594	2,532	2,398	2,465	2,497	2,344	2,250	2,482	2,481	2,440	2,499
	44	85	98	166	80	86	90	130	64	64	83	102
	0.001	0.003	0.039	0.069	0.032	0.034	0.038	0.058	0.026	0.026	0.034	0.041
TOTAL18	23,247	23,196	1,848	1,784	1,816	1,819	1,746	1,675	1,837	1,839	1,873	1,921
	46	69	64	90	54	54	79	106	58	58	66	82
	0.002	0.003	0.034	0.050	0.030	0.030	0.045	0.063	0.031	0.031	0.035	0.042
TOTALHISP	563	538	41	43	32	29	56	41	68	71	27	39
	37	45	10	11	17	17	19	24	21	21	11	16
	0.066	0.083	0.254	0.246	0.521	0.588	0.339	0.580	0.308	0.297	0.394	0.410
TOTALNH	31,104	31,056	2,492	2,355	2,433	2,468	2,289	2,209	2,415	2,410	2,413	2,460
	54	72	98	168	79	87	86	118	64	64	81	93
	0.002	0.002	0.039	0.071	0.033	0.035	0.038	0.053	0.026	0.027	0.033	0.038
WHITENH	24,855	24,835	2,186	2,024	2,224	2,315	1,070	944	1,993	2,022	2,188	2,244
	20	28	108	194	90	128	60	139	55	62	68	88
	0.001	0.001	0.049	0.096	0.040	0.055	0.056	0.148	0.028	0.031	0.031	0.039
BLACKNH	5,721	5,734	276	318	189	139	1,171	1,243	355	345	195	177
	24	27	32	53	29	58	74	103	42	43	31	36
	0.004	0.005	0.115	0.166	0.155	0.415	0.063	0.083	0.117	0.124	0.161	0.205
AIANNH	247	250	13	0	8	8	19	5	14	20	13	21
	28	28	7	15	8	8	9	16	7	9	8	12
	0.113	0.113	0.567	Inf	0.890	0.940	0.454	3.264	0.475	0.451	0.669	0.567
ASIANNH	92	94	7	5	5	4	7	4	7	12	6	13
	22	22	7	7	5	5	5	6	4	7	6	9
	0.241	0.237	0.954	1.482	0.942	1.295	0.767	1.549	0.646	0.573	0.900	0.676
HPINH	8	8	0	0	0	1	1	3	0	1	0	0
	9	9	1	1	1	1	3	3	1	2	0	0
	1.152	1.164	4.899	Inf	3.824	1.039	1.784	1.015	3.012	1.536	3.391	Inf
OTHERNH	61	64	4	4	4	1	6	5	4	5	4	4
	20	20	4	4	6	7	5	5	3	4	5	5
	0.330	0.317	0.846	0.880	1.550	6.669	0.873	1.017	0.880	0.714	1.125	1.170
MLTMNH	121	71	5	4	3	0	15	5	42	5	7	1
	35	61	4	4	4	5	11	15	16	40	5	8
	0.291	0.858	0.740	1.038	1.439	Inf	0.741	2.999	0.394	8.028	0.695	8.015
HISP18	376	365	27	33	23	20	37	31	42	48	21	29
	36	37	9	11	14	14	16	17	16	17	10	13
	0.095	0.102	0.322	0.324	0.611	0.699	0.442	0.555	0.373	0.350	0.468	0.442
NONHISP18	22,871	22,831	1,821	1,751	1,794	1,799	1,709	1,644	1,794	1,791	1,852	1,892
	52	66	62	93	54	55	75	100	56	56	63	74
	0.002	0.003	0.034	0.053	0.030	0.030	0.044	0.061	0.031	0.031	0.034	0.039
WHITENH18	18,680	18,679	1,623	1,533	1,681	1,721	858	781	1,532	1,553	1,700	1,738
	16	16	67	112	57	70	49	91	50	54	52	64
	0.001	0.001	0.041	0.073	0.034	0.041	0.057	0.117	0.033	0.035	0.030	0.037
BLACKNH18	3,837	3,838	177	209	98	68	820	850	211	207	131	123
	21	21	26	41	23	38	65	72	42	42	24	26
	0.005	0.005	0.146	0.197	0.237	0.560	0.080	0.085	0.199	0.204	0.184	0.208
AIANNH18	165	162	8	0	6	5	11	2	9	13	7	15
	21	21	6	10	6	6	6	11	6	7	6	10
	0.124	0.128	0.776	Inf	0.972	1.166	0.535	5.535	0.699	0.573	0.823	0.652
ASIANNH18	59	62	5	3	4	3	4	2	5	9	4	11
	17	17	6	7	4	4	4	4	4	6	4	8
	0.286	0.276	1.118	2.184	1.041	1.313	0.905	2.042	0.807	0.629	0.964	0.712
HPINH18	6	7	0	0	0	1	1	2	0	1	0	0
	9	9	1	1	0	1	3	3	1	2	0	0
	1.568	1.294	4.899	Inf	4.899	0.980	2.079	1.378	3.839	1.523	3.391	Inf
OTHERNH18	42	43	3	2	4	1	5	5	2	5	4	4
	14	14	3	3	6	6	4	4	3	4	5	5
	0.334	0.330	0.971	1.640	1.625	6.251	0.884	0.856	1.268	0.794	1.218	1.135
MLTMNH18	83	40	4	4	2	0	10	2	34	3	6	1
	24	49	4	4	4	4	8	12	13	34	4	6
	0.285	1.235	0.914	0.951	2.047	Inf	0.812	5.957	0.381	11.341	0.701	6.000
AVERV	0.245	0.308	0.888	Inf	1.048	Inf	0.552	1.371	0.679	1.366	0.764	Inf
MEDRV	0.104	0.108	0.444	0.602	0.750	0.820	0.448	0.718	0.377	0.400	0.568	0.504

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.14.a (Part 2). Counts & Measures of Variation for Jefferson Davis Parish, LA Twenty-five Runs of the TDA for County Districts 06, 07, 08, 09
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Jefferson	Davis	06	06	07	07	08	08	09	09
TOTAL	31,667	31,594	2,134	2,152	2,572	2,529	2,355	2,308	2,374	2,381
	44	85	79	81	54	69	69	83	44	44
	0.001	0.003	0.037	0.038	0.021	0.027	0.029	0.036	0.018	0.019
TOTAL18	23,247	23,196	1,527	1,548	1,878	1,856	1,708	1,668	1,702	1,699
	46	69	75	78	45	50	50	64	41	41
	0.002	0.003	0.049	0.051	0.024	0.027	0.029	0.038	0.024	0.024
TOTALHISP	563	538	44	37	48	42	36	37	52	35
	37	45	15	16	15	16	17	17	16	23
	0.066	0.083	0.337	0.436	0.313	0.391	0.482	0.466	0.307	0.659
TOTALNH	31,104	31,056	2,091	2,115	2,523	2,487	2,319	2,271	2,322	2,346
	54	72	76	80	55	66	69	84	46	52
	0.002	0.002	0.036	0.038	0.022	0.026	0.030	0.037	0.020	0.022
WHITENH	24,855	24,835	935	950	2,151	2,175	2,154	2,164	1,650	1,668
	20	28	48	50	45	51	53	54	44	47
	0.001	0.001	0.051	0.053	0.021	0.023	0.025	0.025	0.026	0.028
BLACKNH	5,721	5,734	1,119	1,129	332	287	142	86	594	582
	24	27	50	51	40	60	30	64	14	18
	0.004	0.005	0.044	0.045	0.119	0.210	0.211	0.742	0.023	0.032
AIANNH	247	250	13	20	21	15	12	13	62	62
	28	28	12	14	9	10	10	10	12	12
	0.113	0.113	0.900	0.687	0.412	0.694	0.838	0.759	0.192	0.190
ASIANNH	92	94	10	7	9	9	4	3	6	8
	22	22	7	8	8	8	5	5	5	6
	0.241	0.237	0.670	1.113	0.851	0.855	1.533	1.828	0.901	0.708
HPINH	8	8	2	0	1	0	1	0	1	1
	9	9	4	5	2	2	3	3	2	2
	1.152	1.164	2.448	Inf	2.792	Inf	3.690	Inf	2.831	2.383
OTHERNH	61	64	4	0	4	1	3	2	4	6
	20	20	5	6	3	4	4	4	5	6
	0.330	0.317	1.196	Inf	0.829	4.368	1.294	2.035	1.275	0.936
MLTMNH	121	71	7	9	5	0	4	3	6	19
	35	61	6	6	4	6	4	5	6	15
	0.291	0.858	0.776	0.667	0.685	Inf	1.079	1.545	1.019	0.763
HISP18	376	365	32	25	32	24	23	21	34	23
	36	37	12	14	12	14	15	15	16	19
	0.095	0.102	0.376	0.556	0.387	0.599	0.624	0.703	0.476	0.840
NONHISP18	22,871	22,831	1,495	1,523	1,846	1,832	1,685	1,647	1,668	1,676
	52	66	73	78	48	50	47	60	41	42
	0.002	0.003	0.049	0.051	0.026	0.027	0.028	0.037	0.025	0.025
WHITENH18	18,680	18,679	703	716	1,620	1,643	1,584	1,579	1,182	1,195
	16	16	46	47	37	44	40	40	36	39
	0.001	0.001	0.065	0.066	0.023	0.027	0.025	0.025	0.031	0.032
BLACKNH18	3,837	3,838	770	782	202	173	88	55	428	420
	21	21	39	41	31	43	19	38	11	13
	0.005	0.005	0.051	0.052	0.155	0.248	0.220	0.690	0.025	0.032
AIANNH18	165	162	8	10	12	8	7	7	49	48
	21	21	9	9	7	8	7	7	9	9
	0.124	0.128	1.105	0.903	0.599	0.988	0.945	0.945	0.183	0.186
ASIANNH18	59	62	6	7	6	7	2	1	3	3
	17	17	5	5	6	7	5	5	4	4
	0.286	0.276	0.869	0.737	1.023	0.929	2.128	5.111	1.365	1.439
HPINH18	6	7	1	0	1	0	1	0	1	1
	9	9	4	4	2	2	2	2	2	2
	1.568	1.294	3.520	Inf	2.901	Inf	4.522	Inf	3.448	2.366
OTHERNH18	42	43	3	0	3	1	2	2	3	5
	14	14	3	4	3	4	2	2	4	4
	0.334	0.330	1.187	Inf	1.173	3.805	1.244	1.170	1.315	0.896
MLTMNH18	83	40	4	8	2	0	2	3	3	4
	24	49	4	6	3	4	3	3	4	4
	0.285	1.235	1.030	0.720	1.251	Inf	1.653	1.011	1.237	0.990
AVERV	0.245	0.308	0.740	Inf	0.681	Inf	1.031	Inf	0.737	0.629
MEDRV	0.104	0.108	0.523	0.611	0.400	0.647	0.731	0.751	0.249	0.425

