

# Damages related with Storms and other severe weather events

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## Synopsis

Storms and other severe weather events can cause both public health and economic problems for communities and municipalities. Many severe events can result in fatalities, injuries, and property damage, and preventing such outcomes to the extent possible is a key concern.

This project involves exploring the U.S. National Oceanic and Atmospheric Administration's (NOAA) storm database. This database tracks characteristics of major storms and weather events in the United States, including when and where they occur, as well as estimates of any fatalities, injuries, and property damage.

## Assignment

The basic goal of this assignment is to explore the NOAA Storm Database and answer some basic questions about severe weather events. You must use the database to answer the questions below and show the code for your entire analysis. Your analysis can consist of tables, figures, or other summaries. You may use any R package you want to support your analysis.

Consider writing your report as if it were to be read by a government or municipal manager who might be responsible for preparing for severe weather events and will need to prioritize resources for different types of events. However, there is no need to make any specific recommendations in your report.

## Data Processing

Since the size of the data is quite big the `data.table` package is used for faster and better efficiency reading

```
library(data.table)
```

The data for this assignment comes in the form of a comma-separated-value file compressed via the `bzip2` algorithm to reduce its size. You can download the file from the course web site:

Storm Data [47Mb]

There is also some documentation of the database available. Here you will find how some of the variables are constructed/defined.

National Weather Service Storm Data Documentation

National Climatic Data Center Storm Events FAQ

The events in the database start in the year 1950 and end in November 2011. In the earlier years of the database there are generally fewer events recorded, most likely due to a lack of good records. More recent years should be considered more complete.

For sake of better columns class settings we define column classes when loading raw data.

```
colClasses=c("factor","character","character","character","numeric","character","factor","factor","numeric")
DT<-fread("repdata_data_StormData.csv",sep = ",",header = TRUE,colClasses=colClasses,na.strings=NULL,da
```

data summary

```
str(DT)
```

```
## Classes 'data.table' and 'data.frame':  902297 obs. of  37 variables:
## $ STATE__ : Factor w/ 70 levels "1.00","10.00",...: 1 1 1 1 1 1 1 1 1 1 ...
## $ BGN_DATE : chr  "4/18/1950 0:00:00" "4/18/1950 0:00:00" "2/20/1951 0:00:00" "6/8/1951 0:00:00" ...
## $ BGN_TIME : chr  "0130" "0145" "1600" "0900" ...
## $ TIME_ZONE : chr  "CST" "CST" "CST" "CST" ...
## $ COUNTY : num  97 3 57 89 43 77 9 123 125 57 ...
## $ COUNTYNAME: chr  "MOBILE" "BALDWIN" "FAYETTE" "MADISON" ...
## $ STATE : Factor w/ 72 levels "AK","AL","AM",...: 2 2 2 2 2 2 2 2 2 2 ...
## $ EVTYPE : Factor w/ 985 levels " HIGH SURF ADVISORY",...: 826 826 826 826 826 826 826 826 826 ...
## $ BGN_RANGE : num  0 0 0 0 0 0 0 0 0 0 ...
## $ BGN_AZI : chr  "" "" "" "" ...
## $ BGN_LOCATI: chr  "" "" "" "" ...
## $ END_DATE : chr  "" "" "" "" ...
## $ END_TIME : chr  "" "" "" "" ...
## $ COUNTY_END: chr  "0.00" "0.00" "0.00" "0.00" ...
## $ COUNTYENDN: chr  "" "" "" "" ...
## $ END_RANGE : num  0 0 0 0 0 0 0 0 0 0 ...
## $ END_AZI : chr  "" "" "" "" ...
## $ END_LOCATI: chr  "" "" "" "" ...
## $ LENGTH : num  14 2 0.1 0 0 1.5 1.5 0 3.3 2.3 ...
## $ WIDTH : num  100 150 123 100 150 177 33 33 100 100 ...
## $ F : Factor w/ 7 levels "", "0", "1", "2",...: 5 4 4 4 4 4 4 3 5 5 ...
## $ MAG : Factor w/ 226 levels "0.00","1.00",...: 1 1 1 1 1 1 1 1 1 1 ...
## $ FATALITIES: num  0 0 0 0 0 0 0 0 1 0 ...
## $ INJURIES : num  15 0 2 2 2 6 1 0 14 0 ...
## $ PROPDMG : num  25 2.5 25 2.5 2.5 2.5 2.5 2.5 25 25 ...
## $ PROPDMGEXP: chr  "K" "K" "K" "K" ...
## $ CROPDMG : num  0 0 0 0 0 0 0 0 0 0 ...
## $ CROPDMGEXP: chr  "" "" "" "" ...
## $ WFO : chr  "" "" "" "" ...
## $ STATEOFFIC: chr  "" "" "" "" ...
## $ ZONENAMES : chr  "" "" "" "" ...
## $ LATITUDE : num  3040 3042 3340 3458 3412 ...
## $ LONGITUDE : num  8812 8755 8742 8626 8642 ...
## $ LATITUDE_E: num  3051 0 0 0 0 ...
## $ LONGITUDE_: num  8806 0 0 0 0 ...
## $ REMARKS : chr  "" "" "" "" ...
## $ REFNUM : num  1 2 3 4 5 6 7 8 9 10 ...
## - attr(*, ".internal.selfref")=<externalptr>
```

Let's see first rows of the data table

```
head(DT)
```

```
##      STATE__      BGN_DATE BGN_TIME TIME_ZONE COUNTY COUNTYNAME STATE
## 1:      1.00 4/18/1950 0:00:00    0130      CST     97      MOBILE    AL
## 2:      1.00 4/18/1950 0:00:00    0145      CST      3      BALDWIN    AL
## 3:      1.00 2/20/1951 0:00:00    1600      CST     57      FAYETTE    AL
## 4:      1.00 6/8/1951 0:00:00    0900      CST     89      MADISON    AL
## 5:      1.00 11/15/1951 0:00:00    1500      CST     43      CULLMAN    AL
## 6:      1.00 11/15/1951 0:00:00    2000      CST     77 LAUDERDALE    AL
##      EVTYPE BGN_RANGE BGN_AZI BGN_LOCATI END_DATE END_TIME COUNTY_END
## 1: TORNADO      0                                0.00
```

```
## 2: TORNADO      0      0.00
## 3: TORNADO      0      0.00
## 4: TORNADO      0      0.00
## 5: TORNADO      0      0.00
## 6: TORNADO      0      0.00
## COUNTYENDN END_RANGE END_AZI END_LOCATI LENGTH WIDTH F MAG FATALITIES
## 1:      0      14.0   100 3 0.00      0
## 2:      0      2.0   150 2 0.00      0
## 3:      0      0.1   123 2 0.00      0
## 4:      0      0.0   100 2 0.00      0
## 5:      0      0.0   150 2 0.00      0
## 6:      0      1.5   177 2 0.00      0
## INJURIES PROPDMG PROPDMGEXP CROPDMG CROPDMGEXP WFO STATEOFFIC ZONENAMES
## 1:      15    25.0      K      0
## 2:      0     2.5      K      0
## 3:      2    25.0      K      0
## 4:      2     2.5      K      0
## 5:      2     2.5      K      0
## 6:      6     2.5      K      0
## LATITUDE LONGITUDE LATITUDE_E LONGITUDE_ REMARKS REFNUM
## 1:      3040      8812      3051      8806      1
## 2:      3042      8755      0      0      2
## 3:      3340      8742      0      0      3
## 4:      3458      8626      0      0      4
## 5:      3412      8642      0      0      5
## 6:      3450      8748      0      0      6
```

We need to solve some problems with Begin date column thus packages for handling date and time classes are loaded

```
library(lubridate)
library(reshape2)
```

```
DT[,BGN_DATE:=mdy(colsplit(string=DT$BGN_DATE, pattern=" ",names = c("Part1", "Part2"))$Part1)]
```

Check data problems are solved

```
head(DT[,BGN_DATE])
```

```
## [1] "1950-04-18" "1950-04-18" "1951-02-20" "1951-06-08" "1951-11-15"
## [6] "1951-11-15"
```

```
summary(DT$BGN_DATE)
```

```
##      Min.      1st Qu.      Median      Mean      3rd Qu.
## "1950-01-03" "1995-04-20" "2002-03-18" "1998-12-27" "2007-07-28"
##      Max.
## "2011-11-30"
```

Remove not used columns so that the file size is more handy for computations

```
DT[,c("STATE__","BGN_TIME","TIME_ZONE","COUNTY","COUNTYNAME","BGN_RANGE","BGN_AZI","BGN_LOCATI","END_DATE"),with=F]
str(DT)
```

```
## Classes 'data.table' and 'data.frame':  902297 obs. of  11 variables:
## $ BGN_DATE : Date, format: "1950-04-18" "1950-04-18" ...
## $ STATE : Factor w/ 72 levels "AK","AL","AM",...: 2 2 2 2 2 2 2 2 ...
## $ EVTYPE : Factor w/ 985 levels " HIGH SURF ADVISORY",...: 826 826 826 826 826 826 826 826 826 826 ...
```

```
## $ LENGTH      : num  14 2 0.1 0 0 1.5 1.5 0 3.3 2.3 ...
## $ WIDTH       : num  100 150 123 100 150 177 33 33 100 100 ...
## $ F           : Factor w/ 7 levels "", "0", "1", "2",...: 5 4 4 4 4 4 3 5 5 ...
## $ MAG         : Factor w/ 226 levels "0.00", "1.00",...: 1 1 1 1 1 1 1 1 1 1 ...
## $ FATALITIES: num  0 0 0 0 0 0 0 0 1 0 ...
## $ INJURIES   : num  15 0 2 2 2 6 1 0 14 0 ...
## $ PROPDGMG   : num  25 2.5 25 2.5 2.5 2.5 2.5 2.5 25 25 ...
## $ CROPDGMG   : num  0 0 0 0 0 0 0 0 0 0 ...
## - attr(*, ".internal.selfref")=<externalptr>
```

Agregate new month and year columns for better clasifications and summaries

```
DT[,MONTH:=month(BGN_DATE)]
DT[,YEAR:=year(BGN_DATE)]
head(DT)
```

```
##      BGN_DATE STATE  EVTYPE LENGTH WIDTH F  MAG FATALITIES INJURIES
## 1: 1950-04-18    AL TORNADO   14.0   100 3 0.00          0        15
## 2: 1950-04-18    AL TORNADO    2.0   150 2 0.00          0          0
## 3: 1951-02-20    AL TORNADO    0.1   123 2 0.00          0          2
## 4: 1951-06-08    AL TORNADO    0.0   100 2 0.00          0          2
## 5: 1951-11-15    AL TORNADO    0.0   150 2 0.00          0          2
## 6: 1951-11-15    AL TORNADO    1.5   177 2 0.00          0          6
##      PROPDGMG CROPDGMG MONTH YEAR
## 1:      25.0        0      4 1950
## 2:       2.5        0      4 1950
## 3:      25.0        0      2 1951
## 4:       2.5        0      6 1951
## 5:       2.5        0     11 1951
## 6:       2.5        0     11 1951
```

Replace NAs rows with 0 and check results

```
myNAs <- lapply(DT, function(x) which(is.na(x)))
{for(j in seq_along(DT)) if(length(myNAs[[j]]) > 0) set(DT, myNAs[[j]], j, 0)
}

sum(is.na(DT))
```

```
## [1] 0
```

```
anyNA(DT, recursive=TRUE)
```

```
## [1] FALSE
```

Set Keys in data table for fast ordering

```
setkey(DT,EVTYPE,YEAR)
```

## which types of events are most harmful to population health?

According to NOAA the data recording start from Jan. 1950. At that time they recorded one event type, tornado. They add more events gradually and only from Jan. 1996 they start recording all events type. Since our objective is comparing the effects of different weather events, do we need to include all years, even it has only single event type? We will cut data begining 1996

Total Fatalities and Injuries per year and event type with corresponding means

```
ans1<-DT[,.(totalfat=sum(FATALITIES,na.rm = TRUE),totalinjur=sum(INJURIES,na.rm = TRUE),meanfat=mean(FATALITIES),meaninjur=mean(INJURIES)),by=EVTYPE]
ans1
```

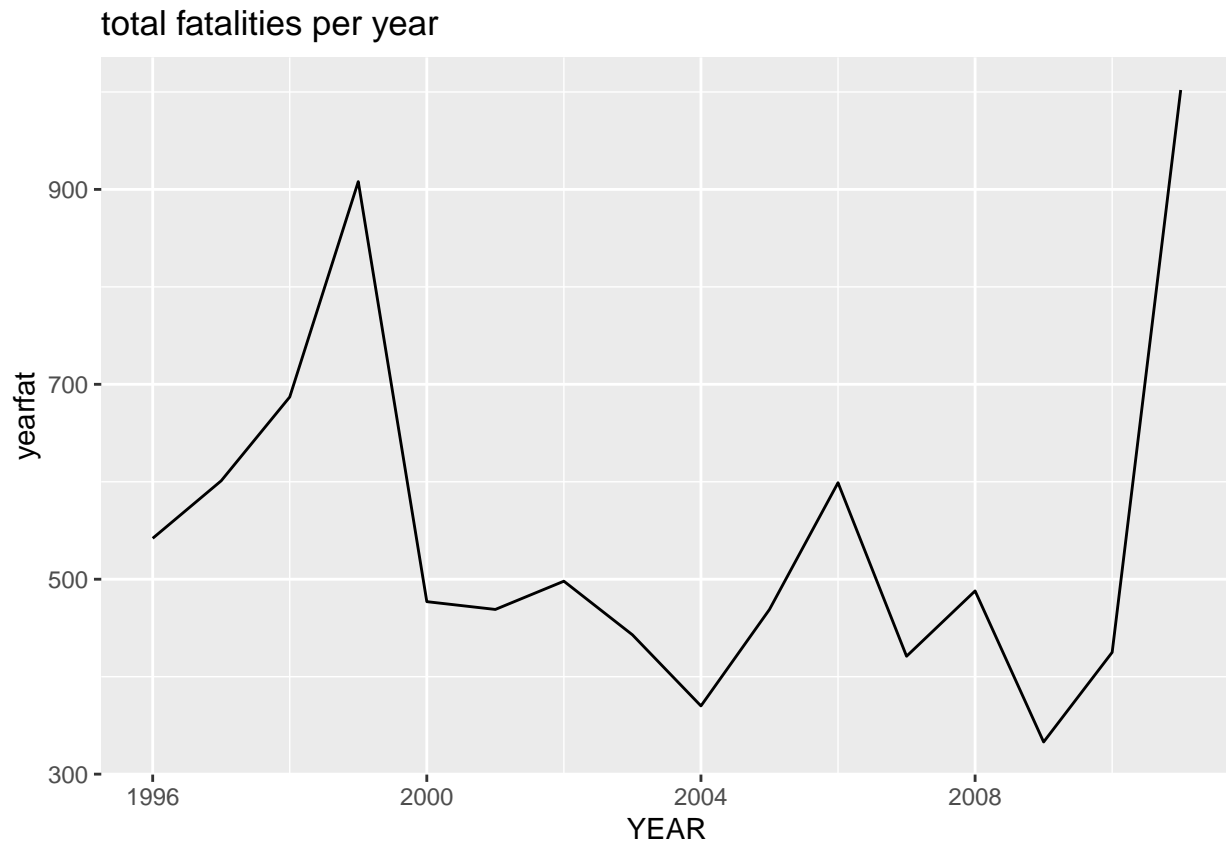
```
##           EVTYPE YEAR totalfat totalinjur      meanfat
## 1:          TORNADO 1996        26        705 0.0209846651
## 2:          TSTM WIND 1996        22        324 0.0022077270
## 3:          LIGHTNING 1996        53        315 0.0579868709
## 4:        WINTER STORM 1996        24        250 0.0551724138
## 5:          BLIZZARD 1996        23        170 0.1575342466
## ---
## 488:        COASTAL FLOOD 2011         1         1 0.0106382979
## 489:          HEAVY RAIN 2011         1         1 0.0009389671
## 490: EXTREME COLD/WIND CHILL 2011         2         1 0.0129032258
## 491:          TROPICAL STORM 2011         4         1 0.0251572327
## 492:        COLD/WIND CHILL 2011        21         1 0.3181818182
##           meaninjur
## 1: 0.5690072639
## 2: 0.0325137983
## 3: 0.3446389497
## 4: 0.5747126437
## 5: 1.1643835616
## ---
## 488: 0.0106382979
## 489: 0.0009389671
## 490: 0.0064516129
## 491: 0.0062893082
## 492: 0.0151515152
```

Total Fatalities and Injuries per Year with corresponding means

```
ans2<-DT[YEAR>1995,.(yearfat=sum(FATALITIES,na.rm = TRUE),yearinjur=sum(INJURIES,na.rm = TRUE),yearmeanfat=mean(FATALITIES),yearmeaninjur=mean(INJURIES)),by=YEAR]
ans2
```

```
##           YEAR yearfat yearinjur yearmeanfat yearmeaninjur
## 1: 1996         542        2717 0.016795786 0.08419585
## 2: 1997         601        3800 0.020955370 0.13249651
## 3: 1998         687       11177 0.018018254 0.29314415
## 4: 1999         908        5148 0.029019783 0.16453067
## 5: 2000         477        2803 0.013837719 0.08131473
## 6: 2001         469        2721 0.013414564 0.07782736
## 7: 2002         498        3155 0.013721654 0.08693136
## 8: 2003         443        2931 0.011144093 0.07373214
## 9: 2004         370        2426 0.009399690 0.06163148
## 10: 2005         469        1834 0.011969171 0.04680482
## 11: 2006         599        3368 0.013603125 0.07648635
## 12: 2007         421        2191 0.009725334 0.05061332
## 13: 2008         488        2703 0.008767045 0.04856008
## 14: 2009         333        1354 0.007268045 0.02955235
## 15: 2010         425        1855 0.008824568 0.03851664
## 16: 2011        1002        7792 0.016116061 0.12532570
```

```
library(ggplot2)
ggplot(ans2)+geom_line(aes(x=YEAR,y=yearfat))+labs(title ="total fatalities per year")
```



Total Fatalities and Injuries per event type ordered decreasingly

```
ans3<-DT[YEAR>1995,.(TOTFatal=sum(FATALITIES,na.rm = TRUE),TOTInjur=sum(INJURIES,na.rm = TRUE)),by=EVTY
ans3
```

```
##           EVTYPE TOTFatal TOTInjur
## 1:  EXCESSIVE HEAT    1797    6391
## 2:      TORNADO    1511   20667
## 3:  FLASH FLOOD     887    1674
## 4:   LIGHTNING     651    4141
## 5:      FLOOD      414    6758
## ---
## 512:   Wintry mix         0         0
## 513: coastal flooding         0         0
## 514:  gradient wind         0         0
## 515:    small hail         0         0
## 516:  wet micoburst         0         0
```

Total Fatalities and Injuries by event type and State ordered decreasingly

```
ans4<-DT[YEAR>1995,.(TOTFatal=sum(FATALITIES,na.rm = TRUE),TOTInjur=sum(INJURIES,na.rm = TRUE)),by=.(EVTY
ans4
```

```
##           EVTYPE STATE TOTFatal TOTInjur
## 1:      TORNADO    AL      335    3231
## 2:  EXCESSIVE HEAT    IL      330    352
## 3:  EXCESSIVE HEAT    PA      292    320
## 4:  EXCESSIVE HEAT    TX      259      10
## 5:      TORNADO    MO      233    2059
```

```
## ---
## 3054: coastal flooding TX 0 0
## 3055: gradient wind TX 0 0
## 3056: small hail NY 0 0
## 3057: small hail VT 0 0
## 3058: wet micoburst OR 0 0
```

Total Fatalities and Injuries per State ordered decreasingly

```
ans5<-DT[YEAR>1995,.(TOTFatal=sum(FATALITIES,na.rm = TRUE),TOTInjur=sum(INJURIES,na.rm = TRUE)),by=STATE]
ans5
```

```
## STATE TOTFatal TOTInjur
## 1: TX 756 9222
## 2: IL 586 1328
## 3: FL 544 2884
## 4: MO 533 5960
## 5: CA 498 2769
## 6: PA 492 1450
## 7: AL 449 3707
## 8: TN 327 2385
## 9: NY 268 908
## 10: NC 263 1378
## 11: AR 228 1656
## 12: OK 219 2375
## 13: AZ 175 635
## 14: GA 160 1666
## 15: MS 160 1217
## 16: OH 158 895
## 17: NJ 147 936
## 18: CO 147 662
## 19: LA 144 812
## 20: MD 141 1293
## 21: KS 140 845
## 22: IN 133 835
## 23: SC 131 559
## 24: UT 130 979
## 25: WA 119 258
## 26: KY 117 850
## 27: VA 114 902
## 28: PR 111 50
## 29: MI 110 1195
## 30: WI 110 806
## 31: NV 89 205
## 32: GU 81 416
## 33: MN 72 513
## 34: OR 72 201
## 35: WV 67 124
## 36: AK 62 104
## 37: IA 61 984
## 38: NM 61 168
## 39: WY 52 309
## 40: MT 52 150
## 41: NE 42 350
## 42: ID 42 173
```

```
## 43:    ND      41      265
## 44:    AS      41      164
## 45:    SD      36      473
## 46:    CT      35      172
## 47:    MA      34      687
## 48:    HI      33       81
## 49:    DE      24      255
## 50:    NH      24      139
## 51:    ME      22      130
## 52:    VT      19       41
## 53:    DC      13      369
## 54:    AN      12       23
## 55:    AM      10       30
## 56:    VI       7        2
## 57:    RI       6       25
## 58:    PZ       5        3
## 59:    LM       4        2
## 60:    GM       1        0
## 61:    LS       1        0
## 62:    PH       1        0
## 63:    LC       0        0
## 64:    LH       0        0
## 65:    LE       0        0
## 66:    SL       0        0
## 67:    LO       0        0
## 68:    PK       0        0
## 69:    XX       0        0
## 70:    PM       0        0
##      STATE TOTFatal TOTInjur
```

which types of events have the greatest economic consequences?

In the new tables (post-2012), it looks like PROPDMGEXP is gone, and DAMAGE\_PROPERTY contains the data that was previously separated into PROPDMG and PROPDMGEXP.

That explains why 20, 3 is now corrected into 203, and so on. Looks like the + and - were entered by under-trained staff to indicate that the damage is more than x or less than x.

So the conclusion is that the malformed rows are indeed caused by improper handling, and they were fixed during the 2012 update. My approach was to ignore all of them because these amounts are negligible when we are talking about sums that go into the billions.

Note: Looks like all data with EXP numeric values only happened in the range of 1994-1995 period which is very small compared to overall data.

Event Type frequencies per State ordered decreasingly

```
ans6<-DT[YEAR>1995,.(.N), by = .(EVTYPE,STATE)] [order(STATE,-N)]
ans6
```

```
##      EVTYPE STATE      N
## 1:    HIGH WIND    AK 1675
## 2:    BLIZZARD    AK  865
## 3:    HEAVY SNOW    AK  581
## 4:      FLOOD    AK  208
## 5: WINTER STORM    AK  143
```



```
## ---
## 3054:          DUST DEVIL      WY      2
## 3055:          EXTREME WINDCHILL WY      2
## 3056:          Blowing Snow    WY      1
## 3057:          ICE ROADS       WY      1
## 3058: MARINE THUNDERSTORM WIND XX      2
```

Frequencies of event type ordered decreasingly

```
ans7<-DT[YEAR>1995,.(.N), by = .(EVTYPE)] [order(-N)]
ans7
```

```
##          EVTYPE      N
## 1:          HAIL 207715
## 2:          TSTM WIND 128662
## 3: THUNDERSTORM WIND 81402
## 4:          FLASH FLOOD 50999
## 5:          FLOOD 24247
## ---
## 512: WIND AND WAVE      1
## 513: WINTER MIX        1
## 514: WND                1
## 515: Wintry Mix        1
## 516: wet micoburst     1
```

Number of events per State ordered decreasingly

```
ans8<-DT[YEAR>1995,.(.N), by = STATE] [order(-N)]
ans8
```

```
##      STATE      N
## 1:    TX 51335
## 2:    KS 38649
## 3:    OK 26980
## 4:    MO 25802
## 5:    IA 22712
## 6:    IL 21215
## 7:    NE 20955
## 8:    NC 19413
## 9:    AR 18234
## 10:   GA 18063
## 11:   KY 17683
## 12:   MN 17613
## 13:   OH 17387
## 14:   TN 17273
## 15:   VA 17246
## 16:   SD 16165
## 17:   AL 16093
## 18:   PA 15980
## 19:   IN 15490
## 20:   CO 15457
## 21:   MS 15372
## 22:   NY 15200
## 23:   FL 15142
## 24:   WI 14121
## 25:   SC 12770
## 26:   MI 12532
```

```
## 27: MT 12341
## 28: ND 10567
## 29: CA 9873
## 30: LA 9666
## 31: WV 7185
## 32: NJ 6649
## 33: MD 6565
## 34: WY 5453
## 35: GM 5337
## 36: NM 5172
## 37: AZ 4755
## 38: MA 4482
## 39: OR 4355
## 40: AK 4031
## 41: ME 3687
## 42: ID 3388
## 43: UT 3262
## 44: AN 3250
## 45: VT 3046
## 46: WA 3000
## 47: PR 2753
## 48: NV 2687
## 49: CT 2624
## 50: HI 2450
## 51: NH 2441
## 52: AM 1879
## 53: DE 1571
## 54: LE 1526
## 55: LM 1347
## 56: RI 694
## 57: LH 654
## 58: DC 364
## 59: GU 302
## 60: VI 278
## 61: LC 274
## 62: LS 262
## 63: AS 251
## 64: PZ 96
## 65: LO 70
## 66: PH 28
## 67: PK 23
## 68: SL 7
## 69: XX 2
## 70: PM 1
## STATE N
```

Total property and crop damage per year with corresponding means

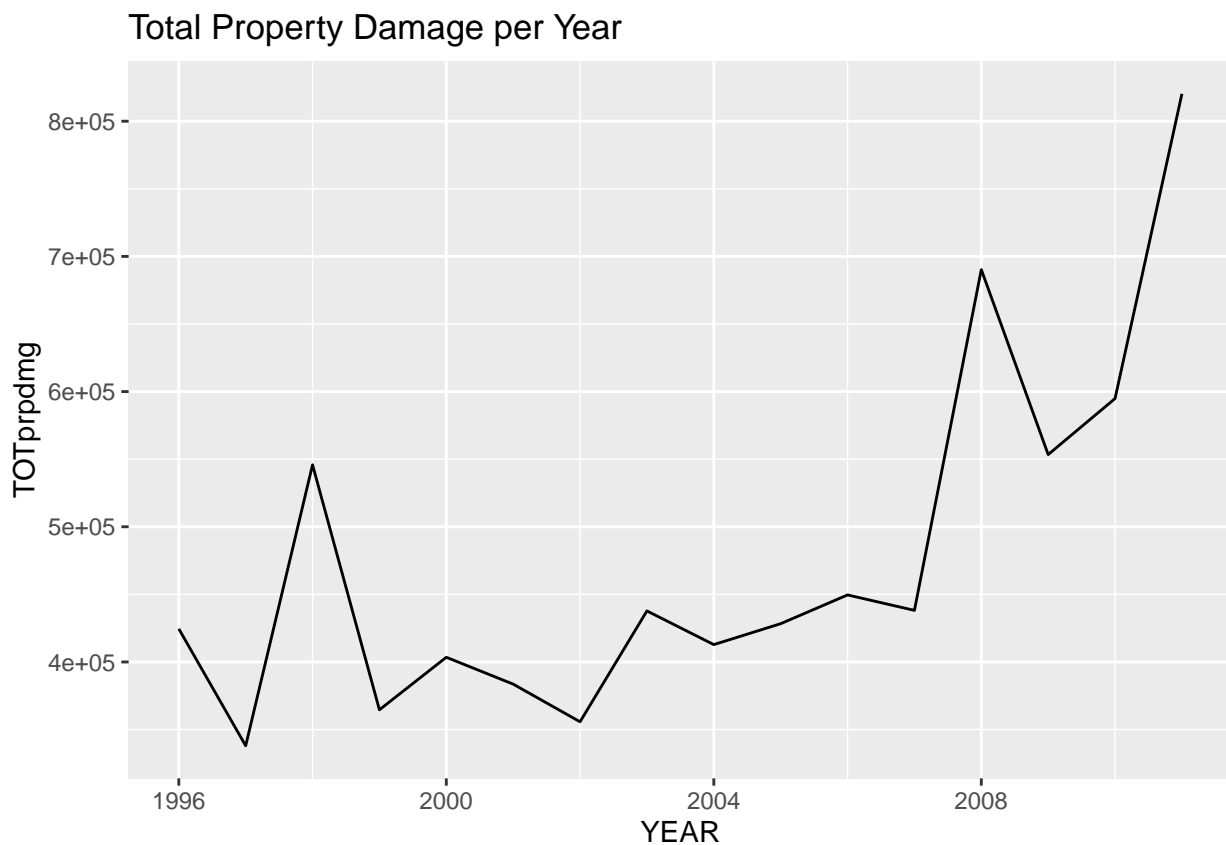
```
ans9<-DT[,.(TOTprpdmg=sum(PROPDMG,na.rm = TRUE),TOTcropdmg=sum(CROPDMG,na.rm = TRUE),meanprpdmg=mean(PROPDMG,na.rm = TRUE),meancropdmg=mean(CROPDMG,na.rm = TRUE))]
```

```
## YEAR TOTprpdmg TOTcropdmg meanprpdmg meancropdmg
## 1: 1996 424503.3 69291.90 13.154736 2.147254
## 2: 1997 337999.5 74074.56 11.785200 2.582795
## 3: 1998 545844.6 102235.21 14.316110 2.681368
```

```
## 4: 1999 364611.5 62707.15 11.653026 2.004128
## 5: 2000 403471.2 79413.61 11.704657 2.303780
## 6: 2001 383596.8 48248.35 10.971820 1.380023
## 7: 2002 355741.3 49230.64 9.801927 1.356478
## 8: 2003 437754.9 52322.19 11.012147 1.316215
## 9: 2004 412837.6 72438.97 10.487961 1.840281
## 10: 2005 428309.1 48443.05 10.930714 1.236297
## 11: 2006 449583.7 65850.56 10.209921 1.495448
## 12: 2007 438170.3 76768.00 10.121977 1.773384
## 13: 2008 690246.1 183821.00 12.400448 3.302391
## 14: 2009 553432.6 59683.00 12.079197 1.302639
## 15: 2010 594847.9 59014.00 12.351237 1.225348
## 16: 2011 820290.7 98311.00 13.193469 1.581224
```

Let's graphic the table above

```
ggplot(ans9)+geom_line(aes(x=YEAR,y=TOTprpdmg))+labs(title ="Total Property Damage per Year")
```



Total property and crop damages per year by State and corresponding means ordered decreasingly

```
ans10<-DT[,.(TOTprpdmg=sum(PROPDMG,na.rm = TRUE),TOTcropdmg=sum(CROPDMG,na.rm = TRUE),meanprpdmg=mean(P
ans10
```

##	YEAR	STATE	TOTprpdmg	TOTcropdmg	meanprpdmg	meancropdmg
##	1: 1996	TX	36001.07	2571.93	11.16312	0.7974977
##	2: 1996	VA	27584.27	8766.89	26.42171	8.3974042
##	3: 1996	NY	24998.46	645.00	28.56967	0.7371429
##	4: 1996	IA	19055.90	4156.60	35.09374	7.6548803
##	5: 1996	WI	18814.20	4724.10	28.63653	7.1904110

```
## ---
## 1006: 2011 LE 0.00 0.00 0.00000 0.000000
## 1007: 2011 LC 0.00 0.00 0.00000 0.000000
## 1008: 2011 LO 0.00 0.00 0.00000 0.000000
## 1009: 2011 XX 0.00 0.00 0.00000 0.000000
## 1010: 2011 PH 0.00 0.00 0.00000 0.000000
```

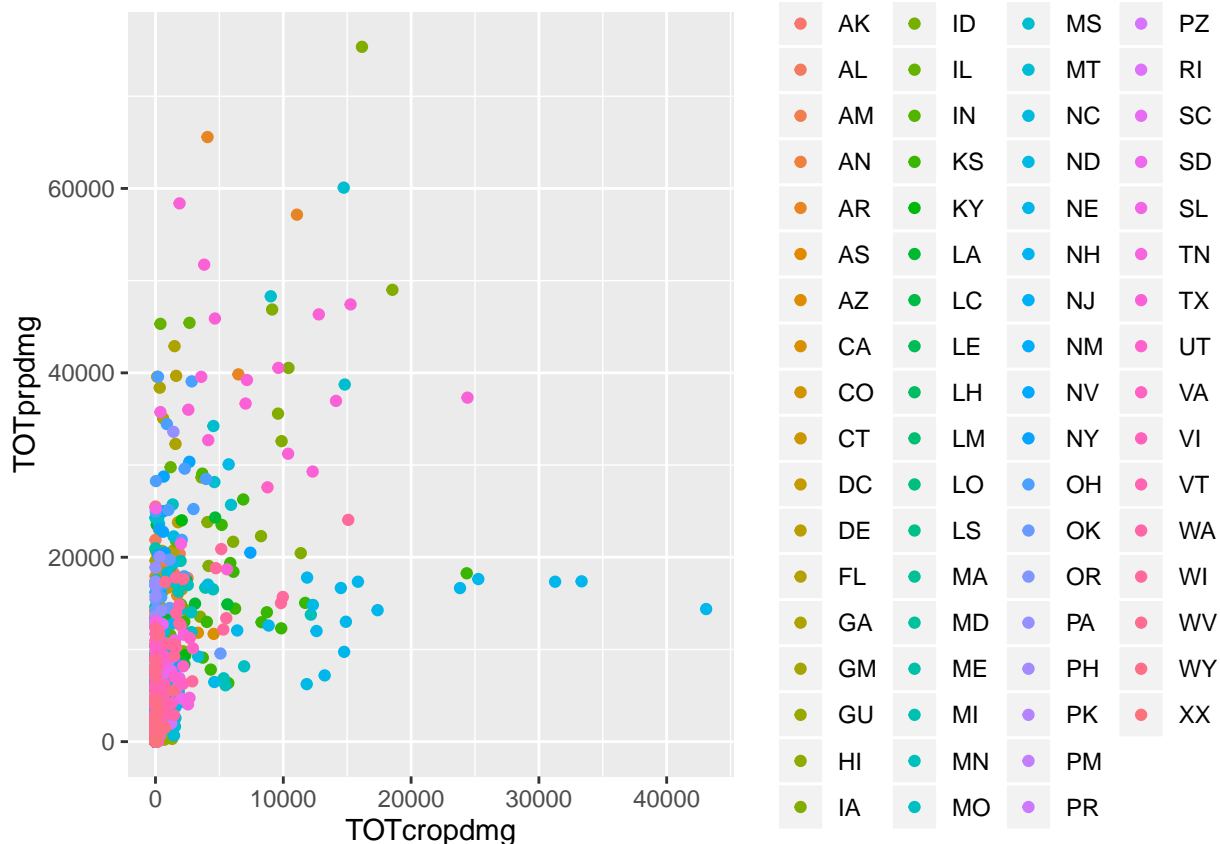
Total property and crop damages per by State and years with corresponding means ordered decreasingly

```
ans11<-DT[,.(TOTprpdmg=sum(PROPDMG,na.rm = TRUE),TOTcropdmg=sum(CROPDMG,na.rm = TRUE),meanprpdmg=mean(P
ans11
```

```
## STATE YEAR TOTprpdmg TOTcropdmg meanprpdmg
## 1: AK 1996 549.00 0 2.196000
## 2: AK 1997 845.75 0 4.975000
## 3: AK 1998 493.30 0 2.360287
## 4: AK 1999 2187.00 10 7.100649
## 5: AK 2000 2398.20 5 7.862951
## ---
## 1006: WY 2009 4024.00 65 7.874755
## 1007: WY 2010 3291.40 124 4.412064
## 1008: WY 2011 5512.00 1390 7.408602
## 1009: XX 2009 0.00 0 0.000000
## 1010: XX 2011 0.00 0 0.000000
```

Let's graphic the table above

```
qplot(TOTcropdmg,TOTprpdmg,data=ans11,color=STATE)
```



Total property and crop damages by State ordered decreasingly

```
ans12<-DT[YEAR>1995,.(TOTprpdmg=sum(PROPDMG,na.rm = TRUE),TOTcropdmg=sum(CROPDMG,na.rm = TRUE)),by=STATE]
ans12
```

