

This memo deals with various methodological issues in this analysis. Cumulatively, these largely explain the differences between my findings and some of those previously reported.

1. Weighting. The GSS provides variables for use in weighting, taking into account (a) the fact that the sample provides equal probability of selection for (almost all) American households, *not* American adults; (n) Black oversamples in some years; and (c) a major change in sampling starting in 2004. My analysis (unlike most reports of GSS data on religion) carries out the requisite weighting steps. In addition, I add an adjustment to make the number of cases in each survey equal. The reason for this is when pooling cases across years we need to think of the GSS as samples in *time*, and an accidental variation in sample size should not give one year more weight in the results than it would otherwise get. (Double-year surveys are given twice the adjusted number of cases, for this purpose; there have been 19 single and 7 double surveys in the 1972-2004 period, for 33 virtual surveys comprising 51,020 respondents.) It is also necessary to deal with cases for which the household size variable (adults) has a missing value; I assigned these to the median value, 2. SPSS Syntax

```
compute adultsfixed = value(adults).
recode adultsfixed (9 sysmis = 2).
if (year < 2004) prelimwt = oversamp * adultsfixed.
if (year >= 2004) prelimwt = wtssnr.
sort cases by year.
aggregate outfile = * mode = addvariables / missing = columnwise
/ presorted / break = year / actualNcases = nu /
nCasesBeforeYrFactor = sum(prelimwt).
if (year < 1994) desiredNcases = 51020 / 33.0 .
if (year >= 1994) desiredNcases = 51020 / 16.5 .
compute yearfactor = desiredNcases / nCasesBeforeYrFactor.
compute finalwt = prelimwt * yearfactor.
```

2. Adjusting for 1984 change in GSS denominational coding (on 'denom').

A major change in coding practices was made in 1994, and failure to account for this causes significant distortions in trend analyses. In particular, it creates an illusion of growth in traditionalist Protestantism, since from 1984 forward the figures in these groups are higher than for earlier years. (One can see the shift happening precisely in 1984.)

The change was that Baptists, Methodists, Lutherans, and Presbyterians, who had previously each been treated as a single category, were now broken down into various subgroups.

The best, albeit imperfect, solution, is to impute membership in subgroups to pre-1984 cases in each of these four denominational families. I did this in a controlled random fashion. The control is that the pre-1984 cases were first divided by birth cohort (pre-1946 and 1946 on) and region (south, east/west coasts, and heartland), then by denominational family. (These two variables seem the most likely to be connected with religious variables. One cannot go very far in using these kinds of stratifiers.) That yields 24 chunks. In each of them an independent imputation process was carried on, giving each respondent a chance of assignment to the various subgroups based on the distribution within the same imputation chunk from 1984 on. (Fortunately the distribution among subgroups does not appear to have changed markedly since 1984.) Another aspect of control was that the imputation process worked by an analogy to stratification using an ordered list and zones, guaranteeing an approximately proportionate assignment in a way that direct

random assignment of each cases separately would not. (That is, since the chunks are fairly small, one would otherwise get a lot of random fluctuation in the proportion assigned to each subgroup.) To describe the strategy I came up with, to use within each of the 24 chunks, a kind of geometric explanation might be clearest.

First I took the pre-1984 cases and ordered them randomly within the chunk, then laid them out as a series of horizontal case bars, end to end, each with length = the case weight, comprising a composite bar with a total length of the weighted number of cases in the chunk. To get a specific selection point for each case, I chose a random spot within each case's bar. Specifically, where r = a random number on a uniform 0-1 distribution (chosen independently of the random number previously used to order the cases), the selection point was $\text{barEndPoint} - (\text{case weight} * r)$. Then I scaled this array of bars down so that the composite bar had length = 1. In the end, there are many case bars (sometimes hundreds), and each is tiny.

Above that I constructed a second series of bars, each representing a different subgroup within the family (5 subgroups for Methodists and Presbyterians and 7 for Baptists and Lutherans), with length equal to the proportion of 1984-on cases, within the denominational family and imputation category, in that subgroup. The resulting composite bar has length = 1. The proportions to use here were calculated through aggregating the data file. In this composite bar, there are only 5-7 subgroup bars.

Finally, each case was assigned to a subgroup based on where the selection point in its bar in the first series fell in relation to the subgroup bars in the second series.

The results seemed satisfactory. A table of results is included as Appendix A, the SPSS code in Appendix B. The only problem is that every time one runs this procedure, new random numbers will be assigned, and each case will have a good chance of moving from one subgroup to another. For my own analysis, I did this one and then left it fixed, but that does not solve the problem of comparability of results from different analysts. Possibly the imputed values of the 'denom' variable may be saved on the Berkeley site as a new variable keyed to each specific case (using the year and case id), for others to use. Note, however, that the weighting scheme influences the imputation.

3. Eschewing the use of individual race, attendance, or other variables as part of the denominational coding

The major denominational categorizations currently in use (David's FUND, Steensland et al's RELTRAD, and the recent Hout/Greeley typology) all involve situations where the same combination of the three basic GSS religious identity questions (relig, denom, and other) maps to varying denominational categorizations, depending on the value of other variables, primarily individual race.

In my view this is a bad idea. It destroys the conceptual clarity of the denominational variable as a variable about affiliation and identity, not individual characteristics. African-American denominations are a distinctive *religious* formation, a type of religious organization, historically evolved, under special social circumstances, to be sure, but the same could be said for all denominations, and some strongly, as with Lutherans and Catholics, in each of which ethnic consciousness is still evident. To be an individual African-American is not by any means the same. I imagine that the intention in using individual race was to assign African-American respondents to historically Black denominations when they did not name these to the interviewer but in fact belonged to them. Even with that good intention, it makes analysis of connections between religion and voting impossible to do with integrity, since race is such a strong factor (far stronger than any religious one) in voting. That is, by giving up the analytical purity of the denomination variable, this approach makes other kinds of analysis extremely problematic. Furthermore, the intention of correcting for individual omissions, applied to one group of respondents but not another,

can easily have unfortunate side effects. Black Episcopalians, for example, are left as Episcopalians, while Black Baptists are shifted. There is a reason for that, in that there are distinct Black Baptist denominations but not Black Episcopal churches. But the result is to have individual race play a different role in defining different denominations, which means, again, that analysis of relationships between denomination and other variables gets biased, with individual race entering the picture for some denominations but not others.

In the algorithm comparison chart included as Appendix D, one can see the cases affected, specifically by race and more generally. The ones affected by race are flagged A in the explanation code column; F shows categories where Davis's FUND variable has to be using some other variable as part of assignment; other cases where this is happening can be seen wherever there is more than one overall denominational category code in the "*cDs" columns (the last four in the center area of the chart).

4. Categorization Strategies

Existing denominational categorization algorithms move directly to general groups, such as liberal vs fundamentalist in the FUND taxonomy, or the half-dozen categories used by Hout & Greeley and by Steensland et al. I moved instead in stages, first trying to place the 250+ raw combinations of RELIG, DENOM, and OTHER into meaningful specific groups (about 50) and then combining these into successively broader categories. This has various advantages, among them surfacing for explicit decision-making combinations of values that ought to be impossible given the interviewer instructions, and more importantly, making the judgment calls inherent in any categorization highly transparent. Appendix C shows the mapping I used, with the various groups arranged so that the broadest categorization changes most slowly, then within that the next broadest changes, and so on. Appendix E has the SPSS mapping code.

The most contentious point is which specific groups end up being categorized as traditionalist, evangelical, or fundamentalist Protestant. This involves trying to know what each group is like. One might also try to deal with the likely errors made by respondents – Steensland et al do some of this – but I think that is a bad idea, since having different treatment for different categories introduces biases. Instead I think we just have to the best we can with what people said, across the board.

With regard to deciding what each group is like, one can consult various sources. When there was doubt, I checked websites. It is also useful to know the average level of Biblical literalism, and the percent Black, in each group. I determined these for every RELIG/DENOM/OTHER combination. In the single most important and contentious cases, Mormons, I consulted social scientists who are themselves Mormon.

Note that the very worst reason for categorizing a denomination would be its conservative vs. liberal or moderate views on political issues such as homosexuality and abortion. To let this enter into the categorization makes correlations between denomination and politics partly tautological; in other words, no respectable analysis of relationships between religion and politics is possible if political criteria enter into the categorization.

5. Categorization of particular denominations, such as the Mormons.

I examined difficult cases with 50+ respondents (which over the whole span of the GSS is just one-tenth of 1% of respondents) in great detail. I paid particularly close attention to any case (that is, RELIG/DENOM/OTHER combination) where I was inclined to a different categorization than those found in existing algorithms. There are a few cases that I still consider difficult calls, while in most I reached firm conclusions.

In the case of Mormons, because so many cases are at issue, I consulted with some Mormon scholars. I heard back loud and clear that while Mormons have some points in common with evangelical and fundamentalist Christians, there is a lot that is very different, and furthermore, that Mormons do not want to be termed “Protestant” at all. Such preferences by a group deserve respect, although not absolutely. But combining that with the highly unorthodox (from a traditionalist Protestant point of view) theology of the Mormons – posthumous baptism, adding the Book of Mormon to sacred scripture, and so on – and the fact that Mormons tend to reject Biblical literalism (one can see in Appendix D that that their level ranges from 19% to 38% in the four Mormon categories – very similar to United Methodists or American Lutherans) – and the case for taking them out of the traditionalist Protestant category is extremely strong.

In several other cases, I looked at the official websites of the churches – for example, for the Brethren, Christian Reformed Church, and the Unitarians – and was firmly convinced that the other algorithms were misclassifying them.

[More details will be added soon]

6. The definition of a religious right supporter

I used a measure requiring people to be a Protestant traditionalist, a social conservative, and an economic conservative. Note that the odd-looking criterion on economic issues – that one make a set of answers characteristic of the more conservative 44% of Americans – is just a way of describing the cutting point I used on a scale. More strict criteria (another point over on the scale) would have required that people be in a small highly conservative group, and less strict ones (a point in the opposite direction) would have resulted in categorizing well over half of Americans as supporting a conservative economic agenda, which seems implausible. In any case, the three criteria resulted in about 4% meeting all of them and being categorized as religious right supporters.

There are other ways of measuring religious right support. For example, instead of the two political variables (economic and social conservatism) one could use conservative/liberal self-label. The problem with that is that it is likely that people using that term for themselves are thinking more of social than of economic issues. Thus it could significantly overstate support for the religious right economic agenda.

In any case, the main point is that any respectable measure of religious right support on issues gets fairly low figures – single digits. And voting Republican by no means implies being on board the religious right agenda, since American parties are coalitional structures and the Republican Party in particular has the potential (recently actualized) for significant tension between those in it with a primary interest in social issues (such people hold varying views on economic issues) and those with a primary interest in economic issues (these people hold varying views on social issues.)

7. Smoothing

In trend analysis, good smoothing is very important. On Michael Hout’s advice, I have used LOESS, an approach that builds a smoothed curve out of a set of local fits to the data points – that is, fits to a consecutive subset of the data points. These local fits can be of various orders, but most commonly are linear. In my analysis, I used the SAS implementation of LOESS (SPSS has no real implementation that I can find, although one can add a LOESS curve, with no choice of options and no access to the fitting results, to charts).