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.14.a (Part 3). Counts & Measures of Variation for Jefferson Davis Parish, LA Twenty-five Runs of the TDA
for County Districts 10, 11, 12, 13
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Jefferson Davis		10	10	11	11	12	12	13	13
TOTAL	31,667	31,594	2,434	2,500	2,644	2,521	2,428	2,559	2,461	2,519
	44	85	70	96	71	142	64	146	59	83
	0.001	0.003	0.029	0.038	0.027	0.056	0.027	0.057	0.024	0.033
TOTAL18	23,247	23,196	1,819	1,868	1,902	1,817	1,804	1,897	1,787	1,805
	46	69	56	74	65	107	64	113	46	49
	0.002	0.003	0.031	0.040	0.034	0.059	0.036	0.060	0.026	0.027
TOTALHISP	563	538	43	35	41	38	29	33	47	58
	37	45	22	23	14	15	9	10	12	16
	0.066	0.083	0.506	0.659	0.344	0.383	0.315	0.302	0.258	0.282
TOTALNH	31,104	31,056	2,391	2,465	2,603	2,483	2,399	2,526	2,414	2,461
	54	72	69	101	74	141	65	143	63	78
	0.002	0.002	0.029	0.041	0.029	0.057	0.027	0.057	0.026	0.032
WHITENH	24,855	24,835	2,043	2,021	1,968	1,910	2,080	2,136	2,213	2,262
	20	28	46	51	60	84	49	74	56	75
	0.001	0.001	0.023	0.025	0.031	0.044	0.024	0.035	0.025	0.033
BLACKNH	5,721	5,734	305	390	594	540	288	353	161	145
	24	27	34	91	32	63	31	72	30	34
	0.004	0.005	0.111	0.234	0.054	0.116	0.106	0.204	0.187	0.236
AIANNH	247	250	19	25	20	23	15	14	19	24
	28	28	12	13	10	11	9	9	11	12
	0.113	0.113	0.614	0.525	0.507	0.462	0.608	0.638	0.581	0.503
ASIANNH	92	94	10	9	8	5	7	9	6	6
	22	22	6	6	6	7	6	6	5	5
	0.241	0.237	0.639	0.685	0.718	1.349	0.861	0.699	0.921	0.909
HPINH	8	8	1	0	0	0	0	2	1	0
	9	9	2	2	0	1	1	2	2	2
	1.152	1.164	3.177	Inf	2.449	Inf	2.121	0.906	2.610	Inf
OTHERNH	61	64	6	7	7	2	3	10	8	17
	20	20	7	7	8	9	3	8	6	11
	0.330	0.317	1.059	0.972	1.222	4.579	1.058	0.770	0.786	0.650
MLTMNH	121	71	7	13	6	3	6	2	7	7
	35	61	8	9	5	6	4	6	6	6
	0.291	0.858	1.016	0.722	0.844	1.929	0.707	3.035	0.832	0.804
HISP18	376	365	27	25	29	27	20	21	32	38
	36	37	14	14	9	10	8	8	11	13
	0.095	0.102	0.515	0.550	0.326	0.353	0.396	0.375	0.345	0.332
NONHISP18	22,871	22,831	1,793	1,843	1,874	1,790	1,784	1,876	1,755	1,767
	52	66	53	73	66	107	64	112	49	50
	0.002	0.003	0.030	0.040	0.035	0.060	0.036	0.060	0.028	0.028
WHITENH18	18,680	18,679	1,558	1,555	1,458	1,418	1,567	1,611	1,615	1,636
	16	16	39	39	50	64	51	67	38	44
	0.001	0.001	0.025	0.025	0.034	0.045	0.033	0.042	0.024	0.027
BLACKNH18	3,837	3,838	208	252	392	353	198	248	114	98
	21	21	23	50	29	48	26	56	23	28
	0.005	0.005	0.110	0.198	0.075	0.137	0.130	0.227	0.197	0.284
AIANNH18	165	162	13	17	12	12	9	8	14	17
	21	21	9	10	9	9	9	9	9	10
	0.124	0.128	0.681	0.568	0.725	0.755	0.925	1.079	0.660	0.564
ASIANNH18	59	62	5	5	6	4	4	4	3	3
	17	17	6	6	6	6	4	4	4	4
	0.286	0.276	1.131	1.150	0.941	1.473	1.059	0.997	1.054	1.233
HPINH18	6	7	0	0	0	0	0	2	0	0
	9	9	0	0	0	0	1	2	1	1
	1.568	1.294	NaN	NaN	3.391	Inf	2.373	0.922	3.839	Inf
OTHERNH18	42	43	5	5	2	1	2	2	5	10
	14	14	6	6	4	5	3	3	5	7
	0.334	0.330	1.288	1.247	1.767	4.626	1.406	1.296	0.875	0.660
MLTMNH18	83	40	4	9	4	2	4	1	4	3
	24	49	6	8	4	5	3	5	4	4
	0.285	1.235	1.444	0.860	1.208	2.258	0.799	4.841	1.215	1.471
AVERV	0.245	0.308	NaN	NaN	0.738	Inf	0.652	0.830	0.726	Inf
MEDRV	0.104	0.108	NA	NA	0.425	0.423	0.502	0.506	0.463	0.418

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.15. New Bern (Craven County), NC Run A of Twenty-five Runs of the *TDA*
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{29,524}{6} = 4,920.7 \quad TDA \text{ IDEAL POPULATION} = \frac{29,228}{6} = 4,871.3$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan							Counts & Percentages Run A of the <i>TDA</i>						
	Bern	01	02	03	04	05	06	Bern	01	02	03	04	05	06
DIST-ID														
TOTAL	29,524	4,568	5,288	4,636	5,006	5,043	4,983	29,228	4,877	5,076	4,697	4,831	4,984	4,763
DEV		-352.7	367.3	-284.7	85.3	122.3	62.3		5.7	204.7	-174.3	-40.3	112.7	-108.3
DEVP		-7.17	7.46	-5.79	1.73	2.49	1.27		0.12	4.20	-3.58	-0.83	2.31	-2.22
TOTAL18	22,778	3,643	3,961	3,597	3,849	3,585	4,143	22,604	3,821	3,785	3,677	3,760	3,602	3,959
TOTALHISP	1,712	181	187	189	433	559	163	1,645	200	175	214	547	388	121
TOTALHISPP	5.80	3.96	3.54	4.08	8.65	11.08	3.27	5.63	4.10	3.45	4.56	11.32	7.78	2.54
TOTALNH	27,812	4,387	5,101	4,447	4,573	4,484	4,820	27,583	4,677	4,901	4,483	4,284	4,596	4,642
TOTALNHP	94.20	96.04	96.46	95.92	91.35	88.92	96.73	94.37	95.90	96.55	95.44	88.68	92.22	97.46
WHITENH	16,400	2,353	1,760	3,730	2,705	1,882	3,970	16,241	2,421	1,709	3,669	2,597	1,999	3,846
WHITENHP	55.55	51.51	33.28	80.46	54.04	37.32	79.67	55.57	49.64	33.67	78.11	53.76	40.11	80.75
BLACKNH	9,885	1,854	2,967	543	1,580	2,282	659	9,887	1,985	2,853	646	1,478	2,299	626
BLACKNHP	33.48	40.59	56.11	11.71	31.56	45.25	13.22	33.83	40.70	56.21	13.75	30.59	46.13	13.14
AIANNH	157	15	29	24	31	32	26	188	61	14	22	14	27	50
AIANNHP	0.53	0.33	0.55	0.52	0.62	0.63	0.52	0.64	1.25	0.28	0.47	0.29	0.54	1.05
ASIANNH	1,178	139	297	132	231	250	129	1,060	131	275	130	185	239	100
ASIANNHP	3.99	3.04	5.62	2.85	4.61	4.96	2.59	3.63	2.69	5.42	2.77	3.83	4.80	2.10
HPINH	36	2	4	9	2	5	14	17	11	3	1	0	1	1
HPINHP	0.12	0.04	0.08	0.19	0.04	0.10	0.28	0.06	0.23	0.06	0.02	0.00	0.02	0.02
OTHERNH	24	4	5	2	4	4	5	34	9	1	7	2	8	7
OTHERNHP	0.08	0.09	0.09	0.04	0.08	0.08	0.10	0.12	0.18	0.02	0.15	0.04	0.16	0.15
MLTMNH	132	20	39	7	20	29	17	156	59	46	8	8	23	12
MLTMNHP	0.45	0.44	0.74	0.15	0.40	0.58	0.34	0.53	1.21	0.91	0.17	0.17	0.46	0.25
HISP18	1,063	136	123	107	249	341	107	1,009	125	88	165	293	257	81
HISP18P	4.67	3.73	3.11	2.97	6.47	9.51	2.58	4.46	3.27	2.32	4.49	7.79	7.13	2.05
NONHISP18	21,715	3,507	3,838	3,490	3,600	3,244	4,036	21,595	3,696	3,697	3,512	3,467	3,345	3,878
NONHISP18P	95.33	96.27	96.89	97.03	93.53	90.49	97.42	95.54	96.73	97.68	95.51	92.21	92.87	97.95
WHITENH18	13,756	2,053	1,490	2,955	2,276	1,538	3,444	13,645	2,107	1,463	2,909	2,199	1,615	3,352
WHITENH18P	60.39	56.35	37.62	82.15	59.13	42.9	83.13	60.37	55.14	38.65	79.11	58.48	44.84	84.67
BLACKNH18	7,006	1,356	2,115	418	1,136	1,522	459	7,033	1,434	2,045	486	1,120	1,536	412
BLACKNH18P	30.76	37.22	53.40	11.62	29.51	42.45	11.08	31.11	37.53	54.03	13.22	29.79	42.64	10.41
AIANNH18	115	10	20	19	21	27	18	141	39	9	19	7	17	50
AIANNH18P	0.50	0.27	0.50	0.53	0.55	0.75	0.43	0.62	1.02	0.24	0.52	0.19	0.47	1.26
ASIANNH18	724	72	184	88	148	141	91	634	63	138	91	133	150	59
ASIANNH18P	3.18	1.98	4.65	2.45	3.85	3.93	2.20	2.80	1.65	3.65	2.47	3.54	4.16	1.49
HPINH18	23	2	4	3	2	3	9	15	11	3	0	0	0	1
HPINH18P	0.10	0.05	0.10	0.08	0.05	0.08	0.22	0.07	0.29	0.08	0.00	0.00	0.00	0.03
OTHERNH18	11	3	1	2	1	1	3	22	8	0	4	2	8	0
OTHERNH18P	0.05	0.08	0.03	0.06	0.03	0.03	0.07	0.10	0.21	0.00	0.11	0.05	0.22	0.00
MLTMNH18	80	11	24	5	16	12	12	105	34	39	3	6	19	4
MLTMNH18P	0.35	0.30	0.61	0.14	0.42	0.33	0.29	0.46	0.89	1.03	0.08	0.16	0.53	0.10

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.15:

- 1: New Bern has WHITENHP = 55.55% and BLACKNHP = 33.48% for the 2010 Census; and WHITENHP = 55.57% and BLACKNHP = 33.83% for the *TDA* run. Similar results for 18+ population.
- 2: For four of the six districts, WHITENHP > 50.00% for the 2010 Census and for three districts from the *TDA* run. Similar results for 18+ population.
- 3: One of the six districts has BLACKNHP > 50.00% for the 2010 Census and for the *TDA* run. Similar results for 18+ population.