##	STATE	TOTprpdmg	TOTcropdmg
## 1:	TX	627973.21	139299.84
## 2:	IA	465302.95	121546.47
## 3:	OH	398135.48	19704.65
## 4:	MS	357590.20	56017.79
## 5:	GA	354780.71	6890.26
## 6:	NY	271327.28	18236.55
## 7:	AL	255756.45	7479.54
## 8:	IL	254046.49	11732.02
## 9:	AR	241738.20	25648.13
## 10:	FL	239133.89	9749.38
## 11:	KS	232477.48	113334.87
## 12:	NE	228885.95	288522.79
## 13:	PA	225617.46	3448.90
## 14:	WI	213111.63	69215.00
## 15:	TN	209740.70	13389.20
## 16:	MO	197675.62	14059.34
## 17:	LA	192096.87	22907.33
## 18:	KY	177800.33	7970.40
## 19:	CA	177116.58	18899.71
## 20:	NC	172110.72	21321.15
## 21:	IN	168043.74	9562.00
## 22:	OK	166770.42	9141.84
## 23:	MI	161392.95	15019.05
## 24:	VA	151317.10	21335.64
## 25:	MN	144728.32	41455.75
## 26:	WV	140495.11	3373.88
## 27:	ND	124093.05	42820.61
## 28:	SD	93390.12	10607.22
## 29:	SC	86886.64	2461.80
## 30:	VT	75823.82	2640.00
## 31:	WA	72032.54	7039.81
## 32:	MD	69601.56	3447.70
## 33:	AZ	67882.94	859.00
## 34:	MA	67238.95	1312.00
## 35:	NJ	56844.02	1363.00
## 36:	ME	56072.95	135.00
## 37:	CO	54521.80	4673.50
## 38:	NM	43679.38	3931.67
## 39:	NH	41315.99	200.00
## 40:	UT	40276.06	3823.90
## 41:	AK	31284.01	195.00
## 42:	MT	30145.51	8526.80
## 43:	PR	29782.74	2357.60
## 44:	WY	29395.79	3340.10
## 45:	NV	24715.39	227.00
## 46:	ID	24562.73	1878.00
## 47:	CT	23982.25	30.00
## 48:	OR	18127.81	2227.30
## 49:	DE	14375.27	530.10

```
## 50:    GU    9385.34    5193.27
## 51:    RI    8628.40      0.00
## 52:    HI    5970.00   1947.33
## 53:    AM    5653.80    50.00
## 54:    DC    3297.50     5.00
## 55:    VI    2004.40   205.00
## 56:    AS    1949.50   564.00
## 57:    LM    1633.10     0.00
## 58:    GM     606.04     0.00
## 59:    LS     400.00     0.00
## 60:    AN     294.00     0.00
## 61:    PZ      76.00     0.00
## 62:    LO      70.00     0.00
## 63:    PK      31.00     0.00
## 64:    LE      30.00     0.00
## 65:    SL      15.00     0.00
## 66:    LC       0.00     0.00
## 67:    LH       0.00     0.00
## 68:    PH       0.00     0.00
## 69:    XX       0.00     0.00
## 70:    PM       0.00     0.00
##      STATE TOTprpdmg TOTcropdmg
```

Total property and crop damages by event type ordered decreasingly

```
ans13<-DT[YEAR>1995,.(TOTprpdmg=sum(PROPDMG,na.rm = TRUE),TOTcropdmg=sum(CROPDGM,na.rm = TRUE)),by=EVTY
ans13
```

```
##      EVTYPE TOTprpdmg TOTcropdmg
## 1:      TSTM WIND 1330706.9   109110.6
## 2:      FLASH FLOOD 1247562.5   161066.7
## 3:      TORNADO 1187878.2    90128.5
## 4: THUNDERSTORM WIND 862257.4    66663.0
## 5:      FLOOD 824936.7   151826.2
## ---
## 512: Winter Weather      0.0      0.0
## 513: Wintry mix      0.0      0.0
## 514: coastal flooding      0.0      0.0
## 515: small hail      0.0      0.0
## 516: wet micoburst      0.0      0.0
```

Total economic damage by year

```
ans14<-DT[,.(TOTeconomicDMG=sum(PROPDMG+CROPDMG)),by=YEAR][YEAR>1995][order(YEAR)]
ans14
```

```
##      YEAR TOTeconomicDMG
## 1: 1996      493795.2
## 2: 1997      412074.1
## 3: 1998      648079.9
## 4: 1999      427318.7
## 5: 2000      482884.8
## 6: 2001      431845.1
## 7: 2002      404972.0
## 8: 2003      490077.0
## 9: 2004      485276.6
## 10: 2005      476752.2
```

```
## 11: 2006      515434.2
## 12: 2007      514938.3
## 13: 2008      874067.1
## 14: 2009      613115.6
## 15: 2010      653861.9
## 16: 2011      918601.7
```

Total economic damage by State ordered decreasingly

```
ans15<-DT[YEAR>1995,.(TOTEconomicDMG=sum(PROPDMG+CROPDMG)),by=.(STATE)][order(-TOTEconomicDMG)]
ans15
```

```
##      STATE TOTEconomicDMG
##  1:    TX      767273.05
##  2:    IA      586849.42
##  3:    NE      517408.74
##  4:    OH      417840.13
##  5:    MS      413607.99
##  6:    GA      361670.97
##  7:    KS      345812.35
##  8:    NY      289563.83
##  9:    WI      282326.63
## 10:    AR      267386.33
## 11:    IL      265778.51
## 12:    AL      263235.99
## 13:    FL      248883.27
## 14:    PA      229066.36
## 15:    TN      223129.90
## 16:    LA      215004.20
## 17:    MO      211734.96
## 18:    CA      196016.29
## 19:    NC      193431.87
## 20:    MN      186184.07
## 21:    KY      185770.73
## 22:    IN      177605.74
## 23:    MI      176412.00
## 24:    OK      175912.26
## 25:    VA      172652.74
## 26:    ND      166913.66
## 27:    WV      143868.99
## 28:    SD      103997.34
## 29:    SC       89348.44
## 30:    WA       79072.35
## 31:    VT       78463.82
## 32:    MD       73049.26
## 33:    AZ       68741.94
## 34:    MA       68550.95
## 35:    CO       59195.30
## 36:    NJ       58207.02
## 37:    ME       56207.95
## 38:    NM       47611.05
## 39:    UT       44099.96
## 40:    NH       41515.99
## 41:    MT       38672.31
## 42:    WY       32735.89
```

```
## 43: PR 32140.34
## 44: AK 31479.01
## 45: ID 26440.73
## 46: NV 24942.39
## 47: CT 24012.25
## 48: OR 20355.11
## 49: DE 14905.37
## 50: GU 14578.61
## 51: RI 8628.40
## 52: HI 7917.33
## 53: AM 5703.80
## 54: DC 3302.50
## 55: AS 2513.50
## 56: VI 2209.40
## 57: LM 1633.10
## 58: GM 606.04
## 59: LS 400.00
## 60: AN 294.00
## 61: PZ 76.00
## 62: LO 70.00
## 63: PK 31.00
## 64: LE 30.00
## 65: SL 15.00
## 66: LC 0.00
## 67: LH 0.00
## 68: PH 0.00
## 69: XX 0.00
## 70: PM 0.00
## STATE TOTeconomicDMG
```

Total economic damage by event type

```
ans16<-DT[YEAR>1995,.(TOTeconomicDMG=sum(PROPDMG+CROPDMG)),by=EVTTYPE][order(-TOTeconomicDMG)]
ans16
```

```
##          EVTYPE TOTeconomicDMG
## 1:      TSTM WIND      1439817.5
## 2:    FLASH FLOOD      1408629.2
## 3:      TORNADO      1278006.7
## 4:        HAIL      1073656.4
## 5:        FLOOD       976762.9
## ---
## 512: Winter Weather         0.0
## 513:   Wintry mix          0.0
## 514: coastal flooding       0.0
## 515:   small hail          0.0
## 516:   wet micoburst        0.0
```

## Results

Across the United States, which types of events (as indicated in the EVTYPE variable) are most harmful with respect to population health? The most harmful events across USA for population health considering fatalities and injuries related are:

```
##          EVTYPE TOTFatal TOTInjur
```



##	1:	EXCESSIVE HEAT	1797	6391
##	2:	TORNADO	1511	20667
##	3:	FLASH FLOOD	887	1674
##	4:	LIGHTNING	651	4141
##	5:	FLOOD	414	6758
##	6:	RIP CURRENT	340	209
##	7:	TSTM WIND	241	3629
##	8:	HEAT	237	1222
##	9:	HIGH WIND	235	1083
##	10:	AVALANCHE	223	156

Across the United States, which types of events have the greatest economic consequences? The events across USA with the greatest economic consequences considering property damage and crops damage are:

##		EVTYPE	TOTprpdmg	TOTcropdmg
##	1:	TSTM WIND	1330706.91	109110.60
##	2:	FLASH FLOOD	1247562.54	161066.71
##	3:	TORNADO	1187878.23	90128.50
##	4:	THUNDERSTORM WIND	862257.36	66663.00
##	5:	FLOOD	824936.71	151826.18
##	6:	HAIL	575317.28	498339.12
##	7:	LIGHTNING	488561.85	1903.44
##	8:	HIGH WIND	315098.06	17268.21
##	9:	WINTER STORM	126910.49	1963.99
##	10:	HEAVY SNOW	89393.11	1591.70

The event types causing more fatalities and injuries are:

##		EVTYPE	TOTFatal	TOTInjur
##	1:	EXCESSIVE HEAT	1797	6391
##	2:	TORNADO	1511	20667
##	3:	FLASH FLOOD	887	1674
##	4:	LIGHTNING	651	4141
##	5:	FLOOD	414	6758
##	6:	RIP CURRENT	340	209
##	7:	TSTM WIND	241	3629
##	8:	HEAT	237	1222
##	9:	HIGH WIND	235	1083
##	10:	AVALANCHE	223	156

The Event Types most frequent are:

##		EVTYPE	N
##	1:	HAIL	207715
##	2:	TSTM WIND	128662
##	3:	THUNDERSTORM WIND	81402
##	4:	FLASH FLOOD	50999
##	5:	FLOOD	24247
##	6:	TORNADO	23154
##	7:	HIGH WIND	19907
##	8:	HEAVY SNOW	14000
##	9:	LIGHTNING	13203
##	10:	HEAVY RAIN	11509

The States with more events are:

##	STATE	N
##	1: TX	51335

```
## 2:    KS 38649
## 3:    OK 26980
## 4:    MO 25802
## 5:    IA 22712
## 6:    IL 21215
## 7:    NE 20955
## 8:    NC 19413
## 9:    AR 18234
## 10:   GA 18063
```

The States with more economic damage are:

```
##      STATE TOTeconomicDMG
## 1:    TX      767273.1
## 2:    IA      586849.4
## 3:    NE      517408.7
## 4:    OH      417840.1
## 5:    MS      413608.0
## 6:    GA      361671.0
## 7:    KS      345812.3
## 8:    NY      289563.8
## 9:    WI      282326.6
## 10:   AR      267386.3
## 11:   IL      265778.5
## 12:   AL      263236.0
## 13:   FL      248883.3
## 14:   PA      229066.4
## 15:   TN      223129.9
```

The events types with more total economic damage are:

```
##      EVTYPE TOTeconomicDMG
## 1:    TSTM WIND      1439817.51
## 2:    FLASH FLOOD      1408629.25
## 3:    TORNADO      1278006.73
## 4:    HAIL      1073656.40
## 5:    FLOOD      976762.89
## 6: THUNDERSTORM WIND      928920.36
## 7:    LIGHTNING      490465.29
## 8:    HIGH WIND      332366.27
## 9:    WINTER STORM      128874.48
## 10:   HEAVY SNOW      90984.81
```

## Appendix

Since the data size is too big for handling we will use the `Caret` package to slice the sample data smaller for some linear regression models

```
library(caret)

# create training and test sets
inTrain <- createDataPartition(y=DT$FATALITIES,p=0.1, list=FALSE)
training<- DT[inTrain,]
testing<- DT[-inTrain,]
```

```
dim(training)
```

```
## [1] 90230    13
```

```
dim(testing)
```

```
## [1] 812067    13
```

Some linear regression models are shown for statistical inference

```
lm1<-lm(FATALITIES~as.factor(EVTYPE),data =training)
```

```
summary(lm1)
```

```
##
```

```
## Call:
```

```
## lm(formula = FATALITIES ~ as.factor(EVTYPE), data = training)
```

```
##
```

```
## Residuals:
```

```
##      Min       1Q   Median       3Q      Max
```

```
## -5.800 -0.007 -0.003  0.000 33.914
```

```
##
```

```
## Coefficients:
```

```
##
```

	Estimate	Std. Error
## (Intercept)	5.450e-11	3.294e-01
## as.factor(EVTYPE) WIND	-5.445e-11	4.658e-01
## as.factor(EVTYPE)APACHE COUNTY	-5.461e-11	4.658e-01
## as.factor(EVTYPE)ASTRONOMICAL HIGH TIDE	-5.441e-11	3.429e-01
## as.factor(EVTYPE)ASTRONOMICAL LOW TIDE	-5.443e-11	3.375e-01
## as.factor(EVTYPE)AVALANCHE	4.286e-01	3.341e-01
## as.factor(EVTYPE)BLACK ICE	-5.447e-11	4.658e-01
## as.factor(EVTYPE)BLIZZARD	3.488e-02	3.300e-01
## as.factor(EVTYPE)BLIZZARD AND EXTREME WIND CHIL	-5.451e-11	4.658e-01
## as.factor(EVTYPE)BLOW-OUT TIDES	-5.445e-11	4.658e-01
## as.factor(EVTYPE)BREAKUP FLOODING	-5.454e-11	4.658e-01
## as.factor(EVTYPE)COASTAL FLOOD	-5.452e-11	3.316e-01
## as.factor(EVTYPE)COASTAL FLOODING	-5.449e-11	3.418e-01
## as.factor(EVTYPE)COASTAL FLOODING/EROSION	-5.442e-11	4.658e-01
## as.factor(EVTYPE)COASTAL STORM	1.000e+00	4.658e-01
## as.factor(EVTYPE)COLD	8.333e-01	3.558e-01
## as.factor(EVTYPE)COLD TEMPERATURES	-5.448e-11	4.658e-01
## as.factor(EVTYPE)COLD WAVE	-5.447e-11	4.658e-01
## as.factor(EVTYPE)COLD WIND CHILL TEMPERATURES	-5.449e-11	4.658e-01
## as.factor(EVTYPE)COLD/WIND CHILL	1.346e-01	3.326e-01
## as.factor(EVTYPE)Coastal Flooding	-5.454e-11	3.683e-01
## as.factor(EVTYPE)Cold	-5.442e-11	4.034e-01
## as.factor(EVTYPE)Cold and Frost	-5.455e-11	4.658e-01
## as.factor(EVTYPE)DAMAGING FREEZE	-5.442e-11	4.658e-01
## as.factor(EVTYPE)DENSE FOG	2.174e-02	3.306e-01
## as.factor(EVTYPE)DENSE SMOKE	-5.442e-11	3.804e-01
## as.factor(EVTYPE)DROUGHT	-5.456e-11	3.301e-01
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	-5.453e-11	4.658e-01
## as.factor(EVTYPE)DRY	-5.457e-11	4.034e-01
## as.factor(EVTYPE)DRY MICROBURST	-5.448e-11	3.429e-01
## as.factor(EVTYPE)DRY MICROBURST WINDS	-5.456e-11	4.658e-01
## as.factor(EVTYPE)DUST DEVIL	-5.445e-11	3.384e-01

## as.factor(EVTYPE)DUST STORM	7.692e-02	3.357e-01
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	-5.445e-11	4.658e-01
## as.factor(EVTYPE)DUSTSTORM	-5.444e-11	4.658e-01
## as.factor(EVTYPE)Dust Devil	-5.362e-11	4.034e-01
## as.factor(EVTYPE)EARLY FREEZE	-5.432e-11	4.658e-01
## as.factor(EVTYPE)EARLY SNOWFALL	-5.309e-11	4.658e-01
## as.factor(EVTYPE)EXCESSIVE HEAT	7.258e-01	3.303e-01
## as.factor(EVTYPE)EXCESSIVE RAINFALL	-5.328e-11	4.658e-01
## as.factor(EVTYPE)EXCESSIVE SNOW	-6.361e-11	3.683e-01
## as.factor(EVTYPE)EXCESSIVE WETNESS	-5.317e-11	4.658e-01
## as.factor(EVTYPE)EXTREME COLD	1.970e-01	3.319e-01
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	1.031e-01	3.311e-01
## as.factor(EVTYPE)EXTREME HEAT	-5.781e-11	4.658e-01
## as.factor(EVTYPE)EXTREME WINDCHILL	1.176e-01	3.390e-01
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	-5.407e-11	3.804e-01
## as.factor(EVTYPE)Extended Cold	1.000e+00	4.658e-01
## as.factor(EVTYPE)FIRST SNOW	-5.248e-11	4.658e-01
## as.factor(EVTYPE)FLASH FLOOD	1.728e-02	3.294e-01
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	-5.636e-11	4.658e-01
## as.factor(EVTYPE)FLASH FLOOD/	-5.094e-11	4.658e-01
## as.factor(EVTYPE)FLASH FLOOD/ STREET	-5.447e-11	4.658e-01
## as.factor(EVTYPE)FLASH FLOODING	1.333e-02	3.316e-01
## as.factor(EVTYPE)FLASH FLOODS	2.000e-01	3.608e-01
## as.factor(EVTYPE)FLOOD	2.212e-02	3.295e-01
## as.factor(EVTYPE)FLOOD WATCH/	-5.255e-11	4.658e-01
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	1.754e-02	3.323e-01
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	-5.740e-11	4.034e-01
## as.factor(EVTYPE)FLOOD/RAIN/WIND	-5.551e-11	4.658e-01
## as.factor(EVTYPE)FLOODING	-5.426e-11	3.429e-01
## as.factor(EVTYPE)FOG	3.922e-02	3.326e-01
## as.factor(EVTYPE)FREEZE	-5.426e-11	3.608e-01
## as.factor(EVTYPE)FREEZING DRIZZLE	-5.509e-11	4.034e-01
## as.factor(EVTYPE)FREEZING FOG	-5.421e-11	4.034e-01
## as.factor(EVTYPE)FREEZING RAIN	1.200e-01	3.359e-01
## as.factor(EVTYPE)FREEZING RAIN/SLEET	-5.446e-11	4.034e-01
## as.factor(EVTYPE)FROST	-5.462e-11	3.521e-01
## as.factor(EVTYPE)FROST/FREEZE	-5.425e-11	3.306e-01
## as.factor(EVTYPE)FUNNEL	-5.485e-11	3.804e-01
## as.factor(EVTYPE)FUNNEL CLOUD	-5.451e-11	3.296e-01
## as.factor(EVTYPE)FUNNEL CLOUDS	-5.456e-11	3.521e-01
## as.factor(EVTYPE)Flood/Flash Flood	-5.432e-11	4.658e-01
## as.factor(EVTYPE)Freezing Rain	-5.449e-11	4.658e-01
## as.factor(EVTYPE)GLAZE	-5.886e-11	4.034e-01
## as.factor(EVTYPE)GRADIENT WINDS	-5.429e-11	4.658e-01
## as.factor(EVTYPE)GUSTNADO	-5.438e-11	4.658e-01
## as.factor(EVTYPE)GUSTY WIND	-5.435e-11	3.804e-01
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	-5.427e-11	4.658e-01
## as.factor(EVTYPE)GUSTY WINDS	1.667e-01	3.558e-01
## as.factor(EVTYPE)Glaze	-5.435e-11	4.034e-01
## as.factor(EVTYPE)Gusty Winds	-5.437e-11	4.658e-01
## as.factor(EVTYPE)Gusty wind/rain	-5.464e-11	4.658e-01
## as.factor(EVTYPE)HAIL	3.486e-05	3.294e-01
## as.factor(EVTYPE)HAIL 0.75	-5.437e-11	3.804e-01
## as.factor(EVTYPE)HAIL 100	-5.457e-11	4.034e-01

## as.factor(EVTYPE)HAIL 175	-5.429e-11	4.034e-01
## as.factor(EVTYPE)HAIL 450	-5.433e-11	4.658e-01
## as.factor(EVTYPE)HAIL 75	-5.446e-11	4.034e-01
## as.factor(EVTYPE)HAIL/WIND	-5.441e-11	4.658e-01
## as.factor(EVTYPE)HARD FREEZE	-5.444e-11	4.658e-01
## as.factor(EVTYPE)HEAT	6.000e-01	3.317e-01
## as.factor(EVTYPE)HEAT WAVE	2.500e+00	3.410e-01
## as.factor(EVTYPE)HEAT/DROUGHT	-5.447e-11	4.658e-01
## as.factor(EVTYPE)HEAVY LAKE SNOW	-5.405e-11	3.683e-01
## as.factor(EVTYPE)HEAVY MIX	-5.471e-11	4.658e-01
## as.factor(EVTYPE)HEAVY RAIN	7.874e-03	3.295e-01
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	-5.421e-11	4.034e-01
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	-5.445e-11	4.658e-01
## as.factor(EVTYPE)HEAVY RAINS	-5.442e-11	3.804e-01
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	-5.450e-11	4.034e-01
## as.factor(EVTYPE)HEAVY SEAS	2.000e+00	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW	5.013e-03	3.295e-01
## as.factor(EVTYPE)HEAVY SNOW AND ICE	-5.427e-11	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	-5.003e-11	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	-5.450e-11	3.608e-01
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	-5.432e-11	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	-5.470e-11	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	-5.461e-11	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW/ICE	-5.435e-11	4.658e-01
## as.factor(EVTYPE)HEAVY SURF	1.250e-01	3.494e-01
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	2.609e-01	3.365e-01
## as.factor(EVTYPE)HIGH	-5.456e-11	4.658e-01
## as.factor(EVTYPE)HIGH SEAS	3.333e-01	3.804e-01
## as.factor(EVTYPE)HIGH SURF	1.286e-01	3.317e-01
## as.factor(EVTYPE)HIGH SURF ADVISORY	-5.443e-11	4.658e-01
## as.factor(EVTYPE)HIGH WATER	-5.475e-11	4.658e-01
## as.factor(EVTYPE)HIGH WAVES	-5.432e-11	4.658e-01
## as.factor(EVTYPE)HIGH WIND	1.613e-02	3.295e-01
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	-5.454e-11	4.658e-01
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	-5.449e-11	4.658e-01
## as.factor(EVTYPE)HIGH WINDS	2.367e-02	3.304e-01
## as.factor(EVTYPE)HIGH WINDS 63	-5.443e-11	4.658e-01
## as.factor(EVTYPE)HIGH WINDS 66	-5.435e-11	4.658e-01
## as.factor(EVTYPE)HURRICANE	7.500e-01	3.375e-01
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	2.000e+00	4.658e-01
## as.factor(EVTYPE)HURRICANE/TYPHOON	1.917e+00	3.429e-01
## as.factor(EVTYPE)Hail(0.75)	-5.469e-11	4.658e-01
## as.factor(EVTYPE)Heavy Rain	-5.462e-11	4.034e-01
## as.factor(EVTYPE)Heavy Rain and Wind	-5.453e-11	4.658e-01
## as.factor(EVTYPE)ICE	1.667e-01	3.558e-01
## as.factor(EVTYPE)ICE STORM	3.398e-02	3.302e-01
## as.factor(EVTYPE)ICY ROADS	-5.454e-11	4.034e-01
## as.factor(EVTYPE)Ice Fog	-5.461e-11	4.658e-01
## as.factor(EVTYPE)LACK OF SNOW	-5.439e-11	4.658e-01
## as.factor(EVTYPE)LAKE EFFECT SNOW	-5.466e-11	3.804e-01
## as.factor(EVTYPE)LAKE-EFFECT SNOW	-5.451e-11	3.316e-01
## as.factor(EVTYPE)LAKESHORE FLOOD	-5.459e-11	4.034e-01
## as.factor(EVTYPE)LANDSLIDE	-5.453e-11	3.322e-01
## as.factor(EVTYPE)LANDSLIDES	-5.461e-11	4.034e-01

## as.factor(EVTYPE)LATE FREEZE	-5.432e-11	4.658e-01
## as.factor(EVTYPE)LIGHT FREEZING RAIN	-5.468e-11	4.034e-01
## as.factor(EVTYPE)LIGHT SNOW	-5.450e-11	3.390e-01
## as.factor(EVTYPE)LIGHTING	-5.455e-11	4.658e-01
## as.factor(EVTYPE)LIGHTNING	5.367e-02	3.295e-01
## as.factor(EVTYPE)LOCAL FLOOD	-5.455e-11	4.658e-01
## as.factor(EVTYPE)LOW TEMPERATURE	1.000e+00	4.658e-01
## as.factor(EVTYPE)Late Season Snowfall	-5.453e-11	4.034e-01
## as.factor(EVTYPE)Light Snow	-5.470e-11	4.658e-01
## as.factor(EVTYPE)Light Snow/Flurries	-5.452e-11	4.658e-01
## as.factor(EVTYPE)MARINE HAIL	-5.441e-11	3.335e-01
## as.factor(EVTYPE)MARINE HIGH WIND	1.111e-01	3.472e-01
## as.factor(EVTYPE)MARINE STRONG WIND	4.286e-01	3.521e-01
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	-5.446e-11	3.297e-01
## as.factor(EVTYPE)MARINE TSTM WIND	-5.442e-11	3.297e-01
## as.factor(EVTYPE)MICROBURST WINDS	-5.471e-11	4.658e-01
## as.factor(EVTYPE)MIXED PRECIP	1.000e+00	4.658e-01
## as.factor(EVTYPE)MIXED PRECIPITATION	-5.454e-11	3.683e-01
## as.factor(EVTYPE)MODERATE SNOWFALL	-5.454e-11	3.472e-01
## as.factor(EVTYPE)MONTHLY PRECIPITATION	-5.453e-11	3.521e-01
## as.factor(EVTYPE)MUD SLIDE	-5.445e-11	4.658e-01
## as.factor(EVTYPE)MUDSLIDE	-5.443e-11	4.658e-01
## as.factor(EVTYPE)Marine Accident	1.000e+00	4.658e-01
## as.factor(EVTYPE)Microburst	-5.448e-11	4.658e-01
## as.factor(EVTYPE)Minor Flooding	-5.446e-11	4.658e-01
## as.factor(EVTYPE)Mixed Precipitation	-5.455e-11	4.658e-01
## as.factor(EVTYPE)Mudslide	-5.454e-11	4.034e-01
## as.factor(EVTYPE)NON SEVERE HAIL	-5.445e-11	4.658e-01
## as.factor(EVTYPE)OTHER	-5.453e-11	3.608e-01
## as.factor(EVTYPE)Other	-5.452e-11	4.658e-01
## as.factor(EVTYPE)PATCHY DENSE FOG	-5.450e-11	4.658e-01
## as.factor(EVTYPE)PROLONG COLD	-5.462e-11	4.034e-01
## as.factor(EVTYPE)PROLONG WARMTH	-5.464e-11	4.658e-01
## as.factor(EVTYPE)RAIN	-5.464e-11	3.804e-01
## as.factor(EVTYPE)RAIN/SNOW	-5.462e-11	4.658e-01
## as.factor(EVTYPE)RECORD COLD	-5.448e-11	4.658e-01
## as.factor(EVTYPE)RECORD COLD	-5.443e-11	3.804e-01
## as.factor(EVTYPE)RECORD HEAT	-5.454e-11	3.608e-01
## as.factor(EVTYPE)RECORD RAINFALL	-5.451e-11	4.034e-01
## as.factor(EVTYPE)RECORD SNOW	-5.468e-11	4.658e-01
## as.factor(EVTYPE)RECORD WARMTH	-5.456e-11	3.390e-01
## as.factor(EVTYPE)REMNANTS OF FLOYD	-5.435e-11	4.658e-01
## as.factor(EVTYPE)RIP CURRENT	7.925e-01	3.325e-01
## as.factor(EVTYPE)RIP CURRENTS	1.000e+00	3.345e-01
## as.factor(EVTYPE)RIVER FLOOD	-5.455e-11	3.441e-01
## as.factor(EVTYPE)RIVER FLOODING	-5.443e-11	4.034e-01
## as.factor(EVTYPE)Record Warmth	-5.447e-11	4.034e-01
## as.factor(EVTYPE)Record temperature	-5.455e-11	4.034e-01
## as.factor(EVTYPE)SEICHE	-5.438e-11	3.804e-01
## as.factor(EVTYPE)SEVERE COLD	-5.460e-11	4.658e-01
## as.factor(EVTYPE)SEVERE THUNDERSTORM	-5.454e-11	4.034e-01
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	-5.441e-11	4.034e-01
## as.factor(EVTYPE)SLEET	-5.438e-11	4.034e-01
## as.factor(EVTYPE)SLEET & FREEZING RAIN	-5.457e-11	4.658e-01

## as.factor(EVTYPE)SMALL HAIL	-5.450e-11	3.472e-01
## as.factor(EVTYPE)SMALL STREAM FLOODING	-5.443e-11	4.658e-01
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	-5.445e-11	4.658e-01
## as.factor(EVTYPE)SMOKE	-5.464e-11	4.658e-01
## as.factor(EVTYPE)SNOW	2.778e-02	3.317e-01
## as.factor(EVTYPE)SNOW AND COLD	-5.440e-11	4.658e-01
## as.factor(EVTYPE)SNOW AND ICE	-5.456e-11	4.034e-01
## as.factor(EVTYPE)SNOW AND SLEET	-5.471e-11	4.658e-01
## as.factor(EVTYPE)SNOW SQUALL	-5.452e-11	4.658e-01
## as.factor(EVTYPE)SNOW SQUALLS	-5.453e-11	4.034e-01
## as.factor(EVTYPE)SNOW/BLOWING SNOW	-5.442e-11	3.804e-01
## as.factor(EVTYPE)SNOW/FREEZING RAIN	-5.453e-11	4.658e-01
## as.factor(EVTYPE)SNOW/SLEET	-5.444e-11	4.658e-01
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	-5.463e-11	4.658e-01
## as.factor(EVTYPE)SNOW\COLD	-5.453e-11	4.658e-01
## as.factor(EVTYPE)STORM SURGE	-5.447e-11	3.375e-01
## as.factor(EVTYPE)STORM SURGE/TIDE	-5.459e-11	3.441e-01
## as.factor(EVTYPE)STREET FLOOD	-5.452e-11	4.658e-01
## as.factor(EVTYPE)STRONG WIND	2.145e-02	3.298e-01
## as.factor(EVTYPE)STRONG WINDS	5.263e-02	3.380e-01
## as.factor(EVTYPE)Snow	-5.451e-11	4.034e-01
## as.factor(EVTYPE)Snow Squalls	1.000e+00	4.658e-01
## as.factor(EVTYPE)Snow and Ice	-5.448e-11	4.658e-01
## as.factor(EVTYPE)Strong Winds	-5.439e-11	4.658e-01
## as.factor(EVTYPE)Summary of April 12	-5.439e-11	4.658e-01
## as.factor(EVTYPE)Summary of July 29	-5.436e-11	4.658e-01
## as.factor(EVTYPE)Summary of July 3	-5.433e-11	4.658e-01
## as.factor(EVTYPE)Summary of June 11	-5.443e-11	4.658e-01
## as.factor(EVTYPE)Summary of March 14	-5.449e-11	4.658e-01
## as.factor(EVTYPE)Summary of May 10	-5.451e-11	4.658e-01
## as.factor(EVTYPE)Summary: October 31	-5.453e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	-5.448e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM	-5.435e-11	3.521e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	-5.445e-11	4.034e-01
## as.factor(EVTYPE)THUNDERSTORM WIND	2.044e-03	3.294e-01
## as.factor(EVTYPE)THUNDERSTORM WIND 56	-5.455e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	-5.447e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND G60	-5.436e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND G61	-5.435e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	-5.454e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	-5.449e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	-5.452e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	2.845e-03	3.295e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	-5.465e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	-5.443e-11	3.472e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS.	-5.457e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	-5.452e-11	4.034e-01
## as.factor(EVTYPE)THUNDERSTORM WINDSS	-5.454e-11	3.804e-01
## as.factor(EVTYPE)THUNDERSTORMS	-5.448e-11	4.658e-01
## as.factor(EVTYPE)THUNDERSTORMS WINDS	-5.445e-11	4.658e-01
## as.factor(EVTYPE)TIDAL FLOODING	-5.441e-11	4.658e-01
## as.factor(EVTYPE)TORNADO	8.568e-02	3.294e-01
## as.factor(EVTYPE)TORNADO DEBRIS	-5.445e-11	4.658e-01
## as.factor(EVTYPE)TORNADO FO	-5.441e-11	4.034e-01

## as.factor(EVTYPE)TORRENTIAL RAIN	-5.443e-11	4.658e-01
## as.factor(EVTYPE)TROPICAL DEPRESSION	-5.443e-11	3.521e-01
## as.factor(EVTYPE)TROPICAL STORM	7.143e-02	3.323e-01
## as.factor(EVTYPE)TSTM WIND	2.602e-03	3.294e-01
## as.factor(EVTYPE)TSTM WIND (G40)	-5.452e-11	4.034e-01
## as.factor(EVTYPE)TSTM WIND (G45)	-5.451e-11	4.034e-01
## as.factor(EVTYPE)TSTM WIND 51	-5.457e-11	4.658e-01
## as.factor(EVTYPE)TSTM WIND 52	-5.452e-11	4.658e-01
## as.factor(EVTYPE)TSTM WIND/HAIL	-5.449e-11	3.310e-01
## as.factor(EVTYPE)TSUNAMI	-5.448e-11	4.034e-01
## as.factor(EVTYPE)Temperature record	-5.441e-11	4.034e-01
## as.factor(EVTYPE)Tidal Flooding	-5.451e-11	4.658e-01
## as.factor(EVTYPE)UNSEASONABLY COLD	-5.450e-11	3.683e-01
## as.factor(EVTYPE)UNSEASONABLY COOL	-5.443e-11	4.034e-01
## as.factor(EVTYPE)UNSEASONABLY DRY	-5.449e-11	3.608e-01
## as.factor(EVTYPE)UNSEASONABLY HOT	-5.457e-11	4.658e-01
## as.factor(EVTYPE)UNSEASONABLY WARM	-5.449e-11	3.418e-01
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	5.800e+00	3.608e-01
## as.factor(EVTYPE)UNSEASONABLY WET	-5.452e-11	4.034e-01
## as.factor(EVTYPE)UNSEASONAL RAIN	-5.449e-11	4.658e-01
## as.factor(EVTYPE)UNUSUAL WARMTH	-5.443e-11	4.034e-01
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	-5.453e-11	4.658e-01
## as.factor(EVTYPE)UNUSUALLY COLD	-5.441e-11	4.658e-01
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	1.000e+00	4.658e-01
## as.factor(EVTYPE)URBAN FLOOD	-5.450e-11	3.359e-01
## as.factor(EVTYPE)URBAN FLOODING	-5.441e-11	3.418e-01
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	-5.451e-11	4.658e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM	-5.440e-11	4.658e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-5.448e-11	4.658e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-5.458e-11	4.034e-01
## as.factor(EVTYPE)URBAN/SML STREAM FLD	1.484e-02	3.299e-01
## as.factor(EVTYPE)URBAN/STREET FLOODING	-5.457e-11	4.658e-01
## as.factor(EVTYPE)Unseasonable Cold	-5.436e-11	4.658e-01
## as.factor(EVTYPE)VOLCANIC ASH	-5.450e-11	3.804e-01
## as.factor(EVTYPE)VOLCANIC ASHFALL	-5.441e-11	4.658e-01
## as.factor(EVTYPE)WATERSPOUT	-5.447e-11	3.299e-01
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	-5.448e-11	4.658e-01
## as.factor(EVTYPE)WATERSPOUT-	-5.448e-11	4.658e-01
## as.factor(EVTYPE)WATERSPOUT/TORNADO	-5.447e-11	4.034e-01
## as.factor(EVTYPE)WATERSPOUTS	-5.449e-11	4.034e-01
## as.factor(EVTYPE)WET MICROBURST	-5.442e-11	4.658e-01
## as.factor(EVTYPE)WILD/FOREST FIRE	-5.448e-11	3.306e-01
## as.factor(EVTYPE)WILDFIRE	1.124e-02	3.300e-01
## as.factor(EVTYPE)WILDFIRES	-5.455e-11	4.658e-01
## as.factor(EVTYPE)WIND	1.562e-01	3.345e-01
## as.factor(EVTYPE)WIND ADVISORY	-5.444e-11	3.804e-01
## as.factor(EVTYPE)WIND CHILL	-5.446e-11	3.558e-01
## as.factor(EVTYPE)WIND DAMAGE	-5.440e-11	4.658e-01
## as.factor(EVTYPE)WINDS	-5.444e-11	4.658e-01
## as.factor(EVTYPE)WINTER MIX	-5.454e-11	4.658e-01
## as.factor(EVTYPE)WINTER STORM	2.379e-02	3.295e-01
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	-5.446e-11	4.658e-01
## as.factor(EVTYPE)WINTER WEATHER	7.342e-03	3.296e-01
## as.factor(EVTYPE)WINTER WEATHER MIX	-5.458e-11	4.658e-01



## as.factor(EVTYPE)WINTER WEATHER/MIX	5.217e-02	3.308e-01
## as.factor(EVTYPE)WINTERY MIX	-5.449e-11	4.658e-01
## as.factor(EVTYPE)WINTRY MIX	-5.447e-11	3.418e-01
## as.factor(EVTYPE)Wet Month	-5.449e-11	4.658e-01
## as.factor(EVTYPE)Wind	-5.561e-11	4.658e-01
## as.factor(EVTYPE)Winter Weather	-5.405e-11	4.658e-01
## as.factor(EVTYPE)small hail	-5.413e-11	4.658e-01
##	t value	Pr(> t )
## (Intercept)	0.000	1.0000
## as.factor(EVTYPE) WIND	0.000	1.0000
## as.factor(EVTYPE)APACHE COUNTY	0.000	1.0000
## as.factor(EVTYPE)ASTRONOMICAL HIGH TIDE	0.000	1.0000
## as.factor(EVTYPE)ASTRONOMICAL LOW TIDE	0.000	1.0000
## as.factor(EVTYPE)AVALANCHE	1.283	0.1995
## as.factor(EVTYPE)BLACK ICE	0.000	1.0000
## as.factor(EVTYPE)BLIZZARD	0.106	0.9158
## as.factor(EVTYPE)BLIZZARD AND EXTREME WIND CHIL	0.000	1.0000
## as.factor(EVTYPE)BLOW-OUT TIDES	0.000	1.0000
## as.factor(EVTYPE)BREAKUP FLOODING	0.000	1.0000
## as.factor(EVTYPE)COASTAL FLOOD	0.000	1.0000
## as.factor(EVTYPE)COASTAL FLOODING	0.000	1.0000
## as.factor(EVTYPE)COASTAL FLOODING/EROSION	0.000	1.0000
## as.factor(EVTYPE)COASTAL STORM	2.147	0.0318 *
## as.factor(EVTYPE)COLD	2.342	0.0192 *
## as.factor(EVTYPE)COLD TEMPERATURES	0.000	1.0000
## as.factor(EVTYPE)COLD WAVE	0.000	1.0000
## as.factor(EVTYPE)COLD WIND CHILL TEMPERATURES	0.000	1.0000
## as.factor(EVTYPE)COLD/WIND CHILL	0.405	0.6856
## as.factor(EVTYPE)Coastal Flooding	0.000	1.0000
## as.factor(EVTYPE)Cold	0.000	1.0000
## as.factor(EVTYPE)Cold and Frost	0.000	1.0000
## as.factor(EVTYPE)DAMAGING FREEZE	0.000	1.0000
## as.factor(EVTYPE)DENSE FOG	0.066	0.9476
## as.factor(EVTYPE)DENSE SMOKE	0.000	1.0000
## as.factor(EVTYPE)DROUGHT	0.000	1.0000
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	0.000	1.0000
## as.factor(EVTYPE)DRY	0.000	1.0000
## as.factor(EVTYPE)DRY MICROBURST	0.000	1.0000
## as.factor(EVTYPE)DRY MICROBURST WINDS	0.000	1.0000
## as.factor(EVTYPE)DUST DEVIL	0.000	1.0000
## as.factor(EVTYPE)DUST STORM	0.229	0.8187
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	0.000	1.0000
## as.factor(EVTYPE)DUSTSTORM	0.000	1.0000
## as.factor(EVTYPE)Dust Devil	0.000	1.0000
## as.factor(EVTYPE)EARLY FREEZE	0.000	1.0000
## as.factor(EVTYPE)EARLY SNOWFALL	0.000	1.0000
## as.factor(EVTYPE)EXCESSIVE HEAT	2.197	0.0280 *
## as.factor(EVTYPE)EXCESSIVE RAINFALL	0.000	1.0000
## as.factor(EVTYPE)EXCESSIVE SNOW	0.000	1.0000
## as.factor(EVTYPE)EXCESSIVE WETNESS	0.000	1.0000
## as.factor(EVTYPE)EXTREME COLD	0.593	0.5529
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	0.311	0.7555
## as.factor(EVTYPE)EXTREME HEAT	0.000	1.0000
## as.factor(EVTYPE)EXTREME WINDCHILL	0.347	0.7285

## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	0.000	1.0000
## as.factor(EVTYPE)Extended Cold	2.147	0.0318 *
## as.factor(EVTYPE)FIRST SNOW	0.000	1.0000
## as.factor(EVTYPE)FLASH FLOOD	0.052	0.9582
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	0.000	1.0000
## as.factor(EVTYPE)FLASH FLOOD/	0.000	1.0000
## as.factor(EVTYPE)FLASH FLOOD/ STREET	0.000	1.0000
## as.factor(EVTYPE)FLASH FLOODING	0.040	0.9679
## as.factor(EVTYPE)FLASH FLOODS	0.554	0.5794
## as.factor(EVTYPE)FLOOD	0.067	0.9465
## as.factor(EVTYPE)FLOOD WATCH/	0.000	1.0000
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	0.053	0.9579
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	0.000	1.0000
## as.factor(EVTYPE)FLOOD/RAIN/WIND	0.000	1.0000
## as.factor(EVTYPE)FLOODING	0.000	1.0000
## as.factor(EVTYPE)FOG	0.118	0.9061
## as.factor(EVTYPE)FREEZE	0.000	1.0000
## as.factor(EVTYPE)FREEZING DRIZZLE	0.000	1.0000
## as.factor(EVTYPE)FREEZING FOG	0.000	1.0000
## as.factor(EVTYPE)FREEZING RAIN	0.357	0.7209
## as.factor(EVTYPE)FREEZING RAIN/SLEET	0.000	1.0000
## as.factor(EVTYPE)FROST	0.000	1.0000
## as.factor(EVTYPE)FROST/FREEZE	0.000	1.0000
## as.factor(EVTYPE)FUNNEL	0.000	1.0000
## as.factor(EVTYPE)FUNNEL CLOUD	0.000	1.0000
## as.factor(EVTYPE)FUNNEL CLOUDS	0.000	1.0000
## as.factor(EVTYPE)Flood/Flash Flood	0.000	1.0000
## as.factor(EVTYPE)Freezing Rain	0.000	1.0000
## as.factor(EVTYPE)GLAZE	0.000	1.0000
## as.factor(EVTYPE)GRADIENT WINDS	0.000	1.0000
## as.factor(EVTYPE)GUSTNADO	0.000	1.0000
## as.factor(EVTYPE)GUSTY WIND	0.000	1.0000
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	0.000	1.0000
## as.factor(EVTYPE)GUSTY WINDS	0.468	0.6395
## as.factor(EVTYPE)Glaze	0.000	1.0000
## as.factor(EVTYPE)Gusty Winds	0.000	1.0000
## as.factor(EVTYPE)Gusty wind/rain	0.000	1.0000
## as.factor(EVTYPE)HAIL	0.000	0.9999
## as.factor(EVTYPE)HAIL 0.75	0.000	1.0000
## as.factor(EVTYPE)HAIL 100	0.000	1.0000
## as.factor(EVTYPE)HAIL 175	0.000	1.0000
## as.factor(EVTYPE)HAIL 450	0.000	1.0000
## as.factor(EVTYPE)HAIL 75	0.000	1.0000
## as.factor(EVTYPE)HAIL/WIND	0.000	1.0000
## as.factor(EVTYPE)HARD FREEZE	0.000	1.0000
## as.factor(EVTYPE)HEAT	1.809	0.0705 .
## as.factor(EVTYPE)HEAT WAVE	7.332	2.28e-13 ***
## as.factor(EVTYPE)HEAT/DROUGHT	0.000	1.0000
## as.factor(EVTYPE)HEAVY LAKE SNOW	0.000	1.0000
## as.factor(EVTYPE)HEAVY MIX	0.000	1.0000
## as.factor(EVTYPE)HEAVY RAIN	0.024	0.9809
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	0.000	1.0000
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	0.000	1.0000
## as.factor(EVTYPE)HEAVY RAINS	0.000	1.0000

## as.factor(EVTYPE)HEAVY RAINS/FLOODING	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SEAS	4.293	1.76e-05	***
## as.factor(EVTYPE)HEAVY SNOW	0.015	0.9879	
## as.factor(EVTYPE)HEAVY SNOW AND ICE	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SNOW/ICE	0.000	1.0000	
## as.factor(EVTYPE)HEAVY SURF	0.358	0.7205	
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	0.775	0.4382	
## as.factor(EVTYPE)HIGH	0.000	1.0000	
## as.factor(EVTYPE)HIGH SEAS	0.876	0.3808	
## as.factor(EVTYPE)HIGH SURF	0.388	0.6983	
## as.factor(EVTYPE)HIGH SURF ADVISORY	0.000	1.0000	
## as.factor(EVTYPE)HIGH WATER	0.000	1.0000	
## as.factor(EVTYPE)HIGH WAVES	0.000	1.0000	
## as.factor(EVTYPE)HIGH WIND	0.049	0.9610	
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	0.000	1.0000	
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	0.000	1.0000	
## as.factor(EVTYPE)HIGH WINDS	0.072	0.9429	
## as.factor(EVTYPE)HIGH WINDS 63	0.000	1.0000	
## as.factor(EVTYPE)HIGH WINDS 66	0.000	1.0000	
## as.factor(EVTYPE)HURRICANE	2.222	0.0263	*
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	4.293	1.76e-05	***
## as.factor(EVTYPE)HURRICANE/TYPHOON	5.590	2.27e-08	***
## as.factor(EVTYPE)Hail(0.75)	0.000	1.0000	
## as.factor(EVTYPE)Heavy Rain	0.000	1.0000	
## as.factor(EVTYPE)Heavy Rain and Wind	0.000	1.0000	
## as.factor(EVTYPE)ICE	0.468	0.6395	
## as.factor(EVTYPE)ICE STORM	0.103	0.9180	
## as.factor(EVTYPE)ICY ROADS	0.000	1.0000	
## as.factor(EVTYPE)Ice Fog	0.000	1.0000	
## as.factor(EVTYPE)LACK OF SNOW	0.000	1.0000	
## as.factor(EVTYPE)LAKE EFFECT SNOW	0.000	1.0000	
## as.factor(EVTYPE)LAKE-EFFECT SNOW	0.000	1.0000	
## as.factor(EVTYPE)LAKESHORE FLOOD	0.000	1.0000	
## as.factor(EVTYPE)LANDSLIDE	0.000	1.0000	
## as.factor(EVTYPE)LANDSLIDES	0.000	1.0000	
## as.factor(EVTYPE)LATE FREEZE	0.000	1.0000	
## as.factor(EVTYPE)LIGHT FREEZING RAIN	0.000	1.0000	
## as.factor(EVTYPE)LIGHT SNOW	0.000	1.0000	
## as.factor(EVTYPE)LIGHTING	0.000	1.0000	
## as.factor(EVTYPE)LIGHTNING	0.163	0.8706	
## as.factor(EVTYPE)LOCAL FLOOD	0.000	1.0000	
## as.factor(EVTYPE)LOW TEMPERATURE	2.147	0.0318	*
## as.factor(EVTYPE)Late Season Snowfall	0.000	1.0000	
## as.factor(EVTYPE)Light Snow	0.000	1.0000	
## as.factor(EVTYPE)Light Snow/Flurries	0.000	1.0000	
## as.factor(EVTYPE)MARINE HAIL	0.000	1.0000	
## as.factor(EVTYPE)MARINE HIGH WIND	0.320	0.7490	
## as.factor(EVTYPE)MARINE STRONG WIND	1.217	0.2236	
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	0.000	1.0000	

## as.factor(EVTYPE)MARINE TSTM WIND	0.000	1.0000
## as.factor(EVTYPE)MICROBURST WINDS	0.000	1.0000
## as.factor(EVTYPE)MIXED PRECIP	2.147	0.0318 *
## as.factor(EVTYPE)MIXED PRECIPITATION	0.000	1.0000
## as.factor(EVTYPE)MODERATE SNOWFALL	0.000	1.0000
## as.factor(EVTYPE)MONTHLY PRECIPITATION	0.000	1.0000
## as.factor(EVTYPE)MUD SLIDE	0.000	1.0000
## as.factor(EVTYPE)MUDSLIDE	0.000	1.0000
## as.factor(EVTYPE)Marine Accident	2.147	0.0318 *
## as.factor(EVTYPE)Microburst	0.000	1.0000
## as.factor(EVTYPE)Minor Flooding	0.000	1.0000
## as.factor(EVTYPE)Mixed Precipitation	0.000	1.0000
## as.factor(EVTYPE)Mudslide	0.000	1.0000
## as.factor(EVTYPE)NON SEVERE HAIL	0.000	1.0000
## as.factor(EVTYPE)OTHER	0.000	1.0000
## as.factor(EVTYPE)Other	0.000	1.0000
## as.factor(EVTYPE)PATCHY DENSE FOG	0.000	1.0000
## as.factor(EVTYPE)PROLONG COLD	0.000	1.0000
## as.factor(EVTYPE)PROLONG WARMTH	0.000	1.0000
## as.factor(EVTYPE)RAIN	0.000	1.0000
## as.factor(EVTYPE)RAIN/SNOW	0.000	1.0000
## as.factor(EVTYPE)RECORD COLD	0.000	1.0000
## as.factor(EVTYPE)RECORD COLD	0.000	1.0000
## as.factor(EVTYPE)RECORD HEAT	0.000	1.0000
## as.factor(EVTYPE)RECORD RAINFALL	0.000	1.0000
## as.factor(EVTYPE)RECORD SNOW	0.000	1.0000
## as.factor(EVTYPE)RECORD WARMTH	0.000	1.0000
## as.factor(EVTYPE)REMNANTS OF FLOYD	0.000	1.0000
## as.factor(EVTYPE)RIP CURRENT	2.383	0.0172 *
## as.factor(EVTYPE)RIP CURRENTS	2.989	0.0028 **
## as.factor(EVTYPE)RIVER FLOOD	0.000	1.0000
## as.factor(EVTYPE)RIVER FLOODING	0.000	1.0000
## as.factor(EVTYPE)Record Warmth	0.000	1.0000
## as.factor(EVTYPE)Record temperature	0.000	1.0000
## as.factor(EVTYPE)SEICHE	0.000	1.0000
## as.factor(EVTYPE)SEVERE COLD	0.000	1.0000
## as.factor(EVTYPE)SEVERE THUNDERSTORM	0.000	1.0000
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	0.000	1.0000
## as.factor(EVTYPE)SLEET	0.000	1.0000
## as.factor(EVTYPE)SLEET & FREEZING RAIN	0.000	1.0000
## as.factor(EVTYPE)SMALL HAIL	0.000	1.0000
## as.factor(EVTYPE)SMALL STREAM FLOODING	0.000	1.0000
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	0.000	1.0000
## as.factor(EVTYPE)SMOKE	0.000	1.0000
## as.factor(EVTYPE)SNOW	0.084	0.9333
## as.factor(EVTYPE)SNOW AND COLD	0.000	1.0000
## as.factor(EVTYPE)SNOW AND ICE	0.000	1.0000
## as.factor(EVTYPE)SNOW AND SLEET	0.000	1.0000
## as.factor(EVTYPE)SNOW SQUALL	0.000	1.0000
## as.factor(EVTYPE)SNOW SQUALLS	0.000	1.0000
## as.factor(EVTYPE)SNOW/BLOWING SNOW	0.000	1.0000
## as.factor(EVTYPE)SNOW/FREEZING RAIN	0.000	1.0000
## as.factor(EVTYPE)SNOW/SLEET	0.000	1.0000
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	0.000	1.0000

## as.factor(EVTYPE)SNOW\COLD	0.000	1.0000
## as.factor(EVTYPE)STORM SURGE	0.000	1.0000
## as.factor(EVTYPE)STORM SURGE/TIDE	0.000	1.0000
## as.factor(EVTYPE)STREET FLOOD	0.000	1.0000
## as.factor(EVTYPE)STRONG WIND	0.065	0.9482
## as.factor(EVTYPE)STRONG WINDS	0.156	0.8762
## as.factor(EVTYPE)Snow	0.000	1.0000
## as.factor(EVTYPE)Snow Squalls	2.147	0.0318 *
## as.factor(EVTYPE)Snow and Ice	0.000	1.0000
## as.factor(EVTYPE)Strong Winds	0.000	1.0000
## as.factor(EVTYPE)Summary of April 12	0.000	1.0000
## as.factor(EVTYPE)Summary of July 29	0.000	1.0000
## as.factor(EVTYPE)Summary of July 3	0.000	1.0000
## as.factor(EVTYPE)Summary of June 11	0.000	1.0000
## as.factor(EVTYPE)Summary of March 14	0.000	1.0000
## as.factor(EVTYPE)Summary of May 10	0.000	1.0000
## as.factor(EVTYPE)Summary: October 31	0.000	1.0000
## as.factor(EVTYPE)THUNDEERSTORM WINDS	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND	0.006	0.9950
## as.factor(EVTYPE)THUNDERSTORM WIND 56	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND G60	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND G61	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.009	0.9931
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WINDS.	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORM WINDSS	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORMS	0.000	1.0000
## as.factor(EVTYPE)THUNDERSTORMS WINDS	0.000	1.0000
## as.factor(EVTYPE)TIDAL FLOODING	0.000	1.0000
## as.factor(EVTYPE)TORNADO	0.260	0.7948
## as.factor(EVTYPE)TORNADO DEBRIS	0.000	1.0000
## as.factor(EVTYPE)TORNADO FO	0.000	1.0000
## as.factor(EVTYPE)TORRENTIAL RAIN	0.000	1.0000
## as.factor(EVTYPE)TROPICAL DEPRESSION	0.000	1.0000
## as.factor(EVTYPE)TROPICAL STORM	0.215	0.8298
## as.factor(EVTYPE)TSTM WIND	0.008	0.9937
## as.factor(EVTYPE)TSTM WIND (G40)	0.000	1.0000
## as.factor(EVTYPE)TSTM WIND (G45)	0.000	1.0000
## as.factor(EVTYPE)TSTM WIND 51	0.000	1.0000
## as.factor(EVTYPE)TSTM WIND 52	0.000	1.0000
## as.factor(EVTYPE)TSTM WIND/HAIL	0.000	1.0000
## as.factor(EVTYPE)TSUNAMI	0.000	1.0000
## as.factor(EVTYPE)Temperature record	0.000	1.0000
## as.factor(EVTYPE)Tidal Flooding	0.000	1.0000
## as.factor(EVTYPE)UNSEASONABLY COLD	0.000	1.0000
## as.factor(EVTYPE)UNSEASONABLY COOL	0.000	1.0000

```

## as.factor(EVTYPE)UNSEASONABLY DRY          0.000  1.0000
## as.factor(EVTYPE)UNSEASONABLY HOT           0.000  1.0000
## as.factor(EVTYPE)UNSEASONABLY WARM          0.000  1.0000
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY 16.073 < 2e-16 ***
## as.factor(EVTYPE)UNSEASONABLY WET          0.000  1.0000
## as.factor(EVTYPE)UNSEASONAL RAIN            0.000  1.0000
## as.factor(EVTYPE)UNUSUAL WARMTH             0.000  1.0000
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH      0.000  1.0000
## as.factor(EVTYPE)UNUSUALLY COLD             0.000  1.0000
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN 2.147 0.0318 *
## as.factor(EVTYPE)URBAN FLOOD                0.000  1.0000
## as.factor(EVTYPE)URBAN FLOODING             0.000  1.0000
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD    0.000  1.0000
## as.factor(EVTYPE)URBAN/SMALL STREAM         0.000  1.0000
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD    0.000  1.0000
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD    0.000  1.0000
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD    0.000  1.0000
## as.factor(EVTYPE)URBAN/SML STREAM FLD       0.045  0.9641
## as.factor(EVTYPE)URBAN/STREET FLOODING      0.000  1.0000
## as.factor(EVTYPE)Unseasonable Cold          0.000  1.0000
## as.factor(EVTYPE)VOLCANIC ASH               0.000  1.0000
## as.factor(EVTYPE)VOLCANIC ASHFALL           0.000  1.0000
## as.factor(EVTYPE)WATERSPOUT                0.000  1.0000
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD    0.000  1.0000
## as.factor(EVTYPE)WATERSPOUT-               0.000  1.0000
## as.factor(EVTYPE)WATERSPOUT/TORNADO         0.000  1.0000
## as.factor(EVTYPE)WATERSPOUTS               0.000  1.0000
## as.factor(EVTYPE)WET MICROBURST             0.000  1.0000
## as.factor(EVTYPE)WILD/FOREST FIRE           0.000  1.0000
## as.factor(EVTYPE)WILDFIRE                   0.034  0.9728
## as.factor(EVTYPE)WILDFIRES                 0.000  1.0000
## as.factor(EVTYPE)WIND                       0.467  0.6404
## as.factor(EVTYPE)WIND ADVISORY              0.000  1.0000
## as.factor(EVTYPE)WIND CHILL                 0.000  1.0000
## as.factor(EVTYPE)WIND DAMAGE                0.000  1.0000
## as.factor(EVTYPE)WINDS                      0.000  1.0000
## as.factor(EVTYPE)WINTER MIX                 0.000  1.0000
## as.factor(EVTYPE)WINTER STORM               0.072  0.9425
## as.factor(EVTYPE)WINTER STORM/HIGH WIND     0.000  1.0000
## as.factor(EVTYPE)WINTER WEATHER             0.022  0.9822
## as.factor(EVTYPE)WINTER WEATHER MIX         0.000  1.0000
## as.factor(EVTYPE)WINTER WEATHER/MIX        0.158  0.8747
## as.factor(EVTYPE)WINTER Y MIX               0.000  1.0000
## as.factor(EVTYPE)WINTRY MIX                 0.000  1.0000
## as.factor(EVTYPE)Wet Month                  0.000  1.0000
## as.factor(EVTYPE)Wind                       0.000  1.0000
## as.factor(EVTYPE)Winter Weather             0.000  1.0000
## as.factor(EVTYPE)small hail                 0.000  1.0000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3294 on 89921 degrees of freedom
## Multiple R-squared:  0.05513,    Adjusted R-squared:  0.05189
## F-statistic: 17.03 on 308 and 89921 DF,  p-value: < 2.2e-16

```

```
lm2<-lm(INJURIES~as.factor(EVTYPE),data = training)
```

```
summary(lm2)
```

```
##
## Call:
## lm(formula = INJURIES ~ as.factor(EVTYPE), data = training)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -14.29   -0.03   -0.03    0.00   549.77
##
## Coefficients:
##                                     Estimate Std. Error
## (Intercept)                    -6.425e-11  4.568e+00
## as.factor(EVTYPE) WIND           6.284e-11  6.460e+00
## as.factor(EVTYPE) APACHE COUNTY  6.545e-11  6.460e+00
## as.factor(EVTYPE) ASTRONOMICAL HIGH TIDE  6.442e-11  4.754e+00
## as.factor(EVTYPE) ASTRONOMICAL LOW TIDE  6.342e-11  4.681e+00
## as.factor(EVTYPE) AVALANCHE          8.286e-01  4.633e+00
## as.factor(EVTYPE) BLACK ICE          6.417e-11  6.460e+00
## as.factor(EVTYPE) BLIZZARD           9.690e-02  4.577e+00
## as.factor(EVTYPE) BLIZZARD AND EXTREME WIND CHIL  6.468e-11  6.460e+00
## as.factor(EVTYPE) BLOW-OUT TIDES     6.437e-11  6.460e+00
## as.factor(EVTYPE) BREAKUP FLOODING   6.366e-11  6.460e+00
## as.factor(EVTYPE) COASTAL FLOOD      6.469e-11  4.598e+00
## as.factor(EVTYPE) COASTAL FLOODING   6.471e-11  4.740e+00
## as.factor(EVTYPE) COASTAL FLOODING/EROSION  6.481e-11  6.460e+00
## as.factor(EVTYPE) COASTAL STORM      1.000e+00  6.460e+00
## as.factor(EVTYPE) COLD               2.000e+00  4.934e+00
## as.factor(EVTYPE) COLD TEMPERATURES  6.351e-11  6.460e+00
## as.factor(EVTYPE) COLD WAVE          6.496e-11  6.460e+00
## as.factor(EVTYPE) COLD WIND CHILL TEMPERATURES  6.491e-11  6.460e+00
## as.factor(EVTYPE) COLD/WIND CHILL    1.923e-01  4.612e+00
## as.factor(EVTYPE) Coastal Flooding   6.480e-11  5.107e+00
## as.factor(EVTYPE) Cold               6.456e-11  5.595e+00
## as.factor(EVTYPE) Cold and Frost     6.474e-11  6.460e+00
## as.factor(EVTYPE) DAMAGING FREEZE    6.476e-11  6.460e+00
## as.factor(EVTYPE) DENSE FOG          2.536e-01  4.584e+00
## as.factor(EVTYPE) DENSE SMOKE        6.383e-11  5.275e+00
## as.factor(EVTYPE) DROUGHT            6.465e-11  4.577e+00
## as.factor(EVTYPE) DROUGHT/EXCESSIVE HEAT  6.470e-11  6.460e+00
## as.factor(EVTYPE) DRY                6.473e-11  5.595e+00
## as.factor(EVTYPE) DRY MICROBURST     6.478e-11  4.754e+00
## as.factor(EVTYPE) DRY MICROBURST WINDS  6.425e-11  6.460e+00
## as.factor(EVTYPE) DUST DEVIL         6.405e-11  4.693e+00
## as.factor(EVTYPE) DUST STORM         1.077e+00  4.655e+00
## as.factor(EVTYPE) DUST STORM/HIGH WINDS  6.376e-11  6.460e+00
## as.factor(EVTYPE) DUSTSTORM          6.489e-11  6.460e+00
## as.factor(EVTYPE) Dust Devil         6.465e-11  5.595e+00
## as.factor(EVTYPE) EARLY FREEZE       7.967e-11  6.460e+00
## as.factor(EVTYPE) EARLY SNOWFALL     6.435e-11  6.460e+00
## as.factor(EVTYPE) EXCESSIVE HEAT     5.108e+00  4.580e+00
## as.factor(EVTYPE) EXCESSIVE RAINFALL  6.412e-11  6.460e+00
```

## as.factor(EVTYPE)EXCESSIVE SNOW	6.421e-11	5.107e+00
## as.factor(EVTYPE)EXCESSIVE WETNESS	6.398e-11	6.460e+00
## as.factor(EVTYPE)EXTREME COLD	1.515e-02	4.602e+00
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	1.031e-02	4.591e+00
## as.factor(EVTYPE)EXTREME HEAT	6.506e-11	6.460e+00
## as.factor(EVTYPE)EXTREME WINDCHILL	6.504e-11	4.700e+00
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	6.184e-11	5.275e+00
## as.factor(EVTYPE)Extended Cold	6.193e-11	6.460e+00
## as.factor(EVTYPE)FIRST SNOW	6.095e-11	6.460e+00
## as.factor(EVTYPE)FLASH FLOOD	4.856e-02	4.568e+00
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	6.282e-11	6.460e+00
## as.factor(EVTYPE)FLASH FLOOD/	6.547e-11	6.460e+00
## as.factor(EVTYPE)FLASH FLOOD/ STREET	6.367e-11	6.460e+00
## as.factor(EVTYPE)FLASH FLOODING	1.333e-02	4.598e+00
## as.factor(EVTYPE)FLASH FLOODS	6.358e-11	5.004e+00
## as.factor(EVTYPE)FLOOD	2.282e-01	4.569e+00
## as.factor(EVTYPE)FLOOD WATCH/	6.430e-11	6.460e+00
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	7.018e-02	4.608e+00
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	6.270e-11	5.595e+00
## as.factor(EVTYPE)FLOOD/RAIN/WIND	6.720e-11	6.460e+00
## as.factor(EVTYPE)FLOODING	6.447e-11	4.754e+00
## as.factor(EVTYPE)FOG	4.706e-01	4.612e+00
## as.factor(EVTYPE)FREEZE	6.384e-11	5.004e+00
## as.factor(EVTYPE)FREEZING DRIZZLE	5.000e-01	5.595e+00
## as.factor(EVTYPE)FREEZING FOG	6.419e-11	5.595e+00
## as.factor(EVTYPE)FREEZING RAIN	6.383e-11	4.658e+00
## as.factor(EVTYPE)FREEZING RAIN/SLEET	6.612e-11	5.595e+00
## as.factor(EVTYPE)FROST	6.496e-11	4.883e+00
## as.factor(EVTYPE)FROST/FREEZE	6.491e-11	4.585e+00
## as.factor(EVTYPE)FUNNEL	6.439e-11	5.275e+00
## as.factor(EVTYPE)FUNNEL CLOUD	6.480e-11	4.571e+00
## as.factor(EVTYPE)FUNNEL CLOUDS	6.439e-11	4.883e+00
## as.factor(EVTYPE)Flash Flood	6.287e-11	6.460e+00
## as.factor(EVTYPE)Freezing Rain	6.331e-11	6.460e+00
## as.factor(EVTYPE)GLAZE	6.373e-11	5.595e+00
## as.factor(EVTYPE)GRADIENT WINDS	6.527e-11	6.460e+00
## as.factor(EVTYPE)GUSTNADO	6.377e-11	6.460e+00
## as.factor(EVTYPE)GUSTY WIND	6.350e-11	5.275e+00
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	6.393e-11	6.460e+00
## as.factor(EVTYPE)GUSTY WINDS	6.398e-11	4.934e+00
## as.factor(EVTYPE)Glaze	6.461e-11	5.595e+00
## as.factor(EVTYPE)Gusty Winds	6.442e-11	6.460e+00
## as.factor(EVTYPE)Gusty wind/rain	6.440e-11	6.460e+00
## as.factor(EVTYPE)HAIL	3.765e-03	4.568e+00
## as.factor(EVTYPE)HAIL 0.75	6.399e-11	5.275e+00
## as.factor(EVTYPE)HAIL 100	6.408e-11	5.595e+00
## as.factor(EVTYPE)HAIL 175	6.453e-11	5.595e+00
## as.factor(EVTYPE)HAIL 450	6.433e-11	6.460e+00
## as.factor(EVTYPE)HAIL 75	6.429e-11	5.595e+00
## as.factor(EVTYPE)HAIL/WIND	6.363e-11	6.460e+00
## as.factor(EVTYPE)HARD FREEZE	6.527e-11	6.460e+00
## as.factor(EVTYPE)HEAT	5.400e+00	4.600e+00
## as.factor(EVTYPE)HEAT WAVE	1.429e+01	4.728e+00
## as.factor(EVTYPE)HEAT/DROUGHT	6.348e-11	6.460e+00



## as.factor(EVTYPE)HEAVY LAKE SNOW	6.311e-11	5.107e+00
## as.factor(EVTYPE)HEAVY MIX	6.333e-11	6.460e+00
## as.factor(EVTYPE)HEAVY RAIN	2.625e-02	4.570e+00
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	6.443e-11	5.595e+00
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	6.162e-11	6.460e+00
## as.factor(EVTYPE)HEAVY RAINS	6.415e-11	5.275e+00
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	6.384e-11	5.595e+00
## as.factor(EVTYPE)HEAVY SEAS	6.331e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SNOW	2.381e-02	4.569e+00
## as.factor(EVTYPE)HEAVY SNOW AND ICE	7.440e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	5.773e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	6.421e-11	5.004e+00
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	6.283e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	6.442e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	6.552e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SNOW/ICE	6.529e-11	6.460e+00
## as.factor(EVTYPE)HEAVY SURF	6.403e-11	4.845e+00
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	8.696e-01	4.666e+00
## as.factor(EVTYPE)HIGH	1.000e+00	6.460e+00
## as.factor(EVTYPE)HIGH SEAS	6.667e-01	5.275e+00
## as.factor(EVTYPE)HIGH SURF	2.857e-01	4.600e+00
## as.factor(EVTYPE)HIGH SURF ADVISORY	6.392e-11	6.460e+00
## as.factor(EVTYPE)HIGH WATER	6.390e-11	6.460e+00
## as.factor(EVTYPE)HIGH WAVES	6.407e-11	6.460e+00
## as.factor(EVTYPE)HIGH WIND	9.482e-02	4.569e+00
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	6.535e-11	6.460e+00
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	6.377e-11	6.460e+00
## as.factor(EVTYPE)HIGH WINDS	1.538e-01	4.581e+00
## as.factor(EVTYPE)HIGH WINDS 63	6.301e-11	6.460e+00
## as.factor(EVTYPE)HIGH WINDS 66	6.432e-11	6.460e+00
## as.factor(EVTYPE)HURRICANE	2.500e-01	4.681e+00
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	6.459e-11	6.460e+00
## as.factor(EVTYPE)HURRICANE/TYPHOON	8.917e+00	4.754e+00
## as.factor(EVTYPE)Hail(0.75)	6.466e-11	6.460e+00
## as.factor(EVTYPE)Heavy Rain	6.464e-11	5.595e+00
## as.factor(EVTYPE)Heavy Rain and Wind	6.279e-11	6.460e+00
## as.factor(EVTYPE)ICE	6.452e-11	4.934e+00
## as.factor(EVTYPE)ICE STORM	8.738e-02	4.579e+00
## as.factor(EVTYPE)ICY ROADS	1.000e+00	5.595e+00
## as.factor(EVTYPE)Ice Fog	6.439e-11	6.460e+00
## as.factor(EVTYPE)LACK OF SNOW	6.561e-11	6.460e+00
## as.factor(EVTYPE)LAKE EFFECT SNOW	6.455e-11	5.275e+00
## as.factor(EVTYPE)LAKE-EFFECT SNOW	6.401e-11	4.599e+00
## as.factor(EVTYPE)LAKESHORE FLOOD	6.345e-11	5.595e+00
## as.factor(EVTYPE)LANDSLIDE	6.369e-11	4.607e+00
## as.factor(EVTYPE)LANDSLIDES	6.401e-11	5.595e+00
## as.factor(EVTYPE)LATE FREEZE	6.445e-11	6.460e+00
## as.factor(EVTYPE)LIGHT FREEZING RAIN	6.385e-11	5.595e+00
## as.factor(EVTYPE)LIGHT SNOW	6.350e-11	4.700e+00
## as.factor(EVTYPE)LIGHTING	6.523e-11	6.460e+00
## as.factor(EVTYPE)LIGHTNING	3.431e-01	4.569e+00
## as.factor(EVTYPE)LOCAL FLOOD	6.353e-11	6.460e+00
## as.factor(EVTYPE)LOW TEMPERATURE	6.494e-11	6.460e+00
## as.factor(EVTYPE)Late Season Snowfall	6.427e-11	5.595e+00

## as.factor(EVTYPE)Light Snow	6.398e-11	6.460e+00
## as.factor(EVTYPE)Light Snow/Flurries	6.335e-11	6.460e+00
## as.factor(EVTYPE)MARINE HAIL	6.486e-11	4.625e+00
## as.factor(EVTYPE)MARINE HIGH WIND	1.111e-01	4.815e+00
## as.factor(EVTYPE)MARINE STRONG WIND	1.000e+00	4.883e+00
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	6.366e-11	4.572e+00
## as.factor(EVTYPE)MARINE TSTM WIND	6.472e-11	4.572e+00
## as.factor(EVTYPE)MICROBURST WINDS	6.365e-11	6.460e+00
## as.factor(EVTYPE)MIXED PRECIP	1.000e+00	6.460e+00
## as.factor(EVTYPE)MIXED PRECIPITATION	6.326e-11	5.107e+00
## as.factor(EVTYPE)MODERATE SNOWFALL	6.414e-11	4.815e+00
## as.factor(EVTYPE)MONTHLY PRECIPITATION	6.438e-11	4.883e+00
## as.factor(EVTYPE)MUD SLIDE	6.458e-11	6.460e+00
## as.factor(EVTYPE)MUDSLIDE	6.465e-11	6.460e+00
## as.factor(EVTYPE)Marine Accident	2.000e+00	6.460e+00
## as.factor(EVTYPE)Microburst	6.376e-11	6.460e+00
## as.factor(EVTYPE)Minor Flooding	6.385e-11	6.460e+00
## as.factor(EVTYPE)Mixed Precipitation	6.469e-11	6.460e+00
## as.factor(EVTYPE)Mudslide	1.000e+00	5.595e+00
## as.factor(EVTYPE)NON SEVERE HAIL	6.293e-11	6.460e+00
## as.factor(EVTYPE)OTHER	6.366e-11	5.004e+00
## as.factor(EVTYPE)Other	6.487e-11	6.460e+00
## as.factor(EVTYPE)PATCHY DENSE FOG	6.411e-11	6.460e+00
## as.factor(EVTYPE)PROLONG COLD	6.496e-11	5.595e+00
## as.factor(EVTYPE)PROLONG WARMTH	6.454e-11	6.460e+00
## as.factor(EVTYPE)RAIN	6.369e-11	5.275e+00
## as.factor(EVTYPE)RAIN/SNOW	6.341e-11	6.460e+00
## as.factor(EVTYPE)RECORD COLD	6.472e-11	6.460e+00
## as.factor(EVTYPE)RECORD COLD	6.359e-11	5.275e+00
## as.factor(EVTYPE)RECORD HEAT	6.465e-11	5.004e+00
## as.factor(EVTYPE)RECORD RAINFALL	6.389e-11	5.595e+00
## as.factor(EVTYPE)RECORD SNOW	6.452e-11	6.460e+00
## as.factor(EVTYPE)RECORD WARMTH	6.351e-11	4.700e+00
## as.factor(EVTYPE)REMNANTS OF FLOYD	6.373e-11	6.460e+00
## as.factor(EVTYPE)RIP CURRENT	4.151e-01	4.611e+00
## as.factor(EVTYPE)RIP CURRENTS	4.375e-01	4.639e+00
## as.factor(EVTYPE)RIVER FLOOD	6.428e-11	4.771e+00
## as.factor(EVTYPE)RIVER FLOODING	6.523e-11	5.595e+00
## as.factor(EVTYPE)Record Warmth	6.425e-11	5.595e+00
## as.factor(EVTYPE)Record temperature	6.448e-11	5.595e+00
## as.factor(EVTYPE)SEICHE	6.439e-11	5.275e+00
## as.factor(EVTYPE)SEVERE COLD	6.340e-11	6.460e+00
## as.factor(EVTYPE)SEVERE THUNDERSTORM	6.381e-11	5.595e+00
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	6.348e-11	5.595e+00
## as.factor(EVTYPE)SLEET	6.457e-11	5.595e+00
## as.factor(EVTYPE)SLEET & FREEZING RAIN	6.290e-11	6.460e+00
## as.factor(EVTYPE)SMALL HAIL	6.355e-11	4.815e+00
## as.factor(EVTYPE)SMALL STREAM FLOODING	6.491e-11	6.460e+00
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	6.378e-11	6.460e+00
## as.factor(EVTYPE)SMOKE	6.350e-11	6.460e+00
## as.factor(EVTYPE)SNOW	1.111e-01	4.600e+00
## as.factor(EVTYPE)SNOW AND COLD	6.373e-11	6.460e+00
## as.factor(EVTYPE)SNOW AND ICE	6.448e-11	5.595e+00
## as.factor(EVTYPE)SNOW AND SLEET	6.363e-11	6.460e+00