Note that fitting is most helpful when applied to things one expects not to fluctuate much from one year to the next, such as denominational membership. Voting, on the other hand, is expected to show wide swings

over short periods; even here, however, smoothing is useful in seeing beyond the ups and downs and assessing trends.

BAPTISTS

Pre-1984										1984 on									
Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	nwtd	nRaw	Pct wtd	diff	Pct wtd	nRaw	nwtd	Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	
1	0	10	10	8	0	47.68	56	15.9%	-0.1%	15.9%	67	64.36	1	0	10	110	0	-1	
1	0	10	10	8	1	24.40	24	8.1%	0.2%	7.9%	29	32.12	1	0	10	110	1	-1	
1	0	10	10	8	2	10.08	13	3.4%	0.0%	3.4%	15	13.73	1	0	10	110	2	-1	
1	0	10	10	8	3	3.40	5	1.1%	-0.1%	1.2%	6	4.85	1	0	10	110	3	-1	
1	0	10	10	8	4	65.11	68	21.7%	0.0%	21.6%	88	87.41	1	0	10	110	4	-1	
1	0	10	10	8	5	40.97	44	13.6%	0.1%	13.6%	55	54.76	1	0	10	110	5	-1	
1	0	10	10	8	8	108.95	127	36.2%	-0.1%	36.3%	156	146.77	1	0	10	110	8	-1	
1	1	11	11	8	0	45.45	49	11.1%	0.1%	11.0%	64	61.69	1	1	11	111	0	-1	
1	1	11	11	8	1	15.55	16	3.8%	0.0%	3.8%	20	21.15	1	1	11	111	1	-1	
1	1	11	11	8	2	9.10	10	2.2%	0.0%	2.2%	17	12.44	1	1	11	111	2	-1	
1	1	11	11	8	3	9.62	11	2.3%	-0.2%	2.6%	12	14.40	1	1	11	111	3	-1	
1	1	11	11	8	4	129.74	141	31.6%	0.3%	31.3%	197	175.52	1	1	11	111	4	-1	
1	1	11	11	8	5	72.71	77	17.7%	-0.1%	17.8%	101	99.59	1	1	11	111	5	-1	
1	1	11	11	8	8	128.76	143	31.3%	0.0%	31.3%	216	175.70	1	1	11	111	8	-1	
1	2	12	12	8	0	72.93	75	5.1%	0.0%	5.1%	82	80.49	1	2	12	112	0	-1	
1	2	12	12	8	1	20.79	22	1.5%	0.0%	1.5%	26	22.89	1	2	12	112	1	-1	
1	2	12	12	8	2	42.42	46	3.0%	0.0%	3.0%	50	46.46	1	2	12	112	2	-1	
1	2	12	12	8	3	28.56	27	2.0%	0.0%	2.0%	35	31.44	1	2	12	112	3	-1	
1	2	12	12	8	4	820.24	854	57.8%	0.0%	57.8%	950	904.90	1	2	12	112	4	-1	
1	2	12	12	8	5	174.13	174	12.3%	0.1%	12.2%	198	190.98	1	2	12	112	5	-1	
1	2	12	12	8	8	261.03	276	18.4%	0.0%	18.4%	334	288.22	1	2	12	112	8	-1	
1	3	13	13	8	0	23.93	26	15.8%	0.5%	15.4%	86	97.59	1	3	13	113	0	-1	
1	3	13	13	8	1	7.65	8	5.1%	-0.9%	5.9%	38	37.57	1	3	13	113	1	-1	
1	3	13	13	8	2	4.08	4	2.7%	0.7%	2.0%	15	12.90	1	3	13	113	2	-1	
								0.0%	-0.5%	0.5%	5	3.37	1	3	13	113	3	-1	
1	3	13	13	8	4	30.17	31	19.9%	0.3%	19.7%	118	125.03	1	3	13	113	4	-1	
1	3	13	13	8	5	21.92	28	14.5%	0.5%	14.0%	88	88.93	1	3	13	113	5	-1	
1	3	13	13	8	8	63.59	69	42.0%	-0.5%	42.5%	271	269.96	1	3	13	113	8	-1	
1	4	14	14	8	0	18.68	18	8.3%	-0.4%	8.6%	82	77.63	1	4	14	114	0	-1	
1	4	14	14	8	1	13.40	14	5.9%	0.3%	5.6%	48	50.81	1	4	14	114	1	-1	
1	4	14	14	8	2	6.47	8	2.9%	0.1%	2.8%	25	24.88	1	4	14	114	2	-1	
1	4	14	14	8	3	6.05	6	2.7%	0.5%	2.2%	19	19.92	1	4	14	114	3	-1	
1	4	14	14	8	4	64.84	61	28.7%	-0.3%	29.0%	262	260.94	1	4	14	114	4	-1	
1	4	14	14	8	5	26.09	32	11.5%	-0.4%	11.9%	109	107.61	1	4	14	114	5	-1	
1	4	14	14	8	8	90.44	92	40.0%	0.2%	39.9%	379	359.07	1	4	14	114	8	-1	
1	5	15	15	8	0	36.43	44	5.8%	0.0%	5.7%	162	156.36	1	5	15	115	0	-1	
1	5	15	15	8	1	16.56	20	2.6%	0.0%	2.6%	78	71.21	1	5	15	115	1	-1	
1	5	15	15	8	2	5.95	8	0.9%	-0.1%	1.1%	41	28.79	1	5	15	115	2	-1	
1	5	15	15	8	3	6.92	7	1.1%	0.0%	1.1%	36	30.18	1	5	15	115	3	-1	
1	5	15	15	8	4	347.29	351	54.8%	0.3%	54.5%	1,460	1,488.60	1	5	15	115	4	-1	
1	5	15	15	8	5	40.48	40	6.4%	-0.2%	6.5%	180	178.58	1	5	15	115	5	-1	
1	5	15	15	8	8	179.94	175	28.4%	0.0%	28.4%	809	775.30	1	5	15	115	8	-1	

METHODISTS

Pre-1984											1984 on								
Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	nwtd	nRaw	Pct wtd	diff	Pct wtd	nRaw	nwtd	Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	
2	0	20	20	8	0	11.94	11	4.3%	0.0%	4.3%	12	12.54	2	0	20	120	0	-1	
2	0	20	20	8	1	3.82	3	1.4%	0.0%	1.3%	4	3.92	2	0	20	120	1	-1	
2	0	20	20	8	2	197.16	214	71.4%	-0.2%	71.5%	217	208.17	2	0	20	120	2	-1	
2	0	20	20	8	3	12.80	13	4.6%	0.2%	4.4%	12	12.78	2	0	20	120	3	-1	
2	0	20	20	8	8	50.61	55	18.3%	-0.1%	18.4%	55	53.69	2	0	20	120	8	-1	
2	1	21	21	8	0	12.24	12	2.5%	0.0%	2.4%	16	11.46	2	1	21	121	0	-1	
								0.0%	-0.1%	0.1%	2	0.56	2	1	21	121	1	-1	
2	1	21	21	8	2	389.95	411	78.6%	-0.1%	78.7%	394	368.89	2	1	21	121	2	-1	
2	1	21	21	8	3	24.60	26	5.0%	0.2%	4.7%	27	22.15	2	1	21	121	3	-1	
2	1	21	21	8	8	69.17	72	13.9%	0.0%	14.0%	69	65.57	2	1	21	121	8	-1	
2	2	22	22	8	0	40.54	44	6.7%	0.0%	6.7%	49	44.84	2	2	22	122	0	-1	
2	2	22	22	8	1	20.56	21	3.4%	0.1%	3.3%	22	22.04	2	2	22	122	1	-1	
2	2	22	22	8	2	465.48	493	77.0%	0.0%	77.0%	544	512.49	2	2	22	122	2	-1	
2	2	22	22	8	3	21.20	22	3.5%	0.0%	3.6%	27	23.67	2	2	22	122	3	-1	
2	2	22	22	8	8	56.78	58	9.4%	0.0%	9.4%	66	62.47	2	2	22	122	8	-1	
2	3	23	23	8	0	6.03	8	7.4%	0.5%	6.9%	21	22.20	2	3	23	123	0	-1	
2	3	23	23	8	1	1.92	2	2.3%	-0.2%	2.5%	11	8.08	2	3	23	123	1	-1	
2	3	23	23	8	2	58.09	55	71.0%	0.1%	70.9%	217	229.10	2	3	23	123	2	-1	
2	3	23	23	8	3	4.98	5	6.1%	-0.8%	6.9%	24	22.14	2	3	23	123	3	-1	
2	3	23	23	8	8	10.75	9	13.1%	0.3%	12.8%	44	41.39	2	3	23	123	8	-1	
2	4	24	24	8	0	3.46	4	2.5%	-0.4%	2.9%	18	15.78	2	4	24	124	0	-1	
2	4	24	24	8	1	0.98	1	0.7%	0.2%	0.5%	3	2.66	2	4	24	124	1	-1	
2	4	24	24	8	2	110.79	110	80.6%	0.4%	80.2%	433	438.10	2	4	24	124	2	-1	
2	4	24	24	8	3	4.96	5	3.6%	-0.5%	4.1%	20	22.24	2	4	24	124	3	-1	
2	4	24	24	8	8	17.31	17	12.6%	0.3%	12.3%	67	67.34	2	4	24	124	8	-1	
2	5	25	25	8	0	14.66	16	7.4%	0.4%	7.0%	52	49.93	2	5	25	125	0	-1	
2	5	25	25	8	1	5.39	5	2.7%	-0.6%	3.4%	28	23.94	2	5	25	125	1	-1	
2	5	25	25	8	2	147.14	141	74.7%	0.3%	74.4%	524	529.32	2	5	25	125	2	-1	
2	5	25	25	8	3	5.98	6	3.0%	0.6%	2.5%	19	17.56	2	5	25	125	3	-1	
2	5	25	25	8	8	23.92	28	12.1%	-0.6%	12.7%	93	90.64	2	5	25	125	8	-1	