Table VII.15.a. Counts & Measures of Variation for New Bern (Craven County), NC Twenty-five Runs of the TDA
for Districts 01, 02, 03, 04, 05, 06
($\epsilon = 4$)

DIST-ID	(Measures of Variation)													
	New Bern		01	01	02	02	03	03	04	04	05	05	06	06
TOTAL	29,285	29,524	4,713	4,568	5,180	5,288	4,677	4,636	4,864	5,006	4,926	5,043	4,925	4,983
	96	257	109	181	79	134	74	84	59	154	101	155	67	88
	0.003	0.009	0.023	0.040	0.015	0.025	0.016	0.018	0.012	0.031	0.021	0.031	0.014	0.018
TOTAL18	22,661	22,778	3,702	3,643	3,907	3,961	3,628	3,597	3,770	3,849	3,556	3,585	4,099	4,143
	71	137	92	109	67	87	75	81	64	102	84	89	64	78
	0.003	0.006	0.025	0.030	0.017	0.022	0.021	0.023	0.017	0.026	0.023	0.025	0.016	0.019
TOTALHISP	1,597	1,712	220	181	211	187	209	189	385	433	418	559	154	163
	73	136	30	49	30	38	29	35	52	71	48	149	27	28
	0.046	0.080	0.135	0.271	0.141	0.206	0.141	0.187	0.135	0.164	0.115	0.266	0.174	0.173
TOTALNH	27,688	27,812	4,493	4,387	4,969	5,101	4,469	4,447	4,479	4,573	4,508	4,484	4,771	4,820
	92	154	111	154	79	153	74	77	64	114	99	101	63	80
	0.003	0.006	0.025	0.035	0.016	0.030	0.017	0.017	0.014	0.025	0.022	0.023	0.013	0.017
WHITENH	16,340	16,400	2,347	2,353	1,763	1,760	3,675	3,730	2,644	2,705	1,989	1,882	3,921	3,970
	91	109	66	66	46	46	68	87	49	78	72	129	46	67
	0.006	0.007	0.028	0.028	0.026	0.026	0.018	0.023	0.019	0.029	0.036	0.069	0.012	0.017
BLACKNH	9,896	9,885	1,926	1,854	2,870	2,967	636	543	1,564	1,580	2,227	2,282	672	659
	69	70	67	99	63	115	49	105	49	51	69	88	43	45
	0.007	0.007	0.035	0.053	0.022	0.039	0.077	0.194	0.031	0.032	0.031	0.039	0.064	0.068
AIANNH	179	157	32	15	27	29	22	24	34	31	37	32	26	26
	25	33	15	23	11	11	13	13	16	16	13	14	11	11
	0.138	0.208	0.472	1.533	0.399	0.380	0.576	0.538	0.462	0.525	0.367	0.442	0.409	0.406
ASIANNH	1,072	1,178	130	139	275	297	113	132	207	231	219	250	127	129
	52	118	21	23	31	38	22	29	26	36	22	38	31	31
	0.048	0.100	0.161	0.164	0.112	0.127	0.193	0.219	0.128	0.154	0.101	0.152	0.244	0.241
HPINH	35	36	10	2	6	4	5	9	5	2	5	5	5	14
	18	18	8	11	6	6	6	8	6	7	4	4	5	10
	0.502	0.491	0.821	5.475	0.946	1.492	1.329	0.842	1.121	3.413	0.766	0.720	0.994	0.734
OTHERNH	41	24	12	4	6	5	5	2	6	4	8	4	4	5
	17	24	9	12	5	5	6	7	6	6	6	8	4	4
	0.402	0.998	0.799	2.996	0.954	1.076	1.100	3.394	0.915	1.595	0.775	1.940	0.949	0.780
MLTMNH	125	132	36	20	21	39	12	7	18	20	23	29	15	17
	25	26	13	21	12	22	7	9	10	10	13	14	9	9
	0.204	0.200	0.371	1.036	0.585	0.556	0.609	1.271	0.541	0.496	0.548	0.481	0.581	0.527
HISP18	982	1,063	142	136	137	123	119	107	221	249	267	341	96	107
	77	111	24	25	27	30	28	30	41	50	38	83	16	19
	0.078	0.105	0.168	0.181	0.197	0.247	0.236	0.283	0.186	0.199	0.144	0.244	0.167	0.182
NONHISP18	21,678	21,715	3,560	3,507	3,770	3,838	3,509	3,490	3,548	3,600	3,288	3,244	4,003	4,036
	85	92	91	106	61	91	76	79	56	76	77	89	63	72
	0.004	0.004	0.026	0.030	0.016	0.024	0.022	0.023	0.016	0.021	0.023	0.027	0.016	0.018
WHITENH18	13,741	13,756	2,059	2,053	1,491	1,490	2,934	2,955	2,244	2,276	1,610	1,538	3,404	3,444
	83	85	49	49	37	37	65	69	48	57	54	90	36	54
	0.006	0.006	0.024	0.024	0.024	0.025	0.022	0.023	0.021	0.025	0.033	0.058	0.011	0.016
BLACKNH18	7,036	7,006	1,374	1,356	2,063	2,115	474	418	1,136	1,136	1,508	1,522	481	459
	52	60	61	64	49	71	39	68	34	34	53	55	41	47
	0.007	0.009	0.045	0.047	0.024	0.034	0.082	0.163	0.030	0.030	0.035	0.036	0.086	0.101
AIANNH18	132	115	24	10	20	20	18	19	25	21	25	27	19	18
	24	29	13	19	9	9	12	12	13	13	12	12	11	11
	0.183	0.255	0.537	1.943	0.475	0.465	0.648	0.625	0.519	0.640	0.479	0.455	0.558	0.602
ASIANNH18	663	724	72	72	177	184	73	88	129	148	127	141	85	91
	34	70	18	18	23	24	16	22	25	32	19	24	29	30
	0.051	0.097	0.243	0.243	0.132	0.133	0.223	0.249	0.195	0.214	0.152	0.169	0.344	0.328
HPINH18	22	23	7	2	3	4	1	3	4	2	3	3	3	9
	13	13	7	8	4	4	2	3	4	5	3	3	4	7
	0.591	0.564	0.950	4.133	1.168	1.004	1.852	0.989	1.106	2.343	1.079	1.079	1.274	0.787
OTHERNH18	19	11	7	3	2	1	3	2	3	1	3	1	1	3
	12	14	8	9	4	4	4	5	4	5	4	5	2	3
	0.641	1.301	1.240	3.043	1.837	3.888	1.389	2.302	1.545	4.686	1.260	4.656	2.081	0.914
MLTMNH18	66	80	18	11	14	24	5	5	8	16	12	12	10	12
	21	25	10	12	10	15	5	5	7	11	8	8	7	7
	0.316	0.314	0.539	1.080	0.747	0.605	1.046	1.029	0.951	0.691	0.645	0.647	0.724	0.616
AVERV	0.162	0.238	0.333	1.119	0.393	0.520	0.481	0.621	0.398	0.767	0.333	0.578	0.436	0.328
MEDRV	0.050	0.099	0.165	0.212	0.137	0.169	0.208	0.234	0.160	0.181	0.129	0.207	0.209	0.211

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.16. Galveston County Cons, TX Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{291,309}{5} = 58,261.8 \quad TDA \text{ IDEAL POPULATION} = \frac{291,061}{5} = 58,212.2$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	G Cons	01	02	03	04	05	G Cons	01	02	03	04	05
TOTAL	291,309	88,852	83,092	84,740	32,208	2,417	291,061	88,846	83,167	84,419	32,147	2,482
DEV		30,590.2	24,830.2	26,478.2	-26,053.8	-55,844.8		30,633.8	24,954.8	26,206.8	-26,065.2	-55,730.2
DEVP		52.50	42.62	45.45	-44.72	-95.85		52.62	42.87	45.02	-44.78	-95.74
TOTAL18	217,142	63,408	61,170	65,934	24,584	2,046	216,971	63,387	61,193	65,709	24,639	2,043
TOTALHISP	65,270	15,942	20,741	23,426	4,808	353	65,183	15,954	20,948	23,114	4,810	357
TOTALHISPP	22.41	17.94	24.96	27.64	14.93	14.60	22.39	17.96	25.19	27.38	14.96	14.38
TOTALNH	226,039	72,910	62,351	61,314	27,400	2,064	225,878	72,892	62,219	61,305	27,337	2,125
TOTALNHP	77.59	82.06	75.04	72.36	85.07	85.40	77.61	82.04	74.81	72.62	85.04	85.62
WHITENH	172,652	60,149	52,036	33,119	25,386	1,962	172,666	60,364	51,755	33,353	25,195	1,999
WHITENHP	59.27	67.70	62.62	39.08	78.82	81.18	59.32	67.94	62.23	39.51	78.37	80.54
BLACKNH	40,332	6,789	6,925	25,181	1,420	17	40,369	6,854	7,214	24,703	1,580	18
BLACKNHP	13.85	7.64	8.33	29.72	4.41	0.70	13.87	7.71	8.67	29.26	4.91	0.73
AIANNH	2,099	582	579	631	254	53	2,111	544	613	694	202	58
AIANNHP	0.72	0.66	0.70	0.74	0.79	2.19	0.73	0.61	0.74	0.82	0.63	2.34
ASIANNH	9,546	4,886	2,440	1,962	234	24	9,477	4,865	2,319	2,016	249	28
ASIANNHP	3.28	5.50	2.94	2.32	0.73	0.99	3.26	5.48	2.79	2.39	0.77	1.13
HPINH	225	83	46	66	30	0	215	38	55	90	32	0
HPINH18P	0.08	0.09	0.06	0.08	0.09	0.00	0.07	0.04	0.07	0.11	0.10	0.00
OTHERNH	553	200	185	124	40	4	525	167	116	179	63	0
OTHERNHP	0.19	0.23	0.22	0.15	0.12	0.17	0.18	0.19	0.14	0.21	0.20	0.00
MLTMNH	632	221	140	231	36	4	515	60	147	270	16	22
MLTMNHP	0.22	0.25	0.17	0.27	0.11	0.17	0.18	0.07	0.18	0.32	0.05	0.89
HISP18	42,649	10,025	13,060	16,149	3,200	215	42,625	10,059	13,203	15,914	3,266	183
HISP18P	19.64	15.81	21.35	24.49	13.02	10.51	19.65	15.87	21.58	24.22	13.26	8.96
NONHISP18	174,493	53,383	48,110	49,785	21,384	1,831	174,346	53,328	47,990	49,795	21,373	1,860
NONHISP18P	80.36	84.19	78.65	75.51	86.98	89.49	80.35	84.13	78.42	75.78	86.74	91.04
WHITENH18	136,259	44,713	40,864	28,904	20,023	1,755	136,277	44,880	40,609	29,092	19,909	1,787
WHITENH18P	62.75	70.52	66.80	43.84	81.45	85.78	62.81	70.80	66.36	44.27	80.80	87.47
BLACKNH18	28,716	4,570	4,782	18,429	921	14	28,720	4,541	5,041	18,090	1,032	16
BLACKNH18P	13.22	7.21	7.82	27.95	3.75	0.68	13.24	7.16	8.24	27.53	4.19	0.78
AIANNH18	1,652	422	482	503	203	42	1,646	388	489	571	164	34
AIANNH18P	0.76	0.67	0.79	0.76	0.83	2.05	0.76	0.61	0.80	0.87	0.67	1.66
ASIANNH18	6,941	3,376	1,745	1,637	168	15	6,926	3,370	1,684	1,685	165	22
ASIANNH18P	3.20	5.32	2.85	2.48	0.68	0.73	3.19	5.32	2.75	2.56	0.67	1.08
HPINH18	160	54	40	46	20	0	162	31	34	65	32	0
HPINH18P	0.07	0.09	0.07	0.07	0.08	0.00	0.07	0.05	0.06	0.10	0.13	0.00
OTHERNH18	367	119	120	95	30	3	344	98	65	126	55	0
OTHERNH18P	0.17	0.19	0.20	0.14	0.12	0.15	0.16	0.15	0.11	0.19	0.22	0.00
MLTMNH18	398	129	77	171	19	2	271	20	68	166	16	1
MLTMNH18P	0.18	0.20	0.13	0.26	0.08	0.10	0.12	0.03	0.11	0.25	0.06	0.05

