

## Homework 3

Due 8am Wednesday Sept 28, 2016

Econ B2000, MA Econometrics

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Each student should submit a separate assignment, even if it is an identical computer file to the rest of your study group. When submitting assignments, please include your name and the assignment number as part of the filename. Please write the names of your study group members at the beginning of your homework.

1. What are the names of the people currently in your study group?
2. Consider the average incomes of a particular subset (you choose) of people living in the city versus the rest of the state of New York. What is the difference in averages? What is the standard error of this difference? What is a 95% confidence interval? Are they statistically significantly different?
3. Use the PUMS data provided to find out something interesting about incomes, housing costs, and borough.
4. Try the machine learning K-nearest-neighbor algorithm on the PUMS data to get another view of the "interesting pattern" from above. (As usual, step one is to replicate my code, then gradually morph it into your own.) How good of a classification can you get?
5. (extra) The PUMS data includes a code, ANCESTR1D, for each person to give detail about their ancestry. The complete codes are below. You might figure out some recoding (note that most of the codes less than 2100 are European, then rest of 2000s are Latin America, 3000 are Caribbean, 4000 MENA, 5000 African, 6000 Indian subcontinent, 7000 Asia, 8000 Pacific, 9000 other). You might make judgements about how to combine groups. Look at average incomes within some of these ancestry groups, are they statistically significantly different? Explain.

| ANCESTR1D  |                           |                               |                                      |                                |
|--|---------------------------|-------------------------------|--------------------------------------|--------------------------------|
| 0010 "Alsatian"                                  | 0100 "Walloon"            | 0213 "Dutch-Irish-Scotch"     | 0260 "French (1980)"                 | German (1990-2000, ACS, PRCS)" |
| 0020 "Andorran"                                  | 0110 "British"            | 0220 "English"                | 0261 "French (1990-2000,ACS, PRCS)"  | 0323 "East German (1990-2000)" |
| 0030 "Austrian"                                  | 0120 "British Isles"      | 0221 "English-French-German"  | 0262 "Occitan (1990-2000)"           | 0324 "West German (1990-2000)" |
| 0040 "Tirolese"                                  | 0130 "Channel Islander"   | 0222 "English-French-Irish"   | 0270 "Lorrainian"                    | 0325 "German-French-Irish"     |
| 0051 "Basque (1980)"                             | 0140 "Gibraltar"          | 0223 "English-German-Irish"   | 0280 "Breton"                        | 0326 "German-Irish-Italian"    |
| 0052 "Spanish Basque (1980)"                     | 0150 "Cornish"            | 0224 "English-German-Swedish" | 0290 "Frisian"                       | 0327 "German-Irish-Scotch"     |
| 0053 "Basque (1990-2000,ACS)"                    | 0160 "Corsican"           | 0225 "English-Irish-Scotch"   | 0300 "Friulian"                      | 0328 "German-Irish-Swedish"    |
| 0054 "Spanish Basque (1990-2000, 2001-2004 ACS)" | 0170 "Cypriot"            | 0226 "English-Scotch-Welsh"   | 0320 "German (1980)"                 | 0329 "Germanic"                |
| 0060 "French Basque"                             | 0180 "Greek Cypriote"     | 0230 "Faeroe Islander"        | 0321 "German (1990-2000, ACS, PRCS)" | 0330 "Bavarian"                |
| 0080 "Belgian"                                   | 0190 "Turkish Cypriote"   | 0240 "Finnish"                | 0322 "Pennsylvania"                  | 0340 "Berliner"                |
| 0090 "Flemish"                                   | 0200 "Danish"             | 0250 "Karelian"               |                                      |                                |
|  | 0210 "Dutch"              |                               |                                      |                                |