LUTHERANS

Pre-1984											1984 on								
Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	nwtd	nRaw	Pct wtd	diff	Pct wtd	nRaw	nwtd	Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	
3	0	30	30	8	0	46.90	47	16.7%	-0.1%	16.8%	41	37.10	3	0	30	130	0	-1	
3	0	30	30	8	1	47.66	49	16.9%	-0.3%	17.2%	40	38.07	3	0	30	130	1	-1	
3	0	30	30	8	2	54.02	51	19.2%	0.2%	19.0%	39	42.05	3	0	30	130	2	-1	
3	0	30	30	8	3	6.78	6	2.4%	0.3%	2.1%	5	4.70	3	0	30	130	3	-1	
3	0	30	30	8	4	26.89	27	9.6%	-0.1%	9.7%	22	21.43	3	0	30	130	4	-1	
3	0	30	30	8	5	39.10	40	13.9%	0.2%	13.7%	32	30.42	3	0	30	130	5	-1	
3	0	30	30	8	8	59.87	57	21.3%	-0.2%	21.5%	53	47.53	3	0	30	130	8	-1	
3	1	31	31	8	0	143.74	160	27.3%	0.0%	27.3%	155	143.92	3	1	31	131	0	-1	
3	1	31	31	8	1	33.47	34	6.4%	0.0%	6.4%	34	33.56	3	1	31	131	1	-1	
3	1	31	31	8	2	191.55	189	36.4%	0.0%	36.3%	190	191.47	3	1	31	131	2	-1	
3	1	31	31	8	3	40.38	43	7.7%	0.1%	7.6%	43	39.85	3	1	31	131	3	-1	
3	1	31	31	8	4	35.40	35	6.7%	-0.1%	6.9%	37	36.16	3	1	31	131	4	-1	
3	1	31	31	8	5	40.73	39	7.7%	-0.1%	7.8%	50	41.29	3	1	31	131	5	-1	
3	1	31	31	8	8	41.55	42	7.9%	0.1%	7.8%	45	40.87	3	1	31	131	8	-1	
3	2	32	32	8	0	15.13	16	14.1%	0.7%	13.4%	20	15.85	3	2	32	132	0	-1	
3	2	32	32	8	1	16.54	16	15.4%	0.1%	15.3%	18	18.11	3	2	32	132	1	-1	
3	2	32	32	8	2	42.38	44	39.4%	-0.1%	39.5%	46	46.70	3	2	32	132	2	-1	
3	2	32	32	8	3	0.98	1	0.9%	-0.5%	1.4%	2	1.65	3	2	32	132	3	-1	
3	2	32	32	8	4	4.48	5	4.2%	-0.4%	4.6%	6	5.40	3	2	32	132	4	-1	
3	2	32	32	8	5	15.74	19	14.6%	0.6%	14.1%	15	16.63	3	2	32	132	5	-1	
3	2	32	32	8	8	12.26	12	11.4%	-0.2%	11.7%	12	13.76	3	2	32	132	8	-1	
3	3	33	33	8	0	16.98	16	21.0%	-0.7%	21.7%	56	60.62	3	3	33	133	0	-1	
3	3	33	33	8	1	10.90	10	13.5%	0.3%	13.2%	33	36.77	3	3	33	133	1	-1	
3	3	33	33	8	2	14.46	14	17.9%	0.3%	17.7%	44	49.24	3	3	33	133	2	-1	
3	3	33	33	8	3	1.92	2	2.4%	-0.5%	2.8%	8	7.92	3	3	33	133	3	-1	
3	3	33	33	8	4	4.36	5	5.4%	-0.8%	6.2%	16	17.23	3	3	33	133	4	-1	
3	3	33	33	8	5	9.96	9	12.3%	1.8%	10.6%	27	29.50	3	3	33	133	5	-1	
3	3	33	33	8	8	22.12	23	27.4%	-0.4%	27.8%	78	77.64	3	3	33	133	8	-1	
3	4	34	34	8	0	54.31	46	26.3%	0.2%	26.1%	196	195.51	3	4	34	134	0	-1	
3	4	34	34	8	1	10.11	9	4.9%	-0.2%	5.1%	34	37.95	3	4	34	134	1	-1	
3	4	34	34	8	2	58.37	54	28.3%	-0.2%	28.5%	204	213.65	3	4	34	134	2	-1	
3	4	34	34	8	3	15.95	13	7.7%	0.3%	7.4%	51	55.41	3	4	34	134	3	-1	
3	4	34	34	8	4	11.87	11	5.8%	0.5%	5.2%	41	39.26	3	4	34	134	4	-1	
3	4	34	34	8	5	19.58	19	9.5%	-0.9%	10.4%	75	78.02	3	4	34	134	5	-1	
3	4	34	34	8	8	36.18	35	17.5%	0.3%	17.2%	125	129.18	3	4	34	134	8	-1	
3	5	35	35	8	0	7.79	7	24.2%	-0.5%	24.7%	47	46.13	3	5	35	135	0	-1	
3	5	35	35	8	1	2.64	3	8.2%	-1.1%	9.4%	17	17.47	3	5	35	135	1	-1	
3	5	35	35	8	2	8.55	9	26.6%	1.3%	25.3%	45	47.21	3	5	35	135	2	-1	
3	5	35	35	8	3	2.02	2	6.3%	0.8%	5.5%	9	10.23	3	5	35	135	3	-1	
3	5	35	35	8	4	2.08	2	6.5%	-0.8%	7.2%	15	13.50	3	5	35	135	4	-1	
3	5	35	35	8	5	2.98	4	9.2%	-0.1%	9.3%	17	17.40	3	5	35	135	5	-1	
3	5	35	35	8	8	6.14	6	19.1%	0.4%	18.6%	34	34.79	3	5	35	135	8	-1	

PRESBYTERIANS

Pre-1984											1984 on								
Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	nwtd	nRaw	Pct wtd	diff	Pct wtd	nRaw	nwtd	Denom Family	Impute Categ	Impute Group	Impute Chunk	Denom Subgroup	Imputed Subgroup	
4	0	40	40	8	0	49.46	48	21.8%	0.0%	21.8%	53	51.28	4	0	40	140	0	-1	
4	0	40	40	8	1	67.89	66	30.0%	-0.1%	30.0%	77	70.59	4	0	40	140	1	-1	
4	0	40	40	8	2	27.54	25	12.2%	0.0%	12.2%	27	28.64	4	0	40	140	2	-1	
4	0	40	40	8	3	23.42	25	10.3%	0.2%	10.1%	23	23.84	4	0	40	140	3	-1	
4	0	40	40	8	8	58.32	59	25.7%	-0.1%	25.8%	62	60.67	4	0	40	140	8	-1	
4	1	41	41	8	0	41.06	45	24.8%	0.0%	24.8%	50	48.74	4	1	41	141	0	-1	
4	1	41	41	8	1	56.26	60	34.0%	-0.2%	34.2%	72	67.27	4	1	41	141	1	-1	
4	1	41	41	8	2	16.60	18	10.0%	-0.2%	10.2%	22	20.09	4	1	41	141	2	-1	
4	1	41	41	8	3	17.95	19	10.8%	0.5%	10.3%	19	20.31	4	1	41	141	3	-1	
4	1	41	41	8	8	33.70	32	20.4%	-0.2%	20.6%	45	40.48	4	1	41	141	8	-1	
4	2	42	42	8	0	43.50	45	30.3%	-0.2%	30.5%	58	59.90	4	2	42	142	0	-1	
4	2	42	42	8	1	45.02	48	31.4%	0.4%	31.0%	65	60.69	4	2	42	142	1	-1	
4	2	42	42	8	2	15.87	15	11.1%	-0.1%	11.2%	24	21.89	4	2	42	142	2	-1	
4	2	42	42	8	3	18.77	19	13.1%	0.0%	13.1%	29	25.74	4	2	42	142	3	-1	
4	2	42	42	8	8	20.25	22	14.1%	-0.1%	14.2%	34	27.86	4	2	42	142	8	-1	
4	3	43	43	8	0	12.63	12	23.1%	-1.0%	24.1%	55	64.27	4	3	43	143	0	-1	
4	3	43	43	8	1	16.27	14	29.8%	0.7%	29.0%	72	77.54	4	3	43	143	1	-1	
4	3	43	43	8	2	4.42	4	8.1%	-0.3%	8.4%	18	22.48	4	3	43	143	2	-1	
4	3	43	43	8	3	6.31	6	11.5%	0.7%	10.9%	26	29.02	4	3	43	143	3	-1	
4	3	43	43	8	8	15.03	15	27.5%	-0.1%	27.6%	70	73.72	4	3	43	143	8	-1	
4	4	44	44	8	0	14.69	15	24.1%	1.1%	22.9%	38	40.13	4	4	44	144	0	-1	
4	4	44	44	8	1	20.40	20	33.4%	-1.5%	34.9%	62	61.12	4	4	44	144	1	-1	
4	4	44	44	8	2	7.83	7	12.8%	3.0%	9.9%	15	17.27	4	4	44	144	2	-1	
4	4	44	44	8	3	2.61	2	4.3%	-3.0%	7.2%	14	12.64	4	4	44	144	3	-1	
4	4	44	44	8	8	15.54	13	25.5%	0.4%	25.1%	51	43.90	4	4	44	144	8	-1	
4	5	45	45	8	0	17.20	18	28.5%	2.1%	26.4%	58	61.54	4	5	45	145	0	-1	
4	5	45	45	8	1	10.81	11	17.9%	-3.0%	20.9%	46	48.62	4	5	45	145	1	-1	
4	5	45	45	8	2	9.73	9	16.1%	0.8%	15.3%	39	35.61	4	5	45	145	2	-1	
4	5	45	45	8	3	6.43	6	10.6%	-0.1%	10.7%	27	24.99	4	5	45	145	3	-1	
4	5	45	45	8	8	16.17	13	26.8%	0.1%	26.7%	55	62.16	4	5	45	145	8	-1	