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.16:

- Galveston (Cons) has TOTALHISPP = 22.41%, WHITENHP = 59.27%, and BLACKNHP = 13.85% for the 2010 Census; and TOTALHISPP = 22.39%, WHITENHP = 59.32% and BLACKNHP = 13.87% for the *TDA* run. Similar results for 18⁺ population.
- For four of the five districts, WHITENHP > 60.00% for the 2010 Census and for the *TDA* run. Similar results for 18⁺ population.

Table VII.16.a. Counts & Measures of Variation for Galveston County Cons, TX Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Galveston Cons		01	01	02	02	03	03	04	04	05	05
TOTAL	291,146 69 0.000	291,309 177 0.001	88,762 140 0.002	88,852 166 0.002	83,051 151 0.002	83,092 157 0.002	84,628 206 0.002	84,740 234 0.003	32,262 113 0.003	32,208 125 0.004	2,444 27 0.011	2,417 38 0.016
TOTAL18	217,019 53 0.000	217,142 134 0.001	63,372 104 0.002	63,408 111 0.002	61,210 146 0.002	61,170 151 0.002	65,805 181 0.003	65,934 222 0.003	24,578 101 0.004	24,584 101 0.004	2,054 23 0.011	2,046 25 0.012
TOTALHISP	65,163 60 0.001	65,270 123 0.002	15,884 126 0.008	15,942 138 0.009	20,986 140 0.007	20,741 282 0.014	23,163 150 0.006	23,426 303 0.013	4,785 62 0.013	4,808 66 0.014	344 37 0.108	353 38 0.108
TOTALNH	225,983 77 0.000	226,039 95 0.000	72,878 120 0.002	72,910 125 0.002	62,064 173 0.003	62,351 335 0.005	61,465 190 0.003	61,314 242 0.004	27,477 117 0.004	27,400 141 0.005	2,100 28 0.013	2,064 45 0.022
WHITENH	172,692 25 0.000	172,652 47 0.000	60,297 70 0.001	60,149 163 0.003	51,786 94 0.002	52,036 267 0.005	33,358 100 0.003	33,119 259 0.008	25,279 61 0.002	25,386 123 0.005	1,973 16 0.008	1,962 19 0.010
BLACKNH	40,383 24 0.001	40,332 57 0.001	6,859 45 0.007	6,789 84 0.012	7,049 125 0.018	6,925 176 0.025	24,834 124 0.005	25,181 368 0.015	1,611 57 0.036	1,420 200 0.141	30 15 0.517	17 20 1.163
AIANNH	2,101 21 0.010	2,099 21 0.010	610 38 0.063	582 48 0.082	579 43 0.075	579 43 0.075	640 50 0.078	631 51 0.081	221 31 0.141	254 46 0.179	51 16 0.313	53 16 0.303
ASIANNH	9,550 31 0.003	9,546 32 0.003	4,805 62 0.013	4,886 102 0.021	2,354 47 0.020	2,440 98 0.040	2,089 70 0.034	1,962 145 0.074	272 49 0.179	234 62 0.263	30 13 0.418	24 14 0.580
HPINH	211 23 0.109	225 27 0.119	48 15 0.311	83 38 0.457	48 18 0.380	46 18 0.402	97 20 0.209	66 37 0.563	16 12 0.755	30 19 0.619	2 4 2.155	0 4 Inf
OTHERNH	553 22 0.040	553 22 0.040	158 35 0.221	200 55 0.274	145 28 0.195	185 49 0.265	197 39 0.197	124 83 0.670	47 22 0.479	40 23 0.585	6 10 1.695	4 10 2.553
MLTMNH	493 51 0.104	632 148 0.234	100 32 0.316	221 125 0.564	103 25 0.240	140 44 0.317	249 50 0.202	231 53 0.231	32 16 0.495	36 16 0.452	9 8 0.945	4 10 2.453
HISP18	42,570 57 0.001	42,649 98 0.002	9,997 89 0.009	10,025 93 0.009	13,258 101 0.008	13,060 222 0.017	15,976 133 0.008	16,149 218 0.014	3,137 77 0.024	3,200 99 0.031	202 23 0.114	215 26 0.123
NONHISP18	174,449 52 0.000	174,493 68 0.000	53,375 114 0.002	53,383 114 0.002	47,952 139 0.003	48,110 211 0.004	49,829 168 0.003	49,785 174 0.003	21,441 104 0.005	21,384 119 0.006	1,852 20 0.011	1,831 29 0.016
WHITENH18	136,286 21 0.000	136,259 34 0.000	44,781 70 0.002	44,713 97 0.002	40,718 93 0.002	40,864 173 0.004	29,063 92 0.003	28,904 183 0.006	19,961 55 0.003	20,023 83 0.004	1,763 14 0.008	1,755 16 0.009
BLACKNH18	28,733 19 0.001	28,716 26 0.001	4,597 39 0.009	4,570 48 0.010	4,857 117 0.024	4,782 139 0.029	18,213 112 0.006	18,429 244 0.013	1,045 46 0.044	921 132 0.143	22 12 0.544	14 15 1.042
AIANNH18	1,661 20 0.012	1,652 21 0.013	452 44 0.096	422 53 0.125	482 40 0.084	482 40 0.084	510 50 0.098	503 50 0.100	177 31 0.178	203 41 0.202	40 11 0.271	42 11 0.263
ASIANNH18	6,946 24 0.003	6,941 25 0.004	3,353 51 0.015	3,376 56 0.017	1,701 35 0.021	1,745 56 0.032	1,680 49 0.029	1,637 65 0.040	195 41 0.212	168 50 0.295	17 9 0.523	15 9 0.587
HPINH18	148 17 0.114	160 20 0.128	32 15 0.450	54 26 0.484	35 15 0.440	40 16 0.404	70 17 0.243	46 29 0.641	10 10 0.988	20 14 0.703	1 3 2.916	0 3 Inf
OTHERNH18	361 17 0.048	367 19 0.050	96 24 0.253	119 34 0.282	96 26 0.268	120 35 0.291	132 34 0.260	95 50 0.531	33 15 0.452	30 15 0.500	4 8 2.045	3 8 2.604
MLTMNH18	313 37 0.118	398 92 0.232	63 22 0.349	129 69 0.537	63 22 0.348	77 26 0.339	162 31 0.191	171 32 0.188	20 12 0.576	19 12 0.623	5 5 1.130	2 6 3.053
AVERV	0.028	0.042	0.106	0.145	0.107	0.118	0.079	0.160	0.230	0.239	0.688	Inf
MEDRV	0.002	0.003	0.011	0.014	0.020	0.031	0.019	0.027	0.092	0.161	0.366	0.441