|  | 0211 "Dutch-French-Irish" |                               |                                      |                                |
|  | 0212 "Dutch-German-Irish" |                               |                                      |                                |

|                    |                     |                    |                    |                    |
|--------------------|---------------------|--------------------|--------------------|--------------------|
| 0350 "Hamburger"   | 0760                | 1111 "Czech"       | (2000, ACS, PRCS)  | 2001 "Spaniard     |
| 0360 "Hanoverian"  | "Liechtensteiner"   | 1120 "Bohemian     | "                  | (1990-2000, ACS,   |
| 0370 "Hessian"     | 0770                | (1980)"            | 1523               | PRCS)"             |
| 0380 "Lubecker"    | "Luxemburger"       | 1121 "Bohemian     | "Montenegrin       | 2002 "Castillan    |
| 0390 "Pomeranian   | 0780 "Maltese"      | (1990-2000, ACS,   | (1990-2000, 2012   | (1990-2000)"       |
| (1980)"            | 0790 "Manx"         | PRCS)"             | ACS)"              | 2003 "Velencian    |
| 0391 "Pomeranian   | 0800                | 1122 "Moravian     | 1530 "Slovak"      | (1990-2000)"       |
| (1990-2000)"       | "Monegasque"        | (1990-2000)"       | 1540 "Slovene"     | 2010 "Andalusian   |
| 0392 "Silesian     | 0810 "Northern      | 1150 "Estonian"    | 1550 "Sorb/Wend"   | (1990-2000)"       |
| (1990-2000)"       | Irelander"          | 1160 "Livonian"    | 1560 "Soviet       | 2020 "Asturian     |
| 0400 "Prussian"    | 0820 "Norwegian"    | 1170 "Finno        | Turkic (1990-      | (1990-2000)"       |
| 0410 "Saxon"       | 0840                | Ugrian (1990-      | 2000)"             | 2040 "Catalonian"  |
| 0420               | "Portuguese"        | 2000)"             | 1570 "Bashkir"     | 2050 "Balearic     |
| "Sudetenlander"    | 0850 "Azorean"      | 1171 "Udmert"      | 1580 "Chevash"     | Islander (1980)"   |
| 0430               | 0860 "Madeiran"     | 1180 "Mordovian"   | 1590 "Gagauz       | 2051 "Balearic     |
| "Westphalian"      | 0870 "Scotch Irish" | 1190 "Voytak"      | (1990-2000)"       | Islander (1990-    |
| 0460 "Greek"       | 0880 "Scottish"     | 1200 "Georgian"    | 1600 "Mesknetian   | 2000)"             |
| 0470 "Cretan"      | 0890 "Swedish"      | 1220 "Germans      | (1990-2000)"       | 2052 "Canary       |
| 0480 "Cycladic     | 0900 "Aland         | from Russia"       | 1630 "Yakut"       | Islander (1990-    |
| Islander,          | Islander"           | 1221 "Volga"       | 1640 "Soviet       | 2000)"             |
| Dodecanese         | 0910 "Swiss"        | 1222 "German       | Union, nec"        | 2060 "Galician     |
| Islander,          | 0920 "Suisse        | from Russia (1990- | 1650 "Tatar (1990- | (1980)"            |
| Peloponnesian"     | (1980)"             | 2000); German      | 2000)"             | 2061 "Gallego      |
| 0490 "Icelandic"   | 0921 "Suisse        | Russian (ACS)"     | 1651 "Tatar        | (1990-2000)"       |
| 0500 "Irish,       | (1990-2000)"        | 1230 "Gruzii       | (1980)"            | 2062 "Galician     |
| various subheads," | 0922 "Switzer       | (1990-2000)"       | 1652 "Crimean      | (1990-2000)"       |
| 0501 "Celtic"      | (1990-2000)"        | 1240 "Rom"         | (1980)"            | 2100 "Mexican"     |
| 0502 "Irish        | 0950 "Romansch      | 1250 "Hungarian"   | 1653 "Tuvianian    | 2101 "Mexican      |
| Scotch"            | (1980)"             | 1260 "Magyar"      | (1990-2000)"       | (1990-2000, ACS,   |
| 0510 "Italian      | 0951 "Romansch      | 1280 "Latvian"     | 1654 "Soviet       | PRCS)"             |
| (1980)"            | (1990-2000)"        | 1290 "Lithuanian"  | Central Asian      | 2102               |
| 0511 "Italian      | 0952 "Ladin         | 1300               | (1990-2000)"       | "Mexicano/Mexican  |
| (1990-2000, ACS,   | (1990-2000)"        | "Macedonian"       | 1655 "Tadzhik      | a (1990-2000, ACS, |
| PRCS)"             | 0960 "Suisse        | 1320 "North        | (1980, 2000)"      | PRCS)"             |