Appendix B: SPSS code for Imputation

```
* =====.
* Run 1c - do imputation for denominational analysis of GSS data.
* Syntax by Stephen Hart, Nov 2007.
* This is the exact file run, only with more comments added.
* =====.

get file = 'AnalysisDataSetAfterRun1b.sav' .

* problem to be solved is change in GSS practices starting 1984;
  specific denoms broken down from then on within
    Baptist, Methodist, Lutheran, Presbyterian families;
  this causes major biases in trend analysis if not corrected;
  solution is imputation = reassignment of cases now shown as
  denom = 18, 28, 38, 48 (in four families) to specific groups;
  doing this using imperfect assumption that distribution among
    subgroups within each family hasn't shifted hugely;
  this is supported by data 1984-on, showing no big change;
  basically, get 1984-on proportions and use them;
  make a little more precise by doing this independently
  within demog categories: region and cohort;
  also using a method of assignment, similar to systematic selection, that
    reduces random fluctuation in number of cases assigned to each subgroup.

* create variables needed for imputation:
  before/after 1984,
  cohort, region,
  imputation category and chunk based on these;
  denom family and subgroup (split out from denom)
  note that weighting has already been done.
if (year < 1984) AfterDenomChange = 0.
if (year >= 1984) AfterDenomChange = 1.
variable labels AfterDenomChange '1984 on = 1, else = 0'.
value labels AfterDenomChange 1 '1984 on' 0 'pre-1984'.
recode region
  (1 2 9 = 0)
  (3 4 8 = 1)
  (5 6 7 = 2)
  into region2.
var labels region2 'Region-coasts/heartland/south'.
value labels region2
  0 'Coasts'
  1 'Heartland'
  2 'South'.

* for cohort, treat missing as 0 since more likely to be unknown
  for older Rs; no missing cases for region.
recode cohort
  (low thru 1945 = 0) (1946 thru high = 1) (missing = 0)
  into cohort2.
var labels cohort2 'Cohort-thru1945/1946 on'.
value labels cohort2
  0 'Pre-1946'
  1 '1946 on'.
compute CategForImpute = region2 + (cohort2 * 3).
var labels CategForImpute 'Category for imputation (cohort / region)'.
value labels CategForImpute
  0 'pre-1946 coasts'
  1 'pre-1946 heartland'
  2 'pre-1946 south'
  3 '1946+ coasts'
  4 '1946+ heartland'
  5 '1946+ south'.

* denom family and subgroup.
compute CaseForImpute = 0.
value labels CaseforImpute 1 'Imputation done' 0 'No imputation'.
do if (denom >= 10 and denom <= 49).
```

```

compute DenomFamily = trunc(denom / 10).
compute DenomSubgroup = mod(denom, 10).
compute ImputeGroup = (10 * DenomFamily) + CategForImpute.
compute ImputeChunk = (100 * AfterDenomChange) + imputegroup.
if (Afterdenomchange = 0) caseforimpute = 1.
end if.
var labels DenomFamily 'Denominational family for adjustments'.
val labels DenomFamily
  1 'baptist'
  2 'methodist'
  3 'lutheran'
  4 'presbyterian'.
var labels DenomSubgroup 'subgroup 0-8 within family, for adjustments'.
recode DenomFamily DenomSubgroup ImputeChunk ImputeGroup (sysmis = -1).
* note that there are 6 imputation categories (2 cohorts x 3 regions)
  and 24 imputation chunks (6 imputation categories x 4 denom families).

* do imputation; here is the procedure, described geometrically:
  the process is carried out 24 times, once for each chunk;
  for each, there will be two bars:
    lower, for pre-1984 cases needed to have an imputed value of 'denom'
    upper, with information on 1984-on cases;
  in the lower one:
    think of a chunk as a bar from 0 to the total wtd number of cases in chunk
      (=sum(finalwt)), with subpieces, each with length = finalwt of the case;
  we will calculate the start, end, and midpoint of each case's subpiece,
  and a selection point that is randomly chosen within each case's subpiece;
  then the whole bar will be compressed to go from 0 to 1;
  next we will arrange above this the second bar, from 0 to 1,
  showing the prob of each denom subgroup within the chunk,
    based on 1984-on cases;
  cases will be imputed based on which part of the upper bar
  the case selection point (in the lower bar) falls in.

* prepare for aggregation by sorting;
  make random within groups so that imputation can be random assignment;
  note that denomsubgroup only affects 1984-on, since 8 for all before;
  random1 and random2 were previously created as uniform 0-1 distributions.

sort cases by ImputeChunk DenomSubgroup Random1.
compute OrderInFile = $CASENUM.
create CumWt = csum(finalwt).
execute.
weight by finalwt.

* aggregate on imputation chunks, adding aggregate values to file.
aggregate outfile = * mode = addvariables
  /presorted
  /break = ImputeChunk
  /NCasesInChunkWtd = n
  /NCasesInChunkRaw = nu
  /FirstCaseNoInChunk = first(OrderInFile)
  /WtOfFirstCaseInChunk = first(finalwt)
  /FirstCumWtInChunk = first(cumwt)
  /FirstRandom1InChunk = first(Random1).

* calculate case selection point, finishing the lower bar.
compute CaseIndexWithinChunk = OrderInfile - firstcasenoinchunk.
compute CaseNoWithinChunk = OrderInfile - firstcasenoinchunk + 1.
compute CumWtStartOfChunk = FirstCumWtInChunk - WtOfFirstCaseInChunk.
compute CaseCumWtIntervalEnd = CumWt - CumWtStartOfChunk.
compute CaseCumWtIntervalStart = CumWt - CumWtStartOfChunk - finalwt.
compute CaseCumWtInternalMidpoint = CumWt - CumWtStartOfChunk - (finalwt * 0.5).
compute CaseSelectionPoint = CumWt - CumWtStartOfChunk - (finalwt * Random2).
compute ImputeComparisonValue = CaseSelectionPoint / NCasesInChunkWtd.
sort cases by imputegroup denomsubgroup.
save outfile = 'AnalysisDataSetPartwayThroughRun1c.sav' / compressed.

* now we calculate the probabilities and ranges, based on 1984-on cases;
  this creates the upper bar.

```

```

select if (afterdenomchange = 1 and denomfamily > 0).
weight by finalwt.
compute constantzero = 0.
* make table of probabilities of being in a subgroup;
  given one's denom family and imputation category.
aggregate outfile = 'SubgroupProbTable.sav'
  /presorted
  /break = ImputeGroup
  /TotCasesInGroupWtd = n
  /TotCasesInGroupRaw = nu
  /StartSubgroup0 = min(constantzero)
  /PropSubgroup0 = fin(denomsubgroup,0,0)
  /EndSubgroup0 = fin(denomsubgroup,0,0)
  /StartSubgroup1 = fin(denomsubgroup,0,0)
  /PropSubgroup1 = fin(denomsubgroup,1,1)
  /EndSubgroup1 = fin(denomsubgroup,0,1)
  /StartSubgroup2 = fin(denomsubgroup,0,1)
  /PropSubgroup2 = fin(denomsubgroup,2,2)
  /EndSubgroup2 = fin(denomsubgroup,0,2)
  /StartSubgroup3 = fin(denomsubgroup,0,2)
  /PropSubgroup3 = fin(denomsubgroup,3,3)
  /EndSubgroup3 = fin(denomsubgroup,0,3)
  /StartSubgroup4 = fin(denomsubgroup,0,3)
  /PropSubgroup4 = fin(denomsubgroup,4,4)
  /EndSubgroup4 = fin(denomsubgroup,0,4)
  /StartSubgroup5 = fin(denomsubgroup,0,4)
  /PropSubgroup5 = fin(denomsubgroup,5,5)
  /EndSubgroup5 = fin(denomsubgroup,0,5)
  /StartSubgroup8 = fin(denomsubgroup,0,5)
  /PropSubgroup8 = fin(denomsubgroup,8,8)
  /EndSubgroup8 = fin(denomsubgroup,0,8).

* dump table for checking.
get file = 'SubgroupProbTable.sav'.
save translate
  outfile = 'SubgroupProbTable.xls'
  /type = xls /version = 8 /replace /fieldnames
  /cells = values.

* bring probabilities into main file via table lookup;
  file is already sorted in appropriate order.
match files
  file = 'AnalysisDataSetPartwayThroughRun1c.sav'
  table = 'SubgroupProbTable.sav'
  /in = GotSubgroupProb
  /by ImputeGroup.

* do actual imputation.
compute ImputedDenom = -1.
compute ImputedSubgroup = -1.
var labels ImputedDenom 'Imputed denom if imputation done'.
var labels ImputedSubgroup 'Imputed subgroup if imputation done'.
do if (CaseForImpute = 1).
compute ImputedSubgroup = -2.
* above is for check; should never happen; did not in most recent run.
if (ImputeComparisonValue >= startsubgroup0 and ImputeComparisonValue < endsubgroup0)
ImputedSubgroup = 0.
if (ImputeComparisonValue >= startsubgroup1 and ImputeComparisonValue < endsubgroup1)
ImputedSubgroup = 1.
if (ImputeComparisonValue >= startsubgroup2 and ImputeComparisonValue < endsubgroup2)
ImputedSubgroup = 2.
if (ImputeComparisonValue >= startsubgroup3 and ImputeComparisonValue < endsubgroup3)
ImputedSubgroup = 3.
if (ImputeComparisonValue >= startsubgroup4 and ImputeComparisonValue < endsubgroup4)
ImputedSubgroup = 4.
if (ImputeComparisonValue >= startsubgroup5 and ImputeComparisonValue < endsubgroup5)
ImputedSubgroup = 5.
* values 6 and 7 are not used by GSS (4 and 5 are used only for Baptists and Lutherans).
if (ImputeComparisonValue >= startsubgroup8 and ImputeComparisonValue <= endsubgroup8)
ImputedSubgroup = 8.

```

```
compute ImputedDenom = (DenomFamily * 10) + ImputedSubgroup.  
end if.
```

```
weight by finalwt.
```

```
save outfile = 'AnalysisDatasetAfterRun1c.sav' /compressed.
```

```
* ImputedDenom can now be used in place of denom for cases where <> -1.
```

```
* That is, pre-1984 cases in these four denominational families.
```

Appendix E: SPSS Code for Denomination Mapping

[will be added soon]

Appendix C

Mapping of Denominational Groups

<i>DengrpSpecific</i>			<i>DengrpMedium</i>		<i>DengrpBroad</i>		<i>DengrpDich</i>	
<i>Value</i>	<i>Meaning</i>	<i>NCasesWtd</i>	<i>Value</i>	<i>Meaning</i>	<i>Value</i>	<i>Meaning</i>	<i>Value</i>	<i>Meaning</i>
100	Catholic	13,243	1	Catholic	1	Catholic /Orthodox	0	Not traditionalist Protestant
101	Orthodox	90	2	Orthodox				
110	Episcopal	1,160	3	Modernist Protestant	2	Modernist / Mainline Protestant		
111	UCC	562						
165	Quakers	54						
190	Prot misc modernist	51						
112	PCUSA and predecessors	1,783	4	Other Mainline Protestant				
113	United Methodists	3,670						
114	Mainline Lutheran	1,435						
115	No Baptists	334						
116	RCA & reformed	198						
117	Disciples	113						
121	Presby-other	232						
144	Unspec Methodist	598						
182	Other Lutheran	209						
193	Lutheran dk which	567						
131	Natl & AA Baptist	367	6	African American Protestant	4	African American Protestant		
132	AME/Z & AA Methodist	341						
133	COGIC	46						
195	Prot misc probably AA	57						
161	Christian Science	79	7	Other and unclassifiable Christian	5	Other or unclassifiable Christian		
162	Mormon	683						
163	Moravian	15						
164	Mennonite	52						
166	Amish	2						
181	Brethren	92						
188	Christian unspecified	140						
189	_Christian_ unclear Disc or trad	527						
192	Prot misc could be anything	36						
196	Prot non-denom	2,130						
197	Prot unspecified/unclear	328						
198	Christian non-denom	110						
200	Jewish	1,035	9	Jewish	6	Jewish		
300	Muslim	88	10	Muslim	7	Other faith		
400	Hindu	53	11	Hindu				
500	Buddhist	92	12	Buddhist				
600	Other Eastern	21	13	Other Eastern				
150	Unit Universalist	125	14	Other Faith				
700	Native American	18						
800	Other	966						
900	None	4,928	15	No Religion	8	No religion		
122	Cons Lutheran	1,106	5	Traditionalist Protestant	3	Traditionalist Protestant	1	Traditionalist Protestant
141	So and other(=trad) Baptist	6,405						
142	Trad Methodist	61						
143	Other Methodist	191						
160	Adventists	202						
170	Church of Christ	572						
171	Other Holiness/Pentecostal	1,045						
172	Assemblies of God	331						
173	Nazarene	217						
174	Churches of God	294						
175	Jehovahs Witnesses	337						
188	Christian unsp-prob mostly trad	149						
191	Unspecified Baptist	2,947						
194	Prot misc probably trad white	463						
999	Missing data	209	99	Missing Data	9	Missing Data	9	Missing Data