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.17. Galveston County Comm, TX Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{291,309}{4} = 72,827.2 \quad TDA \text{ IDEAL POPULATION} = \frac{291,061}{4} = 72,765.2$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	G Comm	01	02	03	04	G Comm	01	02	03	04
TOTAL	291,309	71,814	72,956	74,679	71,860	291,061	71,579	72,520	74,910	72,052
DEV		-1,013.2	128.8	1,851.8	-967.2		-1,186.2	-245.2	2,144.8	-713.2
DEVP		-1.39	0.18	2.54	-1.33		-1.63	-0.34	2.95	-0.98
TOTAL18	217,142	53,365	55,108	56,976	51,693	216,971	53,292	54,912	57,000	51,767
TOTALHISP	65,270	16,534	12,852	23,543	12,341	65,183	16,632	12,779	23,212	12,560
TOTALHISP18P	22.41	23.02	17.62	31.53	17.17	22.39	23.24	17.62	30.99	17.43
TOTALNH	226,039	55,280	60,104	51,136	59,519	225,878	54,947	59,741	51,698	59,492
TOTALNHP	77.59	76.98	82.38	68.47	82.83	77.61	76.76	82.38	69.01	82.57
WHITENH	172,652	45,548	51,219	25,049	50,836	172,666	45,291	50,985	25,579	50,811
WHITENHP	59.27	63.42	70.21	33.54	70.74	59.32	63.27	70.30	34.15	70.52
BLACKNH	40,332	6,819	5,664	23,777	4,072	40,369	6,821	5,767	23,458	4,323
BLACKNHP	13.85	9.50	7.76	31.84	5.67	13.87	9.53	7.95	31.31	6.00
AIANNH	2,099	508	590	521	480	2,111	523	543	597	448
AIANNHP	0.72	0.71	0.81	0.70	0.67	0.73	0.73	0.75	0.80	0.62
ASIANNH	9,546	2,117	2,314	1,376	3,739	9,477	2,053	2,185	1,545	3,694
ASIANNHP	3.28	2.95	3.17	1.84	5.20	3.26	2.87	3.01	2.06	5.13
HPINH	225	44	75	52	54	215	43	61	74	37
HPINH18P	0.08	0.06	0.10	0.07	0.08	0.07	0.06	0.08	0.10	0.05
OTHERNH	553	133	97	147	176	525	81	119	190	135
OTHERNHP	0.19	0.19	0.13	0.20	0.24	0.18	0.11	0.16	0.25	0.19
MLTMNH	632	111	145	214	162	515	135	81	255	44
MLTMNHP	0.22	0.15	0.20	0.29	0.23	0.18	0.19	0.11	0.34	0.06
HISP18	42,649	10,521	8,475	15,827	7,826	42,625	10,623	8,414	15,634	7,954
HISP18P	19.64	19.72	15.38	27.78	15.14	19.65	19.93	15.32	27.43	15.37
NONHISP18	174,493	42,844	46,633	41,149	43,867	174,346	42,669	46,498	41,366	43,813
NONHISP18P	80.36	80.28	84.62	72.22	84.86	80.35	80.07	84.68	72.57	84.63
WHITENH18	136,259	36,012	40,518	21,754	37,975	136,277	35,874	40,414	22,040	37,949
WHITENH18P	62.75	67.48	73.52	38.18	73.46	62.81	67.32	73.60	38.67	73.31
BLACKNH18	28,716	4,672	3,796	17,522	2,726	28,720	4,733	3,877	17,267	2,843
BLACKNH18P	13.22	8.75	6.89	30.75	5.27	13.24	8.88	7.06	30.29	5.49
AIANNH18	1,652	425	455	418	354	1,646	416	438	463	329
AIANNH18P	0.76	0.80	0.83	0.73	0.68	0.76	0.78	0.80	0.81	0.64
ASIANNH18	6,941	1,544	1,667	1,159	2,571	6,926	1,495	1,569	1,288	2,574
ASIANNH18P	3.20	2.89	3.02	2.03	4.97	3.19	2.81	2.86	2.26	4.97
HPINH18	160	38	49	39	34	162	34	59	38	31
HPINH18P	0.07	0.07	0.09	0.07	0.07	0.07	0.06	0.11	0.07	0.06
OTHERNH18	367	87	66	103	111	344	59	78	129	78
OTHERNH18P	0.17	0.16	0.12	0.18	0.21	0.16	0.11	0.14	0.23	0.15
MLTMNH18	398	66	82	154	96	271	58	63	141	9
MLTMNH18P	0.18	0.12	0.15	0.27	0.19	0.12	0.11	0.11	0.25	0.02

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.17:

- 1: Galveston (Comm) has TOTALHISP18P = 22.41%, WHITENHP = 59.27%, and BLACKNHP = 13.85% for the 2010 Census; and TOTALHISP18P = 22.39%, WHITENHP = 59.32% and BLACKNHP = 13.87% for the *TDA* run. Similar results for 18+ population.
- 2: For three of the four districts, WHITENHP > 60.00% for the 2010 Census and for the *TDA* run. Similar results for 18+ population.

Table VII.17.a. Counts & Measures of Variation for Galveston County Comm, TX Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Galveston Comm		01	01	02	02	03	03	04	04
TOTAL	291,146	291,309	71,612	71,814	72,673	72,956	74,816	74,679	72,046	71,860
	69	177	150	251	145	318	210	250	131	227
	0.000	0.001	0.002	0.003	0.002	0.004	0.003	0.003	0.002	0.003
TOTAL18	217,019	217,142	53,288	53,365	54,902	55,108	57,011	56,976	51,819	51,693
	53	134	166	184	129	244	183	186	121	175
	0.000	0.001	0.003	0.003	0.002	0.004	0.003	0.003	0.002	0.003
TOTALHISP	65,163	65,270	16,707	16,534	12,801	12,852	23,269	23,543	12,386	12,341
	60	123	139	222	136	145	147	311	113	121
	0.001	0.002	0.008	0.013	0.011	0.011	0.006	0.013	0.009	0.010
TOTALNH	225,983	226,039	54,905	55,280	59,871	60,104	51,547	51,136	59,660	59,519
	77	95	122	394	145	274	215	464	142	200
	0.000	0.000	0.002	0.007	0.002	0.005	0.004	0.009	0.002	0.003
WHITENH	172,692	172,652	45,330	45,548	51,030	51,219	25,394	25,049	50,938	50,836
	25	47	87	234	82	206	139	372	97	141
	0.000	0.000	0.002	0.005	0.002	0.004	0.005	0.015	0.002	0.003
BLACKNH	40,383	40,332	6,792	6,819	5,797	5,664	23,546	23,777	4,247	4,072
	24	57	92	96	86	159	108	255	76	191
	0.001	0.001	0.014	0.014	0.015	0.028	0.005	0.011	0.018	0.047
AIANNH	2,101	2,099	500	508	525	590	585	521	490	480
	21	21	48	48	45	79	49	81	36	37
	0.010	0.010	0.095	0.095	0.086	0.134	0.084	0.155	0.072	0.077
ASIANNH	9,550	9,546	2,031	2,117	2,243	2,314	1,544	1,376	3,732	3,739
	31	32	58	104	79	106	70	182	81	82
	0.003	0.003	0.028	0.049	0.035	0.046	0.045	0.132	0.022	0.022
HPINH	211	225	40	44	52	75	80	52	39	54
	23	27	15	15	23	33	18	33	12	19
	0.109	0.119	0.368	0.347	0.442	0.435	0.220	0.637	0.293	0.346
OTHERNH	553	553	119	133	124	97	180	147	130	176
	22	22	29	33	31	41	37	50	35	58
	0.040	0.040	0.247	0.245	0.253	0.425	0.205	0.337	0.269	0.329
MLTMNH	493	632	92	111	100	145	218	214	83	162
	51	148	23	30	26	52	42	42	28	83
	0.104	0.234	0.249	0.269	0.265	0.361	0.191	0.196	0.333	0.515
HISP18	42,570	42,649	10,649	10,521	8,388	8,475	15,680	15,827	7,852	7,826
	57	98	125	179	112	142	131	197	109	112
	0.001	0.002	0.012	0.017	0.013	0.017	0.008	0.012	0.014	0.014
NONHISP18	174,449	174,493	42,638	42,844	46,513	46,633	41,331	41,149	43,967	43,867
	52	68	121	239	131	178	175	252	129	163
	0.000	0.000	0.003	0.006	0.003	0.004	0.004	0.006	0.003	0.004
WHITENH18	136,286	136,259	35,894	36,012	40,424	40,518	21,957	21,754	38,010	37,975
	21	34	66	135	75	120	103	228	86	93
	0.000	0.000	0.002	0.004	0.002	0.003	0.005	0.010	0.002	0.002
BLACKNH18	28,733	28,716	4,671	4,672	3,891	3,796	17,361	17,522	2,811	2,726
	19	26	79	79	63	113	96	188	62	105
	0.001	0.001	0.017	0.017	0.016	0.030	0.006	0.011	0.022	0.039
AIANNH18	1,661	1,652	423	425	418	455	452	418	368	354
	20	21	42	42	42	56	39	52	40	42
	0.012	0.013	0.098	0.098	0.101	0.124	0.086	0.125	0.109	0.120
ASIANNH18	6,946	6,941	1,486	1,544	1,605	1,667	1,233	1,159	2,622	2,571
	24	25	39	70	65	89	55	93	68	85
	0.003	0.004	0.026	0.046	0.040	0.054	0.045	0.080	0.026	0.033
HPINH18	148	160	29	38	33	49	60	39	26	34
	17	20	12	15	18	24	15	26	13	15
	0.114	0.128	0.407	0.394	0.552	0.493	0.253	0.676	0.496	0.446
OTHERNH18	361	367	81	87	80	66	122	103	79	111
	17	19	22	23	23	27	26	32	24	40
	0.048	0.050	0.274	0.264	0.290	0.406	0.212	0.309	0.303	0.361
MLTMNH18	313	398	55	66	62	82	145	154	51	96
	37	92	20	23	22	30	25	27	21	49
	0.118	0.232	0.363	0.345	0.354	0.361	0.176	0.176	0.412	0.515
<i>AVERV</i>	0.028	0.042	0.111	0.112	0.124	0.147	0.078	0.146	0.121	0.145
<i>MEDRV</i>	0.002	0.003	0.022	0.031	0.026	0.038	0.027	0.047	0.022	0.036