## as.factor(EVTYPE)SNOW SQUALL	6.327e-11	6.460e+00
## as.factor(EVTYPE)SNOW SQUALLS	6.441e-11	5.595e+00
## as.factor(EVTYPE)SNOW/BLOWING SNOW	6.357e-11	5.275e+00
## as.factor(EVTYPE)SNOW/FREEZING RAIN	6.525e-11	6.460e+00
## as.factor(EVTYPE)SNOW/SLEET	6.393e-11	6.460e+00
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	6.357e-11	6.460e+00
## as.factor(EVTYPE)SNOW\COLD	6.572e-11	6.460e+00
## as.factor(EVTYPE)STORM SURGE	1.000e-01	4.681e+00
## as.factor(EVTYPE)STORM SURGE/TIDE	6.453e-11	4.771e+00
## as.factor(EVTYPE)STREET FLOOD	6.376e-11	6.460e+00
## as.factor(EVTYPE)STRONG WIND	4.826e-02	4.574e+00
## as.factor(EVTYPE)STRONG WINDS	6.350e-11	4.687e+00
## as.factor(EVTYPE)Snow	6.419e-11	5.595e+00
## as.factor(EVTYPE)Snow Squalls	6.336e-11	6.460e+00
## as.factor(EVTYPE)Snow and Ice	6.450e-11	6.460e+00
## as.factor(EVTYPE)Strong Winds	6.333e-11	6.460e+00
## as.factor(EVTYPE)Summary of April 12	6.456e-11	6.460e+00
## as.factor(EVTYPE)Summary of July 29	6.437e-11	6.460e+00
## as.factor(EVTYPE)Summary of July 3	6.588e-11	6.460e+00
## as.factor(EVTYPE)Summary of June 11	6.486e-11	6.460e+00
## as.factor(EVTYPE)Summary of March 14	6.498e-11	6.460e+00
## as.factor(EVTYPE)Summary of May 10	6.468e-11	6.460e+00
## as.factor(EVTYPE)Summary: October 31	6.485e-11	6.460e+00
## as.factor(EVTYPE)THUNDEERSTORM WINDS	6.377e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM	6.436e-11	4.883e+00
## as.factor(EVTYPE)THUNDERSTORM WINDS	5.000e+00	5.595e+00
## as.factor(EVTYPE)THUNDERSTORM WIND	1.648e-02	4.568e+00
## as.factor(EVTYPE)THUNDERSTORM WIND 56	6.378e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	6.505e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WIND G60	6.452e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WIND G61	6.372e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	6.383e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	6.469e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	6.439e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WINDS	3.177e-02	4.569e+00
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	6.390e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	6.508e-11	4.815e+00
## as.factor(EVTYPE)THUNDERSTORM WINDS.	6.348e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	6.521e-11	5.595e+00
## as.factor(EVTYPE)THUNDERSTORM WINDSS	6.443e-11	5.275e+00
## as.factor(EVTYPE)THUNDERSTORMS	6.437e-11	6.460e+00
## as.factor(EVTYPE)THUNDERSTORMS WINDS	6.487e-11	6.460e+00
## as.factor(EVTYPE)TIDAL FLOODING	6.457e-11	6.460e+00
## as.factor(EVTYPE)TORNADO	1.402e+00	4.568e+00
## as.factor(EVTYPE)TORNADO DEBRIS	6.367e-11	6.460e+00
## as.factor(EVTYPE)TORNADO FO	6.360e-11	5.595e+00
## as.factor(EVTYPE)TORRENTIAL RAIN	6.397e-11	6.460e+00
## as.factor(EVTYPE)TROPICAL DEPRESSION	6.375e-11	4.883e+00
## as.factor(EVTYPE)TROPICAL STORM	1.786e-02	4.609e+00
## as.factor(EVTYPE)TSTM WIND	2.990e-02	4.568e+00
## as.factor(EVTYPE)TSTM WIND (G40)	6.374e-11	5.595e+00
## as.factor(EVTYPE)TSTM WIND (G45)	6.350e-11	5.595e+00
## as.factor(EVTYPE)TSTM WIND 51	6.354e-11	6.460e+00
## as.factor(EVTYPE)TSTM WIND 52	6.358e-11	6.460e+00

## as.factor(EVTYPE)TSTM WIND/HAIL	6.367e-11	4.590e+00
## as.factor(EVTYPE)TSUNAMI	6.365e-11	5.595e+00
## as.factor(EVTYPE)Temperature record	6.367e-11	5.595e+00
## as.factor(EVTYPE)Tidal Flooding	6.356e-11	6.460e+00
## as.factor(EVTYPE)UNSEASONABLY COLD	6.370e-11	5.107e+00
## as.factor(EVTYPE)UNSEASONABLY COOL	6.376e-11	5.595e+00
## as.factor(EVTYPE)UNSEASONABLY DRY	6.373e-11	5.004e+00
## as.factor(EVTYPE)UNSEASONABLY HOT	6.386e-11	6.460e+00
## as.factor(EVTYPE)UNSEASONABLY WARM	6.369e-11	4.740e+00
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	6.372e-11	5.004e+00
## as.factor(EVTYPE)UNSEASONABLY WET	6.347e-11	5.595e+00
## as.factor(EVTYPE)UNSEASONAL RAIN	6.378e-11	6.460e+00
## as.factor(EVTYPE)UNUSUAL WARMTH	6.373e-11	5.595e+00
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	6.375e-11	6.460e+00
## as.factor(EVTYPE)UNUSUALLY COLD	6.381e-11	6.460e+00
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	6.373e-11	6.460e+00
## as.factor(EVTYPE)URBAN FLOOD	6.364e-11	4.658e+00
## as.factor(EVTYPE)URBAN FLOODING	6.359e-11	4.740e+00
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	6.365e-11	6.460e+00
## as.factor(EVTYPE)URBAN/SMALL STREAM	6.351e-11	6.460e+00
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	6.383e-11	6.460e+00
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	6.366e-11	5.595e+00
## as.factor(EVTYPE)URBAN/SML STREAM FLD	3.264e-02	4.575e+00
## as.factor(EVTYPE)URBAN/STREET FLOODING	6.359e-11	6.460e+00
## as.factor(EVTYPE)Unseasonable Cold	6.375e-11	6.460e+00
## as.factor(EVTYPE)VOLCANIC ASH	6.356e-11	5.275e+00
## as.factor(EVTYPE)VOLCANIC ASHFALL	6.380e-11	6.460e+00
## as.factor(EVTYPE)WATERSPOUT	2.762e-03	4.574e+00
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	6.368e-11	6.460e+00
## as.factor(EVTYPE)WATERSPOUT-	6.384e-11	6.460e+00
## as.factor(EVTYPE)WATERSPOUT/TORNADO	1.500e+00	5.595e+00
## as.factor(EVTYPE)WATERSPOUTS	6.359e-11	5.595e+00
## as.factor(EVTYPE)WET MICROBURST	6.390e-11	6.460e+00
## as.factor(EVTYPE)WILD/FOREST FIRE	4.786e-01	4.584e+00
## as.factor(EVTYPE)WILDFIRE	2.135e-01	4.576e+00
## as.factor(EVTYPE)WILDFIRES	6.361e-11	6.460e+00
## as.factor(EVTYPE)WIND	1.563e-01	4.639e+00
## as.factor(EVTYPE)WIND ADVISORY	6.366e-11	5.275e+00
## as.factor(EVTYPE)WIND CHILL	6.368e-11	4.934e+00
## as.factor(EVTYPE)WIND DAMAGE	6.377e-11	6.460e+00
## as.factor(EVTYPE)WINDS	6.341e-11	6.460e+00
## as.factor(EVTYPE)WINTER MIX	6.378e-11	6.460e+00
## as.factor(EVTYPE)WINTER STORM	4.141e-02	4.570e+00
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	6.396e-11	6.460e+00
## as.factor(EVTYPE)WINTER WEATHER	9.104e-02	4.571e+00
## as.factor(EVTYPE)WINTER WEATHER MIX	6.370e-11	6.460e+00
## as.factor(EVTYPE)WINTER WEATHER/MIX	1.391e-01	4.588e+00
## as.factor(EVTYPE)WINTER MIX	6.381e-11	6.460e+00
## as.factor(EVTYPE)WINTRY MIX	5.538e+00	4.740e+00
## as.factor(EVTYPE)Wet Month	6.332e-11	6.460e+00
## as.factor(EVTYPE)Wind	6.306e-11	6.460e+00
## as.factor(EVTYPE)Winter Weather	6.298e-11	6.460e+00
## as.factor(EVTYPE)small hail	6.334e-11	6.460e+00
##	t value	Pr(> t )

## (Intercept)	0.000	1.00000
## as.factor(EVTYPE) WIND	0.000	1.00000
## as.factor(EVTYPE)APACHE COUNTY	0.000	1.00000
## as.factor(EVTYPE)ASTRONOMICAL HIGH TIDE	0.000	1.00000
## as.factor(EVTYPE)ASTRONOMICAL LOW TIDE	0.000	1.00000
## as.factor(EVTYPE)AVALANCHE	0.179	0.85805
## as.factor(EVTYPE)BLACK ICE	0.000	1.00000
## as.factor(EVTYPE)BLIZZARD	0.021	0.98311
## as.factor(EVTYPE)BLIZZARD AND EXTREME WIND CHIL	0.000	1.00000
## as.factor(EVTYPE)BLOW-OUT TIDES	0.000	1.00000
## as.factor(EVTYPE)BREAKUP FLOODING	0.000	1.00000
## as.factor(EVTYPE)COASTAL FLOOD	0.000	1.00000
## as.factor(EVTYPE)COASTAL FLOODING	0.000	1.00000
## as.factor(EVTYPE)COASTAL FLOODING/EROSION	0.000	1.00000
## as.factor(EVTYPE)COASTAL STORM	0.155	0.87698
## as.factor(EVTYPE)COLD	0.405	0.68521
## as.factor(EVTYPE)COLD TEMPERATURES	0.000	1.00000
## as.factor(EVTYPE)COLD WAVE	0.000	1.00000
## as.factor(EVTYPE)COLD WIND CHILL TEMPERATURES	0.000	1.00000
## as.factor(EVTYPE)COLD/WIND CHILL	0.042	0.96674
## as.factor(EVTYPE)Coastal Flooding	0.000	1.00000
## as.factor(EVTYPE)Cold	0.000	1.00000
## as.factor(EVTYPE)Cold and Frost	0.000	1.00000
## as.factor(EVTYPE)DAMAGING FREEZE	0.000	1.00000
## as.factor(EVTYPE)DENSE FOG	0.055	0.95588
## as.factor(EVTYPE)DENSE SMOKE	0.000	1.00000
## as.factor(EVTYPE)DROUGHT	0.000	1.00000
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	0.000	1.00000
## as.factor(EVTYPE)DRY	0.000	1.00000
## as.factor(EVTYPE)DRY MICROBURST	0.000	1.00000
## as.factor(EVTYPE)DRY MICROBURST WINDS	0.000	1.00000
## as.factor(EVTYPE)DUST DEVIL	0.000	1.00000
## as.factor(EVTYPE)DUST STORM	0.231	0.81704
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	0.000	1.00000
## as.factor(EVTYPE)DUSTSTORM	0.000	1.00000
## as.factor(EVTYPE)Dust Devil	0.000	1.00000
## as.factor(EVTYPE)EARLY FREEZE	0.000	1.00000
## as.factor(EVTYPE)EARLY SNOWFALL	0.000	1.00000
## as.factor(EVTYPE)EXCESSIVE HEAT	1.115	0.26479
## as.factor(EVTYPE)EXCESSIVE RAINFALL	0.000	1.00000
## as.factor(EVTYPE)EXCESSIVE SNOW	0.000	1.00000
## as.factor(EVTYPE)EXCESSIVE WETNESS	0.000	1.00000
## as.factor(EVTYPE)EXTREME COLD	0.003	0.99737
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	0.002	0.99821
## as.factor(EVTYPE)EXTREME HEAT	0.000	1.00000
## as.factor(EVTYPE)EXTREME WINDCHILL	0.000	1.00000
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	0.000	1.00000
## as.factor(EVTYPE)Extended Cold	0.000	1.00000
## as.factor(EVTYPE)FIRST SNOW	0.000	1.00000
## as.factor(EVTYPE)FLASH FLOOD	0.011	0.99152
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	0.000	1.00000
## as.factor(EVTYPE)FLASH FLOOD/	0.000	1.00000
## as.factor(EVTYPE)FLASH FLOOD/ STREET	0.000	1.00000
## as.factor(EVTYPE)FLASH FLOODING	0.003	0.99769

## as.factor(EVTYPE)FLASH FLOODS	0.000	1.00000
## as.factor(EVTYPE)FLOOD	0.050	0.96017
## as.factor(EVTYPE)FLOOD WATCH/	0.000	1.00000
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	0.015	0.98785
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	0.000	1.00000
## as.factor(EVTYPE)FLOOD/RAIN/WIND	0.000	1.00000
## as.factor(EVTYPE)FLOODING	0.000	1.00000
## as.factor(EVTYPE)FOG	0.102	0.91874
## as.factor(EVTYPE)FREEZE	0.000	1.00000
## as.factor(EVTYPE)FREEZING DRIZZLE	0.089	0.92879
## as.factor(EVTYPE)FREEZING FOG	0.000	1.00000
## as.factor(EVTYPE)FREEZING RAIN	0.000	1.00000
## as.factor(EVTYPE)FREEZING RAIN/SLEET	0.000	1.00000
## as.factor(EVTYPE)FROST	0.000	1.00000
## as.factor(EVTYPE)FROST/FREEZE	0.000	1.00000
## as.factor(EVTYPE)FUNNEL	0.000	1.00000
## as.factor(EVTYPE)FUNNEL CLOUD	0.000	1.00000
## as.factor(EVTYPE)FUNNEL CLOUDS	0.000	1.00000
## as.factor(EVTYPE)Flood/Flash Flood	0.000	1.00000
## as.factor(EVTYPE)Freezing Rain	0.000	1.00000
## as.factor(EVTYPE)GLAZE	0.000	1.00000
## as.factor(EVTYPE)GRADIENT WINDS	0.000	1.00000
## as.factor(EVTYPE)GUSTNADO	0.000	1.00000
## as.factor(EVTYPE)GUSTY WIND	0.000	1.00000
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	0.000	1.00000
## as.factor(EVTYPE)GUSTY WINDS	0.000	1.00000
## as.factor(EVTYPE)Glaze	0.000	1.00000
## as.factor(EVTYPE)Gusty Winds	0.000	1.00000
## as.factor(EVTYPE)Gusty wind/rain	0.000	1.00000
## as.factor(EVTYPE)HAIL	0.001	0.99934
## as.factor(EVTYPE)HAIL 0.75	0.000	1.00000
## as.factor(EVTYPE)HAIL 100	0.000	1.00000
## as.factor(EVTYPE)HAIL 175	0.000	1.00000
## as.factor(EVTYPE)HAIL 450	0.000	1.00000
## as.factor(EVTYPE)HAIL 75	0.000	1.00000
## as.factor(EVTYPE)HAIL/WIND	0.000	1.00000
## as.factor(EVTYPE)HARD FREEZE	0.000	1.00000
## as.factor(EVTYPE)HEAT	1.174	0.24048
## as.factor(EVTYPE)HEAT WAVE	3.021	0.00252 **
## as.factor(EVTYPE)HEAT/DROUGHT	0.000	1.00000
## as.factor(EVTYPE)HEAVY LAKE SNOW	0.000	1.00000
## as.factor(EVTYPE)HEAVY MIX	0.000	1.00000
## as.factor(EVTYPE)HEAVY RAIN	0.006	0.99542
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	0.000	1.00000
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	0.000	1.00000
## as.factor(EVTYPE)HEAVY RAINS	0.000	1.00000
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	0.000	1.00000
## as.factor(EVTYPE)HEAVY SEAS	0.000	1.00000
## as.factor(EVTYPE)HEAVY SNOW	0.005	0.99584
## as.factor(EVTYPE)HEAVY SNOW AND ICE	0.000	1.00000
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	0.000	1.00000
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	0.000	1.00000
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	0.000	1.00000
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	0.000	1.00000

## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	0.000	1.00000
## as.factor(EVTYPE)HEAVY SNOW/ICE	0.000	1.00000
## as.factor(EVTYPE)HEAVY SURF	0.000	1.00000
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	0.186	0.85217
## as.factor(EVTYPE)HIGH	0.155	0.87698
## as.factor(EVTYPE)HIGH SEAS	0.126	0.89942
## as.factor(EVTYPE)HIGH SURF	0.062	0.95048
## as.factor(EVTYPE)HIGH SURF ADVISORY	0.000	1.00000
## as.factor(EVTYPE)HIGH WATER	0.000	1.00000
## as.factor(EVTYPE)HIGH WAVES	0.000	1.00000
## as.factor(EVTYPE)HIGH WIND	0.021	0.98344
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	0.000	1.00000
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	0.000	1.00000
## as.factor(EVTYPE)HIGH WINDS	0.034	0.97321
## as.factor(EVTYPE)HIGH WINDS 63	0.000	1.00000
## as.factor(EVTYPE)HIGH WINDS 66	0.000	1.00000
## as.factor(EVTYPE)HURRICANE	0.053	0.95740
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	0.000	1.00000
## as.factor(EVTYPE)HURRICANE/TYPHOON	1.875	0.06073
## as.factor(EVTYPE)Hail(0.75)	0.000	1.00000
## as.factor(EVTYPE)Heavy Rain	0.000	1.00000
## as.factor(EVTYPE)Heavy Rain and Wind	0.000	1.00000
## as.factor(EVTYPE)ICE	0.000	1.00000
## as.factor(EVTYPE)ICE STORM	0.019	0.98478
## as.factor(EVTYPE)ICY ROADS	0.179	0.85814
## as.factor(EVTYPE)Ice Fog	0.000	1.00000
## as.factor(EVTYPE)LACK OF SNOW	0.000	1.00000
## as.factor(EVTYPE)LAKE EFFECT SNOW	0.000	1.00000
## as.factor(EVTYPE)LAKE-EFFECT SNOW	0.000	1.00000
## as.factor(EVTYPE)LAKESHORE FLOOD	0.000	1.00000
## as.factor(EVTYPE)LANDSLIDE	0.000	1.00000
## as.factor(EVTYPE)LANDSLIDES	0.000	1.00000
## as.factor(EVTYPE)LATE FREEZE	0.000	1.00000
## as.factor(EVTYPE)LIGHT FREEZING RAIN	0.000	1.00000
## as.factor(EVTYPE)LIGHT SNOW	0.000	1.00000
## as.factor(EVTYPE)LIGHTING	0.000	1.00000
## as.factor(EVTYPE)LIGHTNING	0.075	0.94014
## as.factor(EVTYPE)LOCAL FLOOD	0.000	1.00000
## as.factor(EVTYPE)LOW TEMPERATURE	0.000	1.00000
## as.factor(EVTYPE)Late Season Snowfall	0.000	1.00000
## as.factor(EVTYPE)Light Snow	0.000	1.00000
## as.factor(EVTYPE)Light Snow/Flurries	0.000	1.00000
## as.factor(EVTYPE)MARINE HAIL	0.000	1.00000
## as.factor(EVTYPE)MARINE HIGH WIND	0.023	0.98159
## as.factor(EVTYPE)MARINE STRONG WIND	0.205	0.83774
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	0.000	1.00000
## as.factor(EVTYPE)MARINE TSTM WIND	0.000	1.00000
## as.factor(EVTYPE)MICROBURST WINDS	0.000	1.00000
## as.factor(EVTYPE)MIXED PRECIP	0.155	0.87698
## as.factor(EVTYPE)MIXED PRECIPITATION	0.000	1.00000
## as.factor(EVTYPE)MODERATE SNOWFALL	0.000	1.00000
## as.factor(EVTYPE)MONTHLY PRECIPITATION	0.000	1.00000
## as.factor(EVTYPE)MUD SLIDE	0.000	1.00000
## as.factor(EVTYPE)MUDSLIDE	0.000	1.00000

## as.factor(EVTYPE)Marine Accident	0.310	0.75687
## as.factor(EVTYPE)Microburst	0.000	1.00000
## as.factor(EVTYPE)Minor Flooding	0.000	1.00000
## as.factor(EVTYPE)Mixed Precipitation	0.000	1.00000
## as.factor(EVTYPE)Mudslide	0.179	0.85814
## as.factor(EVTYPE)NON SEVERE HAIL	0.000	1.00000
## as.factor(EVTYPE)OTHER	0.000	1.00000
## as.factor(EVTYPE)Other	0.000	1.00000
## as.factor(EVTYPE)PATCHY DENSE FOG	0.000	1.00000
## as.factor(EVTYPE)PROLONG COLD	0.000	1.00000
## as.factor(EVTYPE)PROLONG WARMTH	0.000	1.00000
## as.factor(EVTYPE)RAIN	0.000	1.00000
## as.factor(EVTYPE)RAIN/SNOW	0.000	1.00000
## as.factor(EVTYPE)RECORD COLD	0.000	1.00000
## as.factor(EVTYPE)RECORD COLD	0.000	1.00000
## as.factor(EVTYPE)RECORD HEAT	0.000	1.00000
## as.factor(EVTYPE)RECORD RAINFALL	0.000	1.00000
## as.factor(EVTYPE)RECORD SNOW	0.000	1.00000
## as.factor(EVTYPE)RECORD WARMTH	0.000	1.00000
## as.factor(EVTYPE)REMNANTS OF FLOYD	0.000	1.00000
## as.factor(EVTYPE)RIP CURRENT	0.090	0.92827
## as.factor(EVTYPE)RIP CURRENTS	0.094	0.92486
## as.factor(EVTYPE)RIVER FLOOD	0.000	1.00000
## as.factor(EVTYPE)RIVER FLOODING	0.000	1.00000
## as.factor(EVTYPE)Record Warmth	0.000	1.00000
## as.factor(EVTYPE)Record temperature	0.000	1.00000
## as.factor(EVTYPE)SEICHE	0.000	1.00000
## as.factor(EVTYPE)SEVERE COLD	0.000	1.00000
## as.factor(EVTYPE)SEVERE THUNDERSTORM	0.000	1.00000
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	0.000	1.00000
## as.factor(EVTYPE)SLEET	0.000	1.00000
## as.factor(EVTYPE)SLEET & FREEZING RAIN	0.000	1.00000
## as.factor(EVTYPE)SMALL HAIL	0.000	1.00000
## as.factor(EVTYPE)SMALL STREAM FLOODING	0.000	1.00000
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	0.000	1.00000
## as.factor(EVTYPE)SMOKE	0.000	1.00000
## as.factor(EVTYPE)SNOW	0.024	0.98073
## as.factor(EVTYPE)SNOW AND COLD	0.000	1.00000
## as.factor(EVTYPE)SNOW AND ICE	0.000	1.00000
## as.factor(EVTYPE)SNOW AND SLEET	0.000	1.00000
## as.factor(EVTYPE)SNOW SQUALL	0.000	1.00000
## as.factor(EVTYPE)SNOW SQUALLS	0.000	1.00000
## as.factor(EVTYPE)SNOW/BLOWING SNOW	0.000	1.00000
## as.factor(EVTYPE)SNOW/FREEZING RAIN	0.000	1.00000
## as.factor(EVTYPE)SNOW/SLEET	0.000	1.00000
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	0.000	1.00000
## as.factor(EVTYPE)SNOW\COLD	0.000	1.00000
## as.factor(EVTYPE)STORM SURGE	0.021	0.98296
## as.factor(EVTYPE)STORM SURGE/TIDE	0.000	1.00000
## as.factor(EVTYPE)STREET FLOOD	0.000	1.00000
## as.factor(EVTYPE)STRONG WIND	0.011	0.99158
## as.factor(EVTYPE)STRONG WINDS	0.000	1.00000
## as.factor(EVTYPE)Snow	0.000	1.00000
## as.factor(EVTYPE)Snow Squalls	0.000	1.00000