Mapping of Detailed Denominational Codes to Denominational Categories

Raw denominational codes (relig/denom/other) code meaning	dengrpSpecific code meaning
160028 Prot. / Other / Christian Catholic 160123 Prot. / Other / Polish National Church 200000 Catholic / NA / NA	100 Catholic
1000000 Orthodox-Christian / NA / NA	101 Orthodox
150000 Prot. / Episcopal Church / NA	110 Episcopal
160040 Prot. / Other / Congregationalist, 1st Congreg 160046 Prot. / Other / Evangelical Reformed 160072 Prot. / Other / Reformed United Church of Christ 160081 Prot. / Other / United Church of Christ	111 UCC
140000 Prot. / Presbyterian Church in the USA / NA 141000 Prot. / United Presbyterin Church in the USA / NA 143000 Prot. / Presbyterian Church (USA) / NA 148000 Prot. / Presbyterian DKW / NA	112 PCUSA and predecessors
122000 Prot. / United Methodist Church / NA	113 United Methodists
130000 Prot. / American Lutheran Church / NA 131000 Prot. / Lutheran Church in America / NA 135000 Prot. / Evangelical Lutheran / NA	114 Mainline Lutheran
111000 Prot. / American Baptist Churches in the U.S.A. / NA 160019 Prot. / Other / Baptist (Northern)	115 No Baptists
160032 Prot. / Other / Christian Reform 160043 Prot. / Other / Dutch Reform 160050 Prot. / Other / First Reformed 160071 Prot. / Other / Reformed 160073 Prot. / Other / Reformed Church of Christ 160089 Prot. / Other / Grace Reformed 160099 Prot. / Other / American Reform	116 RCA & reformed
160025 Prot. / Other / Christian Disciples 160044 Prot. / Other / Disciples of Christ 160049 Prot. / Other / First Christian Disciples of Christ	117 Disciples
142000 Prot. / Other Presbyterian Churches / NA	121 Presby-other
132000 Prot. / Lutheran Church Missouri Synod / NA 133000 Prot. / Wisconsin Evangelical Lutheran Synod / NA	122 Cons Lutheran
112000 Prot. / National Baptist Convention of America / NA 113000 Prot. / National Baptist Convention, USA, Inc / NA 160133 Prot. / Other / Primitive Baptist	131 Natl & AA Baptist
120000 Prot. / African Methodist Episcopal Church / NA 121000 Prot. / African Methodist Episcopal Zion Church / NA 160015 Prot. / Other / African Methodist	132 AME/Z & AA Methodist
160037 Prot. / Other / Church of God in Christ 170037 Prot. / No denom or non-denom / Church of God in Christ	133 COGIC

Mapping of Detailed Denominational Codes to Denominational Categories

Raw denominational codes (relig/denom/other) code meaning	denggrpSpecific code meaning
110000 Prot. / American Baptist Assoc. / NA 114000 Prot. / Southern Baptist Convention / NA 115000 Prot. / Other Baptist Churchs / NA 160016 Prot. / Other / Free Will Baptist 160093 Prot. / Other / Missionary Baptist	141 So and other(=trad) Baptist
160013 Prot. / Other / Free Methodist 160083 Prot. / Other / Wesleyan 160084 Prot. / Other / Wesleyan Methodist--Pilgrim 160112 Prot. / Other / Evangelical Methodist	142 Trad Methodist
123000 Prot. / Other Methodist Churches / NA	143 Other Methodist
128000 Prot. / Methodist, DKW / NA	144 Unspec Methodist
160080 Prot. / Other / Unitarian, Universalist	150 Unit Universalist
160010 Prot. / Other / Advent Christian 160077 Prot. / Other / 7th Day Adventist 500077 Other / NA / 7th Day Adventist	160 Adventists
160033 Prot. / Other / Christian Scientist 160074 Prot. / Other / Religious Science	161 Christian Science
160059 Prot. / Other / LDS 160060 Prot. / Other / LDS--Mormon 160061 Prot. / Other / LDS--Reorganized 160062 Prot. / Other / LDS--Jesus Christ; Church of Jesus LDS 160064 Prot. / Other / Mormon	162 Mormon
160008 Prot. / Other / Moravian	163 Moravian
160063 Prot. / Other / Mennonite 160115 Prot. / Other / Mennonite Brethren	164 Mennonite
160054 Prot. / Other / Friends 160070 Prot. / Other / Quaker	165 Quakers
160111 Prot. / Other / Amish	166 Amish
160035 Prot. / Other / Church of Christ	170 Church of Christ
160038 Prot. / Other / Church of God in Christ Holiness 160052 Prot. / Other / Full Gospel 160053 Prot. / Other / Four Square Gospel 160055 Prot. / Other / Holy Roller 160056 Prot. / Other / Holiness; Church of Holiness 160057 Prot. / Other / Pilgrim Holiness 160067 Prot. / Other / Pentecostal Church of God 160068 Prot. / Other / Pentecostal 160069 Prot. / Other / Pentecostal Holiness, Holiness Pentecostal 160079 Prot. / Other / United Holiness 160090 Prot. / Other / Holiness Church of God 160102 Prot. / Other / Charismatic 500053 Other / NA / Four Square Gospel	171 Other Holiness/Pentecostal
160012 Prot. / Other / Assembly of God 160066 Prot. / Other / Pentecostal Assembly of God	172 Assemblies of God
160018 Prot. / Other / Holiness (Nazarene) 160065 Prot. / Other / Nazarene	173 Nazarene

Mapping of Detailed Denominational Codes to Denominational Categories

Raw denominational codes (relig/denom/other)		denggrpSpecific	
code	meaning	code	meaning
118036	Prot. / Baptist, DKW / Churches of God (x with Christ, Holiness) <i>Note: above must be NORC error; recoded to 160036 before processing</i>	174	Churches of God
160036	Prot. / Other / Churches of God (x with Christ and Holiness)		
160058	Prot. / Other / Jehovahs Witnesses	175	Jehovahs Witnesses
500058	Other / NA / Jehovahs Witnesses		
160020	Prot. / Other / Brethren Church, Brethren	181	Brethren
160023	Prot. / Other / United Brethren, United Brethen in Christ		
160120	Prot. / Other / Evangelical United Brethren		
160100	Prot. / Other / Grace Brethren		
134000	Prot. / Other Lutheran Churches / NA	182	Other Lutheran
160105	Prot. / Other / Latvian Lutheran		
1100000	Christian / NA / NA	188	Christian unspecified
1198000	Christian / DK / NA		
1199999	Christian / NA / NA		
160031	Prot. / Other / Christian; Central Christian	189	_Christian_ unclear Disc or trad
160051	Prot. / Other / First Christian		
170031	Prot. / No denom or non-denom / Christian; Central Christian		
500031	Other / NA / Christian; Central Christian		
160082	Prot. / Other / United Church, Unity Church	190	Prot misc modernist
160095	Prot. / Other / Unity		
160119	Prot. / Other / United Church of Canada		
118000	Prot. / Baptist, DKW / NA	191	Unspecified Baptist
160029	Prot. / Other / Christ Church Unity	192	Prot misc could be anything
160030	Prot. / Other / Christ Adelprians		
160048	Prot. / Other / First Church		
160096	Prot. / Other / United Church of Christianity		
160098	Prot. / Other / Federated Church		
138000	Prot. / Lutheran DKW / NA	193	Lutheran dk which

Mapping of Detailed Denominational Codes to Denominational Categories

Raw denominational codes (relig/denom/other)		dengrpSpecific	
code	meaning	code	meaning
160002	Prot. / Other / Evangelical Congregational		
160003	Prot. / Other / Ind. Bible, Bible, BibleFellowship		
160005	Prot. / Other / Church of Prophecy		
160006	Prot. / Other / New Testament Christian		
160007	Prot. / Other / Church of God, Saint & Christ		
160009	Prot. / Other / Christian & Missionary Alliance		
160014	Prot. / Other / Apostolic Faith		
160017	Prot. / Other / Eden Evangelist		
160022	Prot. / Other / Brethren, Plymouth		
160024	Prot. / Other / Independent		
160026	Prot. / Other / Christ in Christian Union		
160027	Prot. / Other / Open Bible		
160034	Prot. / Other / Church of Christ, Evangelical		
160039	Prot. / Other / Church of the Living God		
160042	Prot. / Other / Covenant		
160045	Prot. / Other / Evangelical, Evangelist		
160047	Prot. / Other / Evangelist Free Church		
160076	Prot. / Other / Salvation Army		
160086	Prot. / Other / Zion Union Apostolic		
160088	Prot. / Other / Disciples of God		
160091	Prot. / Other / Evangelical Covenant		
160092	Prot. / Other / Mission Covenant		
160094	Prot. / Other / Swedish Mission		
160097	Prot. / Other / Other Fundamentalist		
160107	Prot. / Other / Apostolic Christian		
160108	Prot. / Other / Christ Cathedral of Truth		
160109	Prot. / Other / Bible Missionary		
160110	Prot. / Other / Calvary Bible		
160113	Prot. / Other / Worldwide Church of God		
160114	Prot. / Other / Church Universal and Triumphant		
160116	Prot. / Other / Church of the First Born		
160117	Prot. / Other / Missionary Church		
160118	Prot. / Other / The Way Ministry		
160121	Prot. / Other / The Church of God of Prophecy		
160122	Prot. / Other / Chapel of Faith		
160124	Prot. / Other / Faith Gospel Tabernacle		
160125	Prot. / Other / Christian Calvary Chapel	194	Prot misc probably trad white
160127	Prot. / Other / Church of Daniels Band		
160129	Prot. / Other / Living Word		
160132	Prot. / Other / Brother of Christ		
160134	Prot. / Other / Independent Fundamental Church of America		
160135	Prot. / Other / Chinese Gospel Church		
160137	Prot. / Other / New Song		
160141	Prot. / Other / New Birth Christian		
160143	Prot. / Other / Assyrian Evangelist Church		
160144	Prot. / Other / Spirit of Christ		
160145	Prot. / Other / Church of Jesus Christ of the Restoration		