| 0512 "Trieste      | Romane (1990-       | Caucasian"         | 1690 "Uzbek"       | 2103 "Mexican      |
| (1990-2000)"       | 2000)"              | 1330 "North        | 1710 "Ukrainian    | Indian"            |
| 0513 "San Marino   | 0961 "Suisse        | Caucasian Turkic   | (1980)"            | 2110 "Mexican      |
| (1990-2000)"       | Romane (1980)"      | (1990-2000)"       | 1711 "Ukrainian    | American"          |
| 0530 "Abruzzi"     | 0962 "Ticino"       | 1400 "Ossetian"    | (1990-2000, ACS,   | 2111 "Mexican      |
| 0540 "Apulian"     | 0970 "Welsh"        | 1420 "Polish"      | PRCS)"             | American Indian"   |
| 0550 "Basilicata,  | 0980                | 1430 "Kashubian"   | 1712 "Ruthenian    | 2130               |
| Lucanian"          | "Scandinavian,      | 1440 "Romanian     | (1980)"            | "Chicano/Chicana"  |
| 0560 "Calabrian"   | Nordic"             | (1990-2000, ACS,   | 1713 "Ruthenian    | 2180 "Nuevo        |
| 0570 "Amalfin"     | 1000 "Albanian"     | PRCS)"             | (1990-2000)"       | Mexicano"          |
| 0580 "Emilia       | 1010 "Azerbaijani"  | 1441 "Romanian     | 1714 "Lemko"       | 2181 "Nuevo        |
| Romagna"           | 1020                | (1980)"            | 1715 "Bioko"       | Mexicano (1990-    |
| 0590 "Rome"        | "Belourussian"      | 1442               | 1716 "Hesel"       | 2000)"             |
| 0600 "Ligurian"    | 1030 "Bulgarian"    | "Transylvanian"    | 1717 "Windish"     | 2182 "La Raza      |
| 0610               | 1050 "Carpathian"   | 1450 "Bessarabian  | 1760               | (1990-2000)"       |
| "Lombardian"       | 1051 "Carpatho      | (1980)"            | "Yugoslavian"      | 2183 "Mexican      |
| 0620 "Marches"     | Rusyn"              | 1451 "Bessarabian  | 1780 "Slav"        | state (1990-2000,  |
| 0630 "Molise"      | 1052 "Rusyn"        | (1990-2000)"       | 1790 "Slavonian"   | ACS, PRCS)"        |
| 0640 "Neapolitan"  | 1080 "Cossack       | 1452 "Bucovina"    | 1810 "Central      | 2184               |
| 0650               | (1990-2000)"        | 1460 "Moldavian"   | European, nec"     | "Tejano/Tejana     |
| "Piedmontese"      | 1081 "Cossack       | 1470 "Wallachian"  | 1830 "Northern     | (1990-2000)"       |
| 0660 "Puglia"      | (1980)"             | 1480 "Russian"     | European, nec"     | 2190 "Californio"  |
| 0670 "Sardinian"   | 1082 "Turkestani    | 1500 "Muscovite"   | 1850 "Southern     | 2210 "Costa        |
| 0680 "Sicilian"    | (1990-2000, 2012    | 1520 "Serbian      | European, nec"     | Rican"             |
| 0690 "Tuscan"      | ACS)"               | (1980)"            | 1870 "Western      | 2220               |
| 0700 "Trentino"    | 1083 "Kirghiz       | 1521 "Serbian      | European, nec"     | "Guatemalan"       |
| 0710 "Umbrian"     | (1980)"             | (1990-2000, ACS,   | 1900 "Eastern      | 2230 "Honduran"    |
| 0720 "Valle        | 1084 "Turcoman      | PRCS)"             | European, nec"     | 2240               |
| dAosta"            | (1980)"             | 1522 "Bosnian      | 1950 "European,    | "Nicaraguan"       |
| 0730 "Venetian"    | 1090 "Croatian"     | (1990),            | nec"               | 2250               |
| 0750 "Lapp"        | 1110                | Herzegovinian      | 2000 "Spaniard     | "Panamanian        |
|                    | "Czechoslovakian"   |                    | (1980)"            | (1980)"            |

|  |  |  |  |   |
|--|--|--|--|---|
| 2251 "Panamanian (1990-2000, ACS, PRCS)"       | 3150 "Trinidadian" 3160 "Tobagonian"   | 3353 "Arawak (1980)"                   | 4700 "South Yemeni"                          | 5570 "Tiv (1980)"                         |
| 2252 "Canal Zone (1990-2000)"                  | 3170 "U.S. Virgin Islander (1980)"   | 3360 "Haitian"                         | 4710 "Aden"                                  | 5571 "Tiv (1990-2000)"                    |
| 2260 "Salvadoran"                              | 3171 "U.S. Virgin Islander (1990-2000)"  | 3370 "Other West Indian"               | 4800 "United Arab Emirates"                  | 5572 "Yoruba (1990-2000)"                 |