## as.factor(EVTYPE)Snow and Ice	0.000	1.00000
## as.factor(EVTYPE)Strong Winds	0.000	1.00000
## as.factor(EVTYPE)Summary of April 12	0.000	1.00000
## as.factor(EVTYPE)Summary of July 29	0.000	1.00000
## as.factor(EVTYPE)Summary of July 3	0.000	1.00000
## as.factor(EVTYPE)Summary of June 11	0.000	1.00000
## as.factor(EVTYPE)Summary of March 14	0.000	1.00000
## as.factor(EVTYPE)Summary of May 10	0.000	1.00000
## as.factor(EVTYPE)Summary: October 31	0.000	1.00000
## as.factor(EVTYPE)THUNDEERSTORM WINDS	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.894	0.37147
## as.factor(EVTYPE)THUNDERSTORM WIND	0.004	0.99712
## as.factor(EVTYPE)THUNDERSTORM WIND 56	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND G60	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND G61	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.007	0.99445
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDS.	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDSS	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORMS	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORMS WINDS	0.000	1.00000
## as.factor(EVTYPE)TIDAL FLOODING	0.000	1.00000
## as.factor(EVTYPE)TORNADO	0.307	0.75888
## as.factor(EVTYPE)TORNADO DEBRIS	0.000	1.00000
## as.factor(EVTYPE)TORNADO FO	0.000	1.00000
## as.factor(EVTYPE)TORRENTIAL RAIN	0.000	1.00000
## as.factor(EVTYPE)TROPICAL DEPRESSION	0.000	1.00000
## as.factor(EVTYPE)TROPICAL STORM	0.004	0.99691
## as.factor(EVTYPE)TSTM WIND	0.007	0.99478
## as.factor(EVTYPE)TSTM WIND (G40)	0.000	1.00000
## as.factor(EVTYPE)TSTM WIND (G45)	0.000	1.00000
## as.factor(EVTYPE)TSTM WIND 51	0.000	1.00000
## as.factor(EVTYPE)TSTM WIND 52	0.000	1.00000
## as.factor(EVTYPE)TSTM WIND/HAIL	0.000	1.00000
## as.factor(EVTYPE)TSUNAMI	0.000	1.00000
## as.factor(EVTYPE)Temperature record	0.000	1.00000
## as.factor(EVTYPE)Tidal Flooding	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY COLD	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY COOL	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY DRY	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY HOT	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY WARM	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY WET	0.000	1.00000
## as.factor(EVTYPE)UNSEASONAL RAIN	0.000	1.00000
## as.factor(EVTYPE)UNUSUAL WARMTH	0.000	1.00000
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	0.000	1.00000

```
## as.factor(EVTYPE)UNUSUALLY COLD 0.000 1.00000
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN 0.000 1.00000
## as.factor(EVTYPE)URBAN FLOOD 0.000 1.00000
## as.factor(EVTYPE)URBAN FLOODING 0.000 1.00000
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD 0.000 1.00000
## as.factor(EVTYPE)URBAN/SMALL STREAM 0.000 1.00000
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD 0.000 1.00000
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD 0.000 1.00000
## as.factor(EVTYPE)URBAN/SML STREAM FLD 0.007 0.99431
## as.factor(EVTYPE)URBAN/STREET FLOODING 0.000 1.00000
## as.factor(EVTYPE)Unseasonable Cold 0.000 1.00000
## as.factor(EVTYPE)VOLCANIC ASH 0.000 1.00000
## as.factor(EVTYPE)VOLCANIC ASHFALL 0.000 1.00000
## as.factor(EVTYPE)WATERSPOUT 0.001 0.99952
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD 0.000 1.00000
## as.factor(EVTYPE)WATERSPOUT- 0.000 1.00000
## as.factor(EVTYPE)WATERSPOUT/TORNADO 0.268 0.78861
## as.factor(EVTYPE)WATERSPOUTS 0.000 1.00000
## as.factor(EVTYPE)WET MICROBURST 0.000 1.00000
## as.factor(EVTYPE)WILD/FOREST FIRE 0.104 0.91686
## as.factor(EVTYPE)WILDFIRE 0.047 0.96279
## as.factor(EVTYPE)WILDFIRES 0.000 1.00000
## as.factor(EVTYPE)WIND 0.034 0.97313
## as.factor(EVTYPE)WIND ADVISORY 0.000 1.00000
## as.factor(EVTYPE)WIND CHILL 0.000 1.00000
## as.factor(EVTYPE)WIND DAMAGE 0.000 1.00000
## as.factor(EVTYPE)WINDS 0.000 1.00000
## as.factor(EVTYPE)WINTER MIX 0.000 1.00000
## as.factor(EVTYPE)WINTER STORM 0.009 0.99277
## as.factor(EVTYPE)WINTER STORM/HIGH WIND 0.000 1.00000
## as.factor(EVTYPE)WINTER WEATHER 0.020 0.98411
## as.factor(EVTYPE)WINTER WEATHER MIX 0.000 1.00000
## as.factor(EVTYPE)WINTER WEATHER/MIX 0.030 0.97581
## as.factor(EVTYPE)WINTER MIX 0.000 1.00000
## as.factor(EVTYPE)WINTRY MIX 1.168 0.24266
## as.factor(EVTYPE)Wet Month 0.000 1.00000
## as.factor(EVTYPE)Wind 0.000 1.00000
## as.factor(EVTYPE)Winter Weather 0.000 1.00000
## as.factor(EVTYPE)small hail 0.000 1.00000
```

```
## ---
```

```
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
```

```
## Residual standard error: 4.568 on 89921 degrees of freedom
```

```
## Multiple R-squared: 0.01146, Adjusted R-squared: 0.008077
```

```
## F-statistic: 3.385 on 308 and 89921 DF, p-value: < 2.2e-16
```

```
lm3<-lm(FATALITIES~as.factor(EVTYPE)+PROPDGM+as.factor(STATE),data=training)
```

```
summary(lm3)
```

```
##
```

```
## Call:
```

```
## lm(formula = FATALITIES ~ as.factor(EVTYPE) + PROPDGM + as.factor(STATE),
```

```
## data = training)
```

```
##
```

```

## Residuals:
##      Min       1Q   Median       3Q      Max
## -5.831 -0.018 -0.004  0.004 33.899
##
## Coefficients:
##                                     Estimate Std. Error
## (Intercept)                      -5.827e-03  3.298e-01
## as.factor(EVTYPE) WIND              -1.643e-02  4.660e-01
## as.factor(EVTYPE) APACHE COUNTY     -3.717e-02  4.659e-01
## as.factor(EVTYPE) ASTRONOMICAL HIGH TIDE  6.187e-03  3.428e-01
## as.factor(EVTYPE) ASTRONOMICAL LOW TIDE  2.237e-02  3.376e-01
## as.factor(EVTYPE) AVALANCHE          4.274e-01  3.341e-01
## as.factor(EVTYPE) BLACK ICE          -1.339e-02  4.658e-01
## as.factor(EVTYPE) BLIZZARD           3.180e-02  3.300e-01
## as.factor(EVTYPE) BLIZZARD AND EXTREME WIND CHIL -1.916e-03  4.658e-01
## as.factor(EVTYPE) BLOW-OUT TIDES      8.069e-02  4.664e-01
## as.factor(EVTYPE) BREAKUP FLOODING     3.384e-03  4.660e-01
## as.factor(EVTYPE) COASTAL FLOOD       3.121e-03  3.315e-01
## as.factor(EVTYPE) COASTAL FLOODING    -8.468e-03  3.418e-01
## as.factor(EVTYPE) COASTAL FLOODING/EROSION 8.069e-02  4.664e-01
## as.factor(EVTYPE) COASTAL STORM       9.904e-01  4.658e-01
## as.factor(EVTYPE) COLD               8.303e-01  3.559e-01
## as.factor(EVTYPE) COLD TEMPERATURES  -3.084e-03  4.661e-01
## as.factor(EVTYPE) COLD WAVE           -1.495e-02  4.657e-01
## as.factor(EVTYPE) COLD WIND CHILL TEMPERATURES -9.374e-03  4.660e-01
## as.factor(EVTYPE) COLD/WIND CHILL     1.255e-01  3.325e-01
## as.factor(EVTYPE) Coastal Flooding    3.636e-02  3.684e-01
## as.factor(EVTYPE) Cold                -1.139e-02  4.034e-01
## as.factor(EVTYPE) Cold and Frost      -1.405e-02  4.658e-01
## as.factor(EVTYPE) DAMAGING FREEZE     -6.738e-03  4.660e-01
## as.factor(EVTYPE) DENSE FOG           1.324e-02  3.305e-01
## as.factor(EVTYPE) DENSE SMOKE         -1.698e-02  3.804e-01
## as.factor(EVTYPE) DROUGHT             -7.053e-03  3.300e-01
## as.factor(EVTYPE) DROUGHT/EXCESSIVE HEAT -3.549e-03  4.659e-01
## as.factor(EVTYPE) DRY                 -1.704e-02  4.035e-01
## as.factor(EVTYPE) DRY MICROBURST      -4.642e-03  3.428e-01
## as.factor(EVTYPE) DRY MICROBURST WINDS  5.277e-05  4.658e-01
## as.factor(EVTYPE) DUST DEVIL          -1.178e-02  3.384e-01
## as.factor(EVTYPE) DUST STORM          5.444e-02  3.357e-01
## as.factor(EVTYPE) DUST STORM/HIGH WINDS -1.361e-02  4.658e-01
## as.factor(EVTYPE) DUSTSTORM          -1.643e-02  4.660e-01
## as.factor(EVTYPE) Dust Devil          -8.846e-03  4.035e-01
## as.factor(EVTYPE) EARLY FREEZE        -1.916e-03  4.658e-01
## as.factor(EVTYPE) EARLY SNOWFALL      -7.538e-03  4.658e-01
## as.factor(EVTYPE) EXCESSIVE HEAT       7.140e-01  3.302e-01
## as.factor(EVTYPE) EXCESSIVE RAINFALL  -4.962e-03  4.657e-01
## as.factor(EVTYPE) EXCESSIVE SNOW      -1.903e-02  3.683e-01
## as.factor(EVTYPE) EXCESSIVE WETNESS   -1.018e-03  4.658e-01
## as.factor(EVTYPE) EXTREME COLD        1.835e-01  3.318e-01
## as.factor(EVTYPE) EXTREME COLD/WIND CHILL 9.576e-02  3.310e-01
## as.factor(EVTYPE) EXTREME HEAT        8.388e-03  4.659e-01
## as.factor(EVTYPE) EXTREME WINDCHILL    1.162e-01  3.390e-01
## as.factor(EVTYPE) EXTREME WINDCHILL TEMPERATURES -7.277e-03  3.805e-01
## as.factor(EVTYPE) Extended Cold       9.567e-01  4.658e-01

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## as.factor(EVTYPE)FIRST SNOW	8.069e-02	4.664e-01
## as.factor(EVTYPE)FLASH FLOOD	1.824e-03	3.294e-01
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	-9.928e-03	4.661e-01
## as.factor(EVTYPE)FLASH FLOOD/	-7.813e-02	4.659e-01
## as.factor(EVTYPE)FLASH FLOOD/ STREET	-1.363e-02	4.658e-01
## as.factor(EVTYPE)FLASH FLOODING	4.269e-04	3.315e-01
## as.factor(EVTYPE)FLASH FLOODS	1.633e-01	3.609e-01
## as.factor(EVTYPE)FLOOD	7.532e-03	3.294e-01
## as.factor(EVTYPE)FLOOD WATCH/	5.827e-03	4.660e-01
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	-7.194e-03	3.322e-01
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	-1.210e-02	4.034e-01
## as.factor(EVTYPE)FLOOD/RAIN/WIND	-1.704e-02	4.658e-01
## as.factor(EVTYPE)FLOODING	-9.077e-03	3.428e-01
## as.factor(EVTYPE)FOG	2.841e-02	3.326e-01
## as.factor(EVTYPE)FREEZE	-5.089e-11	3.607e-01
## as.factor(EVTYPE)FREEZING DRIZZLE	-1.823e-02	4.034e-01
## as.factor(EVTYPE)FREEZING FOG	-1.371e-02	4.034e-01
## as.factor(EVTYPE)FREEZING RAIN	1.089e-01	3.359e-01
## as.factor(EVTYPE)FREEZING RAIN/SLEET	-1.339e-02	4.034e-01
## as.factor(EVTYPE)FROST	-1.575e-02	3.521e-01
## as.factor(EVTYPE)FROST/FREEZE	-8.495e-03	3.306e-01
## as.factor(EVTYPE)FUNNEL	-6.402e-03	3.803e-01
## as.factor(EVTYPE)FUNNEL CLOUD	-7.778e-03	3.296e-01
## as.factor(EVTYPE)FUNNEL CLOUDS	-1.154e-04	3.521e-01
## as.factor(EVTYPE)Flood/Flash Flood	-3.331e-03	4.658e-01
## as.factor(EVTYPE)Freezing Rain	-1.339e-02	4.658e-01
## as.factor(EVTYPE)GLAZE	-6.970e-03	4.034e-01
## as.factor(EVTYPE)GRADIENT WINDS	-2.408e-02	4.658e-01
## as.factor(EVTYPE)GUSTNADO	-1.140e-03	4.658e-01
## as.factor(EVTYPE)GUSTY WIND	8.903e-03	3.807e-01
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	-5.333e-03	4.658e-01
## as.factor(EVTYPE)GUSTY WINDS	1.634e-01	3.558e-01
## as.factor(EVTYPE)Glaze	-1.128e-02	4.034e-01
## as.factor(EVTYPE)Gusty Winds	-1.577e-02	4.659e-01
## as.factor(EVTYPE)Gusty wind/rain	-5.333e-03	4.658e-01
## as.factor(EVTYPE)HAIL	-1.031e-02	3.294e-01
## as.factor(EVTYPE)HAIL 0.75	-4.962e-03	3.803e-01
## as.factor(EVTYPE)HAIL 100	-4.542e-03	4.034e-01
## as.factor(EVTYPE)HAIL 175	-7.661e-03	4.034e-01
## as.factor(EVTYPE)HAIL 450	-6.427e-03	4.657e-01
## as.factor(EVTYPE)HAIL 75	-3.176e-02	4.034e-01
## as.factor(EVTYPE)HAIL/WIND	-7.743e-03	4.658e-01
## as.factor(EVTYPE)HARD FREEZE	-5.110e-11	4.657e-01
## as.factor(EVTYPE)HEAT	5.896e-01	3.317e-01
## as.factor(EVTYPE)HEAT WAVE	2.499e+00	3.409e-01
## as.factor(EVTYPE)HEAT/DROUGHT	8.580e-04	4.660e-01
## as.factor(EVTYPE)HEAVY LAKE SNOW	-1.033e-02	3.683e-01
## as.factor(EVTYPE)HEAVY MIX	-9.570e-03	4.658e-01
## as.factor(EVTYPE)HEAVY RAIN	4.179e-03	3.295e-01
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	-2.316e-02	4.034e-01
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	-3.819e-03	4.661e-01
## as.factor(EVTYPE)HEAVY RAINS	-6.267e-03	3.804e-01
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	-4.074e-02	4.035e-01
## as.factor(EVTYPE)HEAVY SEAS	1.995e+00	4.658e-01

## as.factor(EVTYPE)HEAVY SNOW	-4.719e-03	3.295e-01
## as.factor(EVTYPE)HEAVY SNOW AND ICE	-7.538e-03	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	-9.374e-03	4.660e-01
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	-1.807e-02	3.608e-01
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	-1.017e-02	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	5.277e-05	4.658e-01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	5.827e-03	4.660e-01
## as.factor(EVTYPE)HEAVY SNOW/ICE	-8.760e-02	4.659e-01
## as.factor(EVTYPE)HEAVY SURF	1.073e-01	3.494e-01
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	2.921e-01	3.369e-01
## as.factor(EVTYPE)HIGH	-1.704e-02	4.658e-01
## as.factor(EVTYPE)HIGH SEAS	3.333e-01	3.808e-01
## as.factor(EVTYPE)HIGH SURF	1.575e-01	3.321e-01
## as.factor(EVTYPE)HIGH SURF ADVISORY	8.502e-02	4.718e-01
## as.factor(EVTYPE)HIGH WATER	-3.258e-02	4.658e-01
## as.factor(EVTYPE)HIGH WAVES	8.732e-03	4.659e-01
## as.factor(EVTYPE)HIGH WIND	7.202e-03	3.294e-01
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	5.827e-03	4.660e-01
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	5.827e-03	4.660e-01
## as.factor(EVTYPE)HIGH WINDS	1.421e-02	3.303e-01
## as.factor(EVTYPE)HIGH WINDS 63	5.277e-05	4.658e-01
## as.factor(EVTYPE)HIGH WINDS 66	5.277e-05	4.658e-01
## as.factor(EVTYPE)HURRICANE	7.364e-01	3.375e-01
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	1.977e+00	4.658e-01
## as.factor(EVTYPE)HURRICANE/TYPHOON	1.916e+00	3.429e-01
## as.factor(EVTYPE)Hail(0.75)	-7.993e-03	4.660e-01
## as.factor(EVTYPE)Heavy Rain	4.471e-02	4.036e-01
## as.factor(EVTYPE)Heavy Rain and Wind	8.069e-02	4.664e-01
## as.factor(EVTYPE)ICE	1.448e-01	3.557e-01
## as.factor(EVTYPE)ICE STORM	1.681e-02	3.301e-01
## as.factor(EVTYPE)ICY ROADS	-4.361e-03	4.034e-01
## as.factor(EVTYPE)Ice Fog	-6.402e-03	4.657e-01
## as.factor(EVTYPE)LACK OF SNOW	-9.558e-03	4.658e-01
## as.factor(EVTYPE)LAKE EFFECT SNOW	-1.007e-02	3.803e-01
## as.factor(EVTYPE)LAKE-EFFECT SNOW	-1.682e-02	3.316e-01
## as.factor(EVTYPE)LAKESHORE FLOOD	-4.727e-03	4.034e-01
## as.factor(EVTYPE)LANDSLIDE	-9.526e-03	3.323e-01
## as.factor(EVTYPE)LANDSLIDES	-3.819e-03	4.038e-01
## as.factor(EVTYPE)LATE FREEZE	-7.497e-03	4.658e-01
## as.factor(EVTYPE)LIGHT FREEZING RAIN	-1.361e-02	4.034e-01
## as.factor(EVTYPE)LIGHT SNOW	-1.336e-02	3.391e-01
## as.factor(EVTYPE)LIGHTING	-2.307e-02	4.658e-01
## as.factor(EVTYPE)LIGHTNING	3.969e-02	3.294e-01
## as.factor(EVTYPE)LOCAL FLOOD	-1.704e-02	4.658e-01
## as.factor(EVTYPE)LOW TEMPERATURE	9.929e-01	4.658e-01
## as.factor(EVTYPE)Late Season Snowfall	-2.107e-02	4.034e-01
## as.factor(EVTYPE)Light Snow	-1.078e-02	4.658e-01
## as.factor(EVTYPE)Light Snow/Flurries	8.388e-03	4.659e-01
## as.factor(EVTYPE)MARINE HAIL	5.069e-04	3.362e-01
## as.factor(EVTYPE)MARINE HIGH WIND	1.020e-01	3.496e-01
## as.factor(EVTYPE)MARINE STRONG WIND	3.887e-01	3.579e-01
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	-1.412e-03	3.316e-01
## as.factor(EVTYPE)MARINE TSTM WIND	-3.617e-04	3.315e-01
## as.factor(EVTYPE)MICROBURST WINDS	5.277e-05	4.658e-01

## as.factor(EVTYPE)MIXED PRECIP	9.904e-01	4.658e-01
## as.factor(EVTYPE)MIXED PRECIPITATION	-1.390e-02	3.684e-01
## as.factor(EVTYPE)MODERATE SNOWFALL	-7.277e-03	3.474e-01
## as.factor(EVTYPE)MONTHLY PRECIPITATION	-1.191e-02	3.521e-01
## as.factor(EVTYPE)MUD SLIDE	-9.191e-02	4.659e-01
## as.factor(EVTYPE)MUDSLIDE	-1.339e-02	4.658e-01
## as.factor(EVTYPE)Marine Accident	9.769e-01	4.658e-01
## as.factor(EVTYPE)Microburst	-7.993e-03	4.660e-01
## as.factor(EVTYPE)Minor Flooding	5.827e-03	4.660e-01
## as.factor(EVTYPE)Mixed Precipitation	-3.160e-02	4.660e-01
## as.factor(EVTYPE)Mudslide	-1.221e-02	4.035e-01
## as.factor(EVTYPE)NON SEVERE HAIL	-1.018e-03	4.658e-01
## as.factor(EVTYPE)OTHER	-1.282e-02	3.608e-01
## as.factor(EVTYPE)Other	-8.907e-03	4.658e-01
## as.factor(EVTYPE)PATCHY DENSE FOG	-7.139e-03	4.658e-01
## as.factor(EVTYPE)PROLONG COLD	-9.571e-03	4.034e-01
## as.factor(EVTYPE)PROLONG WARMTH	-5.089e-03	4.658e-01
## as.factor(EVTYPE)RAIN	-1.991e-02	3.804e-01
## as.factor(EVTYPE)RAIN/SNOW	-1.704e-02	4.658e-01
## as.factor(EVTYPE)RECORD COLD	8.732e-03	4.659e-01
## as.factor(EVTYPE)RECORD COLD	-1.080e-02	3.804e-01
## as.factor(EVTYPE)RECORD HEAT	-1.211e-02	3.608e-01
## as.factor(EVTYPE)RECORD RAINFALL	-1.540e-03	4.034e-01
## as.factor(EVTYPE)RECORD SNOW	-7.065e-02	4.659e-01
## as.factor(EVTYPE)RECORD WARMTH	-4.648e-03	3.389e-01
## as.factor(EVTYPE)REMNANTS OF FLOYD	-9.374e-03	4.660e-01
## as.factor(EVTYPE)RIP CURRENT	7.983e-01	3.324e-01
## as.factor(EVTYPE)RIP CURRENTS	1.002e+00	3.344e-01
## as.factor(EVTYPE)RIVER FLOOD	-6.610e-03	3.439e-01
## as.factor(EVTYPE)RIVER FLOODING	-1.049e-02	4.034e-01
## as.factor(EVTYPE)Record Warmth	-1.405e-02	4.035e-01
## as.factor(EVTYPE)Record temperature	-1.327e-02	4.037e-01
## as.factor(EVTYPE)SEICHE	-3.803e-02	3.804e-01
## as.factor(EVTYPE)SEVERE COLD	-3.082e-02	4.658e-01
## as.factor(EVTYPE)SEVERE THUNDERSTORM	-1.179e-02	4.034e-01
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	-6.402e-03	4.034e-01
## as.factor(EVTYPE)SLEET	-1.018e-03	4.034e-01
## as.factor(EVTYPE)SLEET & FREEZING RAIN	-7.139e-03	4.658e-01
## as.factor(EVTYPE)SMALL HAIL	-1.287e-02	3.473e-01
## as.factor(EVTYPE)SMALL STREAM FLOODING	-6.738e-03	4.660e-01
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	-3.082e-02	4.658e-01
## as.factor(EVTYPE)SMOKE	-5.126e-11	4.657e-01
## as.factor(EVTYPE)SNOW	1.694e-02	3.316e-01
## as.factor(EVTYPE)SNOW AND COLD	-1.405e-02	4.658e-01
## as.factor(EVTYPE)SNOW AND ICE	-7.231e-03	4.034e-01
## as.factor(EVTYPE)SNOW AND SLEET	-3.331e-03	4.658e-01
## as.factor(EVTYPE)SNOW SQUALL	-1.567e-02	4.658e-01
## as.factor(EVTYPE)SNOW SQUALLS	-2.574e-03	4.035e-01
## as.factor(EVTYPE)SNOW/BLOWING SNOW	-7.999e-03	3.803e-01
## as.factor(EVTYPE)SNOW/FREEZING RAIN	-3.082e-02	4.658e-01
## as.factor(EVTYPE)SNOW/SLEET	-1.329e-02	4.660e-01
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	-3.082e-02	4.658e-01
## as.factor(EVTYPE)SNOW\COLD	-1.405e-02	4.658e-01
## as.factor(EVTYPE)STORM SURGE	-2.176e-02	3.375e-01

## as.factor(EVTYPE)STORM SURGE/TIDE	6.435e-03	3.440e-01
## as.factor(EVTYPE)STREET FLOOD	-4.962e-03	4.657e-01
## as.factor(EVTYPE)STRONG WIND	9.864e-03	3.298e-01
## as.factor(EVTYPE)STRONG WINDS	4.684e-02	3.381e-01
## as.factor(EVTYPE)Snow	-1.425e-02	4.034e-01
## as.factor(EVTYPE)Snow Squalls	9.818e-01	4.660e-01
## as.factor(EVTYPE)Snow and Ice	-1.339e-02	4.658e-01
## as.factor(EVTYPE)Strong Winds	-1.916e-03	4.658e-01
## as.factor(EVTYPE)Summary of April 12	-1.444e-02	4.657e-01
## as.factor(EVTYPE)Summary of July 29	-1.444e-02	4.657e-01
## as.factor(EVTYPE)Summary of July 3	-1.444e-02	4.657e-01
## as.factor(EVTYPE)Summary of June 11	-1.444e-02	4.657e-01
## as.factor(EVTYPE)Summary of March 14	-1.444e-02	4.657e-01
## as.factor(EVTYPE)Summary of May 10	-1.444e-02	4.657e-01
## as.factor(EVTYPE)Summary: October 31	-1.444e-02	4.657e-01
## as.factor(EVTYPE)THUNDEERSTORM WINDS	-7.139e-03	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM	-1.663e-02	3.521e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	-1.198e-02	4.034e-01
## as.factor(EVTYPE)THUNDERSTORM WIND	-1.133e-02	3.294e-01
## as.factor(EVTYPE)THUNDERSTORM WIND 56	-7.139e-03	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	-1.339e-02	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND G60	-2.681e-03	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND G61	-3.258e-02	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	-1.351e-02	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	-1.363e-02	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	-1.964e-02	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	-1.234e-02	3.294e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	8.388e-03	4.659e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	-2.106e-02	3.472e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS.	-8.108e-03	4.658e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	-2.184e-02	4.034e-01
## as.factor(EVTYPE)THUNDERSTORM WINDSS	-7.325e-03	3.803e-01
## as.factor(EVTYPE)THUNDERSTORMS	-1.704e-02	4.658e-01
## as.factor(EVTYPE)THUNDERSTORMS WINDS	-1.339e-02	4.658e-01
## as.factor(EVTYPE)TIDAL FLOODING	-3.258e-02	4.658e-01
## as.factor(EVTYPE)TORNADO	6.871e-02	3.294e-01
## as.factor(EVTYPE)TORNADO DEBRIS	-3.549e-03	4.659e-01
## as.factor(EVTYPE)TORNADO FO	-1.899e-02	4.034e-01
## as.factor(EVTYPE)TORRENTIAL RAIN	-1.339e-02	4.658e-01
## as.factor(EVTYPE)TROPICAL DEPRESSION	-1.023e-02	3.522e-01
## as.factor(EVTYPE)TROPICAL STORM	5.998e-02	3.323e-01
## as.factor(EVTYPE)TSTM WIND	-1.045e-02	3.294e-01
## as.factor(EVTYPE)TSTM WIND (G40)	-6.720e-04	4.033e-01
## as.factor(EVTYPE)TSTM WIND (G45)	-6.109e-04	4.033e-01
## as.factor(EVTYPE)TSTM WIND 51	-4.962e-03	4.657e-01
## as.factor(EVTYPE)TSTM WIND 52	-1.444e-02	4.657e-01
## as.factor(EVTYPE)TSTM WIND/HAIL	-1.201e-02	3.310e-01
## as.factor(EVTYPE)TSUNAMI	3.236e-02	4.051e-01
## as.factor(EVTYPE)Temperature record	5.827e-03	4.037e-01
## as.factor(EVTYPE)Tidal Flooding	-3.258e-02	4.658e-01
## as.factor(EVTYPE)UNSEASONABLY COLD	9.758e-03	3.685e-01
## as.factor(EVTYPE)UNSEASONABLY COOL	-1.210e-02	4.034e-01
## as.factor(EVTYPE)UNSEASONABLY DRY	1.466e-02	3.609e-01
## as.factor(EVTYPE)UNSEASONABLY HOT	-3.258e-02	4.658e-01

## as.factor(EVTYPE)UNSEASONABLY WARM	4.034e-04	3.418e-01
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	5.798e+00	3.608e-01
## as.factor(EVTYPE)UNSEASONABLY WET	4.454e-02	4.036e-01
## as.factor(EVTYPE)UNSEASONAL RAIN	-1.704e-02	4.658e-01
## as.factor(EVTYPE)UNUSUAL WARMTH	-2.289e-02	4.034e-01
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	-9.374e-03	4.660e-01
## as.factor(EVTYPE)UNUSUALLY COLD	-7.743e-03	4.658e-01
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	9.851e-01	4.658e-01
## as.factor(EVTYPE)URBAN FLOOD	-1.481e-02	3.359e-01
## as.factor(EVTYPE)URBAN FLOODING	-1.284e-02	3.418e-01
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	-3.819e-03	4.661e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM	-4.430e-03	4.661e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-1.495e-02	4.657e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-7.477e-03	4.033e-01
## as.factor(EVTYPE)URBAN/SML STREAM FLD	9.160e-03	3.298e-01
## as.factor(EVTYPE)URBAN/STREET FLOODING	-3.084e-03	4.661e-01
## as.factor(EVTYPE)Unseasonable Cold	-1.018e-03	4.658e-01
## as.factor(EVTYPE)VOLCANIC ASH	7.474e-04	3.809e-01
## as.factor(EVTYPE)VOLCANIC ASHFALL	2.250e-02	4.694e-01
## as.factor(EVTYPE)WATERSPOUT	-1.426e-03	3.303e-01
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	-3.819e-03	4.661e-01
## as.factor(EVTYPE)WATERSPOUT-	-5.108e-11	4.657e-01
## as.factor(EVTYPE)WATERSPOUT/TORNADO	-3.665e-03	4.033e-01
## as.factor(EVTYPE)WATERSPOUTS	-1.046e-02	4.034e-01
## as.factor(EVTYPE)WET MICROBURST	-1.704e-02	4.658e-01
## as.factor(EVTYPE)WILD/FOREST FIRE	-9.123e-03	3.305e-01
## as.factor(EVTYPE)WILDFIRE	2.266e-03	3.300e-01
## as.factor(EVTYPE)WILDFIRES	-1.643e-02	4.660e-01
## as.factor(EVTYPE)WIND	1.515e-01	3.345e-01
## as.factor(EVTYPE)WIND ADVISORY	4.296e-02	3.810e-01
## as.factor(EVTYPE)WIND CHILL	-4.553e-04	3.559e-01
## as.factor(EVTYPE)WIND DAMAGE	-7.139e-03	4.658e-01
## as.factor(EVTYPE)WINDS	-7.993e-03	4.660e-01
## as.factor(EVTYPE)WINTER MIX	-1.405e-02	4.658e-01
## as.factor(EVTYPE)WINTER STORM	1.460e-02	3.295e-01
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	-1.704e-02	4.658e-01
## as.factor(EVTYPE)WINTER WEATHER	4.662e-04	3.296e-01
## as.factor(EVTYPE)WINTER WEATHER MIX	-1.704e-02	4.658e-01
## as.factor(EVTYPE)WINTER WEATHER/MIX	4.453e-02	3.308e-01
## as.factor(EVTYPE)WINTERY MIX	-1.952e-03	4.661e-01
## as.factor(EVTYPE)WINTRY MIX	4.263e-04	3.418e-01
## as.factor(EVTYPE)Wet Month	8.388e-03	4.659e-01
## as.factor(EVTYPE)Wind	-1.704e-02	4.658e-01
## as.factor(EVTYPE)Winter Weather	-3.549e-03	4.659e-01
## as.factor(EVTYPE)small hail	-1.327e-02	4.660e-01
## PROPDMG	1.222e-04	1.979e-05
## as.factor(STATE)AL	2.889e-02	1.859e-02
## as.factor(STATE)AM	6.936e-03	4.340e-02
## as.factor(STATE)AN	1.107e-02	4.481e-02
## as.factor(STATE)AR	3.524e-02	1.838e-02
## as.factor(STATE)AS	-7.919e-02	7.766e-02
## as.factor(STATE)AZ	4.239e-02	2.171e-02
## as.factor(STATE)CA	2.286e-02	1.989e-02
## as.factor(STATE)CO	5.774e-03	1.863e-02



## as.factor(STATE)CT	7.779e-03	2.520e-02
## as.factor(STATE)DC	-4.363e-02	5.546e-02
## as.factor(STATE)DE	-7.487e-02	2.977e-02
## as.factor(STATE)FL	5.827e-03	1.867e-02
## as.factor(STATE)GA	9.158e-03	1.849e-02
## as.factor(STATE)GM	5.077e-03	4.084e-02
## as.factor(STATE)GU	-8.249e-02	6.258e-02
## as.factor(STATE)HI	-3.714e-02	2.947e-02
## as.factor(STATE)IA	6.845e-03	1.821e-02
## as.factor(STATE>ID	1.256e-02	2.296e-02
## as.factor(STATE)IL	3.665e-02	1.832e-02
## as.factor(STATE)IN	2.991e-02	1.865e-02
## as.factor(STATE)KS	1.079e-02	1.784e-02
## as.factor(STATE)KY	1.357e-02	1.860e-02
## as.factor(STATE)LA	2.077e-02	1.903e-02
## as.factor(STATE)LC	6.232e-03	8.395e-02
## as.factor(STATE)LE	6.294e-03	4.964e-02
## as.factor(STATE)LH	6.323e-03	6.178e-02
## as.factor(STATE)LM	-5.127e-04	4.991e-02
## as.factor(STATE)LO	6.894e-03	1.935e-01
## as.factor(STATE)LS	6.485e-03	7.500e-02
## as.factor(STATE)MA	-2.905e-03	2.214e-02
## as.factor(STATE)MD	9.376e-03	2.060e-02
## as.factor(STATE)ME	1.520e-02	2.325e-02
## as.factor(STATE)MI	1.615e-02	1.892e-02
## as.factor(STATE)MN	1.337e-02	1.850e-02
## as.factor(STATE)MO	2.078e-02	1.811e-02
## as.factor(STATE)MS	3.690e-02	1.866e-02
## as.factor(STATE)MT	1.332e-02	1.904e-02
## as.factor(STATE)NC	1.921e-02	1.845e-02
## as.factor(STATE)ND	6.827e-03	1.930e-02
## as.factor(STATE)NE	8.508e-03	1.825e-02
## as.factor(STATE)NH	8.911e-03	2.634e-02
## as.factor(STATE)NJ	-2.560e-03	2.084e-02
## as.factor(STATE)NM	1.216e-02	2.092e-02
## as.factor(STATE)NV	1.715e-02	2.581e-02
## as.factor(STATE)NY	1.539e-02	1.865e-02
## as.factor(STATE)OH	2.012e-02	1.846e-02
## as.factor(STATE)OK	2.027e-02	1.794e-02
## as.factor(STATE)OR	1.382e-02	2.246e-02
## as.factor(STATE)PA	3.841e-02	1.860e-02
## as.factor(STATE)PH	7.254e-03	1.927e-01
## as.factor(STATE)PK	7.240e-03	3.320e-01
## as.factor(STATE)PM	7.254e-03	3.308e-01
## as.factor(STATE)PR	9.647e-03	2.595e-02
## as.factor(STATE)PZ	9.742e-02	1.328e-01
## as.factor(STATE)RI	-6.941e-03	4.044e-02
## as.factor(STATE)SC	1.297e-02	1.902e-02
## as.factor(STATE)SD	7.743e-03	1.851e-02
## as.factor(STATE)SL	5.320e-03	2.432e-01
## as.factor(STATE)TN	2.540e-02	1.867e-02
## as.factor(STATE)TX	1.223e-02	1.762e-02
## as.factor(STATE)UT	4.969e-03	2.384e-02
## as.factor(STATE)VA	1.092e-02	1.860e-02

## as.factor(STATE)VI	-1.667e-02	6.098e-02
## as.factor(STATE)VT	1.910e-02	2.419e-02
## as.factor(STATE)WA	2.226e-02	2.413e-02
## as.factor(STATE)WI	1.473e-02	1.879e-02
## as.factor(STATE)WV	1.988e-02	2.036e-02
## as.factor(STATE)WY	1.018e-03	2.086e-02
##	t value	Pr(> t )
## (Intercept)	-0.018	0.98590
## as.factor(EVTYPE) WIND	-0.035	0.97187
## as.factor(EVTYPE)APACHE COUNTY	-0.080	0.93641
## as.factor(EVTYPE)ASTRONOMICAL HIGH TIDE	0.018	0.98560
## as.factor(EVTYPE)ASTRONOMICAL LOW TIDE	0.066	0.94718
## as.factor(EVTYPE)AVALANCHE	1.279	0.20076
## as.factor(EVTYPE)BLACK ICE	-0.029	0.97707
## as.factor(EVTYPE)BLIZZARD	0.096	0.92325
## as.factor(EVTYPE)BLIZZARD AND EXTREME WIND CHIL	-0.004	0.99672
## as.factor(EVTYPE)BLOW-OUT TIDES	0.173	0.86263
## as.factor(EVTYPE)BREAKUP FLOODING	0.007	0.99421
## as.factor(EVTYPE)COASTAL FLOOD	0.009	0.99249
## as.factor(EVTYPE)COASTAL FLOODING	-0.025	0.98023
## as.factor(EVTYPE)COASTAL FLOODING/EROSION	0.173	0.86263
## as.factor(EVTYPE)COASTAL STORM	2.126	0.03347 *
## as.factor(EVTYPE)COLD	2.333	0.01963 *
## as.factor(EVTYPE)COLD TEMPERATURES	-0.007	0.99472
## as.factor(EVTYPE)COLD WAVE	-0.032	0.97439
## as.factor(EVTYPE)COLD WIND CHILL TEMPERATURES	-0.020	0.98395
## as.factor(EVTYPE)COLD/WIND CHILL	0.377	0.70585
## as.factor(EVTYPE)Coastal Flooding	0.099	0.92139
## as.factor(EVTYPE)Cold	-0.028	0.97748
## as.factor(EVTYPE)Cold and Frost	-0.030	0.97593
## as.factor(EVTYPE)DAMAGING FREEZE	-0.014	0.98846
## as.factor(EVTYPE)DENSE FOG	0.040	0.96805
## as.factor(EVTYPE)DENSE SMOKE	-0.045	0.96439
## as.factor(EVTYPE)DROUGHT	-0.021	0.98295
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	-0.008	0.99392
## as.factor(EVTYPE)DRY	-0.042	0.96632
## as.factor(EVTYPE)DRY MICROBURST	-0.014	0.98920
## as.factor(EVTYPE)DRY MICROBURST WINDS	0.000	0.99991
## as.factor(EVTYPE)DUST DEVIL	-0.035	0.97223
## as.factor(EVTYPE)DUST STORM	0.162	0.87116
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	-0.029	0.97670
## as.factor(EVTYPE)DUSTSTORM	-0.035	0.97187
## as.factor(EVTYPE)Dust Devil	-0.022	0.98251
## as.factor(EVTYPE)EARLY FREEZE	-0.004	0.99672
## as.factor(EVTYPE)EARLY SNOWFALL	-0.016	0.98709
## as.factor(EVTYPE)EXCESSIVE HEAT	2.162	0.03061 *
## as.factor(EVTYPE)EXCESSIVE RAINFALL	-0.011	0.99150
## as.factor(EVTYPE)EXCESSIVE SNOW	-0.052	0.95880
## as.factor(EVTYPE)EXCESSIVE WETNESS	-0.002	0.99826
## as.factor(EVTYPE)EXTREME COLD	0.553	0.58019
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	0.289	0.77238
## as.factor(EVTYPE)EXTREME HEAT	0.018	0.98564
## as.factor(EVTYPE)EXTREME WINDCHILL	0.343	0.73172
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	-0.019	0.98474

## as.factor(EVTYPE)Extended Cold	2.054	0.03998 *
## as.factor(EVTYPE)FIRST SNOW	0.173	0.86263
## as.factor(EVTYPE)FLASH FLOOD	0.006	0.99558
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	-0.021	0.98301
## as.factor(EVTYPE)FLASH FLOOD/	-0.168	0.86684
## as.factor(EVTYPE)FLASH FLOOD/ STREET	-0.029	0.97665
## as.factor(EVTYPE)FLASH FLOODING	0.001	0.99897
## as.factor(EVTYPE)FLASH FLOODS	0.453	0.65085
## as.factor(EVTYPE)FLOOD	0.023	0.98176
## as.factor(EVTYPE)FLOOD WATCH/	0.013	0.99002
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	-0.022	0.98273
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	-0.030	0.97608
## as.factor(EVTYPE)FLOOD/RAIN/WIND	-0.037	0.97082
## as.factor(EVTYPE)FLOODING	-0.026	0.97887
## as.factor(EVTYPE)FOG	0.085	0.93191
## as.factor(EVTYPE)FREEZE	0.000	1.00000
## as.factor(EVTYPE)FREEZING DRIZZLE	-0.045	0.96395
## as.factor(EVTYPE)FREEZING FOG	-0.034	0.97289
## as.factor(EVTYPE)FREEZING RAIN	0.324	0.74571
## as.factor(EVTYPE)FREEZING RAIN/SLEET	-0.033	0.97353
## as.factor(EVTYPE)FROST	-0.045	0.96432
## as.factor(EVTYPE)FROST/FREEZE	-0.026	0.97950
## as.factor(EVTYPE)FUNNEL	-0.017	0.98657
## as.factor(EVTYPE)FUNNEL CLOUD	-0.024	0.98117
## as.factor(EVTYPE)FUNNEL CLOUDS	0.000	0.99974
## as.factor(EVTYPE)Flood/Flash Flood	-0.007	0.99429
## as.factor(EVTYPE)Freezing Rain	-0.029	0.97707
## as.factor(EVTYPE)GLAZE	-0.017	0.98621
## as.factor(EVTYPE)GRADIENT WINDS	-0.052	0.95877
## as.factor(EVTYPE)GUSTNADO	-0.002	0.99805
## as.factor(EVTYPE)GUSTY WIND	0.023	0.98134
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	-0.011	0.99086
## as.factor(EVTYPE)GUSTY WINDS	0.459	0.64617
## as.factor(EVTYPE)Glaze	-0.028	0.97770
## as.factor(EVTYPE)Gusty Winds	-0.034	0.97300
## as.factor(EVTYPE)Gusty wind/rain	-0.011	0.99086
## as.factor(EVTYPE)HAIL	-0.031	0.97502
## as.factor(EVTYPE)HAIL 0.75	-0.013	0.98959
## as.factor(EVTYPE)HAIL 100	-0.011	0.99102
## as.factor(EVTYPE)HAIL 175	-0.019	0.98485
## as.factor(EVTYPE)HAIL 450	-0.014	0.98899
## as.factor(EVTYPE)HAIL 75	-0.079	0.93724
## as.factor(EVTYPE)HAIL/WIND	-0.017	0.98674
## as.factor(EVTYPE)HARD FREEZE	0.000	1.00000
## as.factor(EVTYPE)HEAT	1.778	0.07546 .
## as.factor(EVTYPE)HEAT WAVE	7.331	2.31e-13 ***
## as.factor(EVTYPE)HEAT/DROUGHT	0.002	0.99853
## as.factor(EVTYPE)HEAVY LAKE SNOW	-0.028	0.97763
## as.factor(EVTYPE)HEAVY MIX	-0.021	0.98361
## as.factor(EVTYPE)HEAVY RAIN	0.013	0.98988
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	-0.057	0.95421
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	-0.008	0.99346
## as.factor(EVTYPE)HEAVY RAINS	-0.016	0.98685
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	-0.101	0.91957

## as.factor(EVTYPE)HEAVY SEAS	4.283	1.85e-05	***
## as.factor(EVTYPE)HEAVY SNOW	-0.014	0.98857	
## as.factor(EVTYPE)HEAVY SNOW AND ICE	-0.016	0.98709	
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	-0.020	0.98395	
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	-0.050	0.96005	
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	-0.022	0.98258	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	0.000	0.99991	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	0.013	0.99002	
## as.factor(EVTYPE)HEAVY SNOW/ICE	-0.188	0.85086	
## as.factor(EVTYPE)HEAVY SURF	0.307	0.75875	
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	0.867	0.38594	
## as.factor(EVTYPE)HIGH	-0.037	0.97082	
## as.factor(EVTYPE)HIGH SEAS	0.875	0.38154	
## as.factor(EVTYPE)HIGH SURF	0.474	0.63530	
## as.factor(EVTYPE)HIGH SURF ADVISORY	0.180	0.85701	
## as.factor(EVTYPE)HIGH WATER	-0.070	0.94424	
## as.factor(EVTYPE)HIGH WAVES	0.019	0.98505	
## as.factor(EVTYPE)HIGH WIND	0.022	0.98256	
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	0.013	0.99002	
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	0.013	0.99002	
## as.factor(EVTYPE)HIGH WINDS	0.043	0.96570	
## as.factor(EVTYPE)HIGH WINDS 63	0.000	0.99991	
## as.factor(EVTYPE)HIGH WINDS 66	0.000	0.99991	
## as.factor(EVTYPE)HURRICANE	2.182	0.02912	*
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	4.244	2.19e-05	***
## as.factor(EVTYPE)HURRICANE/TYPHOON	5.588	2.31e-08	***
## as.factor(EVTYPE)Hail(0.75)	-0.017	0.98631	
## as.factor(EVTYPE)Heavy Rain	0.111	0.91178	
## as.factor(EVTYPE)Heavy Rain and Wind	0.173	0.86263	
## as.factor(EVTYPE)ICE	0.407	0.68404	
## as.factor(EVTYPE)ICE STORM	0.051	0.95940	
## as.factor(EVTYPE)ICY ROADS	-0.011	0.99137	
## as.factor(EVTYPE)Ice Fog	-0.014	0.98903	
## as.factor(EVTYPE)LACK OF SNOW	-0.021	0.98363	
## as.factor(EVTYPE)LAKE EFFECT SNOW	-0.026	0.97888	
## as.factor(EVTYPE)LAKE-EFFECT SNOW	-0.051	0.95954	
## as.factor(EVTYPE)LAKESHORE FLOOD	-0.012	0.99065	
## as.factor(EVTYPE)LANDSLIDE	-0.029	0.97713	
## as.factor(EVTYPE)LANDSLIDES	-0.009	0.99245	
## as.factor(EVTYPE)LATE FREEZE	-0.016	0.98716	
## as.factor(EVTYPE)LIGHT FREEZING RAIN	-0.034	0.97308	
## as.factor(EVTYPE)LIGHT SNOW	-0.039	0.96857	
## as.factor(EVTYPE)LIGHTNING	-0.050	0.96050	
## as.factor(EVTYPE)LIGHTNING	0.120	0.90410	
## as.factor(EVTYPE)LOCAL FLOOD	-0.037	0.97082	
## as.factor(EVTYPE)LOW TEMPERATURE	2.132	0.03304	*
## as.factor(EVTYPE)Late Season Snowfall	-0.052	0.95834	
## as.factor(EVTYPE)Light Snow	-0.023	0.98154	
## as.factor(EVTYPE)Light Snow/Flurries	0.018	0.98564	
## as.factor(EVTYPE)MARINE HAIL	0.002	0.99880	
## as.factor(EVTYPE)MARINE HIGH WIND	0.292	0.77046	
## as.factor(EVTYPE)MARINE STRONG WIND	1.086	0.27740	
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	-0.004	0.99660	
## as.factor(EVTYPE)MARINE TSTM WIND	-0.001	0.99913	

## as.factor(EVTYPE)MICROBURST WINDS	0.000	0.99991
## as.factor(EVTYPE)MIXED PRECIP	2.126	0.03347 *
## as.factor(EVTYPE)MIXED PRECIPITATION	-0.038	0.96991
## as.factor(EVTYPE)MODERATE SNOWFALL	-0.021	0.98329
## as.factor(EVTYPE)MONTHLY PRECIPITATION	-0.034	0.97303
## as.factor(EVTYPE)MUD SLIDE	-0.197	0.84360
## as.factor(EVTYPE)MUDSLIDE	-0.029	0.97707
## as.factor(EVTYPE)Marine Accident	2.097	0.03600 *
## as.factor(EVTYPE)Microburst	-0.017	0.98631
## as.factor(EVTYPE)Minor Flooding	0.013	0.99002
## as.factor(EVTYPE)Mixed Precipitation	-0.068	0.94595
## as.factor(EVTYPE)Mudslide	-0.030	0.97585
## as.factor(EVTYPE)NON SEVERE HAIL	-0.002	0.99826
## as.factor(EVTYPE)OTHER	-0.036	0.97165
## as.factor(EVTYPE)Other	-0.019	0.98474
## as.factor(EVTYPE)PATCHY DENSE FOG	-0.015	0.98777
## as.factor(EVTYPE)PROLONG COLD	-0.024	0.98107
## as.factor(EVTYPE)PROLONG WARMTH	-0.011	0.99128
## as.factor(EVTYPE)RAIN	-0.052	0.95824
## as.factor(EVTYPE)RAIN/SNOW	-0.037	0.97082
## as.factor(EVTYPE)RECORD COLD	0.019	0.98505
## as.factor(EVTYPE)RECORD COLD	-0.028	0.97736
## as.factor(EVTYPE)RECORD HEAT	-0.034	0.97323
## as.factor(EVTYPE)RECORD RAINFALL	-0.004	0.99695
## as.factor(EVTYPE)RECORD SNOW	-0.152	0.87947
## as.factor(EVTYPE)RECORD WARMTH	-0.014	0.98906
## as.factor(EVTYPE)REMNANTS OF FLOYD	-0.020	0.98395
## as.factor(EVTYPE)RIP CURRENT	2.401	0.01633 *
## as.factor(EVTYPE)RIP CURRENTS	2.995	0.00275 **
## as.factor(EVTYPE)RIVER FLOOD	-0.019	0.98467
## as.factor(EVTYPE)RIVER FLOODING	-0.026	0.97926
## as.factor(EVTYPE)Record Warmth	-0.035	0.97221
## as.factor(EVTYPE)Record temperature	-0.033	0.97378
## as.factor(EVTYPE)SEICHE	-0.100	0.92037
## as.factor(EVTYPE)SEVERE COLD	-0.066	0.94724
## as.factor(EVTYPE)SEVERE THUNDERSTORM	-0.029	0.97668
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	-0.016	0.98734
## as.factor(EVTYPE)SLEET	-0.003	0.99799
## as.factor(EVTYPE)SLEET & FREEZING RAIN	-0.015	0.98777
## as.factor(EVTYPE)SMALL HAIL	-0.037	0.97044
## as.factor(EVTYPE)SMALL STREAM FLOODING	-0.014	0.98846
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	-0.066	0.94724
## as.factor(EVTYPE)SMOKE	0.000	1.00000
## as.factor(EVTYPE)SNOW	0.051	0.95926
## as.factor(EVTYPE)SNOW AND COLD	-0.030	0.97593
## as.factor(EVTYPE)SNOW AND ICE	-0.018	0.98570
## as.factor(EVTYPE)SNOW AND SLEET	-0.007	0.99429
## as.factor(EVTYPE)SNOW SQUALL	-0.034	0.97317
## as.factor(EVTYPE)SNOW SQUALLS	-0.006	0.99491
## as.factor(EVTYPE)SNOW/BLOWING SNOW	-0.021	0.98322
## as.factor(EVTYPE)SNOW/FREEZING RAIN	-0.066	0.94724
## as.factor(EVTYPE)SNOW/SLEET	-0.029	0.97724
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	-0.066	0.94724
## as.factor(EVTYPE)SNOW\COLD	-0.030	0.97593

## as.factor(EVTYPE)STORM SURGE	-0.064	0.94858
## as.factor(EVTYPE)STORM SURGE/TIDE	0.019	0.98508
## as.factor(EVTYPE)STREET FLOOD	-0.011	0.99150
## as.factor(EVTYPE)STRONG WIND	0.030	0.97614
## as.factor(EVTYPE)STRONG WINDS	0.139	0.88979
## as.factor(EVTYPE)Snow	-0.035	0.97182
## as.factor(EVTYPE)Snow Squalls	2.107	0.03513 *
## as.factor(EVTYPE)Snow and Ice	-0.029	0.97707
## as.factor(EVTYPE)Strong Winds	-0.004	0.99672
## as.factor(EVTYPE)Summary of April 12	-0.031	0.97526
## as.factor(EVTYPE)Summary of July 29	-0.031	0.97526
## as.factor(EVTYPE)Summary of July 3	-0.031	0.97526
## as.factor(EVTYPE)Summary of June 11	-0.031	0.97526
## as.factor(EVTYPE)Summary of March 14	-0.031	0.97526
## as.factor(EVTYPE)Summary of May 10	-0.031	0.97526
## as.factor(EVTYPE)Summary: October 31	-0.031	0.97526
## as.factor(EVTYPE)THUNDEERSTORM WINDS	-0.015	0.98777
## as.factor(EVTYPE)THUNDERSTORM	-0.047	0.96233
## as.factor(EVTYPE)THUNDERSTORM WINDS	-0.030	0.97631
## as.factor(EVTYPE)THUNDERSTORM WIND	-0.034	0.97255
## as.factor(EVTYPE)THUNDERSTORM WIND 56	-0.015	0.98777
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	-0.029	0.97707
## as.factor(EVTYPE)THUNDERSTORM WIND G60	-0.006	0.99541
## as.factor(EVTYPE)THUNDERSTORM WIND G61	-0.070	0.94424
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	-0.029	0.97686
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	-0.029	0.97665
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	-0.042	0.96637
## as.factor(EVTYPE)THUNDERSTORM WINDS	-0.037	0.97012
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	0.018	0.98564
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	-0.061	0.95162
## as.factor(EVTYPE)THUNDERSTORM WINDS.	-0.017	0.98611
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	-0.054	0.95682
## as.factor(EVTYPE)THUNDERSTORM WINDSS	-0.019	0.98463
## as.factor(EVTYPE)THUNDERSTORMS	-0.037	0.97082
## as.factor(EVTYPE)THUNDERSTORMS WINDS	-0.029	0.97707
## as.factor(EVTYPE)TIDAL FLOODING	-0.070	0.94424
## as.factor(EVTYPE)TORNADO	0.209	0.83475
## as.factor(EVTYPE)TORNADO DEBRIS	-0.008	0.99392
## as.factor(EVTYPE)TORNADO FO	-0.047	0.96245
## as.factor(EVTYPE)TORRENTIAL RAIN	-0.029	0.97707
## as.factor(EVTYPE)TROPICAL DEPRESSION	-0.029	0.97683
## as.factor(EVTYPE)TROPICAL STORM	0.180	0.85676
## as.factor(EVTYPE)TSTM WIND	-0.032	0.97468
## as.factor(EVTYPE)TSTM WIND (G40)	-0.002	0.99867
## as.factor(EVTYPE)TSTM WIND (G45)	-0.002	0.99879
## as.factor(EVTYPE)TSTM WIND 51	-0.011	0.99150
## as.factor(EVTYPE)TSTM WIND 52	-0.031	0.97526
## as.factor(EVTYPE)TSTM WIND/HAIL	-0.036	0.97105
## as.factor(EVTYPE)TSUNAMI	0.080	0.93633
## as.factor(EVTYPE)Temperature record	0.014	0.98848
## as.factor(EVTYPE)Tidal Flooding	-0.070	0.94424
## as.factor(EVTYPE)UNSEASONABLY COLD	0.026	0.97887
## as.factor(EVTYPE)UNSEASONABLY COOL	-0.030	0.97608
## as.factor(EVTYPE)UNSEASONABLY DRY	0.041	0.96761

## as.factor(EVTYPE)UNSEASONABLY HOT	-0.070	0.94424
## as.factor(EVTYPE)UNSEASONABLY WARM	0.001	0.99906
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	16.069	< 2e-16 ***
## as.factor(EVTYPE)UNSEASONABLY WET	0.110	0.91212
## as.factor(EVTYPE)UNSEASONAL RAIN	-0.037	0.97082
## as.factor(EVTYPE)UNUSUAL WARMTH	-0.057	0.95475
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	-0.020	0.98395
## as.factor(EVTYPE)UNUSUALLY COLD	-0.017	0.98674
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	2.115	0.03445 *
## as.factor(EVTYPE)URBAN FLOOD	-0.044	0.96483
## as.factor(EVTYPE)URBAN FLOODING	-0.038	0.97004
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	-0.008	0.99346
## as.factor(EVTYPE)URBAN/SMALL STREAM	-0.010	0.99242
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-0.032	0.97439
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-0.019	0.98521
## as.factor(EVTYPE)URBAN/SML STREAM FLD	0.028	0.97784
## as.factor(EVTYPE)URBAN/STREET FLOODING	-0.007	0.99472
## as.factor(EVTYPE)Unseasonable Cold	-0.002	0.99826
## as.factor(EVTYPE)VOLCANIC ASH	0.002	0.99843
## as.factor(EVTYPE)VOLCANIC ASHFALL	0.048	0.96177
## as.factor(EVTYPE)WATERSPOUT	-0.004	0.99655
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	-0.008	0.99346
## as.factor(EVTYPE)WATERSPOUT-	0.000	1.00000
## as.factor(EVTYPE)WATERSPOUT/TORNADO	-0.009	0.99275
## as.factor(EVTYPE)WATERSPOUTS	-0.026	0.97931
## as.factor(EVTYPE)WET MICROBURST	-0.037	0.97082
## as.factor(EVTYPE)WILD/FOREST FIRE	-0.028	0.97798
## as.factor(EVTYPE)WILDFIRE	0.007	0.99452
## as.factor(EVTYPE)WILDFIRES	-0.035	0.97187
## as.factor(EVTYPE)WIND	0.453	0.65065
## as.factor(EVTYPE)WIND ADVISORY	0.113	0.91022
## as.factor(EVTYPE)WIND CHILL	-0.001	0.99898
## as.factor(EVTYPE)WIND DAMAGE	-0.015	0.98777
## as.factor(EVTYPE)WINDS	-0.017	0.98631
## as.factor(EVTYPE)WINTER MIX	-0.030	0.97593
## as.factor(EVTYPE)WINTER STORM	0.044	0.96466
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	-0.037	0.97082
## as.factor(EVTYPE)WINTER WEATHER	0.001	0.99887
## as.factor(EVTYPE)WINTER WEATHER MIX	-0.037	0.97082
## as.factor(EVTYPE)WINTER WEATHER/MIX	0.135	0.89291
## as.factor(EVTYPE)WINTERY MIX	-0.004	0.99666
## as.factor(EVTYPE)WINTRY MIX	0.001	0.99900
## as.factor(EVTYPE)Wet Month	0.018	0.98564
## as.factor(EVTYPE)Wind	-0.037	0.97082
## as.factor(EVTYPE)Winter Weather	-0.008	0.99392
## as.factor(EVTYPE)small hail	-0.028	0.97728
## PROPDGM	6.174	6.71e-10 ***
## as.factor(STATE)AL	1.554	0.12018
## as.factor(STATE)AM	0.160	0.87302
## as.factor(STATE)AN	0.247	0.80492
## as.factor(STATE)AR	1.918	0.05517 .
## as.factor(STATE)AS	-1.020	0.30786
## as.factor(STATE)AZ	1.952	0.05092 .
## as.factor(STATE)CA	1.150	0.25031

## as.factor(STATE)CO	0.310	0.75664
## as.factor(STATE)CT	0.309	0.75759
## as.factor(STATE)DC	-0.787	0.43143
## as.factor(STATE)DE	-2.515	0.01190 *
## as.factor(STATE)FL	0.312	0.75500
## as.factor(STATE)GA	0.495	0.62040
## as.factor(STATE)GM	0.124	0.90108
## as.factor(STATE)GU	-1.318	0.18747
## as.factor(STATE)HI	-1.260	0.20768
## as.factor(STATE)IA	0.376	0.70701
## as.factor(STATE>ID	0.547	0.58414
## as.factor(STATE)IL	2.001	0.04543 *
## as.factor(STATE)IN	1.604	0.10878
## as.factor(STATE)KS	0.605	0.54522
## as.factor(STATE)KY	0.729	0.46570
## as.factor(STATE)LA	1.091	0.27519
## as.factor(STATE)LC	0.074	0.94082
## as.factor(STATE)LE	0.127	0.89912
## as.factor(STATE)LH	0.102	0.91848
## as.factor(STATE)LM	-0.010	0.99180
## as.factor(STATE)LO	0.036	0.97159
## as.factor(STATE)LS	0.086	0.93110
## as.factor(STATE)MA	-0.131	0.89564
## as.factor(STATE)MD	0.455	0.64901
## as.factor(STATE)ME	0.654	0.51319
## as.factor(STATE)MI	0.854	0.39314
## as.factor(STATE)MN	0.722	0.47002
## as.factor(STATE)MO	1.147	0.25131
## as.factor(STATE)MS	1.977	0.04801 *
## as.factor(STATE)MT	0.700	0.48418
## as.factor(STATE)NC	1.041	0.29778
## as.factor(STATE)ND	0.354	0.72359
## as.factor(STATE)NE	0.466	0.64111
## as.factor(STATE)NH	0.338	0.73516
## as.factor(STATE)NJ	-0.123	0.90222
## as.factor(STATE)NM	0.581	0.56100
## as.factor(STATE)NV	0.665	0.50628
## as.factor(STATE)NY	0.825	0.40944
## as.factor(STATE)OH	1.090	0.27575
## as.factor(STATE)OK	1.130	0.25850
## as.factor(STATE)OR	0.615	0.53836
## as.factor(STATE)PA	2.065	0.03892 *
## as.factor(STATE)PH	0.038	0.96998
## as.factor(STATE)PK	0.022	0.98260
## as.factor(STATE)PM	0.022	0.98251
## as.factor(STATE)PR	0.372	0.71004
## as.factor(STATE)PZ	0.734	0.46316
## as.factor(STATE)RI	-0.172	0.86372
## as.factor(STATE)SC	0.682	0.49542
## as.factor(STATE)SD	0.418	0.67572
## as.factor(STATE)SL	0.022	0.98255
## as.factor(STATE)TN	1.360	0.17377
## as.factor(STATE)TX	0.694	0.48769
## as.factor(STATE)UT	0.208	0.83491