Mapping of Detailed Denominational Codes to Denominational Categories

Raw denominational codes (relig/denom/other)		dengrpSpecific	
code	meaning	code	meaning
160146	Prot. / Other / Laotian Christian		
160151	Prot. / Other / World Overcomer Outreach Ministry		
160152	Prot. / Other / Course in Miracles		
160153	Prot. / Other / Unity of the Brethren		
160154	Prot. / Other / Spirit Filled		
160155	Prot. / Other / Christian Union		
160157	Prot. / Other / Community of Christ		
160158	Prot. / Other / New Hope Christian Fellowship		
160159	Prot. / Other / Community Christian Fellowship		
160165	Prot. / Other / Church of the Living God		
160167	Prot. / Other / Sanctuary		
160168	Prot. / Other / Rain on Us Deliverance Ministries		
160169	Prot. / Other / The Word Church		
160170	Prot. / Other / Cornerstone Church		
160171	Prot. / Other / Life Sanctuary		
160172	Prot. / Other / Word of Faith Church		
160173	Prot. / Other / Harvest Church		
160174	Prot. / Other / Shephards Chapel		
160175	Prot. / Other / Greater New Testament Church		
160176	Prot. / Other / Vineyard Church		
160177	Prot. / Other / Real Life Ministries		
160178	Prot. / Other / Cathedral of Joy		
160179	Prot. / Other / Great Faith Ministries		
160180	Prot. / Other / Shield of Faith Ministries		
170045	Prot. / No denom or non-denom / Evangelical, Evangelist		
500097	Other / NA / Other Fundamentalist		
160021	Prot. / Other / Witness Holiness		
160078	Prot. / Other / Sanctified, Sanctification		
160085	Prot. / Other / Zion Union		
160087	Prot. / Other / Zion Union Apostolic--Reformed		
160103	Prot. / Other / Pentecostal Apostolic		195 Prot misc probably AA
160104	Prot. / Other / House of Prayer		
160128	Prot. / Other / Christian Tabernacle		
160138	Prot. / Other / Apostolic Church		
160041	Prot. / Other / Community Church		
170000	Prot. / No denom or non-denom / NA		196 Prot non-denom

Mapping of Detailed Denominational Codes to Denominational Categories

Raw denominational codes (relig/denom/other)		denggrpSpecific	
code	meaning	code	meaning
160000	Prot. / Other / NA	197	Prot unspecified/unclear
160150	Prot. / Other / Zwinglian		
160166	Prot. / Other / United Christian		
160998	Prot. / Other / DK		
160999	Prot. / Other / NA		
198000	Prot. / DK / NA		
199000	Prot. / NA / NA		
199999	Prot. / NA / NA		
1170000	Christian / No denom or non-denom / NA	198	Christian non-denom
1300000	Inter-Nondenomenational / NA / NA		
1370000	Inter-Nondenomenational / No denom or non-denom / NA		
300000	Jewish / NA / NA	200	Jewish
900000	Moslem/Islam / NA / NA	300	Muslim
700000	Hinduism / NA / NA	400	Hindu
600000	Buddhism / NA / NA	500	Buddhist
800000	Other Eastern / NA / NA	600	Other Eastern
1200000	Native American / NA / NA	700	Native American
160011	Prot. / Other / Spiritualist	800	Other
160075	Prot. / Other / Mind Science		
160136	Prot. / Other / New Age Spirituality		
500000	Other / NA / NA		
400000	None / NA / NA	900	None
else	wild or unknown code <i>Note: 118036 is a wild code that was changed to 160036; there should be no wild codes left, so that n for 998 will be 0.</i>	998	Invalid data
570000	Other / No denom or non-denom / NA	999	Missing data
9800000	DK / NA / NA		
9898998	DK / DK / DK		
9899000	DK / NA / NA		
9900000	NA / NA / NA		
9999000	NA / NA / NA		
9999999	NA / NA / NA		

Line	Explan. Code	GSS Raw Values: Relig / Denom / Other		Algorithm Comparisons & Denominational Characteristics														Hart Denominational Groupings						
		[r]rddooo	Meaning	N > 50	dif_hout	dif_reltrad	dif_fund	nweighted	propblack	propliteralist	hart	houtrelsyn	reltradsyn	fundsyn	fund_multit	hout_multit	reltrad_multit	cds_hart	cds_fund	cds_hout	cds_reltrad	Specific	Medium	Broad
<p><i>Algorithm result codes used in comparison: C=Cath/Orth; M=Mainline Prot.; T=Trad. Prot.; A=African-Amer. Prot.; X=other or unclassifiable Christian; O=Other Faith or Jewish; N=No religion; . (dot) = missing data. Shading for categories with > 50 cases and significant differences.</i></p>																					yellow: Hart differs from Hout / Greeley		cyan: > Hart differs from reltrad but not Hout / Greeley	
<p>All situations with > 50 cases and differences between Hart and Hout / Greeley algorithm outcomes examined. Comparison explanation codes:</p> <p>A: difference due to some people being categorized as African American Prots. based on individual race rather than denom. membership. (Lines 23, 36, 107-09, 116, 125, 144)</p> <p>B: the Brethren are not trad. Prot. nor modernist in their theology, but off on another dimension. Website was consulted. (Line 67)</p> <p>C: orthodox are placed with Catholics for broad grouping, but it would also be reasonable to categorize them as other Christian. (Line 4)</p> <p>D: Disciples of Christ: this denom is also known as "Christian"; Central Christian Church may well be a Disciples church (which would be mainline); however, "Christian" churches may equally well be independent evangelical churches. Note that literalism levels are intermediate, so can't be dominantly evangelical. No way to tell; hence put in other Christian. (Lines 71-74)</p> <p>F: Fund scale for some reason puts some respondents in one category, some in another (2nd is sometimes '!'), and this affects Hout-Greeley categorization. (Lines 120, 128)</p> <p>J: Jehovah's Witnesses, despite some views held to be heterodox by traditionalists, have a largely traditionalist theology. Note that Hout / Greeley place one of the JW categories with traditionalists and the other (line 140, with only 1 unweighted case) in other faith. (Line 139)</p> <p>L: Lutherans - Other. Hout / Greeley and I categorize these as mainline; reltrad as traditionalist. Note only 38% literalism. (Line 37)</p> <p>M: Mormons. Mormon scholars tell me that theirs has a clear identity as <i>not</i> a Protestant denomination. Mormon theology is heterodox in many ways from a traditionalist Protestant standpoint. Literalism levels are like those of moderate mainline denominations, not evangelicals. Thus should not be categorized as traditionalist Protestant but as other Christian. (Lines 58-62)</p> <p>N: Non-denominational churches, or unspecified Christian ones, are often independent evangelical churches, but can also be a community church serving a community which can't support denominational ones, or a college campus or other institution without strong religious connection. I placed most of them in the other and unclassifiable Christian category, particularly since their literalism levels were intermediate. However, I placed GSS values 11-00-000 (line 141) with the traditionalists because the 61% literalism made this seem likely to be mostly evangelical churches. (Lines 81, 90-91, 141)</p> <p>P: Other Presbyterians, while on average more traditionalist than members of most defined Presbyterian groups, are still more of a mainline than trad. denom. See literalism level. (Line 35)</p> <p>R: Christian Reform website makes it clear that the theology of this church is in the traditionalist part of the mainline spectrum, not evangeical. Note relatively low literalism. This is even clearer for Dutch Reformed. (Lines 25-26)</p> <p>S: Christian Science is in no way a traditionalist religious formation, but sui generis. (Line 56)</p> <p>U: Unitarians are very clear on their website (and in conversations) that they are no longer a Christian group; some Unitarians may identify as Christians, others as Buddhists, and so on. (Line 98)</p>																								

Line	Explan. Code	GSS Raw Values: Relig / Denom / Other		Algorithm Comparisons & Denominational Characteristics														Hart Denominational Groupings									
		[r]rddooo	Meaning	N > 50	dif_hout	dif_reltrad	dif_fund	nweighted	propblack	proppleralist	hart	houtrealsyn	reltradsyn	fundsyn	fund_multit	hout_multit	reltrad_multit	cds_hart	cds_fund	cds_hout	cds_reltrad	Specific	Medium	Broad	Trad/Not		
<i>Algorithm result codes used in comparison: C=Cath/Orth; M=Mainline Prot.; T=Trad. Prot.; A=African-Amer. Prot.; X=other or unclassifiable Christian; O=Other Faith or Jewish; N=No religion; . (dot) = missing data. Shading for categories with > 50 cases and significant differences.</i>																								yellow: Hart differs from Hout / Greeley		cyan: > Hart differs from reltrad but not Hout / Greeley	
1	160028	Prot. / Other / Christian Catholic		X	X	X	5	0%	0%	C	T	T	T				1	1	1	1	100 Catholic	1 Catholic	1 Catholic / Orthodox	0 All others			
2	160123	Prot. / Other / Polish National Church		X		X	2	0%	100%	C	M	C	M				1	3	3	4							
3	200000	Catholic / NA / NA		X		X	13,237	3%	22%	C	C	C	M				1	2	4	4							
4	C	1000000	Orthodox-Christian / NA / NA	X	X	X	90	3%	14%	C	O	O	M.				2	3	6	6	101 Orthodox	2 Orthodox					
5	150000	Prot. / Episcopal Church / NA		X			1,159	7%	16%	M	M	M	M				3	3	3	2	110 Episcopal	3 Modernist protestant	2 Modernist / Mainline protestant				
6	160040	Prot. / Other / Congregationalist, 1st Congreg		X			315	2%	17%	M	M	M	M				3	3	3	2	111 UCC						
7	160046	Prot. / Other / Evangelical Reformed		X		X	9	0%	0%	M	T	M	T				3	1	1	2							
8	160072	Prot. / Other / Reformed United Church of Christ					6	0%	0%	M	M	M	M				3	3	3	2							
9	160081	Prot. / Other / United Church of Christ		X			232	1%	16%	M	M	M	M				3	3	3	2							
10	160054	Prot. / Other / Friends					11	0%	76%	M	M	M	M				3	3	3	2	165 Quakers						
11	160070	Prot. / Other / Quaker					43	4%	56%	M	M	M	M				3	3	3	2							
12	160082	Prot. / Other / United Church, Unity Church		X	X	X	10	0%	0%	M	.	O	.				3			6	190 Prot misc modernist						
13	160095	Prot. / Other / Unity		X	X	X	37	5%	0%	M	.	O	.				3			6							
14	160119	Prot. / Other / United Church of Canada					4	0%	0%	M	M	M	M				3	3	3	2							
15	140000	Prot. / Presbyterian Church in the USA / NA		X			326	2%	22%	M	M	M	M				4	2	3	2	112 PCUSA/predecessors	4 Other mainline protestant					
16	141000	Prot. / United Presbyterin Church in the USA / NA		X			386	3%	22%	M	M	M	M				4	3	3	2							
17	143000	Prot. / Presbyterian Church (USA) / NA		X			137	1%	17%	M	M	M	M				4	3	3	2							
18	148000	Prot. / Presbyterian DKW / NA		X			1,020	3%	20%	M	M	M	M				4	3	3	2							
19	122000	Prot. / United Methodist Church / NA		X			2,286	5%	27%	M	M	M	M				4	3	3	2	113 United Methodists						
20	130000	Prot. / American Lutheran Church / NA		X			499	2%	26%	M	M	M	M				4	2	3	2	114 Mainline Lutheran						
21	131000	Prot. / Lutheran Church in America / NA		X			182	2%	18%	M	M	M	M				4	2	3	2							
22	135000	Prot. / Evangelical Lutheran / NA		X			213	1%	28%	M	M	M	M				4	2	3	2							
23	A	111000	Prot. / American Baptist Churches in the U.S.A. / NA	X	X	X	236	60%	45%	M	MA	MA	M	X	X	X	4	2	2	3	2	3	115 No Baptists				
24	160019	Prot. / Other / Baptist (Northern)					4	14%	77%	M	M	M	M				4	3	3	2							
25	R	160032	Prot. / Other / Christian Reform	X	X	X	91	1%	40%	M	T	T	T				4	1	1	1	116 RCA & reformed						
26	R	160043	Prot. / Other / Dutch Reform		X		19	0%	17%	M	M	T	M				4	2	3	1							
27	160050	Prot. / Other / First Reformed					3	0%	82%	M	M	M	M				4	2	3	2							
28	160071	Prot. / Other / Reformed		X			74	1%	40%	M	M	M	M				4	2	3	2							
29	160073	Prot. / Other / Reformed Church of Christ		X		X	6	0%	15%	M	.	M	.				4			2							
30	160089	Prot. / Other / Grace Reformed		X		X	1	0%	0%	M	.	M	.				4			2							
31	160099	Prot. / Other / American Reform					2	0%	0%	M	M	M	M				4	2	3	2							
32	160025	Prot. / Other / Christian Disciples					7	7%	0%	M	M	M	M				4	2	3	2	117 Disciples						
33	160044	Prot. / Other / Disciples of Christ		X			94	13%	34%	M	M	M	M				4	2	3	2							
34	160049	Prot. / Other / First Christian Disciples of Christ					10	0%	63%	M	M	M	M				4	2	3	2							
35	P	142000	Prot. / Other Presbyterian Churches / NA	X	X	X	146	3%	35%	M	T	T	T				4	1	1	1	121 Presbyterian-other						
36	A	128000	Prot. / Methodist, DKW / NA	X	X	X	2,174	12%	28%	M	MA	MA	M	X	X	X	4	2	3	2	3	2	3		144 Unspecified Meth		
37	L	134000	Prot. / Other Lutheran Churches / NA	X	X		133	0%	38%	M	M	T	M				4	2	3	1	182 Other Lutheran						
38	160105	Prot. / Other / Latvian Lutheran					1	0%	.	M	M	M	M				4	3	3	2							
39	138000	Prot. / Lutheran DKW / NA		X			1,579	1%	26%	M	M	M	M				4	2	3	2	193 Lutheran DK which						