| 2270 "Latin American (1980)"                   | 3172 "St. Croix Islander (1990-2000)"  | 3600 "Brazilian"                       | 4820 "Assyrian/Chaldean /Syriac (1990-2000)" | 5610 "Rwandan"                            |
| 2271 "Central American (1990-2000, ACS, PRCS)" | 3173 "St. John Islander (1990-2000)"   | 3650 "San Andres"                      | 4821 "Assyrian "                             | 5640 "Senegalese"                         |
| 2272 "Latin American (1990-2000, ACS, PRCS)"   | 3174 "St. Thomas Islander (1990-2000)"   | 3700 "Guyanese/British Guiana"         | 4822 "Syriac (1980, 2000)"                   | 5660 "Sierra Leonean"                     |
| 2273 "Latino/Latina (1990-2000, ACS, PRCS)"    | 3210 "British Virgin Islander (1980)"  | 3750 "Providencia"                     | 4823 "Chaldean (2000, ACS, PRCS)"            | 5680 "Somalian"                           |
| 2274 "Latin (1990-2000, ACS, PRCS)"            | 3211 "British Virgin Islander (1990-2000)"   | 3800 "Surinam/Dutch Guiana"            | 4900 "Middle Eastern"                        | 5690 "Swaziland"                          |
| 2310 "Argentinean"                             | 3212 "Antigua (1990-2000, ACS, PRCS)"  | 4000 "Algerian"                        | 4950 "Arab"                                  | 5700 "South African"                      |
| 2320 "Bolivian"                                | 3220 "British West Indian"   | 4020 "Egyptian"                        | 4951 "Arabic (1990-2000, ACS, PRCS)"         | 5710 "Union of South Africa"              |
| 2330 "Chilean"                                 | 3230 "Turks and Caicos Islander"   | 4040 "Libyan"                          | 4960 "Other Arab"                            | 5720 "Afrikaner"                          |
| 2340 "Colombian"                               | 3240 "Anguilla Islander (1980)"  | 4060 "Moroccan (1990-2000, ACS, PRCS)" | 5000 "Angolan"                               | 5730 "Natalian"                           |
| 2350 "Ecuadorian"                              | 3241 "Anguilla Islander (1990-2000)"   | 4062 "Moor (1980)"                     | 5020 "Benin"                                 | 5740 "Zulu"                               |
| 2360 "Paraguayan"                              | 3242 "Montserrat Islander (1990-2000)"   | 4070 "Ifni"                            | 5040 "Botswana"                              | 5760 "Sudanese"                           |
| 2370 "Peruvian"                                | 3243 "Kitts/Nevis Islander (1990-2000)"  | 4080 "Tunisian"                        | 5060 "Burundian"                             | 5770 "Dinka"                              |
| 2380 "Uruguayan"                               | 3244 "St. Christopher (1980)"  | 4110 "North African"                   | 5080 "Cameroonian"                           | 5780 "Nuer"                               |
| 2390 "Venezuelan"                              | 3245 "St Vincent Islander (1990); Vincent-Grenadine Islander (2000 Census, 2005 ACS, 2005 PRCS)" | 4120 "Alhucemas"                       | 5100 "Cape Verdean"                          | 5790 "Fur"                                |
| 2480 "South American (1980)"                   | 3280 "Dominica Islander"   | 4130 "Berber"                          | 5120 "Central African Republic"              | 5800 "Baggara"                            |
| 2481 "South American (1990-2000, ACS, PRCS)"   | 3290 "Grenadian"   | 4140 "Rio de Oro"                      | 5130 "Chadian"                               | 5820 "Tanzanian"                          |
| 2482 "Criollo/Criolla (1990-2000)"             | 3300 "St Lucia Islander"   | 4150 "Bahraini"                        | 5150 "Congolese"                             | 5830 "Tanganyikan"                        |
| 2610 "Puerto Rican"                            | 3310 "St Lucia Islander"   | 4160 "Iranian"                         | 5160 "Congo-Brazzaville"                     | 5840 "Zanzibar"                           |