```

## as.factor(STATE)VA                0.587  0.55730
## as.factor(STATE)VI               -0.273  0.78461
## as.factor(STATE)VT                0.790  0.42978
## as.factor(STATE)WA                0.923  0.35621
## as.factor(STATE)WI                0.784  0.43291
## as.factor(STATE)WV                0.976  0.32890
## as.factor(STATE)WY                0.049  0.96109
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3293 on 89852 degrees of freedom
## Multiple R-squared:  0.05663,    Adjusted R-squared:  0.05267
## F-statistic: 14.31 on 377 and 89852 DF,  p-value: < 2.2e-16

lm4<-update(lm3,FATALITIES~as.factor(EVTYPE)+PROPDMG+as.factor(STATE)+as.factor(F)+as.factor(MAG))

summary(lm4)

##
## Call:
## lm(formula = FATALITIES ~ as.factor(EVTYPE) + PROPDMG + as.factor(STATE) +
##     as.factor(F) + as.factor(MAG), data = training)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -5.8298 -0.0129 -0.0013  0.0033 31.4242
##
## Coefficients:
##
##              Estimate Std. Error
## (Intercept)   -1.767e-02  3.146e-01
## as.factor(EVTYPE) WIND          -5.240e-03  4.446e-01
## as.factor(EVTYPE) APACHE COUNTY  -2.593e-02  4.444e-01
## as.factor(EVTYPE) ASTRONOMICAL HIGH TIDE  1.569e-02  3.270e-01
## as.factor(EVTYPE) ASTRONOMICAL LOW TIDE   3.345e-02  3.221e-01
## as.factor(EVTYPE) AVALANCHE             4.364e-01  3.187e-01
## as.factor(EVTYPE) BLACK ICE             -3.032e-03  4.443e-01
## as.factor(EVTYPE) BLIZZARD              4.426e-02  3.148e-01
## as.factor(EVTYPE) BLIZZARD AND EXTREME WIND CHIL  6.932e-03  4.443e-01
## as.factor(EVTYPE) BLOW-OUT TIDES         9.113e-02  4.448e-01
## as.factor(EVTYPE) BREAKUP FLOODING       1.618e-02  4.445e-01
## as.factor(EVTYPE) COASTAL FLOOD         1.509e-02  3.162e-01
## as.factor(EVTYPE) COASTAL FLOODING      4.378e-03  3.260e-01
## as.factor(EVTYPE) COASTAL FLOODING/EROSION  9.113e-02  4.448e-01
## as.factor(EVTYPE) COASTAL STORM         1.004e+00  4.443e-01
## as.factor(EVTYPE) COLD                 8.425e-01  3.395e-01
## as.factor(EVTYPE) COLD TEMPERATURES     8.429e-03  4.446e-01
## as.factor(EVTYPE) COLD WAVE             -4.961e-04  4.443e-01
## as.factor(EVTYPE) COLD WIND CHILL TEMPERATURES  1.067e-03  4.445e-01
## as.factor(EVTYPE) COLD/WIND CHILL       1.382e-01  3.172e-01
## as.factor(EVTYPE) Coastal Flooding      4.729e-02  3.514e-01
## as.factor(EVTYPE) Cold                 6.582e-04  3.848e-01
## as.factor(EVTYPE) Cold and Frost        -3.301e-03  4.444e-01
## as.factor(EVTYPE) DAMAGING FREEZE       3.457e-03  4.445e-01
## as.factor(EVTYPE) DENSE FOG            2.505e-02  3.153e-01
## as.factor(EVTYPE) DENSE SMOKE          -4.266e-03  3.628e-01

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## as.factor(EVTYPE)DROUGHT	4.192e-03	3.148e-01
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	5.849e-03	4.444e-01
## as.factor(EVTYPE)DRY	-7.655e-03	3.849e-01
## as.factor(EVTYPE)DRY MICROBURST	3.542e-03	3.270e-01
## as.factor(EVTYPE)DRY MICROBURST WINDS	5.361e-03	4.443e-01
## as.factor(EVTYPE)DUST DEVIL	-4.934e-04	3.228e-01
## as.factor(EVTYPE)DUST STORM	6.538e-02	3.202e-01
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	-4.928e-03	4.446e-01
## as.factor(EVTYPE)DUSTSTORM	-5.240e-03	4.446e-01
## as.factor(EVTYPE)Dust Devil	2.327e-03	3.849e-01
## as.factor(EVTYPE)EARLY FREEZE	6.932e-03	4.443e-01
## as.factor(EVTYPE)EARLY SNOWFALL	7.340e-03	4.443e-01
## as.factor(EVTYPE)EXCESSIVE HEAT	7.272e-01	3.150e-01
## as.factor(EVTYPE)EXCESSIVE RAINFALL	8.252e-03	4.443e-01
## as.factor(EVTYPE)EXCESSIVE SNOW	-2.040e-03	3.513e-01
## as.factor(EVTYPE)EXCESSIVE WETNESS	2.016e-02	4.443e-01
## as.factor(EVTYPE)EXTREME COLD	1.959e-01	3.165e-01
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	1.070e-01	3.158e-01
## as.factor(EVTYPE)EXTREME HEAT	1.938e-02	4.444e-01
## as.factor(EVTYPE)EXTREME WINDCHILL	1.267e-01	3.233e-01
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	3.521e-03	3.629e-01
## as.factor(EVTYPE)Extended Cold	9.786e-01	4.443e-01
## as.factor(EVTYPE)FIRST SNOW	9.113e-02	4.448e-01
## as.factor(EVTYPE)FLASH FLOOD	1.589e-02	3.142e-01
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	6.492e-03	4.446e-01
## as.factor(EVTYPE)FLASH FLOOD/	-4.485e-02	4.445e-01
## as.factor(EVTYPE)FLASH FLOOD/ STREET	-3.181e-03	4.443e-01
## as.factor(EVTYPE)FLASH FLOODING	1.405e-02	3.163e-01
## as.factor(EVTYPE)FLASH FLOODS	1.850e-01	3.442e-01
## as.factor(EVTYPE)FLOOD	2.266e-02	3.142e-01
## as.factor(EVTYPE)FLOOD WATCH/	1.767e-02	4.445e-01
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	7.123e-03	3.169e-01
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	6.985e-05	3.848e-01
## as.factor(EVTYPE)FLOOD/RAIN/WIND	-7.655e-03	4.444e-01
## as.factor(EVTYPE)FLOODING	5.882e-03	3.270e-01
## as.factor(EVTYPE)FOG	3.914e-02	3.172e-01
## as.factor(EVTYPE)FREEZE	-5.238e-11	3.441e-01
## as.factor(EVTYPE)FREEZING DRIZZLE	-1.865e-03	3.848e-01
## as.factor(EVTYPE)FREEZING FOG	4.817e-03	3.848e-01
## as.factor(EVTYPE)FREEZING RAIN	1.246e-01	3.204e-01
## as.factor(EVTYPE)FREEZING RAIN/SLEET	-3.032e-03	3.848e-01
## as.factor(EVTYPE)FROST	-3.968e-03	3.359e-01
## as.factor(EVTYPE)FROST/FREEZE	1.792e-03	3.153e-01
## as.factor(EVTYPE)FUNNEL	3.166e-03	3.628e-01
## as.factor(EVTYPE)FUNNEL CLOUD	3.420e-03	3.144e-01
## as.factor(EVTYPE)FUNNEL CLOUDS	1.030e-02	3.358e-01
## as.factor(EVTYPE)Flood/Flash Flood	7.455e-03	4.443e-01
## as.factor(EVTYPE)Freezing Rain	-3.032e-03	4.443e-01
## as.factor(EVTYPE)GLAZE	5.253e-03	3.848e-01
## as.factor(EVTYPE)GRADIENT WINDS	2.178e-03	4.443e-01
## as.factor(EVTYPE)GUSTNADO	2.009e-02	4.443e-01
## as.factor(EVTYPE)GUSTY WIND	2.085e-02	3.631e-01
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	5.388e-03	4.443e-01
## as.factor(EVTYPE)GUSTY WINDS	1.748e-01	3.395e-01

## as.factor(EVTYPE)Glaze	3.531e-03	3.848e-01
## as.factor(EVTYPE)Gusty Winds	-1.589e-03	4.444e-01
## as.factor(EVTYPE)Gusty wind/rain	5.388e-03	4.443e-01
## as.factor(EVTYPE)HAIL	-1.706e-03	3.149e-01
## as.factor(EVTYPE)HAIL 0.75	8.252e-03	3.628e-01
## as.factor(EVTYPE)HAIL 100	5.923e-03	3.848e-01
## as.factor(EVTYPE)HAIL 175	3.300e-03	3.848e-01
## as.factor(EVTYPE)HAIL 450	3.151e-03	4.443e-01
## as.factor(EVTYPE)HAIL 75	-1.955e-02	3.848e-01
## as.factor(EVTYPE)HAIL/WIND	5.213e-03	4.443e-01
## as.factor(EVTYPE)HARD FREEZE	-5.262e-11	4.442e-01
## as.factor(EVTYPE)HEAT	6.016e-01	3.164e-01
## as.factor(EVTYPE)HEAT WAVE	2.511e+00	3.252e-01
## as.factor(EVTYPE)HEAT/DROUGHT	1.117e-02	4.445e-01
## as.factor(EVTYPE)HEAVY LAKE SNOW	7.708e-03	3.513e-01
## as.factor(EVTYPE)HEAVY MIX	3.717e-03	4.443e-01
## as.factor(EVTYPE)HEAVY RAIN	1.592e-02	3.143e-01
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	-8.344e-03	3.848e-01
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	1.021e-02	4.446e-01
## as.factor(EVTYPE)HEAVY RAINS	5.378e-03	3.628e-01
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	-1.732e-02	3.849e-01
## as.factor(EVTYPE)HEAVY SEAS	2.006e+00	4.443e-01
## as.factor(EVTYPE)HEAVY SNOW	6.939e-03	3.143e-01
## as.factor(EVTYPE)HEAVY SNOW AND ICE	7.340e-03	4.443e-01
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	1.067e-03	4.445e-01
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	-3.249e-03	3.442e-01
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	3.353e-03	4.443e-01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	5.361e-03	4.443e-01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	1.767e-02	4.445e-01
## as.factor(EVTYPE)HEAVY SNOW/ICE	-4.503e-02	4.444e-01
## as.factor(EVTYPE)HEAVY SURF	1.182e-01	3.333e-01
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	3.030e-01	3.213e-01
## as.factor(EVTYPE)HIGH	-7.655e-03	4.444e-01
## as.factor(EVTYPE)HIGH SEAS	3.448e-01	3.633e-01
## as.factor(EVTYPE)HIGH SURF	1.689e-01	3.168e-01
## as.factor(EVTYPE)HIGH SURF ADVISORY	9.704e-02	4.501e-01
## as.factor(EVTYPE)HIGH WATER	-1.924e-02	4.443e-01
## as.factor(EVTYPE)HIGH WAVES	1.779e-02	4.444e-01
## as.factor(EVTYPE)HIGH WIND	1.784e-02	3.143e-01
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	1.767e-02	4.445e-01
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	1.767e-02	4.445e-01
## as.factor(EVTYPE)HIGH WINDS	2.574e-02	3.151e-01
## as.factor(EVTYPE)HIGH WINDS 63	5.361e-03	4.443e-01
## as.factor(EVTYPE)HIGH WINDS 66	5.361e-03	4.443e-01
## as.factor(EVTYPE)HURRICANE	7.519e-01	3.220e-01
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	1.993e+00	4.443e-01
## as.factor(EVTYPE)HURRICANE/TYPHOON	1.927e+00	3.270e-01
## as.factor(EVTYPE)Hail(0.75)	2.532e-03	4.445e-01
## as.factor(EVTYPE)Heavy Rain	5.446e-02	3.850e-01
## as.factor(EVTYPE)Heavy Rain and Wind	9.113e-02	4.448e-01
## as.factor(EVTYPE)ICE	1.606e-01	3.393e-01
## as.factor(EVTYPE)ICE STORM	3.214e-02	3.149e-01
## as.factor(EVTYPE)ICY ROADS	7.658e-03	3.848e-01
## as.factor(EVTYPE)Ice Fog	3.166e-03	4.443e-01

## as.factor(EVTYPE)LACK OF SNOW	3.724e-03	4.443e-01
## as.factor(EVTYPE)LAKE EFFECT SNOW	6.380e-03	3.628e-01
## as.factor(EVTYPE)LAKE-EFFECT SNOW	1.407e-03	3.163e-01
## as.factor(EVTYPE)LAKESHORE FLOOD	7.136e-03	3.848e-01
## as.factor(EVTYPE)LANDSLIDE	2.920e-03	3.170e-01
## as.factor(EVTYPE)LANDSLIDES	1.021e-02	3.852e-01
## as.factor(EVTYPE)LATE FREEZE	3.114e-03	4.443e-01
## as.factor(EVTYPE)LIGHT FREEZING RAIN	-4.126e-04	3.848e-01
## as.factor(EVTYPE)LIGHT SNOW	-7.050e-04	3.234e-01
## as.factor(EVTYPE)LIGHTING	-7.410e-03	4.443e-01
## as.factor(EVTYPE)LIGHTNING	5.296e-02	3.143e-01
## as.factor(EVTYPE)LOCAL FLOOD	-7.655e-03	4.444e-01
## as.factor(EVTYPE)LOW TEMPERATURE	1.003e+00	4.443e-01
## as.factor(EVTYPE)Late Season Snowfall	-7.758e-03	3.848e-01
## as.factor(EVTYPE)Light Snow	2.981e-03	4.443e-01
## as.factor(EVTYPE)Light Snow/Flurries	1.938e-02	4.444e-01
## as.factor(EVTYPE)MARINE HAIL	4.808e-04	3.214e-01
## as.factor(EVTYPE)MARINE HIGH WIND	9.569e-02	3.337e-01
## as.factor(EVTYPE)MARINE STRONG WIND	3.081e-01	3.424e-01
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	7.894e-04	3.166e-01
## as.factor(EVTYPE)MARINE TSTM WIND	2.690e-05	3.165e-01
## as.factor(EVTYPE)MICROBURST WINDS	5.361e-03	4.443e-01
## as.factor(EVTYPE)MIXED PRECIP	1.004e+00	4.443e-01
## as.factor(EVTYPE)MIXED PRECIPITATION	-1.421e-03	3.514e-01
## as.factor(EVTYPE)MODERATE SNOWFALL	3.521e-03	3.314e-01
## as.factor(EVTYPE)MONTHLY PRECIPITATION	-4.076e-04	3.359e-01
## as.factor(EVTYPE)MUD SLIDE	-5.698e-02	4.444e-01
## as.factor(EVTYPE)MUDSLIDE	-3.032e-03	4.443e-01
## as.factor(EVTYPE)Marine Accident	9.886e-01	4.444e-01
## as.factor(EVTYPE)Microburst	2.532e-03	4.445e-01
## as.factor(EVTYPE)Minor Flooding	1.767e-02	4.445e-01
## as.factor(EVTYPE)Mixed Precipitation	-1.303e-02	4.445e-01
## as.factor(EVTYPE)Mudslide	-1.354e-03	3.849e-01
## as.factor(EVTYPE)NON SEVERE HAIL	2.016e-02	4.443e-01
## as.factor(EVTYPE)OTHER	-9.962e-05	3.442e-01
## as.factor(EVTYPE)Other	3.441e-03	4.443e-01
## as.factor(EVTYPE)PATCHY DENSE FOG	3.139e-03	4.443e-01
## as.factor(EVTYPE)PROLONG COLD	1.118e-03	3.848e-01
## as.factor(EVTYPE)PROLONG WARMTH	5.537e-03	4.443e-01
## as.factor(EVTYPE)RAIN	-7.878e-03	3.628e-01
## as.factor(EVTYPE)RAIN/SNOW	-7.655e-03	4.444e-01
## as.factor(EVTYPE)RECORD COLD	1.779e-02	4.444e-01
## as.factor(EVTYPE)RECORD COLD	1.859e-03	3.628e-01
## as.factor(EVTYPE)RECORD HEAT	1.919e-04	3.442e-01
## as.factor(EVTYPE)RECORD RAINFALL	1.056e-02	3.848e-01
## as.factor(EVTYPE)RECORD SNOW	-3.347e-02	4.444e-01
## as.factor(EVTYPE)RECORD WARMTH	7.160e-03	3.233e-01
## as.factor(EVTYPE)REMNANTS OF FLOYD	1.067e-03	4.445e-01
## as.factor(EVTYPE)RIP CURRENT	8.042e-01	3.171e-01
## as.factor(EVTYPE)RIP CURRENTS	1.008e+00	3.190e-01
## as.factor(EVTYPE)RIVER FLOOD	9.255e-04	3.281e-01
## as.factor(EVTYPE)RIVER FLOODING	5.601e-04	3.848e-01
## as.factor(EVTYPE)Record Warmth	-3.301e-03	3.849e-01
## as.factor(EVTYPE)Record temperature	-1.872e-03	3.851e-01

## as.factor(EVTYPE)SEICHE	-1.208e-02	3.629e-01
## as.factor(EVTYPE)SEVERE COLD	-1.979e-02	4.443e-01
## as.factor(EVTYPE)SEVERE THUNDERSTORM	-2.289e-03	3.848e-01
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	3.166e-03	3.848e-01
## as.factor(EVTYPE)SLEET	2.016e-02	3.848e-01
## as.factor(EVTYPE)SLEET & FREEZING RAIN	3.139e-03	4.443e-01
## as.factor(EVTYPE)SMALL HAIL	-1.401e-03	3.313e-01
## as.factor(EVTYPE)SMALL STREAM FLOODING	3.457e-03	4.445e-01
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	-1.979e-02	4.443e-01
## as.factor(EVTYPE)SMOKE	-5.275e-11	4.442e-01
## as.factor(EVTYPE)SNOW	2.955e-02	3.163e-01
## as.factor(EVTYPE)SNOW AND COLD	-3.301e-03	4.444e-01
## as.factor(EVTYPE)SNOW AND ICE	3.302e-03	3.848e-01
## as.factor(EVTYPE)SNOW AND SLEET	7.455e-03	4.443e-01
## as.factor(EVTYPE)SNOW SQUALL	5.416e-06	4.443e-01
## as.factor(EVTYPE)SNOW SQUALLS	7.775e-03	3.849e-01
## as.factor(EVTYPE)SNOW/BLOWING SNOW	7.626e-03	3.628e-01
## as.factor(EVTYPE)SNOW/FREEZING RAIN	-1.979e-02	4.443e-01
## as.factor(EVTYPE)SNOW/SLEET	-1.887e-03	4.445e-01
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	-1.979e-02	4.443e-01
## as.factor(EVTYPE)SNOW\COLD	-3.301e-03	4.444e-01
## as.factor(EVTYPE)STORM SURGE	-6.679e-03	3.219e-01
## as.factor(EVTYPE)STORM SURGE/TIDE	1.478e-02	3.281e-01
## as.factor(EVTYPE)STREET FLOOD	8.252e-03	4.443e-01
## as.factor(EVTYPE)STRONG WIND	1.141e-02	3.149e-01
## as.factor(EVTYPE)STRONG WINDS	5.790e-02	3.225e-01
## as.factor(EVTYPE)Snow	2.092e-04	3.848e-01
## as.factor(EVTYPE)Snow Squalls	9.952e-01	4.445e-01
## as.factor(EVTYPE)Snow and Ice	-3.032e-03	4.443e-01
## as.factor(EVTYPE)Strong Winds	6.932e-03	4.443e-01
## as.factor(EVTYPE)Summary of April 12	3.720e-03	4.443e-01
## as.factor(EVTYPE)Summary of July 29	3.720e-03	4.443e-01
## as.factor(EVTYPE)Summary of July 3	3.720e-03	4.443e-01
## as.factor(EVTYPE)Summary of June 11	3.720e-03	4.443e-01
## as.factor(EVTYPE)Summary of March 14	3.720e-03	4.443e-01
## as.factor(EVTYPE)Summary of May 10	3.720e-03	4.443e-01
## as.factor(EVTYPE)Summary: October 31	3.720e-03	4.443e-01
## as.factor(EVTYPE)THUNDEERSTORM WINDS	3.139e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM	-5.042e-03	3.359e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	2.817e-03	3.848e-01
## as.factor(EVTYPE)THUNDERSTORM WIND	2.301e-03	3.142e-01
## as.factor(EVTYPE)THUNDERSTORM WIND 56	3.139e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	-3.032e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WIND G60	8.681e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WIND G61	-1.924e-02	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	-3.106e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	-3.181e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	-5.999e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS	1.371e-03	3.142e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	1.938e-02	4.444e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	-7.804e-03	3.317e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS.	2.742e-03	4.443e-01
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	-6.140e-03	3.849e-01
## as.factor(EVTYPE)THUNDERSTORM WINDSS	4.424e-03	3.628e-01

## as.factor(EVTYPE)THUNDERSTORMS	-7.655e-03	4.444e-01
## as.factor(EVTYPE)THUNDERSTORMS WINDS	-3.032e-03	4.443e-01
## as.factor(EVTYPE)TIDAL FLOODING	-1.924e-02	4.443e-01
## as.factor(EVTYPE)TORNADO	3.439e-03	3.151e-01
## as.factor(EVTYPE)TORNADO DEBRIS	5.849e-03	4.444e-01
## as.factor(EVTYPE)TORNADO FO	-8.335e-03	3.848e-01
## as.factor(EVTYPE)TORRENTIAL RAIN	-3.032e-03	4.443e-01
## as.factor(EVTYPE)TROPICAL DEPRESSION	2.545e-03	3.360e-01
## as.factor(EVTYPE)TROPICAL STORM	7.366e-02	3.170e-01
## as.factor(EVTYPE)TSTM WIND	3.038e-03	3.142e-01
## as.factor(EVTYPE)TSTM WIND (G40)	-4.091e-04	3.847e-01
## as.factor(EVTYPE)TSTM WIND (G45)	-3.719e-04	3.847e-01
## as.factor(EVTYPE)TSTM WIND 51	8.252e-03	4.443e-01
## as.factor(EVTYPE)TSTM WIND 52	3.720e-03	4.443e-01
## as.factor(EVTYPE)TSTM WIND/HAIL	-1.682e-03	3.157e-01
## as.factor(EVTYPE)TSUNAMI	4.370e-02	3.865e-01
## as.factor(EVTYPE)Temperature record	1.767e-02	3.851e-01
## as.factor(EVTYPE)Tidal Flooding	-1.924e-02	4.443e-01
## as.factor(EVTYPE)UNSEASONABLY COLD	2.045e-02	3.515e-01
## as.factor(EVTYPE)UNSEASONABLY COOL	6.985e-05	3.848e-01
## as.factor(EVTYPE)UNSEASONABLY DRY	2.601e-02	3.442e-01
## as.factor(EVTYPE)UNSEASONABLY HOT	-1.924e-02	4.443e-01
## as.factor(EVTYPE)UNSEASONABLY WARM	1.128e-02	3.261e-01
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	5.811e+00	3.442e-01
## as.factor(EVTYPE)UNSEASONABLY WET	5.525e-02	3.850e-01
## as.factor(EVTYPE)UNSEASONAL RAIN	-7.655e-03	4.444e-01
## as.factor(EVTYPE)UNUSUAL WARMTH	-1.015e-02	3.848e-01
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	1.067e-03	4.445e-01
## as.factor(EVTYPE)UNUSUALLY COLD	5.213e-03	4.443e-01
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	9.974e-01	4.443e-01
## as.factor(EVTYPE)URBAN FLOOD	4.260e-03	3.204e-01
## as.factor(EVTYPE)URBAN FLOODING	8.248e-03	3.260e-01
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	1.021e-02	4.446e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM	9.839e-03	4.446e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-4.961e-04	4.443e-01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-2.481e-04	3.847e-01
## as.factor(EVTYPE)URBAN/SML STREAM FLD	2.110e-02	3.146e-01
## as.factor(EVTYPE)URBAN/STREET FLOODING	8.429e-03	4.446e-01
## as.factor(EVTYPE)Unseasonable Cold	2.016e-02	4.443e-01
## as.factor(EVTYPE)VOLCANIC ASH	1.263e-02	3.633e-01
## as.factor(EVTYPE)VOLCANIC ASHFALL	3.291e-02	4.477e-01
## as.factor(EVTYPE)WATERSPOUT	3.366e-03	3.151e-01
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	1.021e-02	4.446e-01
## as.factor(EVTYPE)WATERSPOUT-	-5.257e-11	4.442e-01
## as.factor(EVTYPE)WATERSPOUT/TORNADO	-2.231e-03	3.847e-01
## as.factor(EVTYPE)WATERSPOUTS	2.154e-03	3.848e-01
## as.factor(EVTYPE)WET MICROBURST	-7.655e-03	4.444e-01
## as.factor(EVTYPE)WILD/FOREST FIRE	7.176e-04	3.153e-01
## as.factor(EVTYPE)WILDFIRE	1.329e-02	3.148e-01
## as.factor(EVTYPE)WILDFIRES	-5.240e-03	4.446e-01
## as.factor(EVTYPE)WIND	1.634e-01	3.191e-01
## as.factor(EVTYPE)WIND ADVISORY	5.385e-02	3.635e-01
## as.factor(EVTYPE)WIND CHILL	1.056e-02	3.395e-01
## as.factor(EVTYPE)WIND DAMAGE	3.139e-03	4.443e-01

## as.factor(EVTYPE)WINDS	2.532e-03	4.445e-01
## as.factor(EVTYPE)WINTER MIX	-3.301e-03	4.444e-01
## as.factor(EVTYPE)WINTER STORM	2.664e-02	3.143e-01
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	-7.655e-03	4.444e-01
## as.factor(EVTYPE)WINTER WEATHER	1.275e-02	3.144e-01
## as.factor(EVTYPE)WINTER WEATHER MIX	-7.655e-03	4.444e-01
## as.factor(EVTYPE)WINTER WEATHER/MIX	5.540e-02	3.155e-01
## as.factor(EVTYPE)WINTERY MIX	9.242e-03	4.446e-01
## as.factor(EVTYPE)WINTRY MIX	1.198e-02	3.261e-01
## as.factor(EVTYPE)Wet Month	1.938e-02	4.444e-01
## as.factor(EVTYPE)Wind	-4.329e-03	4.452e-01
## as.factor(EVTYPE)Winter Weather	5.849e-03	4.444e-01
## as.factor(EVTYPE)small hail	-3.817e-01	4.610e-01
## PROPDMG	7.438e-05	1.925e-05
## as.factor(STATE)AL	2.508e-02	1.785e-02
## as.factor(STATE)AM	1.446e-02	4.145e-02
## as.factor(STATE)AN	1.703e-02	4.295e-02
## as.factor(STATE)AR	2.927e-02	1.765e-02
## as.factor(STATE)AS	-7.937e-02	7.411e-02
## as.factor(STATE)AZ	4.323e-02	2.081e-02
## as.factor(STATE)CA	2.533e-02	1.907e-02
## as.factor(STATE)CO	1.231e-02	1.788e-02
## as.factor(STATE)CT	8.428e-03	2.413e-02
## as.factor(STATE)DC	-4.498e-02	5.295e-02
## as.factor(STATE)DE	-7.346e-02	2.847e-02
## as.factor(STATE)FL	1.767e-02	1.792e-02
## as.factor(STATE)GA	1.021e-02	1.777e-02
## as.factor(STATE)GM	1.322e-02	3.902e-02
## as.factor(STATE)GU	-8.059e-02	5.973e-02
## as.factor(STATE)HI	-3.618e-02	2.819e-02
## as.factor(STATE)IA	-2.490e-03	1.748e-02
## as.factor(STATE>ID	1.421e-02	2.199e-02
## as.factor(STATE>IL	3.746e-02	1.759e-02
## as.factor(STATE>IN	1.549e-02	1.790e-02
## as.factor(STATE>KS	9.418e-03	1.713e-02
## as.factor(STATE>KY	1.246e-02	1.786e-02
## as.factor(STATE>LA	2.023e-02	1.826e-02
## as.factor(STATE>LC	1.638e-02	8.032e-02
## as.factor(STATE>LE	1.041e-02	4.898e-02
## as.factor(STATE>LH	1.546e-02	5.922e-02
## as.factor(STATE>LM	5.100e-03	4.779e-02
## as.factor(STATE>LO	1.593e-02	1.854e-01
## as.factor(STATE>LS	1.562e-02	7.180e-02
## as.factor(STATE>MA	-1.244e-04	2.124e-02
## as.factor(STATE>MD	1.182e-02	1.976e-02
## as.factor(STATE>ME	1.660e-02	2.228e-02
## as.factor(STATE>MI	9.962e-03	1.816e-02
## as.factor(STATE>MN	1.033e-02	1.775e-02
## as.factor(STATE>MO	1.817e-02	1.739e-02
## as.factor(STATE>MS	3.161e-02	1.792e-02
## as.factor(STATE>MT	1.456e-02	1.827e-02
## as.factor(STATE>NC	2.070e-02	1.773e-02
## as.factor(STATE>ND	9.038e-03	1.852e-02
## as.factor(STATE>NE	8.989e-03	1.752e-02