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.18. Ector County, TX Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{137,130}{4} = 34,282.5 \quad TDA \text{ IDEAL POPULATION} = \frac{137,028}{4} = 34,257$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan					Counts & Percentages Run A of the <i>TDA</i>				
	Ector	01	02	03	04	Ector	01	02	03	04
TOTAL	137,130	35,035	34,630	33,578	33,887	137,028	35,468	34,534	33,522	33,504
DEV		752.5	347.5	-704.5	-395.5		1,211	277	-735	-753
DEVP		2.19	1.01	-2.05	-1.15		3.54	0.81	-2.15	-2.20
TOTAL18	97,322	24,243	26,375	23,457	23,247	97,199	24,446	26,341	23,430	22,982
TOTALHISP	72,331	18,162	9,479	19,576	25,114	72,252	18,575	9,507	19,669	24,501
TOTALHISPP	52.75	51.84	27.37	58.3	74.11	52.73	52.37	27.53	58.67	73.13
TOTALNH	64,799	16,873	25,151	14,002	8,773	64,776	16,893	25,027	13,853	9,003
TOTALNHP	47.25	48.16	72.63	41.70	25.89	47.27	47.63	72.47	41.33	26.87
WHITENH	56,306	15,716	22,719	12,139	5,732	56,340	15,710	22,708	12,102	5,820
WHITENHP	41.06	44.86	65.60	36.15	16.92	41.12	44.29	65.76	36.10	17.37
BLACKNH	5,988	607	1,335	1,304	2,742	5,933	653	1,302	1,217	2,761
BLACKNHP	4.37	1.73	3.86	3.88	8.09	4.33	1.84	3.77	3.63	8.24
AIANNH	1,067	327	369	252	119	1,099	346	352	259	142
AIANNHP	0.78	0.93	1.07	0.75	0.35	0.80	0.98	1.02	0.77	0.42
ASIANNH	1,130	154	642	254	80	1,084	121	595	192	176
ASIANNHP	0.82	0.44	1.85	0.76	0.24	0.79	0.34	1.72	0.57	0.53
HPINH	117	12	25	15	65	99	18	8	30	43
HPINHP	0.09	0.03	0.07	0.04	0.19	0.07	0.05	0.02	0.09	0.13
OTHERNH	94	33	31	13	17	88	13	39	15	21
OTHERNHP	0.07	0.09	0.09	0.04	0.05	0.06	0.04	0.11	0.04	0.06
MLTMNH	97	24	30	25	18	133	32	23	38	40
MLTMNHP	0.07	0.07	0.09	0.07	0.05	0.10	0.09	0.07	0.11	0.12
HISP18	46,135	11,140	6,245	12,423	16,327	46,071	11,356	6,373	12,436	15,906
HISP18P	47.40	45.95	23.68	52.96	70.23	47.40	46.45	24.19	53.08	69.21
NONHISP18	51,187	13,103	20,130	11,034	6,920	51,128	13,090	19,968	10,994	7,076
NONHISP18P	52.60	54.05	76.32	47.04	29.77	52.60	53.55	75.81	46.92	30.79
WHITENH18	45,265	12,340	18,413	9,814	4,698	45,267	12,281	18,402	9,828	4,756
WHITENH18P	46.51	50.90	69.81	41.84	20.21	46.57	50.24	69.86	41.95	20.69
BLACKNH18	4,043	347	888	811	1,997	4,020	403	822	788	2,007
BLACKNH18P	4.15	1.43	3.37	3.46	8.59	4.14	1.65	3.12	3.36	8.73
AIANNH18	843	254	290	198	101	854	291	264	204	95
AIANNH18P	0.87	1.05	1.10	0.84	0.43	0.88	1.19	1.00	0.87	0.41
ASIANNH18	817	106	473	179	59	762	74	422	121	145
ASIANNH18P	0.84	0.44	1.79	0.76	0.25	0.78	0.30	1.60	0.52	0.63
HPINH18	83	10	20	14	39	59	11	7	17	24
HPINH18P	0.09	0.04	0.08	0.06	0.17	0.06	0.04	0.03	0.07	0.10
OTHERNH18	77	27	25	11	14	85	12	37	15	21
OTHERNH18P	0.08	0.11	0.09	0.05	0.06	0.09	0.05	0.14	0.06	0.09
MLTMNH18	59	19	21	7	12	81	18	14	21	28
MLTMNH18P	0.06	0.08	0.08	0.03	0.05	0.08	0.07	0.05	0.09	0.12

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.18:

- 1:** Ector has TOTALHISPP = 52.75% and WHITENHP = 41.06% for the 2010 Census; and TOTALHISPP = 52.73% and WHITENHP = 41.12% for the *TDA* run.
- 2:** For three of the four districts, TOTALHISPP > 50.00% for the 2010 Census and for the *TDA* run.
- 3:** For two of the four districts for 18⁺ population, WHITENH18P > 50.00% for the 2010 Census and for the *TDA* run.

Table VII.18.a. Counts & Measures of Variation for Ector County, TX Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04
($\epsilon = 4$)

DIST-ID	(Measures of Variation)									
	Ector		01	02	03	04	01	02	03	04
TOTAL	137,019	137,130	35,494	35,035	34,603	34,630	33,510	33,578	33,413	33,887
	69	131	112	472	91	95	136	152	115	488
	0.001	0.001	0.003	0.013	0.003	0.003	0.004	0.005	0.003	0.014
TOTAL18	97,218	97,322	24,462	24,243	26,382	26,375	23,442	23,457	22,932	23,247
	68	124	111	245	77	77	113	114	115	336
	0.001	0.001	0.005	0.010	0.003	0.003	0.005	0.005	0.005	0.014
TOTALHISP	72,268	72,331	18,493	18,162	9,710	9,479	19,536	19,576	24,529	25,114
	63	89	85	341	103	253	126	133	116	596
	0.001	0.001	0.005	0.019	0.011	0.027	0.006	0.007	0.005	0.024
TOTALNH	64,751	64,799	17,001	16,873	24,893	25,151	13,974	14,002	8,883	8,773
	67	82	111	169	98	276	141	143	144	181
	0.001	0.001	0.007	0.010	0.004	0.011	0.010	0.010	0.016	0.021
WHITENH	56,326	56,306	15,829	15,716	22,595	22,719	12,141	12,139	5,760	5,732
	20	28	76	136	92	154	114	114	102	106
	0.000	0.000	0.005	0.009	0.004	0.007	0.009	0.009	0.018	0.019
BLACKNH	5,965	5,988	634	607	1,314	1,335	1,266	1,304	2,750	2,742
	26	35	44	51	48	52	64	75	79	79
	0.004	0.006	0.069	0.085	0.037	0.039	0.051	0.057	0.029	0.029
AIANNH	1,043	1,067	301	327	336	369	236	252	170	119
	31	39	45	52	42	53	41	44	51	72
	0.030	0.037	0.151	0.160	0.125	0.145	0.173	0.173	0.299	0.604
ASIANNH	1,128	1,130	166	154	575	642	259	254	128	80
	33	33	32	34	34	75	32	32	30	57
	0.029	0.029	0.192	0.223	0.058	0.117	0.123	0.127	0.236	0.708
HPINH	111	117	26	12	25	25	31	15	29	65
	17	18	16	21	16	16	15	22	12	38
	0.152	0.154	0.631	1.752	0.644	0.637	0.480	1.473	0.408	0.580
OTHERNH	89	94	23	33	27	31	18	13	21	17
	30	30	11	15	16	16	12	13	11	11
	0.337	0.324	0.481	0.454	0.588	0.524	0.638	1.000	0.497	0.669
MLTMNH	90	97	22	24	22	30	22	25	24	18
	36	37	12	12	12	15	8	9	17	18
	0.402	0.380	0.559	0.519	0.561	0.491	0.381	0.356	0.716	1.022
HISP18	46,075	46,135	11,312	11,140	6,392	6,245	12,420	12,423	15,950	16,327
	53	80	83	191	63	159	109	109	104	391
	0.001	0.002	0.007	0.017	0.010	0.026	0.009	0.009	0.007	0.024
NONHISP18	51,144	51,187	13,150	13,103	19,991	20,130	11,022	11,034	6,981	6,920
	45	63	80	93	82	162	103	104	102	119
	0.001	0.001	0.006	0.007	0.004	0.008	0.009	0.009	0.015	0.017
WHITENH18	45,272	45,265	12,396	12,340	18,353	18,413	9,834	9,814	4,690	4,698
	13	15	68	88	76	97	83	85	83	83
	0.000	0.000	0.005	0.007	0.004	0.005	0.008	0.009	0.018	0.018
BLACKNH18	4,036	4,043	367	347	873	888	771	811	2,026	1,997
	18	19	36	41	39	42	50	64	68	73
	0.004	0.005	0.097	0.117	0.044	0.047	0.065	0.079	0.033	0.037
AIANNH18	829	843	235	254	271	290	191	198	132	101
	19	24	36	41	35	40	35	36	42	52
	0.023	0.028	0.155	0.161	0.131	0.139	0.184	0.181	0.320	0.516
ASIANNH18	814	817	107	106	444	473	180	179	83	59
	24	24	23	23	25	39	27	27	24	34
	0.030	0.030	0.217	0.219	0.057	0.082	0.149	0.150	0.288	0.574
HPINH18	72	83	16	10	17	20	20	14	19	39
	14	18	12	13	11	11	9	11	9	22
	0.190	0.211	0.715	1.327	0.645	0.565	0.473	0.803	0.464	0.563
OTHERNH18	70	77	19	27	21	25	14	11	17	14
	18	19	11	14	12	13	10	10	10	10
	0.254	0.248	0.576	0.504	0.576	0.509	0.730	0.943	0.591	0.742
MLTMNH18	51	59	10	19	13	21	13	7	15	12
	30	31	10	13	8	12	9	11	14	14
	0.580	0.519	0.956	0.692	0.652	0.560	0.742	1.550	0.891	1.186
AVERV	0.102	0.099	0.242	0.315	0.208	0.197	0.212	0.348	0.243	0.369
MEDRV	0.014	0.017	0.124	0.139	0.051	0.064	0.094	0.103	0.135	0.277