| 2710 "Cuban"                                   | 3320 "French West Indian"  | 4170 "Iraqi"                           | 5190 "Djibouti"                              | 5860 "Togo"                               |
| 2750 "Dominican"                               | 3330 "Guadeloupe Islander"   | 4190 "Israeli"                         | 5200 "Equatorial Guinea"                     | 5880 "Ugandan"                            |
| 2900 "Hispanic"                                | 3340 "Cayenne"   | 4210 "Jordanian"                       | 5210 "Corsico Islander"                      | 5890 "Upper Voltan"                       |
| 2910 "Spanish"                                 | 3350 "West Indian (1990-2000, ACS, PRCS)"  | 4220 "Transjordan"                     | 5220 "Ethiopian"                             | 5900 "Voltan"                             |
| 2950 "Spanish American"                        | 3351 "West Indian (1980)"  | 4230 "Kuwaiti"                         | 5230 "Eritrean"                              | 5910 "Zairian"                            |
| 2960 "Other Spanish/Hispanic"                  | 3352 "Caribbean (1980)"  | 4250 "Lebanese"                        | 5250 "Gabonese"                              | 5920 "Zambian"                            |
| 3000 "Bahamian"                                |  | 4270 "Saudi Arabian"                   | 5290 "Ghanian"                               | 5930 "Zimbabwean"                         |
| 3010 "Barbadian"                               |  | 4290 "Syrian (1990-2000, ACS, PRCS)"   | 5300 "Guinean"                               | 5940 "African Islands (1980)"             |
| 3020 "Belizean"                                |  | 4291 "Syrian (1980)"                   | 5310 "Guinea Bissau"                         | 5941 "African Islands (1990-2000)"        |
| 3030 "Bermudan"                                |  | 4292 "Latakian (1980)"                 | 5320 "Ivory Coast"                           | 5942 "Mauritius (1990-2000)"              |
| 3040 "Cayman Islander"                         |  | 4293 "Jebel Druse (1980)"              | 5340 "Kenyan"                                | 5950 "Other Sub-Saharan Africa"           |
| 3080 "Jamaican"                                |  | 4310 "Armenian"                        | 5380 "Lesotho"                               | 5960 "Central African, Middle Congo"      |
| 3100 "Dutch West Indies"                       |  | 4340 "Turkish"                         | 5410 "Liberian"                              | 5970 "East African"                       |
| 3110 "Aruba Islander"                          |  | 4350 "Yemeni"                          | 5430 "Madagascan"                            | 5980 "West African"                       |
| 3120 "St Maarten Islander"                     |  | 4360 "Omani"                           | 5450 "Malawian"                              | 5990 "African"                            |
| 3140 "Trinidadian/Tobagonian"                  |  | 4370 "Muscat"                          | 5460 "Malian"                                | 6000 "Afghan"                             |
|  |  | 4380 "Trucial Oman"                    | 5470 "Mauritanian"                           | 6010 "Baluchi"                            |
|  |  | 4390 "Qatar"                           | 5490 "Mozambican"                            | 6020 "Pathan"                             |
|  |  | 4410 "Bedouin"                         | 5500 "Namibian"                              | 6030 "Bengali (1980)"                     |
|  |  | 4420 "Kurdish"                         | 5510 "Niger"                                 | 6031 "Bangladeshi (1990-2000, ACS, PRCS)" |
|  |  | 4440 "Kuria Muria Islander"            | 5530 "Nigerian"                              | 6032 "Bengali (1990-2000, ACS, PRCS)"     |
|  |  | 4650 "Palestinian"                     | 5540 "Fulani"                                | 6070 "Bhutanese"                          |
|  |  | 4660 "Gazan"                           | 5550 "Hausa"                                 | 6090 "Nepali"                             |
|  |  | 4670 "West Bank"                       | 5560 "Ibo"                                   |   |

|   |  |  |  |  |