## as.factor(STATE)NH	9.241e-03	2.522e-02
## as.factor(STATE)NJ	-1.710e-03	1.998e-02
## as.factor(STATE)NM	1.620e-02	2.006e-02
## as.factor(STATE)NV	1.804e-02	2.473e-02
## as.factor(STATE)NY	1.395e-02	1.791e-02
## as.factor(STATE)OH	1.807e-02	1.774e-02
## as.factor(STATE)OK	1.395e-02	1.722e-02
## as.factor(STATE)OR	1.514e-02	2.153e-02
## as.factor(STATE)PA	3.691e-02	1.787e-02
## as.factor(STATE)PH	1.430e-02	1.839e-01
## as.factor(STATE)PK	1.983e-02	3.170e-01
## as.factor(STATE)PM	1.430e-02	3.156e-01
## as.factor(STATE)PR	7.459e-03	2.484e-02
## as.factor(STATE)PZ	6.968e-02	1.280e-01
## as.factor(STATE)RI	-5.818e-03	3.863e-02
## as.factor(STATE)SC	1.453e-02	1.828e-02
## as.factor(STATE)SD	1.074e-02	1.777e-02
## as.factor(STATE)SL	1.324e-02	2.320e-01
## as.factor(STATE)TN	2.363e-02	1.793e-02
## as.factor(STATE)TX	1.450e-02	1.692e-02
## as.factor(STATE)UT	6.498e-03	2.283e-02
## as.factor(STATE)VA	1.213e-02	1.786e-02
## as.factor(STATE)VI	-1.524e-02	5.822e-02
## as.factor(STATE)VT	1.954e-02	2.317e-02
## as.factor(STATE)WA	2.291e-02	2.311e-02
## as.factor(STATE)WI	1.423e-02	1.803e-02
## as.factor(STATE)WV	2.097e-02	1.954e-02
## as.factor(STATE)WY	6.233e-03	2.000e-02
## as.factor(F)0	-1.727e-03	2.483e-02
## as.factor(F)1	7.199e-03	2.510e-02
## as.factor(F)2	2.363e-02	2.613e-02
## as.factor(F)3	3.699e-01	2.991e-02
## as.factor(F)4	2.559e+00	3.815e-02
## as.factor(F)5	2.831e+00	7.787e-02
## as.factor(MAG)1.00	3.929e-03	2.187e-02
## as.factor(MAG)100.00	4.487e-03	2.156e-02
## as.factor(MAG)101.00	-8.565e-03	2.224e-01
## as.factor(MAG)103.00	-4.278e-03	3.141e-01
## as.factor(MAG)104.00	-2.088e-03	1.572e-01
## as.factor(MAG)105.00	-1.248e-02	3.143e-01
## as.factor(MAG)106.00	-1.714e-04	3.146e-01
## as.factor(MAG)110.00	6.695e-03	1.579e-01
## as.factor(MAG)111.00	-1.384e-02	2.222e-01
## as.factor(MAG)112.00	2.105e-03	1.827e-01
## as.factor(MAG)113.00	7.067e-03	3.149e-01
## as.factor(MAG)115.00	-5.510e-03	2.231e-01
## as.factor(MAG)116.00	-1.473e-02	3.143e-01
## as.factor(MAG)120.00	-3.708e-03	2.232e-01
## as.factor(MAG)125.00	4.687e-03	2.469e-02
## as.factor(MAG)139.00	-2.403e-03	3.146e-01
## as.factor(MAG)140.00	8.639e-03	3.149e-01
## as.factor(MAG)150.00	5.604e-03	2.393e-02
## as.factor(MAG)160.00	4.845e-03	3.149e-01
## as.factor(MAG)165.00	9.162e-03	3.149e-01



## as.factor(MAG)175.00	4.253e-03	2.170e-02
## as.factor(MAG)176.00	4.872e-03	3.148e-01
## as.factor(MAG)180.00	9.958e-03	3.148e-01
## as.factor(MAG)188.00	7.067e-03	3.149e-01
## as.factor(MAG)2.00	4.025e-03	2.366e-02
## as.factor(MAG)200.00	4.900e-03	2.544e-02
## as.factor(MAG)22.00	-2.572e-02	3.149e-01
## as.factor(MAG)225.00	3.359e-03	6.885e-02
## as.factor(MAG)25.00	3.798e-01	1.221e-01
## as.factor(MAG)250.00	5.303e-03	2.927e-02
## as.factor(MAG)260.00	2.075e-02	3.149e-01
## as.factor(MAG)27.00	-1.198e-02	3.149e-01
## as.factor(MAG)275.00	3.302e-03	2.523e-02
## as.factor(MAG)29.00	-3.127e-02	3.149e-01
## as.factor(MAG)3.00	2.984e-03	3.314e-02
## as.factor(MAG)30.00	3.267e-01	9.691e-02
## as.factor(MAG)300.00	6.799e-03	3.683e-02
## as.factor(MAG)31.00	-1.499e-03	1.410e-01
## as.factor(MAG)32.00	-4.886e-03	1.575e-01
## as.factor(MAG)325.00	6.193e-03	1.585e-01
## as.factor(MAG)33.00	1.759e-01	1.417e-01
## as.factor(MAG)34.00	8.695e-03	3.071e-02
## as.factor(MAG)35.00	7.934e-03	2.212e-02
## as.factor(MAG)350.00	6.088e-03	7.513e-02
## as.factor(MAG)36.00	5.241e-04	2.955e-02
## as.factor(MAG)360.00	-7.667e-03	3.143e-01
## as.factor(MAG)37.00	-6.085e-03	3.111e-02
## as.factor(MAG)375.00	4.925e-03	2.231e-01
## as.factor(MAG)38.00	4.153e-04	3.963e-02
## as.factor(MAG)380.00	-5.473e-02	3.150e-01
## as.factor(MAG)39.00	-3.326e-03	2.735e-02
## as.factor(MAG)396.00	-1.641e-02	3.143e-01
## as.factor(MAG)4.00	-1.646e-03	6.946e-02
## as.factor(MAG)40.00	6.998e-03	2.686e-02
## as.factor(MAG)400.00	3.255e-03	4.988e-02
## as.factor(MAG)41.00	9.927e-03	3.763e-02
## as.factor(MAG)42.00	1.079e-03	4.420e-02
## as.factor(MAG)425.00	6.037e-03	7.909e-02
## as.factor(MAG)43.00	-9.387e-03	2.850e-02
## as.factor(MAG)44.00	-1.278e-03	5.579e-02
## as.factor(MAG)45.00	1.309e-02	2.866e-02
## as.factor(MAG)450.00	2.496e-03	4.775e-02
## as.factor(MAG)46.00	-9.084e-04	5.434e-02
## as.factor(MAG)460.00	-7.286e-03	3.143e-01
## as.factor(MAG)47.00	-7.980e-03	5.704e-02
## as.factor(MAG)475.00	7.692e-03	2.231e-01
## as.factor(MAG)48.00	2.292e-02	4.115e-02
## as.factor(MAG)49.00	-7.393e-03	5.211e-02
## as.factor(MAG)5.00	3.684e-03	1.826e-01
## as.factor(MAG)50.00	-2.945e-03	5.152e-03
## as.factor(MAG)500.00	4.893e-03	1.421e-01
## as.factor(MAG)51.00	4.322e-03	1.591e-02
## as.factor(MAG)52.00	1.155e-03	5.899e-03
## as.factor(MAG)53.00	-2.644e-04	1.433e-02

## as.factor(MAG)54.00	-4.917e-04	1.594e-02
## as.factor(MAG)55.00	-2.704e-03	8.321e-03
## as.factor(MAG)550.00	-4.918e-03	3.149e-01
## as.factor(MAG)56.00	-4.404e-04	1.003e-02
## as.factor(MAG)57.00	-9.629e-04	1.617e-02
## as.factor(MAG)58.00	7.974e-06	2.018e-02
## as.factor(MAG)59.00	-4.506e-03	2.698e-02
## as.factor(MAG)6.00	4.724e-03	3.148e-01
## as.factor(MAG)60.00	-6.129e-04	8.577e-03
## as.factor(MAG)600.00	1.017e-02	2.231e-01
## as.factor(MAG)61.00	1.038e-02	8.933e-03
## as.factor(MAG)62.00	-5.368e-03	2.530e-02
## as.factor(MAG)63.00	8.124e-03	2.544e-02
## as.factor(MAG)64.00	-3.619e-03	3.371e-02
## as.factor(MAG)65.00	-2.038e-03	1.210e-02
## as.factor(MAG)66.00	-2.756e-03	4.260e-02
## as.factor(MAG)67.00	-3.559e-03	4.305e-02
## as.factor(MAG)68.00	9.460e-03	3.919e-02
## as.factor(MAG)69.00	-1.075e-03	2.789e-02
## as.factor(MAG)70.00	4.773e-03	1.336e-02
## as.factor(MAG)71.00	-4.515e-03	5.332e-02
## as.factor(MAG)72.00	-5.233e-03	5.658e-02
## as.factor(MAG)73.00	4.057e-02	6.877e-02
## as.factor(MAG)74.00	1.349e-02	3.885e-02
## as.factor(MAG)75.00	3.947e-03	2.124e-02
## as.factor(MAG)76.00	-4.743e-03	6.713e-02
## as.factor(MAG)77.00	-5.559e-03	6.869e-02
## as.factor(MAG)78.00	-7.367e-03	3.167e-02
## as.factor(MAG)79.00	-4.256e-03	9.952e-02
## as.factor(MAG)8.00	-5.474e-03	3.144e-01
## as.factor(MAG)80.00	-1.813e-03	3.594e-02
## as.factor(MAG)81.00	1.436e-01	9.177e-02
## as.factor(MAG)82.00	-8.728e-03	8.407e-02
## as.factor(MAG)83.00	-1.083e-02	6.712e-02
## as.factor(MAG)84.00	-6.491e-03	1.112e-01
## as.factor(MAG)85.00	2.831e-02	5.952e-02
## as.factor(MAG)86.00	2.775e-01	1.188e-01
## as.factor(MAG)87.00	-1.968e-03	4.290e-02
## as.factor(MAG)88.00	4.407e-03	2.191e-02
## as.factor(MAG)89.00	-6.404e-03	3.144e-01
## as.factor(MAG)9.00	-1.432e-02	2.225e-01
## as.factor(MAG)90.00	-8.389e-03	6.569e-02
## as.factor(MAG)91.00	-5.635e-03	1.112e-01
## as.factor(MAG)92.00	4.915e-01	2.227e-01
## as.factor(MAG)93.00	-1.178e-03	3.141e-01
## as.factor(MAG)94.00	4.302e-03	3.142e-01
## as.factor(MAG)95.00	-3.979e-03	1.188e-01
## as.factor(MAG)96.00	-8.576e-03	1.112e-01
## as.factor(MAG)98.00	-6.775e-03	1.816e-01
##	t value	Pr(> t )
## (Intercept)	-0.056	0.955209
## as.factor(EVTYPE) WIND	-0.012	0.990596
## as.factor(EVTYPE)APACHE COUNTY	-0.058	0.953468
## as.factor(EVTYPE)ASTRONOMICAL HIGH TIDE	0.048	0.961730

## as.factor(EVTYPE)ASTRONOMICAL LOW TIDE	0.104	0.917266
## as.factor(EVTYPE)AVALANCHE	1.369	0.170862
## as.factor(EVTYPE)BLACK ICE	-0.007	0.994555
## as.factor(EVTYPE)BLIZZARD	0.141	0.888198
## as.factor(EVTYPE)BLIZZARD AND EXTREME WIND CHIL	0.016	0.987551
## as.factor(EVTYPE)BLOW-OUT TIDES	0.205	0.837691
## as.factor(EVTYPE)BREAKUP FLOODING	0.036	0.970962
## as.factor(EVTYPE)COASTAL FLOOD	0.048	0.961940
## as.factor(EVTYPE)COASTAL FLOODING	0.013	0.989285
## as.factor(EVTYPE)COASTAL FLOODING/EROSION	0.205	0.837691
## as.factor(EVTYPE)COASTAL STORM	2.259	0.023877 *
## as.factor(EVTYPE)COLD	2.482	0.013070 *
## as.factor(EVTYPE)COLD TEMPERATURES	0.019	0.984876
## as.factor(EVTYPE)COLD WAVE	-0.001	0.999109
## as.factor(EVTYPE)COLD WIND CHILL TEMPERATURES	0.002	0.998084
## as.factor(EVTYPE)COLD/WIND CHILL	0.436	0.663086
## as.factor(EVTYPE)Coastal Flooding	0.135	0.892964
## as.factor(EVTYPE)Cold	0.002	0.998635
## as.factor(EVTYPE)Cold and Frost	-0.007	0.994073
## as.factor(EVTYPE)DAMAGING FREEZE	0.008	0.993795
## as.factor(EVTYPE)DENSE FOG	0.079	0.936666
## as.factor(EVTYPE)DENSE SMOKE	-0.012	0.990620
## as.factor(EVTYPE)DROUGHT	0.013	0.989375
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	0.013	0.989497
## as.factor(EVTYPE)DRY	-0.020	0.984131
## as.factor(EVTYPE)DRY MICROBURST	0.011	0.991359
## as.factor(EVTYPE)DRY MICROBURST WINDS	0.012	0.990373
## as.factor(EVTYPE)DUST DEVIL	-0.002	0.998780
## as.factor(EVTYPE)DUST STORM	0.204	0.838218
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	-0.011	0.991157
## as.factor(EVTYPE)DUSTSTORM	-0.012	0.990596
## as.factor(EVTYPE)Dust Devil	0.006	0.995177
## as.factor(EVTYPE)EARLY FREEZE	0.016	0.987551
## as.factor(EVTYPE)EARLY SNOWFALL	0.017	0.986819
## as.factor(EVTYPE)EXCESSIVE HEAT	2.309	0.020966 *
## as.factor(EVTYPE)EXCESSIVE RAINFALL	0.019	0.985181
## as.factor(EVTYPE)EXCESSIVE SNOW	-0.006	0.995367
## as.factor(EVTYPE)EXCESSIVE WETNESS	0.045	0.963807
## as.factor(EVTYPE)EXTREME COLD	0.619	0.535990
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	0.339	0.734731
## as.factor(EVTYPE)EXTREME HEAT	0.044	0.965214
## as.factor(EVTYPE)EXTREME WINDCHILL	0.392	0.695244
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	0.010	0.992259
## as.factor(EVTYPE)Extended Cold	2.203	0.027623 *
## as.factor(EVTYPE)FIRST SNOW	0.205	0.837691
## as.factor(EVTYPE)FLASH FLOOD	0.051	0.959657
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	0.015	0.988350
## as.factor(EVTYPE)FLASH FLOOD/	-0.101	0.919630
## as.factor(EVTYPE)FLASH FLOOD/ STREET	-0.007	0.994288
## as.factor(EVTYPE)FLASH FLOODING	0.044	0.964554
## as.factor(EVTYPE)FLASH FLOODS	0.537	0.591090
## as.factor(EVTYPE)FLOOD	0.072	0.942513
## as.factor(EVTYPE)FLOOD WATCH/	0.040	0.968294
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	0.022	0.982069

## as.factor(EVTYPE)FLOOD/FLASH FLOODING	0.000	0.999855	
## as.factor(EVTYPE)FLOOD/RAIN/WIND	-0.017	0.986255	
## as.factor(EVTYPE)FLOODING	0.018	0.985649	
## as.factor(EVTYPE)FOG	0.123	0.901810	
## as.factor(EVTYPE)FREEZE	0.000	1.000000	
## as.factor(EVTYPE)FREEZING DRIZZLE	-0.005	0.996133	
## as.factor(EVTYPE)FREEZING FOG	0.013	0.990012	
## as.factor(EVTYPE)FREEZING RAIN	0.389	0.697271	
## as.factor(EVTYPE)FREEZING RAIN/SLEET	-0.008	0.993713	
## as.factor(EVTYPE)FROST	-0.012	0.990576	
## as.factor(EVTYPE)FROST/FREEZE	0.006	0.995466	
## as.factor(EVTYPE)FUNNEL	0.009	0.993036	
## as.factor(EVTYPE)FUNNEL CLOUD	0.011	0.991319	
## as.factor(EVTYPE)FUNNEL CLOUDS	0.031	0.975532	
## as.factor(EVTYPE)Flood/Flash Flood	0.017	0.986612	
## as.factor(EVTYPE)Freezing Rain	-0.007	0.994555	
## as.factor(EVTYPE)GLAZE	0.014	0.989107	
## as.factor(EVTYPE)GRADIENT WINDS	0.005	0.996089	
## as.factor(EVTYPE)GUSTNADO	0.045	0.963940	
## as.factor(EVTYPE)GUSTY WIND	0.057	0.954212	
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	0.012	0.990324	
## as.factor(EVTYPE)GUSTY WINDS	0.515	0.606559	
## as.factor(EVTYPE)Glaze	0.009	0.992677	
## as.factor(EVTYPE)Gusty Winds	-0.004	0.997148	
## as.factor(EVTYPE)Gusty wind/rain	0.012	0.990324	
## as.factor(EVTYPE)HAIL	-0.005	0.995676	
## as.factor(EVTYPE)HAIL 0.75	0.023	0.981853	
## as.factor(EVTYPE)HAIL 100	0.015	0.987717	
## as.factor(EVTYPE)HAIL 175	0.009	0.993157	
## as.factor(EVTYPE)HAIL 450	0.007	0.994341	
## as.factor(EVTYPE)HAIL 75	-0.051	0.959467	
## as.factor(EVTYPE)HAIL/WIND	0.012	0.990639	
## as.factor(EVTYPE)HARD FREEZE	0.000	1.000000	
## as.factor(EVTYPE)HEAT	1.901	0.057241	.
## as.factor(EVTYPE)HEAT WAVE	7.721	1.17e-14	***
## as.factor(EVTYPE)HEAT/DROUGHT	0.025	0.979949	
## as.factor(EVTYPE)HEAVY LAKE SNOW	0.022	0.982495	
## as.factor(EVTYPE)HEAVY MIX	0.008	0.993325	
## as.factor(EVTYPE)HEAVY RAIN	0.051	0.959607	
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	-0.022	0.982700	
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	0.023	0.981678	
## as.factor(EVTYPE)HEAVY RAINS	0.015	0.988174	
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	-0.045	0.964112	
## as.factor(EVTYPE)HEAVY SEAS	4.514	6.37e-06	***
## as.factor(EVTYPE)HEAVY SNOW	0.022	0.982384	
## as.factor(EVTYPE)HEAVY SNOW AND ICE	0.017	0.986819	
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	0.002	0.998084	
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	-0.009	0.992469	
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	0.008	0.993979	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	0.012	0.990373	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	0.040	0.968294	
## as.factor(EVTYPE)HEAVY SNOW/ICE	-0.101	0.919302	
## as.factor(EVTYPE)HEAVY SURF	0.355	0.722929	
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	0.943	0.345719	

## as.factor(EVTYPE)HIGH	-0.017	0.986255	
## as.factor(EVTYPE)HIGH SEAS	0.949	0.342592	
## as.factor(EVTYPE)HIGH SURF	0.533	0.593944	
## as.factor(EVTYPE)HIGH SURF ADVISORY	0.216	0.829288	
## as.factor(EVTYPE)HIGH WATER	-0.043	0.965457	
## as.factor(EVTYPE)HIGH WAVES	0.040	0.968063	
## as.factor(EVTYPE)HIGH WIND	0.057	0.954729	
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	0.040	0.968294	
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	0.040	0.968294	
## as.factor(EVTYPE)HIGH WINDS	0.082	0.934894	
## as.factor(EVTYPE)HIGH WINDS 63	0.012	0.990373	
## as.factor(EVTYPE)HIGH WINDS 66	0.012	0.990373	
## as.factor(EVTYPE)HURRICANE	2.335	0.019537	*
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	4.485	7.30e-06	***
## as.factor(EVTYPE)HURRICANE/TYPHOON	5.893	3.81e-09	***
## as.factor(EVTYPE)Hail(0.75)	0.006	0.995454	
## as.factor(EVTYPE)Heavy Rain	0.141	0.887502	
## as.factor(EVTYPE)Heavy Rain and Wind	0.205	0.837691	
## as.factor(EVTYPE)ICE	0.473	0.635995	
## as.factor(EVTYPE)ICE STORM	0.102	0.918706	
## as.factor(EVTYPE)ICY ROADS	0.020	0.984121	
## as.factor(EVTYPE)Ice Fog	0.007	0.994314	
## as.factor(EVTYPE)LACK OF SNOW	0.008	0.993311	
## as.factor(EVTYPE)LAKE EFFECT SNOW	0.018	0.985968	
## as.factor(EVTYPE)LAKE-EFFECT SNOW	0.004	0.996451	
## as.factor(EVTYPE)LAKESHORE FLOOD	0.019	0.985202	
## as.factor(EVTYPE)LANDSLIDE	0.009	0.992651	
## as.factor(EVTYPE)LANDSLIDES	0.027	0.978851	
## as.factor(EVTYPE)LATE FREEZE	0.007	0.994409	
## as.factor(EVTYPE)LIGHT FREEZING RAIN	-0.001	0.999145	
## as.factor(EVTYPE)LIGHT SNOW	-0.002	0.998261	
## as.factor(EVTYPE)LIGHTING	-0.017	0.986693	
## as.factor(EVTYPE)LIGHTNING	0.169	0.866159	
## as.factor(EVTYPE)LOCAL FLOOD	-0.017	0.986255	
## as.factor(EVTYPE)LOW TEMPERATURE	2.258	0.023962	*
## as.factor(EVTYPE)Late Season Snowfall	-0.020	0.983913	
## as.factor(EVTYPE)Light Snow	0.007	0.994647	
## as.factor(EVTYPE)Light Snow/Flurries	0.044	0.965214	
## as.factor(EVTYPE)MARINE HAIL	0.001	0.998806	
## as.factor(EVTYPE)MARINE HIGH WIND	0.287	0.774320	
## as.factor(EVTYPE)MARINE STRONG WIND	0.900	0.368208	
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	0.002	0.998010	
## as.factor(EVTYPE)MARINE TSTM WIND	0.000	0.999932	
## as.factor(EVTYPE)MICROBURST WINDS	0.012	0.990373	
## as.factor(EVTYPE)MIXED PRECIP	2.259	0.023877	*
## as.factor(EVTYPE)MIXED PRECIPITATION	-0.004	0.996774	
## as.factor(EVTYPE)MODERATE SNOWFALL	0.011	0.991522	
## as.factor(EVTYPE)MONTHLY PRECIPITATION	-0.001	0.999032	
## as.factor(EVTYPE)MUD SLIDE	-0.128	0.897965	
## as.factor(EVTYPE)MUDSLIDE	-0.007	0.994555	
## as.factor(EVTYPE)Marine Accident	2.225	0.026093	*
## as.factor(EVTYPE)Microburst	0.006	0.995454	
## as.factor(EVTYPE)Minor Flooding	0.040	0.968294	
## as.factor(EVTYPE)Mixed Precipitation	-0.029	0.976619	

## as.factor(EVTYPE)Mudslide	-0.004	0.997194
## as.factor(EVTYPE)NON SEVERE HAIL	0.045	0.963807
## as.factor(EVTYPE)OTHER	0.000	0.999769
## as.factor(EVTYPE)Other	0.008	0.993820
## as.factor(EVTYPE)PATCHY DENSE FOG	0.007	0.994363
## as.factor(EVTYPE)PROLONG COLD	0.003	0.997682
## as.factor(EVTYPE)PROLONG WARMTH	0.012	0.990056
## as.factor(EVTYPE)RAIN	-0.022	0.982677
## as.factor(EVTYPE)RAIN/SNOW	-0.017	0.986255
## as.factor(EVTYPE)RECORD COLD	0.040	0.968063
## as.factor(EVTYPE)RECORD COLD	0.005	0.995912
## as.factor(EVTYPE)RECORD HEAT	0.001	0.999555
## as.factor(EVTYPE)RECORD RAINFALL	0.027	0.978118
## as.factor(EVTYPE)RECORD SNOW	-0.075	0.939971
## as.factor(EVTYPE)RECORD WARMTH	0.022	0.982332
## as.factor(EVTYPE)REMNANTS OF FLOYD	0.002	0.998084
## as.factor(EVTYPE)RIP CURRENT	2.536	0.011211 *
## as.factor(EVTYPE)RIP CURRENTS	3.160	0.001579 **
## as.factor(EVTYPE)RIVER FLOOD	0.003	0.997749
## as.factor(EVTYPE)RIVER FLOODING	0.001	0.998839
## as.factor(EVTYPE)Record Warmth	-0.009	0.993156
## as.factor(EVTYPE)Record temperature	-0.005	0.996122
## as.factor(EVTYPE)SEICHE	-0.033	0.973438
## as.factor(EVTYPE)SEVERE COLD	-0.045	0.964463
## as.factor(EVTYPE)SEVERE THUNDERSTORM	-0.006	0.995253
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	0.008	0.993435
## as.factor(EVTYPE)SLEET	0.052	0.958215
## as.factor(EVTYPE)SLEET & FREEZING RAIN	0.007	0.994363
## as.factor(EVTYPE)SMALL HAIL	-0.004	0.996626
## as.factor(EVTYPE)SMALL STREAM FLOODING	0.008	0.993795
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	-0.045	0.964463
## as.factor(EVTYPE)SMOKE	0.000	1.000000
## as.factor(EVTYPE)SNOW	0.093	0.925583
## as.factor(EVTYPE)SNOW AND COLD	-0.007	0.994073
## as.factor(EVTYPE)SNOW AND ICE	0.009	0.993154
## as.factor(EVTYPE)SNOW AND SLEET	0.017	0.986612
## as.factor(EVTYPE)SNOW SQUALL	0.000	0.999990
## as.factor(EVTYPE)SNOW SQUALLS	0.020	0.983882
## as.factor(EVTYPE)SNOW/BLOWING SNOW	0.021	0.983229
## as.factor(EVTYPE)SNOW/FREEZING RAIN	-0.045	0.964463
## as.factor(EVTYPE)SNOW/SLEET	-0.004	0.996614
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	-0.045	0.964463
## as.factor(EVTYPE)SNOW\COLD	-0.007	0.994073
## as.factor(EVTYPE)STORM SURGE	-0.021	0.983447
## as.factor(EVTYPE)STORM SURGE/TIDE	0.045	0.964066
## as.factor(EVTYPE)STREET FLOOD	0.019	0.985181
## as.factor(EVTYPE)STRONG WIND	0.036	0.971106
## as.factor(EVTYPE)STRONG WINDS	0.180	0.857509
## as.factor(EVTYPE)Snow	0.001	0.999566
## as.factor(EVTYPE)Snow Squalls	2.239	0.025183 *
## as.factor(EVTYPE)Snow and Ice	-0.007	0.994555
## as.factor(EVTYPE)Strong Winds	0.016	0.987551
## as.factor(EVTYPE)Summary of April 12	0.008	0.993320
## as.factor(EVTYPE)Summary of July 29	0.008	0.993320

## as.factor(EVTYPE)Summary of July 3	0.008 0.993320
## as.factor(EVTYPE)Summary of June 11	0.008 0.993320
## as.factor(EVTYPE)Summary of March 14	0.008 0.993320
## as.factor(EVTYPE)Summary of May 10	0.008 0.993320
## as.factor(EVTYPE)Summary: October 31	0.008 0.993320
## as.factor(EVTYPE)THUNDEERSTORM WINDS	0.007 0.994363
## as.factor(EVTYPE)THUNDERSTORM	-0.015 0.988023
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.007 0.994159
## as.factor(EVTYPE)THUNDERSTORM WIND	0.007 0.994157
## as.factor(EVTYPE)THUNDERSTORM WIND 56	0.007 0.994363
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	-0.007 0.994555
## as.factor(EVTYPE)THUNDERSTORM WIND G60	0.020 0.984411
## as.factor(EVTYPE)THUNDERSTORM WIND G61	-0.043 0.965457
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	-0.007 0.994421
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	-0.007 0.994288
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	-0.014 0.989227
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.004 0.996518
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	0.044 0.965214
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	-0.024 0.981232
## as.factor(EVTYPE)THUNDERSTORM WINDS.	0.006 0.995077
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	-0.016 0.987274
## as.factor(EVTYPE)THUNDERSTORM WINDSS	0.012 0.990271
## as.factor(EVTYPE)THUNDERSTORMS	-0.017 0.986255
## as.factor(EVTYPE)THUNDERSTORMS WINDS	-0.007 0.994555
## as.factor(EVTYPE)TIDAL FLOODING	-0.043 0.965457
## as.factor(EVTYPE)TORNADO	0.011 0.991291
## as.factor(EVTYPE)TORNADO DEBRIS	0.013 0.989497
## as.factor(EVTYPE)TORNADO FO	-0.022 0.982717
## as.factor(EVTYPE)TORRENTIAL RAIN	-0.007 0.994555
## as.factor(EVTYPE)TROPICAL DEPRESSION	0.008 0.993955
## as.factor(EVTYPE)TROPICAL STORM	0.232 0.816246
## as.factor(EVTYPE)TSTM WIND	0.010 0.992284
## as.factor(EVTYPE)TSTM WIND (G40)	-0.001 0.999151
## as.factor(EVTYPE)TSTM WIND (G45)	-0.001 0.999229
## as.factor(EVTYPE)TSTM WIND 51	0.019 0.985181
## as.factor(EVTYPE)TSTM WIND 52	0.008 0.993320
## as.factor(EVTYPE)TSTM WIND/HAIL	-0.005 0.995750
## as.factor(EVTYPE)TSUNAMI	0.113 0.909961
## as.factor(EVTYPE)Temperature record	0.046 0.963402
## as.factor(EVTYPE)Tidal Flooding	-0.043 0.965457
## as.factor(EVTYPE)UNSEASONABLY COLD	0.058 0.953602
## as.factor(EVTYPE)UNSEASONABLY COOL	0.000 0.999855
## as.factor(EVTYPE)UNSEASONABLY DRY	0.076 0.939781
## as.factor(EVTYPE)UNSEASONABLY HOT	-0.043 0.965457
## as.factor(EVTYPE)UNSEASONABLY WARM	0.035 0.972401
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	16.881 < 2e-16 ***
## as.factor(EVTYPE)UNSEASONABLY WET	0.144 0.885871
## as.factor(EVTYPE)UNSEASONAL RAIN	-0.017 0.986255
## as.factor(EVTYPE)UNUSUAL WARMTH	-0.026 0.978964
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	0.002 0.998084
## as.factor(EVTYPE)UNUSUALLY COLD	0.012 0.990639
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	2.245 0.024774 *
## as.factor(EVTYPE)URBAN FLOOD	0.013 0.989392
## as.factor(EVTYPE)URBAN FLOODING	0.025 0.979819

## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	0.023	0.981678	
## as.factor(EVTYPE)URBAN/SMALL STREAM	0.022	0.982345	
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-0.001	0.999109	
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-0.001	0.999486	
## as.factor(EVTYPE)URBAN/SML STREAM FLD	0.067	0.946524	
## as.factor(EVTYPE)URBAN/STREET FLOODING	0.019	0.984876	
## as.factor(EVTYPE)Unseasonable Cold	0.045	0.963807	
## as.factor(EVTYPE)VOLCANIC ASH	0.035	0.972275	
## as.factor(EVTYPE)VOLCANIC ASHFALL	0.074	0.941404	
## as.factor(EVTYPE)WATERSPOUT	0.011	0.991477	
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	0.023	0.981678	
## as.factor(EVTYPE)WATERSPOUT-	0.000	1.000000	
## as.factor(EVTYPE)WATERSPOUT/TORNADO	-0.006	0.995372	
## as.factor(EVTYPE)WATERSPOUTS	0.006	0.995533	
## as.factor(EVTYPE)WET MICROBURST	-0.017	0.986255	
## as.factor(EVTYPE)WILD/FOREST FIRE	0.002	0.998184	
## as.factor(EVTYPE)WILDFIRE	0.042	0.966314	
## as.factor(EVTYPE)WILDFIRES	-0.012	0.990596	
## as.factor(EVTYPE)WIND	0.512	0.608562	
## as.factor(EVTYPE)WIND ADVISORY	0.148	0.882215	
## as.factor(EVTYPE)WIND CHILL	0.031	0.975179	
## as.factor(EVTYPE)WIND DAMAGE	0.007	0.994363	
## as.factor(EVTYPE)WINDS	0.006	0.995454	
## as.factor(EVTYPE)WINTER MIX	-0.007	0.994073	
## as.factor(EVTYPE)WINTER STORM	0.085	0.932462	
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	-0.017	0.986255	
## as.factor(EVTYPE)WINTER WEATHER	0.041	0.967663	
## as.factor(EVTYPE)WINTER WEATHER MIX	-0.017	0.986255	
## as.factor(EVTYPE)WINTER WEATHER/MIX	0.176	0.860626	
## as.factor(EVTYPE)WINTERY MIX	0.021	0.983416	
## as.factor(EVTYPE)WINTRY MIX	0.037	0.970705	
## as.factor(EVTYPE)Wet Month	0.044	0.965214	
## as.factor(EVTYPE)Wind	-0.010	0.992241	
## as.factor(EVTYPE)Winter Weather	0.013	0.989497	
## as.factor(EVTYPE)small hail	-0.828	0.407687	
## PROPDMG	3.864	0.000112	***
## as.factor(STATE)AL	1.405	0.160101	
## as.factor(STATE)AM	0.349	0.727175	
## as.factor(STATE)AN	0.397	0.691715	
## as.factor(STATE)AR	1.658	0.097267	.
## as.factor(STATE)AS	-1.071	0.284190	
## as.factor(STATE)AZ	2.077	0.037785	*
## as.factor(STATE)CA	1.328	0.184134	
## as.factor(STATE)CO	0.688	0.491143	
## as.factor(STATE)CT	0.349	0.726902	
## as.factor(STATE)DC	-0.849	0.395636	
## as.factor(STATE)DE	-2.580	0.009880	**
## as.factor(STATE)FL	0.986	0.324223	
## as.factor(STATE)GA	0.575	0.565327	
## as.factor(STATE)GM	0.339	0.734727	
## as.factor(STATE)GU	-1.349	0.177283	
## as.factor(STATE)HI	-1.284	0.199291	
## as.factor(STATE)IA	-0.142	0.886750	
## as.factor(STATE)ID	0.646	0.518014	



## as.factor(STATE)IL	2.130	0.033138	*
## as.factor(STATE)IN	0.865	0.386835	
## as.factor(STATE)KS	0.550	0.582366	
## as.factor(STATE)KY	0.697	0.485492	
## as.factor(STATE)LA	1.108	0.268049	
## as.factor(STATE)LC	0.204	0.838452	
## as.factor(STATE)LE	0.212	0.831757	
## as.factor(STATE)LH	0.261	0.794110	
## as.factor(STATE)LM	0.107	0.915021	
## as.factor(STATE)LO	0.086	0.931537	
## as.factor(STATE)LS	0.218	0.827770	
## as.factor(STATE)MA	-0.006	0.995326	
## as.factor(STATE)MD	0.598	0.549644	
## as.factor(STATE)ME	0.745	0.456139	
## as.factor(STATE)MI	0.548	0.583362	
## as.factor(STATE)MN	0.582	0.560686	
## as.factor(STATE)MO	1.045	0.296227	
## as.factor(STATE)MS	1.764	0.077700	.
## as.factor(STATE)MT	0.797	0.425492	
## as.factor(STATE)NC	1.168	0.242898	
## as.factor(STATE)ND	0.488	0.625514	
## as.factor(STATE)NE	0.513	0.607888	
## as.factor(STATE)NH	0.366	0.714048	
## as.factor(STATE)NJ	-0.086	0.931795	
## as.factor(STATE)NM	0.808	0.419187	
## as.factor(STATE)NV	0.729	0.465742	
## as.factor(STATE)NY	0.779	0.436258	
## as.factor(STATE)OH	1.019	0.308355	
## as.factor(STATE)OK	0.810	0.418001	
## as.factor(STATE)OR	0.703	0.481996	
## as.factor(STATE)PA	2.066	0.038863	*
## as.factor(STATE)PH	0.078	0.937990	
## as.factor(STATE)PK	0.063	0.950136	
## as.factor(STATE)PM	0.045	0.963844	
## as.factor(STATE)PR	0.300	0.763992	
## as.factor(STATE)PZ	0.544	0.586179	
## as.factor(STATE)RI	-0.151	0.880287	
## as.factor(STATE)SC	0.795	0.426559	
## as.factor(STATE)SD	0.604	0.545664	
## as.factor(STATE)SL	0.057	0.954487	
## as.factor(STATE)TN	1.318	0.187618	
## as.factor(STATE)TX	0.857	0.391407	
## as.factor(STATE)UT	0.285	0.775926	
## as.factor(STATE)VA	0.679	0.497019	
## as.factor(STATE)VI	-0.262	0.793521	
## as.factor(STATE)VT	0.843	0.399017	
## as.factor(STATE)WA	0.991	0.321590	
## as.factor(STATE)WI	0.789	0.430056	
## as.factor(STATE)WV	1.073	0.283070	
## as.factor(STATE)WY	0.312	0.755325	
## as.factor(F)0	-0.070	0.944552	
## as.factor(F)1	0.287	0.774216	
## as.factor(F)2	0.904	0.365828	
## as.factor(F)3	12.367	< 2e-16	***