Line	Explan. Code	GSS Raw Values: Relig / Denom / Other		Algorithm Comparisons & Denominational Characteristics														Hart Denominational Groupings						
		[r]rddooo	Meaning	N > 50	dif_hout	dif_reltrad	dif_fund	nweighted	propblack	propwhite	hart	houtrealsyn	reltradsyn	fundsyn	fund_multit	hout_multit	reltrad_multit	cds_hart	cds_fund	cds_hout	cds_reltrad	Specific	Medium	Broad
<i>Algorithm result codes used in comparison: C=Cath/Orth; M=Mainline Prot.; T=Trad. Prot.; A=African-Amer. Prot.; X=other or unclassifiable Christian; O=Other Faith or Jewish; N=No religion; . (dot) = missing data. Shading for categories with > 50 cases and significant differences.</i>																				yellow: Hart differs from Hout / Greeley		cyan: > Hart differs from reltrad but not Hout / Greeley		
40	112000	Prot. / National Baptist Convention of America / NA	X		X	139	81%	62%	A	A	A	MT	X			6	1	2	2	3	131 Natl & AA Baptist	6 African American protestant	4 African American Protestant	
41	113000	Prot. / National Baptist Convention, USA, Inc / NA	X		X	104	80%	70%	A	A	A	T				6	1	2	3					
42	160133	Prot. / Other / Primitive Baptist			X	7	71%	100%	A	A	A	T				6	1	2	3	132 AME/Z & AA Methodist				
43	120000	Prot. / African Methodist Episcopal Church / NA	X		X	157	96%	56%	A	A	A	M				6	2	2	3					
44	121000	Prot. / African Methodist Episcopal Zion Church / NA	X		X	61	88%	46%	A	A	A	M	X			6	2	3	2	3	133 COGIC			
45	160015	Prot. / Other / African Methodist			X	0	100%	.	A	A	A	M				6	2	2	3					
46	160037	Prot. / Other / Church of God in Christ			X	45	83%	74%	A	A	A	T				6	1	2	3	195 Prot misc probably AA				
47	170037	Prot. / No denom or non-denom / Church of God in Christ			X	0	100%	.	A	A	A	T				6	1	2	3					
48	160021	Prot. / Other / Witness Holiness			X	1	100%	.	A	A	A	T				6	1	2	3					
49	160078	Prot. / Other / Sanctified, Sanctification			X	33	76%	46%	A	A	A	T				6	1	2	3					
50	160085	Prot. / Other / Zion Union			X	3	55%	0%	A	A	A	M				6	2	2	3					
51	160087	Prot. / Other / Zion Union Apostolic--Reformed			X	2	100%	.	A	A	A	M				6	2	2	3					
52	160103	Prot. / Other / Pentecostal Apostolic			X	8	69%	100%	A	A	A	T				6	1	2	3					
53	160104	Prot. / Other / House of Prayer			X	2	100%	100%	A	A	A	.				6		2	3					
54	160128	Prot. / Other / Christian Tabernacle			X	2	100%	0%	A	A	A	T				6	1	2	3					
55	160138	Prot. / Other / Apostolic Church	X	X	X	7	59%	37%	A	.	T	.				6			1					

Line	Explan. Code	GSS Raw Values: Relig / Denom / Other		Algorithm Comparisons & Denominational Characteristics														Hart Denominational Groupings							
		[r]rddooo	Meaning	N > 50	dif_hout	dif_reltrad	dif_fund	nweighted	propblack	proplteralist	hart	houtrealsyn	reltradsyn	fundsyn	fund_multi	hout_multi	reltrad_multi	cds_hart	cds_fund	cds_hout	cds_reltrad	Specific	Medium	Broad	Trad/Not
<i>Algorithm result codes used in comparison: C=Cath/Orth; M=Mainline Prot.; T=Trad. Prot.; A=African-Amer. Prot.; X=other or unclassifiable Christian; O=Other Faith or Jewish; N=No religion; . (dot) = missing data. Shading for categories with > 50 cases and significant differences.</i>																				yellow: Hart differs from Hout / Greeley		cyan: > Hart differs from reltrad but not Hout / Greeley			
56	S	160033	Prot. / Other / Christian Scientist	X	X	X	X	57	3%	36%	X	T	O	T			7	1	1	6	161	Christian Science	7 Other and unclassifiable Christian	5 Other or unclassifiable Christian	
57		160074	Prot. / Other / Religious Science		X	X	X	22	10%	0%	X	M	O	M			7	3	3	6					
58	M	160059	Prot. / Other / LDS	X	X	X	X	213	0%	27%	X	T	O	T			7	1	1	6	162	Mormon			
59	M	160060	Prot. / Other / LDS--Mormon	X	X	X	X	182	3%	37%	X	T	O	T			7	1	1	6					
60		160061	Prot. / Other / LDS--Reorganized		X	X	X	22	0%	24%	X	T	O	T			7	1	1	6					
61	M	160062	Prot. / Other / LDS--Jesus Christ; Church of Jesus LDS	X	X	X	X	71	0%	19%	X	T	O	T			7	1	1	6					
62	M	160064	Prot. / Other / Mormon	X	X	X	X	196	2%	38%	X	T	O	T			7	1	1	6					
63		160008	Prot. / Other / Moravian		X	X	X	15	4%	47%	X	M	M	M			7	3	3	2	163	Moravian			
64		160063	Prot. / Other / Mennonite		X	X	X	50	4%	72%	X	T	T	T			7	1	1	1	164	Mennonite			
65		160115	Prot. / Other / Mennonite Brethren		X	X	X	2	0%	51%	X	T	T	T			7	1	1	1					
66		160111	Prot. / Other / Amish		X	X	X	2	0%		X	T	T	T			7	1	1	1	166	Amish			
67	B	160020	Prot. / Other / Brethren Church, Brethren	X	X	X	X	58	0%	50%	X	M	T	M			7	2	3	1	181	Brethren			
68		160023	Prot. / Other / United Brethren, United Brethren in Christ		X	X	X	33	4%	79%	X	T	M	T			7	1	1	2					
69		160100	Prot. / Other / Grace Brethren		X	X	X	4	0%	60%	X	T	T	T			7	1	1	1					
70		160120	Prot. / Other / Evangelical United Brethren		X	X	X	2	0%	0%	X	M	T	M			7	3	3	1					
71	D	160031	Prot. / Other / Christian; Central Christian	X	X	X	X	450	5%	44%	X	M	T	M			7	2	3	1	189	Christian-some Disc, some evang			
72	D	160051	Prot. / Other / First Christian	X	X	X	X	77	1%	41%	X	M	T	M			7	2	3	1					
73		170031	Prot. / No denom or non-denom / Christian; Central Christian		X	X	X	1	0%		X	M	T	M			7	2	3	1					
74		500031	Other / NA / Christian; Central Christian		X	X	X	1	0%		X	O	T	M			7	2	6	1					
75		160029	Prot. / Other / Christ Church Unity		X	X	X	2	0%		X	.	O	.			7			6	192	Prot misc could be anything			
76		160030	Prot. / Other / Christ Adelphians		X	X	X	5	0%	0%	X	T	O	T			7	1	1	6					
77		160048	Prot. / Other / First Church		X	X	X	10	13%	69%	X	.	M	.			7			2					
78		160096	Prot. / Other / United Church of Christianity		X	X	X	13	0%	0%	X	M	M	M			7	3	3	2					
79		160098	Prot. / Other / Federated Church		X	X	X	2	13%		X	A	A	.			7		2	3					
80		160041	Prot. / Other / Community Church		X	X	X	14	3%	40%	X	.	T	.			7			1	196	Prot non-Denom			
81	N	170000	Prot. / No denom or non-denom / NA	X	X	X	X	2,117	7%	39%	X	M.	T.	M			7	2	3	1					
82		160000	Prot. / Other / NA		X	X	X	8	6%	75%	X	T.	.	T.			7	1	1		197	Prot unspecified/unclear			
83		160150	Prot. / Other / Zwinglian		X	X	X	2	0%	0%	X	.	.	M			7	2							
84		160166	Prot. / Other / United Christian		X	X	X	0	0%	0%	X	T	.	T			7	1	1						
85		160998	Prot. / Other / DK		X	X	X	33	18%	10%	X	.	.	.			7								
86		160999	Prot. / Other / NA		X	X	X	40	6%	38%	X	.	.	.			7								
87		198000	Prot. / DK / NA		X	X	X	25	21%	54%	X	.	.	.			7								
88		199000	Prot. / NA / NA		X	X	X	35	14%	49%	X	.	.	.			7								
89		199999	Prot. / NA / NA		X	X	X	35	4%	27%	X	.	.	.			7								
90	N	1170000	Christian / No denom or non-denom / NA	X	X	X	X	142	16%	54%	X	T	T.	MT	X		7	1	2	1	1	198	Christian NonDenom		
91	N	1300000	Inter-Nondenomentional / NA / NA	X	X	X	X	79	21%	37%	X	T	.	.			7		1						
92		1370000	Inter-Nondenomentional / No denom or non-denom / NA		X	X	X	25	24%	51%	X	T	T.	M			7	2	1	1					
93		300000	Jewish / NA / NA	X			X	1,036	1%	10%	O	O	O	M			9	3	5	5	200	Jewish	9 Jewish	6 Jewish	
94		900000	Moslem/Islam / NA / NA	X			X	88	33%	42%	O	O	O	.			10		6	6	300	Muslim	10 Muslim	7 Other faith	
95		700000	Hinduism / NA / NA	X			X	53	4%	17%	O	O	O	.			11		6	6	400	Hindu	11 Hindu		
96		600000	Buddhism / NA / NA	X			X	92	5%	1%	O	O	O	.			12		6	6	500	Buddhist	12 Buddhist		
97		800000	Other Eastern / NA / NA		X		X	21	6%	18%	O	O	O	.			13		6	6	600	Other Eastern	13 Other eastern		
98	U	160080	Prot. / Other / Unitarian, Universalist	X	X		X	125	3%	3%	O	M	O	M			14	3	3	6	150	Unitarian Universalist	14 Other faith		
99		1200000	Native American / NA / NA				X	18	0%	28%	O	O	O	.			14		6	6	700	Native American			
100		160011	Prot. / Other / Spiritualist		X		X	18	27%	7%	O	M	O	M			14	3	3	6	800	Other			
101		160075	Prot. / Other / Mind Science		X		X	4	0%	0%	O	M	O	M			14	3	3	6					
102		160136	Prot. / Other / New Age Spirituality		X		X	4	0%	0%	O	.	O	.			14								
103		500000	Other / NA / NA	X			X	941	11%	23%	O	O	O	.			14		6	6					
104		400000	None / NA / NA	X			X	4,927	9%	11%	N	N	N	M	X		15	2	3	7	7	900	None	15 No religion	8 No religion