|---|--|--|--|--|
| 6150 "Asian Indian (1980)"                | 7071 "Cantonese (1990-2000, ACS, PRCS)"  | 7740 "Singaporean"                       | 8180 "Tahitian, French Polynesian, Society Islander" | 8330 "Tarawa Islander (1990-2000)"             |
| 6151 "India (1990-2000, ACS, PRCS)"       | 7072 "Formosan (1990-2000)"              | 7760 "Thai"                              | 8190 "Niuean"  | 8340 "Tinian Islander (1990-2000)"             |
| 6152 "East Indian (1990-2000, ACS, PRCS)" | 7080 "Manchurian"                        | 7770 "Black Thai"                        | 8200 "Micronesian (1990-2000, ACS, PRCS)"            | 8400 "Melanesian Islander"                     |
| 6153 "Madya Pradesh (1990-2000)"          | 7090 "Mandarin (1990-2000)"              | 7780 "Western Lao"                       | 8201 "Micronesian (1980)"                            | 8410 "Fijian"                                  |
| 6154 "Orissa (1990-2000)"                 | 7120 "Mongolian (1980)"                  | 7820 "Taiwanese"                         | 8202 "U.S. Trust Terr of the Pacific (1980)"         | 8430 "New Guinean"                             |
| 6155 "Rajasthan (1990-2000)"              | 7121 "Mongolian (1990-2000, ACS, PRCS)"  | 7850 "Vietnamese, Annamese"              | 8210 "Guamanian"                                     | 8440 "Papuan"                                  |
| 6156 "Sikkim (1990-2000)"                 | 7161 "Hong Kong (1980)"                  | 7860 "Katu"                              | 8220 "Chamorro Islander"                             | 8450 "Solomon Islander"                        |
| 6157 "Uttar Pradesh (1990-2000)"          | 7162 "Eastern Archipelgo (1980)"         | 7870 "Ma"                                | 8230 "Saipanese (1990-2000)"                         | 8460 "New Caledonian Islander"                 |
| 6220 "Andaman Islander"                   | 7180 "Macao"                             | 7880 "Mnong"                             | 8231 "Saipanese (1980)"                              | 8470 "Vanuatuan"                               |
| 6240 "Andhra Pradesh"                     | 7200 "Filipino"                          | 7900 "Montagnard"                        | 8232 "Norther Marianas (1980)"                       | 8500 "Pacific Islander (1990-2000, ACS, PRCS)" |
| 6260 "Assamese"                           | 7300 "Indonesian (1980)"                 | 7920 "Indochinese"                       | 8240 "Palauan"                                       | 8501 "Campbell Islander (1980)"                |
| 6280 "Goanese"                            | 7301 "Indonesian (1990-2000, ACS, PRCS)" | 7930 "Eurasian"                          | 8250 "Marshall Islander"                             | 8502 "Christmas Islander (1980)"               |
| 6300 "Gujarati"                           | 7302 "Borneo (1990-2000)"                | 7931 "Amerasian (1990-2000, ACS, PRCS)"  | 8260 "Kosraean"                                      | 8503 "Kermadec Islander (1980)"                |
| 6320 "Karnatakan"                         | 7303 "Java (1990-2000)"                  | 7950 "Asian"                             | 8270 "Ponapean (1990-2000)"                          | 8504 "Midway Islander (1980)"                  |
| 6340 "Keralan"                            | 7304 "Sumatran (1990-2000)"              | 7960 "Other Asian"                       | 8271 "Ponapean (1980)"                               | 8505 "Phoenix Islander (1980)"                 |
| 6380 "Maharashtran"                       | 7400 "Japanese (1980)"                   | 8000 "Australian"                        | 8272 "Mokilese (1980)"                               | 8506 "Wake Islander (1980)"                    |
| 6400 "Madras"                             | 7401 "Japanese (1990-2000, ACS, PRCS)"   | 8010 "Tasmanian"                         | 8273 "Ngatikese (1980)"                              | 8600 "Oceania"                                 |
| 6420 "Mysore"                             | 7402 "Issei (1990-2000)"                 | 8020 "Australian Aborigine (1990-2000)"  | 8274 "Pingelapese (1980)"                            | 8620 "Chamolinian (1990-2000)"                 |
