

National Longitudinal Study of Adolescent Health

Wave III Weather Data 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).

Add Health Wave III Weather

Filename: w3weath.xpt

Description

W3WEATH contains weather data for each Wave III respondent based on the nearest weather station reporting data for the corresponding survey interview date.

The data were extracted from the National Climatic Data Center, Data Set 3220, Summary of the Month Cooperative. This dataset consists of a number of meteorological variables summarized on a monthly time scale. The data come primarily from the cooperative network, but also include observations from the principal meteorological stations operated by the National Weather Service. The variables extracted for Add Health are as follows:

Variable Description

Number of Days with minimum temperature ≤ 32 F
Number of Days with maximum temperature ≥ 90 F
Monthly Mean Temperature
Monthly Mean Minimum Temperature
Monthly Mean Maximum Temperature
Total Monthly Precipitation
Total Monthly Snowfall

The survey interview date was used to query the weather station database for stations that have data recorded during the month and year that the survey was undertaken. A shortest distance routine was then performed to determine the station nearest to each respondent which had weather data for the variable of interest during the time period of interest. A station without data for a particular variable was ignored for that particular variable, but may have provided data for other variables.

Respondents not associated with geocodes received the Add Health reserve code for geocode missing, which equals 8 proceeded by a series of 9s; the number of which varies depending upon variables' maximum values. A total of 308 respondents were ultimately assigned missing geocode values.

Variable Listing

Variable Name	Variable Description
W3WR1	Number of days with minimum temperature ≤ 32 F
W3WR2	Number of days with maximum temperature ≥ 90 F
W3WR3	Monthly mean minimum temperature <ul style="list-style-type: none">Reported in degrees Fahrenheit
W3WR4	Monthly mean maximum temperature <ul style="list-style-type: none">Reported in degrees Fahrenheit
W3WR5	Monthly mean temperature <ul style="list-style-type: none">Reported in degrees Fahrenheit
W3WR6	Total monthly precipitation <ul style="list-style-type: none">Reported in inches
W3WR7	Total monthly snowfall <ul style="list-style-type: none">Reported in inches

W3WEATH: Wave III Weather Data

Wave III Weather Data

AID		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	

W3WR1		Num 1	Number Days With Minimum Temperature <= 32 F NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
7493	49.3%	0	0
522	3.4%	1	1
615	4.0%	2	2
360	2.4%	3	3
462	3.0%	4	4
5034	33.1%	5-27	NOTE: Range of values omitted from display
74	0.5%	28	28

63	0.4%	29	29
161	1.1%	30	30
105	0.7%	31	31
308	2.0%	98	Geocode Missing

W3WR2		Num 1	Number Days With Maximum Temperature >= 90 F NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
10825	71.2%	0	0
882	5.8%	1	1
250	1.6%	2	2
393	2.6%	3	3
241	1.6%	4	4
2162	14.2%	5-27	NOTE: Range of values omitted from display
17	0.1%	28	28
50	0.3%	29	29
45	0.3%	30	30
24	0.2%	31	31
308	2.0%	98	Geocode Missing

W3WR3		Num 8	Monthly Mean Minimum Temperature NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2	0.0%	-7	-7
2	0.0%	5.2	5.2
1	0.0%	5.5	5.5
3	0.0%	5.9	5.9
1	0.0%	6.1	6.1
14824	97.5%	7.2-	NOTE: Range of values omitted from display

		77.9	
51	0.3%	78.3	78.3
2	0.0%	79.3	79.3
2	0.0%	79.7	79.7
1	0.0%	80.1	80.1
308	2.0%	98	Geocode Missing

W3WR4		Num 8	Monthly Mean Maximum Temperature NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
1	0.0%	21.7	21.7
1	0.0%	24.8	24.8
2	0.0%	24.9	24.9
2	0.0%	26	26
2	0.0%	26.8	26.8
14847	97.7%	27.1-104.6	NOTE: Range of values omitted from display
16	0.1%	106.1	106.1
7	0.0%	106.5	106.5
1	0.0%	108.6	108.6
10	0.1%	109.6	109.6
308	2.0%	998	Geocode Missing

W3WR5		Num 8	Monthly Mean Temperature NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
2	0.0%	9.9	9.9
1	0.0%	13.9	13.9
2	0.0%	16.5	16.5

1	0.0%	16.8	16.8
2	0.0%	16.9	16.9
14861	97.8%	17.5-90.5	NOTE: Range of values omitted from display
7	0.0%	91.6	91.6
10	0.1%	92.1	92.1
2	0.0%	92.2	92.2
1	0.0%	94.4	94.4
308	2.0%	998	Geocode Missing

W3WR6		Num 8	Total Monthly Precipitation NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
979	6.4%	0	0
37	0.2%	.01	.01
167	1.1%	.02	.02
12	0.1%	.03	.03
12	0.1%	.04	.04
13625	89.7%	.05-17.1	NOTE: Range of values omitted from display
3	0.0%	17.96	17.96
32	0.2%	17.99	17.99
21	0.1%	20.61	20.61
1	0.0%	21.05	21.05
308	2.0%	98	Geocode Missing

W3WR7		Num 8	Total Monthly Snowfall NOTE: Smallest 5 and largest 5 values are displayed.
Frequency	Percent	Value	Label
12625	83.1%	0	0

26	0.2%	.1	.1
43	0.3%	.2	.2
62	0.4%	.3	.3
41	0.3%	.4	.4
2086	13.7%	.5-37.1	NOTE: Range of values omitted from display
1	0.0%	37.5	37.5
1	0.0%	38	38
1	0.0%	42.8	42.8
3	0.0%	53.9	53.9
308	2.0%	98	Geocode Missing