Line	Explan. Code	GSS Raw Values: Relig / Denom / Other			Algorithm Comparisons & Denominational Characteristics														Hart Denominational Groupings							
		[r]rddooo	Meaning		N > 50	dif_hout	dif_reltrad	dif_fund	nweighted	propblack	proplteralist	hart	houtrealsyn	reltradsyn	fundsyn	fund_multit	hout_multit	reltrad_multit	cds_hart	cds_fund	cds_hout	cds_reltrad	Specific	Medium	Broad	Trad/Not
<i>Algorithm result codes used in comparison: C=Cath/Orth; M=Mainline Prot.; T=Trad. Prot.; A=African-Amer. Prot.; X=other or unclassifiable Christian; O=Other Faith or Jewish; N=No religion; . (dot) = missing data. Shading for categories with > 50 cases and significant differences.</i>																						yellow: Hart differs from Hout / Greeley		cyan: > Hart differs from reltrad but not Hout / Greeley		
155	160026	Prot. / Other / Christ in Christian Union						2	0%	.	T	T	T	T				5	1	1	1					
156	160027	Prot. / Other / Open Bible						6	0%	74%	T	T	T	T				5	1	1	1					
157	160034	Prot. / Other / Church of Christ, Evangelical						4	0%	100%	T	T	T	T				5	1	1	1					
158	160039	Prot. / Other / Church of the Living God						4	25%	.	T	T	T	T				5	1	1	1					
159	160042	Prot. / Other / Covenant						11	0%	32%	T	T	T	T				5	1	1	1					
160	160045	Prot. / Other / Evangelical, Evangelist					X	83	7%	60%	T	T	T	T				5	1	1	1					
161	160047	Prot. / Other / Evangelist Free Church						31	0%	68%	T	T	T	T				5	1	1	1					
162	160076	Prot. / Other / Salvation Army						24	0%	55%	T	T	T	T				5	1	1	1					
163	160086	Prot. / Other / Zion Union Apostolic					X	X	X	2	0%	100%	T	A	A	M		5	2	2	3					
164	160088	Prot. / Other / Disciples of God					X	X	X	3	45%	100%	T	A	A	.		5			2	3				
165	160091	Prot. / Other / Evangelical Covenant						4	0%	0%	T	T	T	T				5	1	1	1					
166	160092	Prot. / Other / Mission Covenant						3	0%	.	T	T	T	T				5	1	1	1					
167	160094	Prot. / Other / Swedish Mission					X		X	1	0%	.	T	M	T	M		5	3	3	1					
168	160097	Prot. / Other / Other Fundamentalist						39	0%	83%	T	T	T	T				5	1	1	1					
169	160107	Prot. / Other / Apostolic Christian						8	30%	84%	T	T	T	T				5	1	1	1					
170	160108	Prot. / Other / Christ Cathedral of Truth					X		X	1	100%	.	T	.	T	.		5				1				
171	160109	Prot. / Other / Bible Missionary						5	0%	100%	T	T	T	T				5	1	1	1					
172	160110	Prot. / Other / Calvary Bible						1	0%	.	T	T	T	T				5	1	1	1					
173	160113	Prot. / Other / Worldwide Church of God						X		5	0%	68%	T	T	O	T		5	1	1	6					
174	160114	Prot. / Other / Church Universal and Triumphant					X	X	X	1	0%	.	T	.	O	.		5				6				
175	160116	Prot. / Other / Church of the First Born					X		X	2	0%	100%	T	.	T	.		5				1				
176	160117	Prot. / Other / Missionary Church						10	24%	74%	T	T	T	T				5	1	1	1					
177	160118	Prot. / Other / The Way Ministry					X		X	1	0%	.	T	.	T	.		5				1				
178	160121	Prot. / Other / The Church of God of Prophecy						2	0%	.	T	T	T	T				5	1	1	1					
179	160122	Prot. / Other / Chapel of Faith					X		X	1	0%	.	T	.	T	.		5				1				
180	160124	Prot. / Other / Faith Gospel Tabernacle						1	0%	.	T	T	T	T				5	1	1	1					
181	160125	Prot. / Other / Christian Calvary Chapel						4	10%	100%	T	T	T	T				5	1	1	1					
182	160127	Prot. / Other / Church of Daniels Band						2	0%	.	T	T	T	T				5	1	1	1					
183	160129	Prot. / Other / Living Word					X		X	1	0%	.	T	.	T	.		5				1				
184	160132	Prot. / Other / Brother of Christ					X		X	1	0%	100%	T	.	T	.		5				1				
185	160134	Prot. / Other / Independent Fundamental Church of America						1	0%	100%	T	T	T	T				5	1	1	1					
186	160135	Prot. / Other / Chinese Gospel Church						3	0%	0%	T	T	T	T				5	1	1	1					
187	160137	Prot. / Other / New Song					X	X	X	1	0%	100%	T	.	.	.		5								
188	160141	Prot. / Other / New Birth Christian					X	X	X	1	0%	0%	T	.	O	.		5				6				
189	160143	Prot. / Other / Assyrian Evangelist Church					X	X	X	1	0%	.	T	.	.	.		5								
190	160144	Prot. / Other / Spirit of Christ					X	X	X	1	0%	100%	T	.	.	.		5								
191	160145	Prot. / Other / Church of Jesus Christ of the Restoration						X		1	0%	.	T	T	O	T		5	1	1	6					
192	160146	Prot. / Other / Laotian Christian					X		X	1	0%	0%	T	.	T	.		5				1				
193	160151	Prot. / Other / World Overcomer Outreach Ministry					X	X	X	1	100%	100%	T	.	.	.		5								
194	160152	Prot. / Other / Course in Miracles					X	X	X	1	0%	0%	T	.	.	.		5								
195	160153	Prot. / Other / Unity of the Brethren					X	X	X	1	0%	.	T	.	.	M		5	3							
196	160154	Prot. / Other / Spirit Filled						X		1	100%	100%	T	T	.	T		5	1	1						
197	160155	Prot. / Other / Christian Union					X	X	X	6	0%	100%	T	.	.	M		5	2							
198	160157	Prot. / Other / Community of Christ					X	X	X	3	0%	100%	T	T	.	T		5	1	1						
199	160158	Prot. / Other / New Hope Christian Fellowship						X		2	0%	15%	T	T	.	T		5	1	1						
200	160159	Prot. / Other / Community Christian Fellowship						X		3	0%	100%	T	T	.	T		5	1	1						
201	160165	Prot. / Other / Church of the Living God					X	X	X	1	0%	100%	T	.	.	M		5	2							
202	160167	Prot. / Other / Sanctuary					X	X	X	1	0%	0%	T	.	.	.		5								
203	160168	Prot. / Other / Rain on Us Deliverance Ministries						X		0	100%	100%	T	T	.	T		5	1	1						
204	160169	Prot. / Other / The Word Church					X	X	X	1	100%	.	T	.	.	M		5	2							

1 Traditionalist protestant

Line	Explan. Code	GSS Raw Values: Relig / Denom / Other		Algorithm Comparisons & Denominational Characteristics														Hart Denominational Groupings						
		[r]rddooo	Meaning	N > 50	dif_hout	dif_reltrad	dif_fund	nweighted	propblack	proppleralist	hart	houtrelsyn	reltradsyn	fundsyn	fund_multi	hout_multi	reltrad_multi	cds_hart	cds_fund	cds_hout	cds_reltrad	Specific	Medium	Broad
<i>Algorithm result codes used in comparison: C=Cath/Orth; M=Mainline Prot.; T=Trad. Prot.; A=African-Amer. Prot.; X=other or unclassifiable Christian; O=Other Faith or Jewish; N=No religion; . (dot) = missing data. Shading for categories with > 50 cases and significant differences.</i>																				yellow: Hart differs from Hout / Greeley		cyan: > Hart differs from reltrad but not Hout / Greeley		
205	160170	Prot. / Other / Cornerstone Church		X		0	0%	0%	T	T	.	T					5	1	1					
206	160171	Prot. / Other / Life Sanctuary	X	X	X	1	0%	0%	T	.	.	.					5							
207	160172	Prot. / Other / Word of Faith Church	X	X	X	0	0%	.	T	.	.	M					5	2						
208	160173	Prot. / Other / Harvest Church		X		1	0%	100%	T	T	.	T					5	1	1					
209	160174	Prot. / Other / Shephards Chapel		X		2	0%	0%	T	T	.	T					5	1	1					
210	160175	Prot. / Other / Greater New Testament Church		X		0	100%	100%	T	T	.	T					5	1	1					
211	160176	Prot. / Other / Vineyard Church		X		0	0%	100%	T	T	.	T					5	1	1					
212	160177	Prot. / Other / Real Life Ministries		X		1	0%	100%	T	T	.	T					5	1	1					
213	160178	Prot. / Other / Cathedral of Joy	X	X	X	0	0%	0%	T	.	.	M					5	2						
214	160179	Prot. / Other / Great Faith Ministries		X		0	100%	100%	T	T	.	T					5	1	1					
215	160180	Prot. / Other / Shield of Faith Ministries		X		0	100%	100%	T	T	.	T					5	1	1					
216	170045	Prot. / No denom or non-denom / Evangelical, Evangelist				0	0%	.	T	T	T	T					5	1	1	1				
217	500097	Other / NA / Other Fundamentalist	X			0	0%	.	T	O	T	T					5	1	6	1				