| 6440 "Naga"                               | 7403 "Nisei (1990-2000)"                 | 8030 "New Zealander"                     | 8280 "Chuukese (1990-2000)"                          | 8630 "Reserved Codes"                          |
| 6480 "Pondicherry"                        | 7404 "Sansei (1990-2000)"                | 8080 "Polynesian (1990-2000, ACS, PRCS)" | 8281 "Hall Islander (1980)"                          | 8700 "Other Pacific"                           |
| 6500 "Punjabi"                            | 7405 "Yonsei (1990-2000)"                | 8081 "Polynesian (1980)"                 | 8282 "Mortlockese (1980)"                            | 9000 "Afro-American"                           |
| 6560 "Tamil"                              | 7406 "Gosei (1990-2000)"                 | 8082 "Norfolk Islander (1980)"           | 8283 "Namanouito (1980)"                             | 9001 "Afro-American (1990-2000, ACS, PRCS)"    |
| 6750 "East Indies (1990-2000)"            | 7460 "Ryukyu Islander"                   | 8090 "Kapinagamaranga n (1990-2000)"     | 8284 "Pulawatese (1980)"                             | 9002 "Black (1990-2000, ACS, PRCS)"            |
| 6800 "Pakistani (1980)"                   | 7480 "Okinawan"                          | 8091 "Kapinagamaranga n (1980)"          | 8285 "Truk Islander"                                 | 9003 "Negro (1990-2000, ACS, PRCS)"            |
| 6801 "Pakistani (1990-2000, ACS, PRCS)"   | 7500 "Korean"                            | 8092 "Nukuoroan (1980)"                  | 8290 "Yap Islander"                                  | 9004 "Nonwhite (1990-2000)"                    |
| 6802 "Kashmiri (1990-2000)"               | 7650 "Laotian"                           | 8100 "Maori"                             | 8300 "Caroline Islander (1990-2000)"                 | 9005 "Colored (1990-2000)"                     |
| 6900 "Sri Lankan"                         | 7660 "Meo"                               | 8110 "Hawaiian"                          | 8301 "Caroline Islander (1980)"                      | 9006 "Creole (1990-2000, ACS, PRCS)"           |
| 6910 "Singhalese"                         | 7680 "Hmong"                             | 8130 "Part Hawaiian"                     | 8302 "Lamotrekese (1980)"                            | 9007 "Mulatto (1990-2000)"                     |
| 6920 "Veddah"                             | 7700 "Malaysian (1980)"                  | 8140 "Samoan (1990-2000, ACS, PRCS)"     | 8303 "Ulithian (1980)"                               | 9008 "Afro"                                    |
| 6950 "Maldivian"                          | 7701 "Malaysian (1990-2000, ACS, PRCS)"  | 8141 "Samoan (1980)"                     | 8304 "Woleaian (1980)"                               | 9020 "African-American (1990-2000, ACS, PRCS)" |
| 7000 "Burmese (1990-2000, ACS, PRCS)"     | 7702 "North Borneo (1990-2000)"          | 8142 "American Samoan (1980)"            | 8310 "Kiribatese"                                    |  |
| 7001 "Burmese (1980)"                     |  | 8143 "French Samoan"                     | 8320 "Nauruan"                                       |  |
| 7002 "Burman (1980)"                      |  | 8144 "Part Samoan (1990-2000)"           |  |  |
| 7020 "Shan"                               |  | 8150 "Tongan"                            |  |  |
| 7030 "Cambodian"                          |  | 8160 "Tokelauan"                         |  |  |
| 7040 "Khmer"                              |  | 8170 "Cook Islander"                     |  |  |
| 7060 "Chinese"                            |  |  |  |  |
| 7070 "Cantonese (1980)"                   |  |  |  |  |

|   |                             |                       |
|---|-----------------------------|-----------------------|
| 9130 "Central American Indian (1990-2000, ACS, PRCS)" | 9420 "Alaska"               | 9960 "Uncodable"      |
| 9140 "South American Indian (1990-2000, ACS, PRCS)"   | 9430 "Arizona"              | 9961 "Not Classified" |
| 9200 "American Indian (all tribes)"                   | 9440 "Arkansas"             | 9980 "Other"          |