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.19. McKinney Independent School Districts (Collin County), TX Run A of Twenty-five Runs of the *TDA* for Districts 01, 02, 03, 04, 05 ($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{111,017}{5} = 22,203.4 \quad TDA \text{ IDEAL POPULATION} = \frac{111,152}{5} = 22,230.4$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	McK'y	01	02	03	04	05	McK'y	01	02	03	04	05
TOTAL	111,017	22,539	21,481	21,843	23,199	21,955	111,152	22,347	21,574	21,686	23,224	22,321
DEV		335.6	-722.4	-360.4	995.6	-248.4		116.6	-656.4	-544.4	993.6	90.6
DEVP		1.51	-3.25	-1.62	4.48	-1.12		0.52	-2.95	-2.45	4.47	0.41
TOTAL18	76,407	15,809	14,719	15,102	15,286	15,491	76,588	15,729	15,028	14,897	15,305	15,629
TOTALHISP	21,683	10,564	2,679	3,535	1,683	3,222	21,550	10,242	2,879	3,305	1,793	3,331
TOTALHISPSP	19.53	46.87	12.47	16.18	7.25	14.68	19.39	45.83	13.34	15.24	7.72	14.92
TOTALNH	89,334	11,975	18,802	18,308	21,516	18,733	89,602	12,105	18,695	18,381	21,431	18,990
TOTALNHP	80.47	53.13	87.53	83.82	92.75	85.32	80.61	54.17	86.66	84.76	92.28	85.08
WHITENH	72,687	8,366	15,479	14,764	18,861	15,217	72,666	8,390	15,255	14,988	18,836	15,197
WHITENHP	65.47	37.12	72.06	67.59	81.30	69.31	65.38	37.54	70.71	69.11	81.11	68.08
BLACKNH	10,888	3,055	2,099	2,394	1,279	2,061	10,897	2,904	2,263	2,234	1,240	2,256
BLACKNHP	9.81	13.55	9.77	10.96	5.51	9.39	9.80	13.00	10.49	10.30	5.34	10.11
AIANNH	939	155	177	250	173	184	1,006	232	140	245	214	175
AIANNHP	0.85	0.69	0.82	1.14	0.75	0.84	0.91	1.04	0.65	1.13	0.92	0.78
ASIANNH	4,142	291	878	770	1,061	1,142	4,288	395	885	813	983	1,212
ASIANNHP	3.73	1.29	4.09	3.53	4.57	5.20	3.86	1.77	4.10	3.75	4.23	5.43
HPINH	95	20	22	14	19	20	118	31	36	8	33	10
HPINHP	0.09	0.09	0.10	0.06	0.08	0.09	0.11	0.14	0.17	0.04	0.14	0.04
OTHERNH	189	32	56	32	24	45	161	48	42	20	37	14
OTHERNHP	0.17	0.14	0.26	0.15	0.10	0.20	0.14	0.21	0.19	0.09	0.16	0.06
MLTMNH	394	56	91	84	99	64	466	105	74	73	88	126
MLTMNHP	0.35	0.25	0.42	0.38	0.43	0.29	0.42	0.47	0.34	0.34	0.38	0.56
HISP18	13,246	6,549	1,680	2,121	969	1,927	13,433	6,488	1,917	1,893	1,053	2,082
HISP18P	17.34	41.43	11.41	14.04	6.34	12.44	17.54	41.25	12.76	12.71	6.88	13.32
NONHISP18	63,161	9,260	13,039	12,981	14,317	13,564	63,155	9,241	13,111	13,004	14,252	13,547
NONHISP18P	82.66	58.57	88.59	85.96	93.66	87.56	82.46	58.75	87.24	87.29	93.12	86.68
WHITENH18	52,495	6,800	10,912	10,795	12,673	11,315	52,376	6,837	10,768	10,955	12,631	11,185
WHITENH18P	68.70	43.01	74.14	71.48	82.91	73.04	68.39	43.47	71.65	73.54	82.53	71.57
BLACKNH18	6,942	2,062	1,328	1,459	798	1,295	6,943	1,921	1,534	1,289	774	1,425
BLACKNH18P	9.09	13.04	9.02	9.66	5.22	8.36	9.07	12.21	10.21	8.65	5.06	9.12
AIANNH18	646	115	120	162	120	129	646	146	95	167	141	97
AIANNH18P	0.85	0.73	0.82	1.07	0.79	0.83	0.84	0.93	0.63	1.12	0.92	0.62
ASIANNH18	2,715	209	593	501	655	757	2,705	237	601	522	593	752
ASIANNH18P	3.55	1.32	4.03	3.32	4.28	4.89	3.53	1.51	4.00	3.50	3.87	4.81
HPINH18	53	16	8	8	8	13	83	26	36	8	3	10
HPINH18P	0.07	0.10	0.05	0.05	0.05	0.08	0.11	0.17	0.24	0.05	0.02	0.06
OTHERNH18	109	23	34	16	11	25	114	28	32	3	37	14
OTHERNH18P	0.14	0.15	0.23	0.11	0.07	0.16	0.15	0.18	0.21	0.02	0.24	0.09
MLTMNH18	201	35	44	40	52	30	288	46	45	60	73	64
MLTMNH18P	0.26	0.22	0.30	0.26	0.34	0.19	0.38	0.29	0.30	0.40	0.48	0.41

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.19:

- 1: McKinney Schools has TOTALHISPSP = 19.53% and WHITENHP = 65.47% for the 2010 Census; and TOTALHISPSP = 19.39% and WHITENHP = 65.38% for the *TDA* run.
- 2: For four of the five districts, WHITENHP > 65.00% for the 2010 Census and for the *TDA* run.
- 3: For all five of the districts, TOTALHISPSP < 50.00% for the 2010 Census and for the *TDA* run.

Table VII.19.a. Counts & Measures of Variation for McKinney Independent School Districts (Collin County), TX Twenty-five Runs of the TDA for Districts 01, 02, 03, 04, 05 ($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	McKinney		01	01	02	02	03	03	04	04	05	05
TOTAL	111,318	111,017	22,470	22,539	21,553	21,481	21,683	21,843	23,184	23,199	22,427	21,955
	168	345	87	111	97	121	58	170	51	53	145	494
	0.002	0.003	0.004	0.005	0.005	0.006	0.003	0.008	0.002	0.002	0.006	0.023
TOTAL18	76,595	76,407	15,758	15,809	14,890	14,719	14,937	15,102	15,301	15,286	15,710	15,491
	173	256	94	107	125	212	57	175	63	65	123	251
	0.002	0.003	0.006	0.007	0.008	0.014	0.004	0.012	0.004	0.004	0.008	0.016
TOTALHISP	21,685	21,683	10,315	10,564	2,806	2,679	3,399	3,535	1,701	1,683	3,465	3,222
	125	125	83	262	124	177	109	175	67	69	108	266
	0.006	0.006	0.008	0.025	0.044	0.066	0.032	0.049	0.039	0.041	0.031	0.083
TOTALNH	89,633	89,334	12,155	11,975	18,748	18,802	18,285	18,308	21,484	21,516	18,962	18,733
	135	328	76	195	110	123	90	93	83	89	122	260
	0.002	0.004	0.006	0.016	0.006	0.007	0.005	0.005	0.004	0.004	0.006	0.014
WHITENH	72,789	72,687	8,483	8,366	15,271	15,479	14,907	14,764	18,845	18,861	15,283	15,217
	136	170	60	132	122	241	78	163	64	66	127	143
	0.002	0.002	0.007	0.016	0.008	0.016	0.005	0.011	0.003	0.004	0.008	0.009
BLACKNH	10,926	10,888	2,971	3,055	2,221	2,099	2,294	2,394	1,280	1,279	2,160	2,061
	74	83	60	103	103	160	127	162	50	50	68	120
	0.007	0.008	0.020	0.034	0.046	0.076	0.055	0.068	0.039	0.039	0.031	0.058
AIANNH	942	939	173	155	183	177	234	250	166	173	187	184
	50	50	28	33	39	39	23	28	32	33	36	36
	0.053	0.054	0.162	0.216	0.211	0.220	0.099	0.112	0.196	0.192	0.194	0.197
ASIANNH	4,230	4,142	328	291	908	878	757	770	1,056	1,061	1,181	1,142
	89	125	40	55	36	46	30	32	58	59	53	66
	0.021	0.030	0.123	0.188	0.039	0.053	0.039	0.042	0.055	0.055	0.045	0.058
HPINH	101	95	26	20	21	22	11	14	21	19	22	20
	30	30	16	17	13	13	10	11	13	13	13	13
	0.294	0.316	0.589	0.841	0.605	0.580	0.958	0.775	0.628	0.688	0.581	0.632
OTHERNH	219	189	56	32	46	56	35	32	42	24	40	45
	36	47	17	30	20	22	17	17	17	24	19	20
	0.166	0.249	0.298	0.926	0.430	0.396	0.472	0.527	0.398	1.010	0.484	0.443
MLTMNH	427	394	116	56	98	91	47	84	76	99	90	64
	35	48	20	63	27	28	23	44	19	30	23	35
	0.083	0.123	0.174	1.127	0.280	0.311	0.493	0.519	0.253	0.304	0.255	0.549
HISP18	13,275	13,246	6,401	6,549	1,818	1,680	2,002	2,121	985	969	2,069	1,927
	125	128	71	164	110	177	101	156	55	57	104	176
	0.009	0.010	0.011	0.025	0.061	0.105	0.051	0.074	0.056	0.059	0.050	0.092
NONHISP18	63,320	63,161	9,357	9,260	13,072	13,039	12,935	12,981	14,316	14,317	13,640	13,564
	150	219	68	118	128	132	103	113	73	73	99	125
	0.002	0.003	0.007	0.013	0.010	0.010	0.008	0.009	0.005	0.005	0.007	0.009
WHITENH18	52,514	52,495	6,900	6,800	10,764	10,912	10,894	10,795	12,670	12,673	11,286	11,315
	103	104	54	114	95	176	67	120	46	46	90	95
	0.002	0.002	0.008	0.017	0.009	0.016	0.006	0.011	0.004	0.004	0.008	0.008
BLACKNH18	6,965	6,942	1,986	2,062	1,475	1,328	1,354	1,459	787	798	1,364	1,295
	39	45	48	90	105	180	122	161	29	31	52	86
	0.006	0.006	0.024	0.044	0.071	0.136	0.090	0.111	0.037	0.039	0.038	0.067
AIANNH18	639	646	125	115	130	120	150	162	109	120	124	129
	39	40	21	23	28	30	20	23	28	30	27	27
	0.061	0.061	0.167	0.201	0.214	0.247	0.132	0.143	0.252	0.246	0.217	0.213
ASIANNH18	2,767	2,715	225	209	600	593	492	501	671	655	779	757
	60	80	32	36	36	37	23	25	54	56	33	39
	0.022	0.029	0.143	0.171	0.060	0.062	0.047	0.049	0.080	0.085	0.042	0.052
HPINH18	62	53	20	16	12	8	6	8	11	8	14	13
	22	24	12	13	9	9	9	9	11	11	9	9
	0.359	0.455	0.633	0.803	0.734	1.161	1.444	1.117	0.948	1.386	0.664	0.708
OTHERNH18	130	109	35	23	27	34	16	16	25	11	25	25
	34	40	15	19	19	20	12	12	13	19	15	15
	0.261	0.363	0.414	0.828	0.680	0.581	0.741	0.753	0.515	1.761	0.593	0.603
MLTMNH18	244	201	66	35	65	44	22	40	41	52	49	30
	30	53	18	36	24	32	15	23	16	19	17	26
	0.124	0.262	0.268	1.026	0.368	0.725	0.678	0.581	0.395	0.375	0.343	0.851
AVERV	0.074	0.100	0.154	0.326	0.194	0.239	0.268	0.249	0.196	0.315	0.181	0.234
MEDRV	0.015	0.020	0.073	0.107	0.060	0.091	0.053	0.071	0.056	0.057	0.043	0.075

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.

