

*National Longitudinal Study of  
Adolescent Health*

*Wave III  
2000 Population Density  
Codebook*

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Persons interested in obtaining data files from Add Health should contact Add Health, Carolina Population Center, 123 W. Franklin Street, Chapel Hill, NC 27516-2524 ([addhealth@unc.edu](mailto:addhealth@unc.edu).)

## Add Health Wave III 2000 Proportional Block Group Population and Area

**Filename:** w3pop00.xpt

### **Description**

W3POP00 contains the proportion of 2000 U.S. Census block group population and area (in square meters) within 1, 3, 5, and 8.05 km (5 mi) of each Wave III respondent.

Block group population counts were extracted from the 2000 Census CD Long Form product purchased from GeoLytics. Block group boundaries for 2000 were extracted from the year 2000 version of the Data & Maps dataset from Environmental Systems Research Institute in Redlands, CA.

To derive population and area values for the different neighborhood/buffer sizes for each respondent, block group populations were adjusted proportional to the percent of the block group area that fell within the respondent buffer. If an entire block group fell within the buffer, the entire population and area of that block group were used. If half of a block group fell within a buffer, half of that block group's population and area were used. These proportional calculations were summed to produce total buffer population and area calculations.

The adjusted total area is equal to the buffer area except in cases where the buffer extends beyond the shoreline or international boundary of the United States. In these cases, the adjusted total area is less than the buffer area. The use of adjusted block group areas means that the Add Health definition of area in this dataset will be consistent with what is defined by the U.S. Census Bureau in its delineation of Census block groups.

A total of 308 respondents lacked geocode data and, consequently, could not be associated with resource data. These respondents were assigned the Add Health replacement code for geocode missing. The replacement code pattern for geocode missing is 8 preceded by a series of 9s, with the number of 9s dependent upon the variable's maximum value.

### **Variable Listing**

<b>Variable Name</b>	<b>Variable Label and Description</b>
W3P00_A1	2000 block group area (sq m), 1 km
W3P00_A3	2000 block group area (sq m), 3 km
W3P00_A5	2000 block group area (sq m), 5 km
W3P00_A8	2000 block group area (sq m), 8 km
W3P00_P1	2000 block group population, 1 km
W3P00_P2	2000 block group population, 3 km
W3P00_P3	2000 block group population, 5 km
W3P00_P5	2000 block group population, 8 km

**W3POP00: Wave III Population Density Data**

Wave III Population Density Data

<b>AID</b>		Str 8	Respondent Identifier NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	10316654	
1	0.0%	10316952	
1	0.0%	10506342	
1	0.0%	10570810	
1	0.0%	10606128	
15187	99.9%	11316754-99886992	NOTE: Range of values omitted from display
1	0.0%	99886993	
1	0.0%	99886994	
1	0.0%	99886995	
1	0.0%	99886996	
1	0.0%	99886999	

<b>W3P00_A1</b>		Num 4	2000 Block Group Area (Sq m), 1 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	589832	589832
1	0.0%	762638	762638
1	0.0%	972059	972059
1	0.0%	977623	977623
1	0.0%	1327607	1327607
672	4.4%	1519779-3141538	NOTE: Range of values omitted from display

1	0.0%	3141558	3141558
1	0.0%	3141576	3141576
1234	8.1%	3141592	3141592
12976	85.4%	3141593	3141593
308	2.0%	9999998	Geocode Missing

<b>W3P00_A3</b>		Num 4	2000 Block Group Area (Sq m), 3 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	6296813	6296813
1	0.0%	7594449	7594449
1	0.0%	7707392	7707392
1	0.0%	7885595	7885595
1	0.0%	8401479	8401479
1727	11.4%	8823764- 28274068	NOTE: Range of values omitted from display
1	0.0%	28274233	28274233
182	1.2%	28274333	28274333
12967	85.3%	28274334	28274334
7	0.0%	28274335	28274335
308	2.0%	99999998	Geocode Missing

<b>W3P00_A5</b>		Num 4	2000 Block Group Area (Sq m), 5 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	14523240	14523240
1	0.0%	15506138	15506138
1	0.0%	18548082	18548082
1	0.0%	18881721	18881721

1	0.0%	19865289	19865289
2603	17.1%	21945071-78539814	NOTE: Range of values omitted from display
25	0.2%	78539815	78539815
9490	62.4%	78539816	78539816
2763	18.2%	78539817	78539817
3	0.0%	78539818	78539818
308	2.0%	99999998	Geocode Missing

<b>W3P00_A8</b>		Num 4	2000 Block Group Area (Sq m), 8 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	23953368	23953368
1	0.0%	47160406	47160406
1	0.0%	49585517	49585517
1	0.0%	52718758	52718758
1	0.0%	52753389	52753389
4025	26.5%	53346935-203417188	NOTE: Range of values omitted from display
85	0.6%	203417189	203417189
5209	34.3%	203417190	203417190
5466	36.0%	203417191	203417191
99	0.7%	203417192	203417192
308	2.0%	99999998	Geocode Missing

<b>W3P00_P1</b>		Num 8	2000 Block Group Population, 1 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	.7	.7
2	0.0%	2.9	2.9

1	0.0%	3.1	3.1
2	0.0%	3.6	3.6
1	0.0%	4.3	4.3
14878	97.9%	4.9- 125713.2	NOTE: Range of values omitted from display
1	0.0%	135587.9	135587.9
1	0.0%	137971.2	137971.2
1	0.0%	140793.8	140793.8
1	0.0%	142427.9	142427.9
308	2.0%	999998	Geocode Missing

<b>W3P00_P3</b>		Num 8	2000 Block Group Population, 3 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	6.7	6.7
1	0.0%	26.2	26.2
1	0.0%	28.7	28.7
1	0.0%	34.1	34.1
1	0.0%	41.1	41.1
14880	97.9%	42.5- 631923.3	NOTE: Range of values omitted from display
1	0.0%	638405.2	638405.2
1	0.0%	648838.5	648838.5
1	0.0%	658264.1	658264.1
1	0.0%	661469.3	661469.3
308	2.0%	999998	Geocode Missing

<b>W3P00_P5</b>		Num 8	2000 Block Group Population, 5 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label

1	0.0%	18.7	18.7
1	0.0%	72.8	72.8
1	0.0%	96	96
1	0.0%	107.9	107.9
1	0.0%	130.5	130.5
14880	97.9%	134.3- 1325492.5	NOTE: Range of values omitted from display
1	0.0%	1327909.9	1327909.9
1	0.0%	1341376.6	1341376.6
1	0.0%	1345180.8	1345180.8
1	0.0%	1346925.7	1346925.7
308	2.0%	9999998	Geocode Missing

<b>W3P00_P8</b>		Num 8	2000 Block Group Population, 8 km NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	48.4	48.4
1	0.0%	188.6	188.6
1	0.0%	341.9	341.9
1	0.0%	363.2	363.2
1	0.0%	370.1	370.1
14880	97.9%	391.7- 2961622.3	NOTE: Range of values omitted from display
1	0.0%	2979001.9	2979001.9
1	0.0%	2997000.1	2997000.1
1	0.0%	3016101.8	3016101.8
1	0.0%	3023822	3023822
308	2.0%	9999998	Geocode Missing