| 9201 "American Indian-English-French"                 | 9450 "California"           | 9990 "Not Reported"   |
| 9202 "American Indian-English-German"                 | 9460 "Colorado"             |                       |
| 9203 "American Indian-English-Irish"                  | 9470 "Connecticut"          |                       |
| 9204 "American Indian-German-Irish"                   | 9480 "District of Columbia" |                       |
| 9205 "Cherokee"                                       | 9490 "Delaware"             |                       |
| 9206 "Native American"                                | 9500 "Florida"              |                       |
| 9207 "Indian"   | 9510 "Georgia"              |                       |
| 9210 "Aleut"  | 9520 "Idaho"                |                       |
| 9220 "Eskimo"   | 9530 "Illinois"             |                       |
| 9230 "Inuit"  | 9540 "Indiana"              |                       |
| 9240 "White/Caucasian"                                | 9550 "Iowa"                 |                       |
| 9241 "White/Caucasian (1990-2000, ACS, PRCS)"         | 9560 "Kansas"               |                       |
| 9242 "Anglo (1990-2000, ACS, PRCS)"                   | 9570 "Kentucky"             |                       |
| 9243 "Appalachian (1990-2000, ACS, PRCS)"             | 9580 "Louisiana"            |                       |
| 9244 "Aryan (1990-2000)"                              | 9590 "Maine"                |                       |
| 9300 "Greenlander"                                    | 9600 "Maryland"             |                       |
| 9310 "Canadian"                                       | 9610 "Massachusetts"        |                       |
| 9330 "Newfoundland"                                   | 9620 "Michigan"             |                       |
| 9340 "Nova Scotian"                                   | 9630 "Minnesota"            |                       |
| 9350 "French Canadian"                                | 9640 "Mississippi"          |                       |
| 9360 "Acadian"  | 9650 "Missouri"             |                       |
| 9361 "Acadian (1990-2000, ACS, PRCS)"                 | 9660 "Montana"              |                       |
| 9362 "Cajun (1990-2000, ACS, PRCS)"                   | 9670 "Nebraska"             |                       |
| 9390 "American"                                       | 9680 "Nevada"               |                       |
| 9391 "American/United States"                         | 9690 "New Hampshire"        |                       |
| 9400 "United States"                                  | 9700 "New Jersey"           |                       |
| 9410 "Alabama"  | 9710 "New Mexico"           |                       |
|   | 9720 "New York"             |                       |
|   | 9730 "North Carolina"       |                       |
|   | 9740 "North Dakota"         |                       |
|   | 9750 "Ohio"                 |                       |
|   | 9760 "Oklahoma"             |                       |
|   | 9770 "Oregon"               |                       |
|   | 9780 "Pennsylvania"         |                       |
|   | 9790 "Rhode Island"         |                       |
|   | 9800 "South Carolina"       |                       |
|   | 9810 "South Dakota"         |                       |
|   | 9820 "Tennessee"            |                       |
|   | 9830 "Texas"                |                       |
|   | 9840 "Utah"                 |                       |
|   | 9850 "Vermont"              |                       |
|   | 9860 "Virginia"             |                       |
|   | 9870 "Washington"           |                       |
|   | 9880 "West Virginia"        |                       |
|   | 9890 "Wisconsin"            |                       |
|   | 9900 "Wyoming"              |                       |
|   | 9930 "Southerner"           |                       |
|   | 9940 "North American"       |                       |
|   | 9950 "Mixture"              |                       |