

Codebook for storm_data

Autogenerated data summary from dataMaid

2018-10-03 10:27:10

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	902297
Number of variables	37

Codebook summary table

Label	Variable	Class	# unique values	Missing	Description
	STATE__	numeric	70	0.00 %	
	BGN_DATE	factor	16335	0.00 %	
	BGN_TIME	factor	3608	0.00 %	
	TIME_ZONE	factor	22	0.00 %	
	COUNTY	numeric	557	0.00 %	
	COUNTYNAME	factor	29601	0.00 %	
	STATE	factor	72	0.00 %	
	EVTTYPE	factor	985	0.00 %	
	BGN_RANGE	numeric	272	0.00 %	
	BGN_AZI	factor	35	0.00 %	
	BGN_LOCATI	factor	54429	0.00 %	
	END_DATE	factor	6663	0.00 %	
	END_TIME	factor	3647	0.00 %	
	COUNTY_END	numeric	1	0.00 %	
	COUNTYENDN	logical	1	100.00 %	
	END_RANGE	numeric	266	0.00 %	
	END_AZI	factor	24	0.00 %	
	END_LOCATI	factor	34506	0.00 %	
	LENGTH	numeric	568	0.00 %	
	WIDTH	numeric	293	0.00 %	
	F	integer	7	93.49 %	
	MAG	numeric	226	0.00 %	
	FATALITIES	numeric	52	0.00 %	
	INJURIES	numeric	200	0.00 %	
	PROPDMG	numeric	1390	0.00 %	
	PROPDMGEXP	factor	19	0.00 %	
	CROPDMG	numeric	432	0.00 %	
	CROPDMGEXP	factor	9	0.00 %	
	WFO	factor	542	0.00 %	
	STATEOFFIC	factor	250	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
	ZONENAMES	factor	25112	0.00 %	
	LATITUDE	numeric	1781	0.01 %	
	LONGITUDE	numeric	3841	0.00 %	
	LATITUDE_E	numeric	1729	0.00 %	
	LONGITUDE_	numeric	3778	0.00 %	
	REMARKS	factor	436781	0.00 %	
	REFNUM	numeric	902297	0.00 %	

Variable list

STATE__

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	70
Median	30
1st and 3rd quartiles	19; 45
Min. and max.	1; 95

BGN_DATE

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	16335
Mode	"5/25/2011 0:00:00"

BGN_TIME

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	3608
Mode	"12:00:00 AM"

TIME_ZONE

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	22
Mode	"CST"

COUNTY

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	557
Median	75
1st and 3rd quartiles	31; 131
Min. and max.	0; 873

COUNTYNAME

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	29601
Mode	"JEFFERSON"

STATE

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	72
Mode	"TX"

EVTYPE

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	985
Mode	"HAIL"

BGN_RANGE

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	272
Median	0
1st and 3rd quartiles	0; 1
Min. and max.	0; 3749

BGN_AZI

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	35
Mode	""

BGN_LOCATI

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	54429
Mode	""

END_DATE

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	6663
Mode	""

END_TIME

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	3647
Mode	""

COUNTY_END

- The variable only takes one (non-missing) value: "0". The variable contains 0 % missing observations.

COUNTYENDN

- The variable only takes one value: "NA".

END_RANGE

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	266
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 925

END_AZI

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	24
Mode	""

END_LOCATI

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	34506
Mode	""

LENGTH

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	568
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 2315

WIDTH

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	293
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 4400

F

Feature	Result
Variable type	integer
Number of missing obs.	843563 (93.49 %)
Number of unique values	6
Median	1
1st and 3rd quartiles	0; 1
Min. and max.	0; 5

MAG

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	226
Median	50
1st and 3rd quartiles	0; 75
Min. and max.	0; 22000

FATALITIES

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	52
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 583

INJURIES

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	200
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 1700

PROPDMG

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	1390
Median	0
1st and 3rd quartiles	0; 0.5
Min. and max.	0; 5000

PROPDMGEXP

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	19
Mode	""

CROPDMG

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	432
Median	0
1st and 3rd quartiles	0; 0
Min. and max.	0; 990

CROPDMGEXP

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	9
Mode	""

WFO

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	542
Mode	""

STATEOFFIC

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	250
Mode	""

ZONENAMES

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	25112
Mode	""

LATITUDE

Feature	Result
Variable type	numeric
Number of missing obs.	47 (0.01 %)
Number of unique values	1780
Median	3540
1st and 3rd quartiles	2802; 4019
Min. and max.	0; 9706

LONGITUDE

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3841
Median	8707
1st and 3rd quartiles	7247; 9605
Min. and max.	-14451; 17124

LATITUDE_E

Feature	Result
Variable type	numeric
Number of missing obs.	40 (0 %)
Number of unique values	1728
Median	0
1st and 3rd quartiles	0; 3549
Min. and max.	0; 9706

LONGITUDE_

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	3778
Median	0
1st and 3rd quartiles	0; 8735
Min. and max.	-14455; 106220

REMARKS

Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	436781
Mode	""

REFNUM

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	902297
Median	451149
1st and 3rd quartiles	225575; 676723
Min. and max.	1; 902297

Report generation information:

- Created by Scott Robertson (username: scottrobertson).
- Report creation time: Wed Oct 03 2018 10:27:24
- Report Was run from directory: /Users/scottrobertson/R Programming/Coursera/Rep_DataPeerAssessment2
- dataMaid v1.1.2 [Pkg: 2018-05-03 from CRAN (R 3.5.1)]
- R version 3.5.1 (2018-07-02).
- Platform: x86_64-apple-darwin17.7.0 (64-bit)(macOS 10.14).
- Function call: `makeDataReport(data = storm_data, mode = "summarize", file = "codebook_storm_data.Rmd", checks = list(list("showAllFactorLevels")), listChecks = FALSE, maxProbVals = FALSE, codebook = TRUE, reportTitle = "Codebook for storm_data")`