Table VII.20. Isle of Wight County, VA Run A of Twenty-five Runs of the *TDA*
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

$$2010 \text{ Census IDEAL POPULATION} = \frac{35,270}{5} = 7,054 \quad TDA \text{ IDEAL POPULATION} = \frac{35,265}{5} = 7,053$$

Demographics	2010 Census, SF1 (PL 94-171) Counts & Percentages POST-2010 Plan						Counts & Percentages Run A of the <i>TDA</i>					
	Wight	01	02	03	04	05	Wight	01	02	03	04	05
TOTAL	35,270	7,314	7,312	6,772	7,090	6,782	35,265	7,346	7,242	6,570	7,125	6,982
DEV		260	258	-282	36	-272		293	189	-483	72	-71
DEVP		3.69	3.66	-4.00	0.51	-3.86		4.15	2.68	-6.85	1.02	-1.01
TOTAL18	27,239	5,675	5,630	5,168	5,456	5,310	27,261	5,681	5,638	4,984	5,465	5,493
TOTALHISP	658	182	183	41	162	90	656	146	139	52	194	125
TOTALHISPP	1.87	2.49	2.50	0.61	2.28	1.33	1.86	1.99	1.92	0.79	2.72	1.79
TOTALNH	34,612	7,132	7,129	6,731	6,928	6,692	34,609	7,200	7,103	6,518	6,931	6,857
TOTALNHP	98.13	97.51	97.50	99.39	97.72	98.67	98.14	98.01	98.08	99.21	97.28	98.21
WHITENH	24,969	5,821	5,678	2,948	5,279	5,243	24,978	5,810	5,688	2,967	5,216	5,297
WHITENHP	70.79	79.59	77.65	43.53	74.46	77.31	70.83	79.09	78.54	45.16	73.21	75.87
BLACKNH	8,817	1,105	1,202	3,678	1,501	1,331	8,783	1,180	1,155	3,490	1,518	1,440
BLACKNHP	25.00	15.11	16.44	54.31	21.17	19.63	24.91	16.06	15.95	53.12	21.31	20.62
AIANNH	240	58	47	46	46	43	262	65	58	35	64	40
AIANNHP	0.68	0.79	0.64	0.68	0.65	0.63	0.74	0.88	0.80	0.53	0.90	0.57
ASIANNH	405	105	146	41	65	48	402	112	152	9	67	62
ASIANNHP	1.15	1.44	2.00	0.61	0.92	0.71	1.14	1.52	2.10	0.14	0.94	0.89
HPINH	18	8	2	1	2	5	28	2	21	0	4	1
HPINHP	0.05	0.11	0.03	0.01	0.03	0.07	0.08	0.03	0.29	0.00	0.06	0.01
OTHERNH	58	6	22	9	15	6	61	10	5	6	34	6
OTHERNHP	0.16	0.08	0.30	0.13	0.21	0.09	0.17	0.14	0.07	0.09	0.48	0.09
MLTMNH	105	29	32	8	20	16	95	21	24	11	28	11
MLTMNHP	0.30	0.40	0.44	0.12	0.28	0.24	0.27	0.29	0.33	0.17	0.39	0.16
HISP18	390	109	116	25	88	52	396	61	110	37	116	72
HISP18P	1.43	1.92	2.06	0.48	1.61	0.98	1.45	1.07	1.95	0.74	2.12	1.31
NONHISP18	26,849	5,566	5,514	5,143	5,368	5,258	26,865	5,620	5,528	4,947	5,349	5,421
NONHISP18P	98.57	98.08	97.94	99.52	98.39	99.02	98.55	98.93	98.05	99.26	97.88	98.69
WHITENH18	19,692	4,632	4,477	2,291	4,131	4,161	19,684	4,660	4,494	2,250	4,054	4,226
WHITENH18P	72.29	81.62	79.52	44.33	75.71	78.36	72.21	82.03	79.71	45.14	74.18	76.93
BLACKNH18	6,608	799	873	2,780	1,136	1,020	6,600	836	834	2,659	1,160	1,111
BLACKNH18P	24.26	14.08	15.51	53.79	20.82	19.21	24.21	14.72	14.79	53.35	21.23	20.23
AIANNH18	181	41	35	34	36	35	184	47	49	21	34	33
AIANNH18P	0.66	0.72	0.62	0.66	0.66	0.66	0.67	0.83	0.87	0.42	0.62	0.60
ASIANNH18	265	68	99	25	47	26	261	57	107	9	51	37
ASIANNH18P	0.97	1.20	1.76	0.48	0.86	0.49	0.96	1.00	1.90	0.18	0.93	0.67
HPINH18	14	5	2	1	1	5	28	2	21	0	4	1
HPINH18P	0.05	0.09	0.04	0.02	0.02	0.09	0.10	0.04	0.37	0.00	0.07	0.02
OTHERNH18	22	4	7	6	5	0	42	6	2	3	29	2
OTHERNH18P	0.08	0.07	0.12	0.12	0.09	0.00	0.15	0.11	0.04	0.06	0.53	0.04
MLTMNH18	67	17	21	6	12	11	66	12	21	5	17	11
MLTMNH18P	0.25	0.30	0.37	0.12	0.22	0.21	0.24	0.21	0.37	0.10	0.31	0.20

Source: Data from Run A of the *TDA*, U.S. Bureau of the Census, Washington, D.C.

Selected observations for Table VII.20:

- 1: Isle of Wight has WHITENHP = 70.79% and BLACKNHP = 25.00% for the 2010 Census; and WHITENHP = 70.83% and BLACKNHP = 24.91% for the *TDA* run.
- 2: For four of the five districts, WHITENHP > 73.00% for the 2010 Census and for the *TDA* run.

Table VII.20.a. Counts & Measures of Variation for Isle of Wight County, VA Twenty-five Runs of the TDA
for County Districts 01, 02, 03, 04, 05
($\epsilon = 4$)

DIST-ID	(Measures of Variation)											
	Isle of Wight		01	01	02	02	03	03	04	04	05	05
TOTAL	35,261	35,270	7,348	7,314	7,261	7,312	6,540	6,772	7,159	7,090	6,953	6,782
	46	47	55	65	55	76	76	244	66	96	58	181
	0.001	0.001	0.008	0.009	0.008	0.010	0.012	0.036	0.009	0.014	0.008	0.027
TOTAL18	27,249	27,239	5,682	5,675	5,608	5,630	5,026	5,168	5,513	5,456	5,419	5,310
	47	48	49	49	51	56	68	157	63	86	57	123
	0.002	0.002	0.009	0.009	0.009	0.010	0.014	0.030	0.012	0.016	0.010	0.023
TOTALHISP	645	658	145	182	150	183	66	41	163	162	121	90
	50	52	26	45	20	39	20	32	31	31	29	42
	0.077	0.078	0.180	0.247	0.131	0.212	0.299	0.772	0.188	0.189	0.236	0.469
TOTALNH	34,616	34,612	7,203	7,132	7,111	7,129	6,474	6,731	6,997	6,928	6,832	6,692
	47	47	61	94	57	60	80	269	69	98	60	152
	0.001	0.001	0.009	0.013	0.008	0.008	0.012	0.040	0.010	0.014	0.009	0.023
WHITENH	24,981	24,969	5,819	5,821	5,661	5,678	2,966	2,948	5,265	5,279	5,270	5,243
	22	25	53	53	40	43	73	75	58	60	47	54
	0.001	0.001	0.009	0.009	0.007	0.008	0.025	0.025	0.011	0.011	0.009	0.010
BLACKNH	8,811	8,817	1,205	1,105	1,216	1,202	3,415	3,678	1,539	1,501	1,436	1,331
	24	25	52	112	40	43	55	268	44	58	34	110
	0.003	0.003	0.043	0.102	0.033	0.035	0.016	0.073	0.028	0.038	0.024	0.083
AIANNH	248	240	47	58	56	47	37	46	57	46	50	43
	29	30	14	18	14	17	18	20	17	20	18	19
	0.117	0.125	0.301	0.307	0.258	0.364	0.469	0.425	0.294	0.438	0.355	0.443
ASIANNH	397	405	93	105	140	146	33	41	87	65	45	48
	25	26	22	25	25	26	14	16	25	33	18	18
	0.062	0.064	0.240	0.241	0.177	0.175	0.421	0.390	0.287	0.507	0.394	0.373
HPINH	15	18	4	8	3	2	1	1	3	2	3	5
	11	11	4	6	5	5	2	2	4	4	4	5
	0.731	0.623	1.111	0.745	1.615	2.510	1.926	2.400	1.081	1.857	1.330	0.931
OTHERNH	60	58	11	6	17	22	6	9	17	15	9	6
	14	15	7	8	11	12	5	6	10	10	7	8
	0.236	0.250	0.633	1.393	0.636	0.542	0.799	0.630	0.580	0.675	0.730	1.291
MLTMNH	104	105	24	29	18	32	14	8	29	20	19	16
	22	22	10	11	9	17	8	10	9	13	11	11
	0.210	0.208	0.425	0.391	0.509	0.531	0.547	1.226	0.325	0.650	0.552	0.691
HISP18	386	390	82	109	101	116	40	25	94	88	69	52
	35	35	20	33	21	26	15	21	21	22	22	28
	0.090	0.090	0.237	0.303	0.208	0.223	0.376	0.842	0.223	0.247	0.322	0.540
NONHISP18	26,863	26,849	5,599	5,566	5,507	5,514	4,986	5,143	5,420	5,368	5,350	5,258
	44	46	61	69	50	51	64	169	63	82	53	106
	0.002	0.002	0.011	0.012	0.009	0.009	0.013	0.033	0.012	0.015	0.010	0.020
WHITENH18	19,696	19,692	4,620	4,632	4,466	4,477	2,301	2,291	4,134	4,131	4,175	4,161
	16	16	46	48	34	35	59	59	48	48	34	36
	0.001	0.001	0.010	0.010	0.008	0.008	0.025	0.026	0.012	0.012	0.008	0.009
BLACKNH18	6,611	6,608	859	799	887	873	2,622	2,780	1,153	1,136	1,090	1,020
	21	21	34	69	29	32	32	161	30	35	33	77
	0.003	0.003	0.040	0.086	0.032	0.037	0.012	0.058	0.026	0.030	0.030	0.075
AIANNH18	188	181	35	41	41	35	30	34	41	36	41	35
	23	24	12	14	12	14	14	14	13	14	17	18
	0.120	0.131	0.353	0.335	0.290	0.389	0.464	0.424	0.317	0.387	0.422	0.525
ASIANNH18	262	265	60	68	94	99	20	25	62	47	26	26
	20	20	17	19	17	18	9	11	22	27	11	11
	0.076	0.076	0.282	0.275	0.181	0.180	0.464	0.422	0.355	0.572	0.409	0.407
HPINH18	12	14	3	5	3	2	1	1	3	1	3	5
	10	11	4	5	5	5	2	2	3	4	4	5
	0.869	0.757	1.454	0.907	1.848	2.500	2.349	2.349	1.298	3.800	1.419	0.934
OTHERNH18	27	22	6	4	5	7	4	6	8	5	4	0
	13	14	5	5	6	6	4	4	9	9	4	6
	0.475	0.638	0.728	1.332	1.177	0.902	1.003	0.723	1.074	1.864	1.130	Inf
MLTMNH18	66	67	17	17	11	21	9	6	18	12	12	11
	21	21	10	10	8	13	6	7	8	10	7	7
	0.323	0.320	0.584	0.570	0.729	0.614	0.643	1.100	0.454	0.867	0.622	0.663
AVERV	0.170	0.169	0.333	0.365	0.394	0.463	0.494	0.601	0.330	0.610	0.401	Inf
MEDRV	0.077	0.077	0.239	0.261	0.179	0.196	0.399	0.423	0.255	0.317	0.339	0.425

Source: Data from 25 Runs of the TDA, U. S. Bureau of the Census, Washington, D.C.