## as.factor(F)4	67.079	< 2e-16	***
## as.factor(F)5	36.354	< 2e-16	***
## as.factor(MAG)1.00	0.180	0.857407	
## as.factor(MAG)100.00	0.208	0.835153	
## as.factor(MAG)101.00	-0.039	0.969277	
## as.factor(MAG)103.00	-0.014	0.989135	
## as.factor(MAG)104.00	-0.013	0.989402	
## as.factor(MAG)105.00	-0.040	0.968323	
## as.factor(MAG)106.00	-0.001	0.999565	
## as.factor(MAG)110.00	0.042	0.966174	
## as.factor(MAG)111.00	-0.062	0.950342	
## as.factor(MAG)112.00	0.012	0.990805	
## as.factor(MAG)113.00	0.022	0.982093	
## as.factor(MAG)115.00	-0.025	0.980300	
## as.factor(MAG)116.00	-0.047	0.962625	
## as.factor(MAG)120.00	-0.017	0.986744	
## as.factor(MAG)125.00	0.190	0.849455	
## as.factor(MAG)139.00	-0.008	0.993905	
## as.factor(MAG)140.00	0.027	0.978112	
## as.factor(MAG)150.00	0.234	0.814843	
## as.factor(MAG)160.00	0.015	0.987724	
## as.factor(MAG)165.00	0.029	0.976787	
## as.factor(MAG)175.00	0.196	0.844651	
## as.factor(MAG)176.00	0.015	0.987652	
## as.factor(MAG)180.00	0.032	0.974768	
## as.factor(MAG)188.00	0.022	0.982093	
## as.factor(MAG)2.00	0.170	0.864888	
## as.factor(MAG)200.00	0.193	0.847247	
## as.factor(MAG)22.00	-0.082	0.934901	
## as.factor(MAG)225.00	0.049	0.961096	
## as.factor(MAG)25.00	3.112	0.001860	**
## as.factor(MAG)250.00	0.181	0.856232	
## as.factor(MAG)260.00	0.066	0.947454	
## as.factor(MAG)27.00	-0.038	0.969658	
## as.factor(MAG)275.00	0.131	0.895894	
## as.factor(MAG)29.00	-0.099	0.920879	
## as.factor(MAG)3.00	0.090	0.928262	
## as.factor(MAG)30.00	3.371	0.000750	***
## as.factor(MAG)300.00	0.185	0.853532	
## as.factor(MAG)31.00	-0.011	0.991521	
## as.factor(MAG)32.00	-0.031	0.975247	
## as.factor(MAG)325.00	0.039	0.968832	
## as.factor(MAG)33.00	1.242	0.214404	
## as.factor(MAG)34.00	0.283	0.777044	
## as.factor(MAG)35.00	0.359	0.719796	
## as.factor(MAG)350.00	0.081	0.935414	
## as.factor(MAG)36.00	0.018	0.985851	
## as.factor(MAG)360.00	-0.024	0.980537	
## as.factor(MAG)37.00	-0.196	0.844955	
## as.factor(MAG)375.00	0.022	0.982393	
## as.factor(MAG)38.00	0.010	0.991640	
## as.factor(MAG)380.00	-0.174	0.862088	
## as.factor(MAG)39.00	-0.122	0.903212	
## as.factor(MAG)396.00	-0.052	0.958346	

## as.factor(MAG)4.00	-0.024	0.981091
## as.factor(MAG)40.00	0.261	0.794465
## as.factor(MAG)400.00	0.065	0.947979
## as.factor(MAG)41.00	0.264	0.791902
## as.factor(MAG)42.00	0.024	0.980525
## as.factor(MAG)425.00	0.076	0.939154
## as.factor(MAG)43.00	-0.329	0.741907
## as.factor(MAG)44.00	-0.023	0.981727
## as.factor(MAG)45.00	0.457	0.647870
## as.factor(MAG)450.00	0.052	0.958312
## as.factor(MAG)46.00	-0.017	0.986664
## as.factor(MAG)460.00	-0.023	0.981507
## as.factor(MAG)47.00	-0.140	0.888739
## as.factor(MAG)475.00	0.034	0.972499
## as.factor(MAG)48.00	0.557	0.577484
## as.factor(MAG)49.00	-0.142	0.887189
## as.factor(MAG)5.00	0.020	0.983903
## as.factor(MAG)50.00	-0.572	0.567568
## as.factor(MAG)500.00	0.034	0.972525
## as.factor(MAG)51.00	0.272	0.785860
## as.factor(MAG)52.00	0.196	0.844761
## as.factor(MAG)53.00	-0.018	0.985278
## as.factor(MAG)54.00	-0.031	0.975397
## as.factor(MAG)55.00	-0.325	0.745210
## as.factor(MAG)550.00	-0.016	0.987537
## as.factor(MAG)56.00	-0.044	0.964974
## as.factor(MAG)57.00	-0.060	0.952530
## as.factor(MAG)58.00	0.000	0.999685
## as.factor(MAG)59.00	-0.167	0.867371
## as.factor(MAG)6.00	0.015	0.988029
## as.factor(MAG)60.00	-0.071	0.943028
## as.factor(MAG)600.00	0.046	0.963637
## as.factor(MAG)61.00	1.162	0.245143
## as.factor(MAG)62.00	-0.212	0.831945
## as.factor(MAG)63.00	0.319	0.749481
## as.factor(MAG)64.00	-0.107	0.914496
## as.factor(MAG)65.00	-0.168	0.866219
## as.factor(MAG)66.00	-0.065	0.948419
## as.factor(MAG)67.00	-0.083	0.934117
## as.factor(MAG)68.00	0.241	0.809274
## as.factor(MAG)69.00	-0.039	0.969268
## as.factor(MAG)70.00	0.357	0.720799
## as.factor(MAG)71.00	-0.085	0.932513
## as.factor(MAG)72.00	-0.092	0.926307
## as.factor(MAG)73.00	0.590	0.555273
## as.factor(MAG)74.00	0.347	0.728397
## as.factor(MAG)75.00	0.186	0.852561
## as.factor(MAG)76.00	-0.071	0.943668
## as.factor(MAG)77.00	-0.081	0.935502
## as.factor(MAG)78.00	-0.233	0.816062
## as.factor(MAG)79.00	-0.043	0.965887
## as.factor(MAG)8.00	-0.017	0.986109
## as.factor(MAG)80.00	-0.050	0.959754
## as.factor(MAG)81.00	1.565	0.117669

```
## as.factor(MAG)82.00          -0.104 0.917311
## as.factor(MAG)83.00          -0.161 0.871859
## as.factor(MAG)84.00          -0.058 0.953450
## as.factor(MAG)85.00           0.476 0.634282
## as.factor(MAG)86.00           2.336 0.019486 *
## as.factor(MAG)87.00          -0.046 0.963411
## as.factor(MAG)88.00           0.201 0.840548
## as.factor(MAG)89.00          -0.020 0.983749
## as.factor(MAG)9.00           -0.064 0.948667
## as.factor(MAG)90.00          -0.128 0.898377
## as.factor(MAG)91.00          -0.051 0.959594
## as.factor(MAG)92.00           2.207 0.027341 *
## as.factor(MAG)93.00          -0.004 0.997008
## as.factor(MAG)94.00           0.014 0.989075
## as.factor(MAG)95.00          -0.033 0.973284
## as.factor(MAG)96.00          -0.077 0.938537
## as.factor(MAG)98.00          -0.037 0.970244
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.3141 on 89723 degrees of freedom
## Multiple R-squared:  0.1428, Adjusted R-squared:  0.138
## F-statistic: 29.55 on 506 and 89723 DF,  p-value: < 2.2e-16
```

The anova analysis shows wich variables improve the prediction model for Prob>(F) lower than 0.05

```
anova(lm1,lm3,lm4)
```

```
## Analysis of Variance Table
##
## Model 1: FATALITIES ~ as.factor(EVTYPE)
## Model 2: FATALITIES ~ as.factor(EVTYPE) + PROPDMG + as.factor(STATE)
## Model 3: FATALITIES ~ as.factor(EVTYPE) + PROPDMG + as.factor(STATE) +
##          as.factor(F) + as.factor(MAG)
##   Res.Df    RSS  Df Sum of Sq    F    Pr(>F)
## 1  89921 9757.1
## 2  89852 9741.6  69     15.46  2.2714 9.176e-09 ***
## 3  89723 8851.3 129     890.38 69.9657 < 2.2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

PCA analysis

```
Train2<-prcomp(training[, -c("BGN_DATE", "STATE", "EVTYPE", "F", "MAG")], tol=0.04, retx = TRUE, center = TRUE,
summary(Train2)
```

```
## Importance of components:
##              PC1      PC2      PC3      PC4      PC5      PC6      PC7
## Standard deviation    1.3010 1.0869 1.0309 1.0011 0.9797 0.9515 0.88420
## Proportion of Variance 0.2116 0.1477 0.1328 0.1253 0.1200 0.1132 0.09773
## Cumulative Proportion 0.2116 0.3592 0.4921 0.6174 0.7373 0.8505 0.94825
##              PC8
## Standard deviation    0.64342
## Proportion of Variance 0.05175
## Cumulative Proportion 1.00000
```

```
lm5<-lm(PropDMG~as.factor(EVTYPE),data = training)
```

```
summary(lm5)
```

```
##
## Call:
## lm(formula = PropDMG ~ as.factor(EVTYPE), data = training)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -250.0    -9.7    -3.8    -2.4   3489.6
##
## Coefficients:
##                                     Estimate Std. Error
## (Intercept)                      2.156e-09  5.570e+01
## as.factor(EVTYPE) WIND              -2.161e-09  7.877e+01
## as.factor(EVTYPE) APACHE COUNTY       5.000e+00  7.877e+01
## as.factor(EVTYPE) ASTRONOMICAL HIGH TIDE -2.126e-09  5.797e+01
## as.factor(EVTYPE) ASTRONOMICAL LOW TIDE -2.225e-09  5.707e+01
## as.factor(EVTYPE) AVALANCHE           8.557e+00  5.649e+01
## as.factor(EVTYPE) BLACK ICE           -2.142e-09  7.877e+01
## as.factor(EVTYPE) BLIZZARD            1.257e+01  5.580e+01
## as.factor(EVTYPE) BLIZZARD AND EXTREME WIND CHIL -2.126e-09  7.877e+01
## as.factor(EVTYPE) BLOW-OUT TIDES      -2.152e-09  7.877e+01
## as.factor(EVTYPE) BREAKUP FLOODING     2.000e+01  7.877e+01
## as.factor(EVTYPE) COASTAL FLOOD        2.490e+01  5.606e+01
## as.factor(EVTYPE) COASTAL FLOODING     4.419e+01  5.780e+01
## as.factor(EVTYPE) COASTAL FLOODING/EROSION -2.138e-09  7.877e+01
## as.factor(EVTYPE) COASTAL STORM        -2.114e-09  7.877e+01
## as.factor(EVTYPE) COLD                -2.127e-09  6.016e+01
## as.factor(EVTYPE) COLD TEMPERATURES   -2.187e-09  7.877e+01
## as.factor(EVTYPE) COLD WAVE            -2.091e-09  7.877e+01
## as.factor(EVTYPE) COLD WIND CHILL TEMPERATURES -2.158e-09  7.877e+01
## as.factor(EVTYPE) COLD/WIND CHILL      4.808e-01  5.623e+01
## as.factor(EVTYPE) Coastal Flooding     -2.135e-09  6.227e+01
## as.factor(EVTYPE) Cold                 4.000e+00  6.821e+01
## as.factor(EVTYPE) Cold and Frost       -2.173e-09  7.877e+01
## as.factor(EVTYPE) DAMAGING FREEZE     -2.165e-09  7.877e+01
## as.factor(EVTYPE) DENSE FOG            6.341e+00  5.590e+01
## as.factor(EVTYPE) DENSE SMOKE          3.333e+01  6.431e+01
## as.factor(EVTYPE) DROUGHT              2.815e+00  5.581e+01
## as.factor(EVTYPE) DROUGHT/EXCESSIVE HEAT -2.105e-09  7.877e+01
## as.factor(EVTYPE) DRY                 -2.200e-09  6.821e+01
## as.factor(EVTYPE) DRY MICROBURST       1.417e+01  5.797e+01
## as.factor(EVTYPE) DRY MICROBURST WINDS -2.150e-09  7.877e+01
## as.factor(EVTYPE) DUST DEVIL           3.972e+00  5.722e+01
## as.factor(EVTYPE) DUST STORM           1.231e+01  5.676e+01
## as.factor(EVTYPE) DUST STORM/HIGH WINDS 5.000e+01  7.877e+01
## as.factor(EVTYPE) DUSTSTORM           -2.124e-09  7.877e+01
## as.factor(EVTYPE) Dust Devil           5.000e+00  6.821e+01
## as.factor(EVTYPE) EARLY FREEZE        -2.123e-09  7.877e+01
## as.factor(EVTYPE) EARLY SNOWFALL       -2.129e-09  7.877e+01
## as.factor(EVTYPE) EXCESSIVE HEAT       1.344e-01  5.585e+01
## as.factor(EVTYPE) EXCESSIVE RAINFALL   -2.252e-09  7.877e+01
```

## as.factor(EVTYPE)EXCESSIVE SNOW	7.750e+01	6.227e+01
## as.factor(EVTYPE)EXCESSIVE WETNESS	-2.031e-09	7.877e+01
## as.factor(EVTYPE)EXTREME COLD	1.439e+00	5.612e+01
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	6.186e+00	5.598e+01
## as.factor(EVTYPE)EXTREME HEAT	-2.113e-09	7.877e+01
## as.factor(EVTYPE)EXTREME WINDCHILL	-2.178e-09	5.731e+01
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	-2.180e-09	6.431e+01
## as.factor(EVTYPE)Extended Cold	1.000e+02	7.877e+01
## as.factor(EVTYPE)FIRST SNOW	-2.245e-09	7.877e+01
## as.factor(EVTYPE)FLASH FLOOD	2.524e+01	5.570e+01
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	5.000e+01	7.877e+01
## as.factor(EVTYPE)FLASH FLOOD/	5.000e+02	7.877e+01
## as.factor(EVTYPE)FLASH FLOOD/ STREET	2.000e+00	7.877e+01
## as.factor(EVTYPE)FLASH FLOODING	3.106e+01	5.607e+01
## as.factor(EVTYPE)FLASH FLOODS	2.004e+02	6.101e+01
## as.factor(EVTYPE)FLOOD	3.307e+01	5.571e+01
## as.factor(EVTYPE)FLOOD WATCH/	-2.177e-09	7.877e+01
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	3.832e+01	5.618e+01
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	-2.219e-09	6.821e+01
## as.factor(EVTYPE)FLOOD/RAIN/WIND	-2.195e-09	7.877e+01
## as.factor(EVTYPE)FLOODING	1.542e+01	5.797e+01
## as.factor(EVTYPE)FOG	7.353e+00	5.624e+01
## as.factor(EVTYPE)FREEZE	-2.161e-09	6.101e+01
## as.factor(EVTYPE)FREEZING DRIZZLE	1.000e+01	6.821e+01
## as.factor(EVTYPE)FREEZING FOG	-2.138e-09	6.821e+01
## as.factor(EVTYPE)FREEZING RAIN	4.421e+01	5.680e+01
## as.factor(EVTYPE)FREEZING RAIN/SLEET	-2.087e-09	6.821e+01
## as.factor(EVTYPE)FROST	-2.131e-09	5.954e+01
## as.factor(EVTYPE)FROST/FREEZE	4.478e-01	5.590e+01
## as.factor(EVTYPE)FUNNEL	-2.123e-09	6.431e+01
## as.factor(EVTYPE)FUNNEL CLOUD	-2.118e-09	5.573e+01
## as.factor(EVTYPE)FUNNEL CLOUDS	-2.169e-09	5.954e+01
## as.factor(EVTYPE)Flood/Flash Flood	-2.120e-09	7.877e+01
## as.factor(EVTYPE)Freezing Rain	-2.174e-09	7.877e+01
## as.factor(EVTYPE)GLAZE	-1.868e-09	6.821e+01
## as.factor(EVTYPE)GRADIENT WINDS	-2.137e-09	7.877e+01
## as.factor(EVTYPE)GUSTNADO	1.000e+00	7.877e+01
## as.factor(EVTYPE)GUSTY WIND	1.167e+01	6.431e+01
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	2.000e+00	7.877e+01
## as.factor(EVTYPE)GUSTY WINDS	3.333e+00	6.016e+01
## as.factor(EVTYPE)Glaze	2.500e+01	6.821e+01
## as.factor(EVTYPE)Gusty Winds	1.000e+02	7.877e+01
## as.factor(EVTYPE)Gusty wind/rain	2.000e+00	7.877e+01
## as.factor(EVTYPE)HAIL	2.401e+00	5.570e+01
## as.factor(EVTYPE)HAIL 0.75	-2.193e-09	6.431e+01
## as.factor(EVTYPE)HAIL 100	-2.129e-09	6.821e+01
## as.factor(EVTYPE)HAIL 175	5.000e-02	6.821e+01
## as.factor(EVTYPE)HAIL 450	2.000e-01	7.877e+01
## as.factor(EVTYPE)HAIL 75	5.000e-01	6.821e+01
## as.factor(EVTYPE)HAIL/WIND	-2.139e-09	7.877e+01
## as.factor(EVTYPE)HARD FREEZE	-2.173e-09	7.877e+01
## as.factor(EVTYPE)HEAT	7.143e-02	5.609e+01
## as.factor(EVTYPE)HEAT WAVE	1.429e-01	5.765e+01
## as.factor(EVTYPE)HEAT/DROUGHT	-2.090e-09	7.877e+01

## as.factor(EVTYPE)HEAVY LAKE SNOW	-2.168e-09	6.227e+01
## as.factor(EVTYPE)HEAVY MIX	1.000e-01	7.877e+01
## as.factor(EVTYPE)HEAVY RAIN	3.660e+00	5.572e+01
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	1.250e+00	6.821e+01
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	-2.148e-09	7.877e+01
## as.factor(EVTYPE)HEAVY RAINS	3.017e+00	6.431e+01
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	2.750e+02	6.821e+01
## as.factor(EVTYPE)HEAVY SEAS	-2.141e-09	7.877e+01
## as.factor(EVTYPE)HEAVY SNOW	8.730e+00	5.571e+01
## as.factor(EVTYPE)HEAVY SNOW AND ICE	-2.279e-09	7.877e+01
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	-2.184e-09	7.877e+01
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	3.200e+01	6.101e+01
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	5.000e+00	7.877e+01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	-2.108e-09	7.877e+01
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	-2.108e-09	7.877e+01
## as.factor(EVTYPE)HEAVY SNOW/ICE	6.000e+02	7.877e+01
## as.factor(EVTYPE)HEAVY SURF	1.875e+01	5.907e+01
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	1.109e+01	5.689e+01
## as.factor(EVTYPE)HIGH	-2.172e-09	7.877e+01
## as.factor(EVTYPE)HIGH SEAS	5.000e+00	6.431e+01
## as.factor(EVTYPE)HIGH SURF	1.480e+01	5.609e+01
## as.factor(EVTYPE)HIGH SURF ADVISORY	-2.488e-09	7.877e+01
## as.factor(EVTYPE)HIGH WATER	-8.724e-10	7.877e+01
## as.factor(EVTYPE)HIGH WAVES	-2.155e-09	7.877e+01
## as.factor(EVTYPE)HIGH WIND	1.690e+01	5.571e+01
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	-2.118e-09	7.877e+01
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	-2.164e-09	7.877e+01
## as.factor(EVTYPE)HIGH WINDS	3.135e+01	5.586e+01
## as.factor(EVTYPE)HIGH WINDS 63	-2.183e-09	7.877e+01
## as.factor(EVTYPE)HIGH WINDS 66	-2.124e-09	7.877e+01
## as.factor(EVTYPE)HURRICANE	1.071e+02	5.707e+01
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	1.000e-01	7.877e+01
## as.factor(EVTYPE)HURRICANE/TYPHOON	3.671e+01	5.797e+01
## as.factor(EVTYPE)Hail(0.75)	-2.124e-09	7.877e+01
## as.factor(EVTYPE)Heavy Rain	-2.066e-09	6.821e+01
## as.factor(EVTYPE)Heavy Rain and Wind	-2.145e-09	7.877e+01
## as.factor(EVTYPE)ICE	8.333e+01	6.016e+01
## as.factor(EVTYPE)ICE STORM	4.568e+01	5.583e+01
## as.factor(EVTYPE)ICY ROADS	1.375e+01	6.821e+01
## as.factor(EVTYPE)Ice Fog	-2.117e-09	7.877e+01
## as.factor(EVTYPE)LACK OF SNOW	-2.189e-09	7.877e+01
## as.factor(EVTYPE)LAKE EFFECT SNOW	-2.112e-09	6.431e+01
## as.factor(EVTYPE)LAKE-EFFECT SNOW	2.388e+01	5.607e+01
## as.factor(EVTYPE)LAKESHORE FLOOD	-2.166e-09	6.821e+01
## as.factor(EVTYPE)LANDSLIDE	1.172e+01	5.617e+01
## as.factor(EVTYPE)LANDSLIDES	-2.103e-09	6.821e+01
## as.factor(EVTYPE)LATE FREEZE	-2.127e-09	7.877e+01
## as.factor(EVTYPE)LIGHT FREEZING RAIN	1.800e+01	6.821e+01
## as.factor(EVTYPE)LIGHT SNOW	1.459e+01	5.731e+01
## as.factor(EVTYPE)LIGHTING	-2.124e-09	7.877e+01
## as.factor(EVTYPE)LIGHTNING	3.761e+01	5.571e+01
## as.factor(EVTYPE)LOCAL FLOOD	-2.128e-09	7.877e+01
## as.factor(EVTYPE)LOW TEMPERATURE	-2.143e-09	7.877e+01
## as.factor(EVTYPE)Late Season Snowfall	-2.170e-09	6.821e+01

## as.factor(EVTYPE)Light Snow	1.000e+01	7.877e+01
## as.factor(EVTYPE)Light Snow/Flurries	-2.101e-09	7.877e+01
## as.factor(EVTYPE)MARINE HAIL	-2.129e-09	5.639e+01
## as.factor(EVTYPE)MARINE HIGH WIND	1.122e+01	5.871e+01
## as.factor(EVTYPE)MARINE STRONG WIND	8.144e+00	5.954e+01
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	2.060e-01	5.575e+01
## as.factor(EVTYPE)MARINE TSTM WIND	1.284e-01	5.574e+01
## as.factor(EVTYPE)MICROBURST WINDS	-2.152e-09	7.877e+01
## as.factor(EVTYPE)MIXED PRECIP	-2.165e-09	7.877e+01
## as.factor(EVTYPE)MIXED PRECIPITATION	1.275e+01	6.227e+01
## as.factor(EVTYPE)MODERATE SNOWFALL	-2.132e-09	5.871e+01
## as.factor(EVTYPE)MONTHLY PRECIPITATION	-2.149e-09	5.954e+01
## as.factor(EVTYPE)MUD SLIDE	5.000e+02	7.877e+01
## as.factor(EVTYPE)MUDSLIDE	-2.199e-09	7.877e+01
## as.factor(EVTYPE)Marine Accident	5.000e+01	7.877e+01
## as.factor(EVTYPE)Microburst	-2.113e-09	7.877e+01
## as.factor(EVTYPE)Minor Flooding	-2.125e-09	7.877e+01
## as.factor(EVTYPE)Mixed Precipitation	1.500e+02	7.877e+01
## as.factor(EVTYPE)Mudslide	-2.086e-09	6.821e+01
## as.factor(EVTYPE)NON SEVERE HAIL	-2.125e-09	7.877e+01
## as.factor(EVTYPE)OTHER	1.000e+00	6.101e+01
## as.factor(EVTYPE)Other	-2.158e-09	7.877e+01
## as.factor(EVTYPE)PATCHY DENSE FOG	-2.146e-09	7.877e+01
## as.factor(EVTYPE)PROLONG COLD	-2.116e-09	6.821e+01
## as.factor(EVTYPE)PROLONG WARMTH	-2.135e-09	7.877e+01
## as.factor(EVTYPE)RAIN	3.333e+01	6.431e+01
## as.factor(EVTYPE)RAIN/SNOW	-2.159e-09	7.877e+01
## as.factor(EVTYPE)RECORD COLD	-2.207e-09	7.877e+01
## as.factor(EVTYPE)RECORD COLD	-2.212e-09	6.431e+01
## as.factor(EVTYPE)RECORD HEAT	-2.117e-09	6.101e+01
## as.factor(EVTYPE)RECORD RAINFALL	-2.090e-09	6.821e+01
## as.factor(EVTYPE)RECORD SNOW	5.000e+02	7.877e+01
## as.factor(EVTYPE)RECORD WARMTH	-2.140e-09	5.731e+01
## as.factor(EVTYPE)REMNANTS OF FLOYD	-2.115e-09	7.877e+01
## as.factor(EVTYPE)RIP CURRENT	-2.156e-09	5.622e+01
## as.factor(EVTYPE)RIP CURRENTS	-2.174e-09	5.656e+01
## as.factor(EVTYPE)RIVER FLOOD	2.264e+01	5.817e+01
## as.factor(EVTYPE)RIVER FLOODING	7.500e+00	6.821e+01
## as.factor(EVTYPE)Record Warmth	-2.105e-09	6.821e+01
## as.factor(EVTYPE)Record temperature	-2.172e-09	6.821e+01
## as.factor(EVTYPE)SEICHE	2.750e+02	6.431e+01
## as.factor(EVTYPE)SEVERE COLD	-2.143e-09	7.877e+01
## as.factor(EVTYPE)SEVERE THUNDERSTORM	6.000e-01	6.821e+01
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	-2.111e-09	6.821e+01
## as.factor(EVTYPE)SLEET	-2.134e-09	6.821e+01
## as.factor(EVTYPE)SLEET & FREEZING RAIN	-2.138e-09	7.877e+01
## as.factor(EVTYPE)SMALL HAIL	-2.172e-09	5.871e+01
## as.factor(EVTYPE)SMALL STREAM FLOODING	-2.147e-09	7.877e+01
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	-2.142e-09	7.877e+01
## as.factor(EVTYPE)SMOKE	-2.096e-09	7.877e+01
## as.factor(EVTYPE)SNOW	9.931e+00	5.608e+01
## as.factor(EVTYPE)SNOW AND COLD	-2.112e-09	7.877e+01
## as.factor(EVTYPE)SNOW AND ICE	-2.197e-09	6.821e+01
## as.factor(EVTYPE)SNOW AND SLEET	-2.123e-09	7.877e+01



## as.factor(EVTYPE)SNOW SQUALL	5.000e+01	7.877e+01
## as.factor(EVTYPE)SNOW SQUALLS	2.500e+00	6.821e+01
## as.factor(EVTYPE)SNOW/BLOWING SNOW	1.667e+01	6.431e+01
## as.factor(EVTYPE)SNOW/FREEZING RAIN	-2.170e-09	7.877e+01
## as.factor(EVTYPE)SNOW/SLEET	2.000e-01	7.877e+01
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	-2.107e-09	7.877e+01
## as.factor(EVTYPE)SNOW\COLD	-2.189e-09	7.877e+01
## as.factor(EVTYPE)STORM SURGE	1.029e+02	5.707e+01
## as.factor(EVTYPE)STORM SURGE/TIDE	1.145e+01	5.817e+01
## as.factor(EVTYPE)STREET FLOOD	-2.133e-09	7.877e+01
## as.factor(EVTYPE)STRONG WIND	1.489e+01	5.577e+01
## as.factor(EVTYPE)STRONG WINDS	4.737e+00	5.714e+01
## as.factor(EVTYPE)Snow	-2.205e-09	6.821e+01
## as.factor(EVTYPE)Snow Squalls	4.000e+01	7.877e+01
## as.factor(EVTYPE)Snow and Ice	-2.139e-09	7.877e+01
## as.factor(EVTYPE)Strong Winds	-2.160e-09	7.877e+01
## as.factor(EVTYPE)Summary of April 12	-2.169e-09	7.877e+01
## as.factor(EVTYPE)Summary of July 29	-2.152e-09	7.877e+01
## as.factor(EVTYPE)Summary of July 3	-2.165e-09	7.877e+01
## as.factor(EVTYPE)Summary of June 11	-2.123e-09	7.877e+01
## as.factor(EVTYPE)Summary of March 14	-2.119e-09	7.877e+01
## as.factor(EVTYPE)Summary of May 10	-2.156e-09	7.877e+01
## as.factor(EVTYPE)Summary: October 31	-2.148e-09	7.877e+01
## as.factor(EVTYPE)THUNDEERSTORM WINDS	-2.143e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM	2.858e+01	5.954e+01
## as.factor(EVTYPE)THUNDERSTORM WINDS	2.500e+00	6.821e+01
## as.factor(EVTYPE)THUNDERSTORM WIND	1.040e+01	5.570e+01
## as.factor(EVTYPE)THUNDERSTORM WIND 56	-2.125e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	-2.123e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WIND G60	-2.179e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WIND G61	-2.084e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	1.000e+00	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	2.000e+00	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	5.000e-01	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WINDS	1.915e+01	5.571e+01
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	-2.120e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	1.789e+01	5.871e+01
## as.factor(EVTYPE)THUNDERSTORM WINDS.	5.000e+00	7.877e+01
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	2.750e+01	6.821e+01
## as.factor(EVTYPE)THUNDERSTORM WINDSS	1.833e+00	6.431e+01
## as.factor(EVTYPE)THUNDERSTORMS	-2.114e-09	7.877e+01
## as.factor(EVTYPE)THUNDERSTORMS WINDS	-2.055e-09	7.877e+01
## as.factor(EVTYPE)TIDAL FLOODING	-2.130e-09	7.877e+01
## as.factor(EVTYPE)TORNADO	5.230e+01	5.570e+01
## as.factor(EVTYPE)TORNADO DEBRIS	-2.130e-09	7.877e+01
## as.factor(EVTYPE)TORNADO FO	1.000e-01	6.821e+01
## as.factor(EVTYPE)TORRENTIAL RAIN	-2.104e-09	7.877e+01
## as.factor(EVTYPE)TROPICAL DEPRESSION	5.714e+00	5.954e+01
## as.factor(EVTYPE)TROPICAL STORM	5.759e+01	5.619e+01
## as.factor(EVTYPE)TSTM WIND	5.776e+00	5.570e+01
## as.factor(EVTYPE)TSTM WIND (G40)	5.500e+00	6.821e+01
## as.factor(EVTYPE)TSTM WIND (G45)	5.000e+00	6.821e+01
## as.factor(EVTYPE)TSTM WIND 51	-2.129e-09	7.877e+01
## as.factor(EVTYPE)TSTM WIND 52	-2.150e-09	7.877e+01

## as.factor(EVTYPE)TSTM WIND/HAIL	8.400e+00	5.597e+01
## as.factor(EVTYPE)TSUNAMI	1.330e+01	6.821e+01
## as.factor(EVTYPE)Temperature record	-2.122e-09	6.821e+01
## as.factor(EVTYPE)Tidal Flooding	-2.133e-09	7.877e+01
## as.factor(EVTYPE)UNSEASONABLY COLD	-2.133e-09	6.227e+01
## as.factor(EVTYPE)UNSEASONABLY COOL	-2.147e-09	6.821e+01
## as.factor(EVTYPE)UNSEASONABLY DRY	-2.138e-09	6.101e+01
## as.factor(EVTYPE)UNSEASONABLY HOT	-2.117e-09	7.877e+01
## as.factor(EVTYPE)UNSEASONABLY WARM	-2.144e-09	5.780e+01
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	-2.141e-09	6.101e+01
## as.factor(EVTYPE)UNSEASONABLY WET	-2.136e-09	6.821e+01
## as.factor(EVTYPE)UNSEASONAL RAIN	-2.169e-09	7.877e+01
## as.factor(EVTYPE)UNUSUAL WARMTH	-2.143e-09	6.821e+01
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	-2.163e-09	7.877e+01
## as.factor(EVTYPE)UNUSUALLY COLD	-2.160e-09	7.877e+01
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN	-2.164e-09	7.877e+01
## as.factor(EVTYPE)URBAN FLOOD	6.972e+01	5.680e+01
## as.factor(EVTYPE)URBAN FLOODING	5.627e+01	5.780e+01
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD	-2.163e-09	7.877e+01
## as.factor(EVTYPE)URBAN/SMALL STREAM	5.000e+00	7.877e+01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-2.151e-09	7.877e+01
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD	-2.130e-09	6.821e+01
## as.factor(EVTYPE)URBAN/SML STREAM FLD	7.045e+00	5.578e+01
## as.factor(EVTYPE)URBAN/STREET FLOODING	-2.166e-09	7.877e+01
## as.factor(EVTYPE)Unseasonable Cold	-2.165e-09	7.877e+01
## as.factor(EVTYPE)VOLCANIC ASH	-2.136e-09	6.431e+01
## as.factor(EVTYPE)VOLCANIC ASHFALL	-2.162e-09	7.877e+01
## as.factor(EVTYPE)WATERSPOUT	1.892e-01	5.577e+01
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD	-2.145e-09	7.877e+01
## as.factor(EVTYPE)WATERSPOUT-	-2.145e-09	7.877e+01
## as.factor(EVTYPE)WATERSPOUT/TORNADO	3.000e+01	6.821e+01
## as.factor(EVTYPE)WATERSPOUTS	-2.122e-09	6.821e+01
## as.factor(EVTYPE)WET MICROBURST	-2.134e-09	7.877e+01
## as.factor(EVTYPE)WILD/FOREST FIRE	2.663e+01	5.589e+01
## as.factor(EVTYPE)WILDFIRE	1.855e+01	5.580e+01
## as.factor(EVTYPE)WILDFIRES	-2.130e-09	7.877e+01
## as.factor(EVTYPE)WIND	1.203e+01	5.656e+01
## as.factor(EVTYPE)WIND ADVISORY	-2.137e-09	6.431e+01
## as.factor(EVTYPE)WIND CHILL	-2.133e-09	6.016e+01
## as.factor(EVTYPE)WIND DAMAGE	-2.135e-09	7.877e+01
## as.factor(EVTYPE)WINDS	-2.100e-09	7.877e+01
## as.factor(EVTYPE)WINTER MIX	-2.156e-09	7.877e+01
## as.factor(EVTYPE)WINTER STORM	9.689e+00	5.572e+01
## as.factor(EVTYPE)WINTER STORM/HIGH WIND	-2.150e-09	7.877e+01
## as.factor(EVTYPE)WINTER WEATHER	8.228e-01	5.574e+01
## as.factor(EVTYPE)WINTER WEATHER MIX	-2.176e-09	7.877e+01
## as.factor(EVTYPE)WINTER WEATHER/MIX	6.522e+00	5.594e+01
## as.factor(EVTYPE)WINTERY MIX	-2.170e-09	7.877e+01
## as.factor(EVTYPE)WINTRY MIX	-2.142e-09	5.780e+01
## as.factor(EVTYPE)Wet Month	-2.136e-09	7.877e+01
## as.factor(EVTYPE)Wind	-2.111e-09	7.877e+01
## as.factor(EVTYPE)Winter Weather	-2.136e-09	7.877e+01
## as.factor(EVTYPE)small hail	-2.129e-09	7.877e+01
##	t value	Pr(> t )

## (Intercept)	0.000	1.00000
## as.factor(EVTYPE) WIND	0.000	1.00000
## as.factor(EVTYPE)APACHE COUNTY	0.063	0.94939
## as.factor(EVTYPE)ASTRONOMICAL HIGH TIDE	0.000	1.00000
## as.factor(EVTYPE)ASTRONOMICAL LOW TIDE	0.000	1.00000
## as.factor(EVTYPE)AVALANCHE	0.151	0.87959
## as.factor(EVTYPE)BLACK ICE	0.000	1.00000
## as.factor(EVTYPE)BLIZZARD	0.225	0.82176
## as.factor(EVTYPE)BLIZZARD AND EXTREME WIND CHIL	0.000	1.00000
## as.factor(EVTYPE)BLOW-OUT TIDES	0.000	1.00000
## as.factor(EVTYPE)BREAKUP FLOODING	0.254	0.79956
## as.factor(EVTYPE)COASTAL FLOOD	0.444	0.65688
## as.factor(EVTYPE)COASTAL FLOODING	0.765	0.44452
## as.factor(EVTYPE)COASTAL FLOODING/EROSION	0.000	1.00000
## as.factor(EVTYPE)COASTAL STORM	0.000	1.00000
## as.factor(EVTYPE)COLD	0.000	1.00000
## as.factor(EVTYPE)COLD TEMPERATURES	0.000	1.00000
## as.factor(EVTYPE)COLD WAVE	0.000	1.00000
## as.factor(EVTYPE)COLD WIND CHILL TEMPERATURES	0.000	1.00000
## as.factor(EVTYPE)COLD/WIND CHILL	0.009	0.99318
## as.factor(EVTYPE)Coastal Flooding	0.000	1.00000
## as.factor(EVTYPE)Cold	0.059	0.95324
## as.factor(EVTYPE)Cold and Frost	0.000	1.00000
## as.factor(EVTYPE)DAMAGING FREEZE	0.000	1.00000
## as.factor(EVTYPE)DENSE FOG	0.113	0.90969
## as.factor(EVTYPE)DENSE SMOKE	0.518	0.60425
## as.factor(EVTYPE)DROUGHT	0.050	0.95978
## as.factor(EVTYPE)DROUGHT/EXCESSIVE HEAT	0.000	1.00000
## as.factor(EVTYPE)DRY	0.000	1.00000
## as.factor(EVTYPE)DRY MICROBURST	0.244	0.80694
## as.factor(EVTYPE)DRY MICROBURST WINDS	0.000	1.00000
## as.factor(EVTYPE)DUST DEVIL	0.069	0.94466
## as.factor(EVTYPE)DUST STORM	0.217	0.82833
## as.factor(EVTYPE)DUST STORM/HIGH WINDS	0.635	0.52557
## as.factor(EVTYPE)DUSTSTORM	0.000	1.00000
## as.factor(EVTYPE)Dust Devil	0.073	0.94157
## as.factor(EVTYPE)EARLY FREEZE	0.000	1.00000
## as.factor(EVTYPE)EARLY SNOWFALL	0.000	1.00000
## as.factor(EVTYPE)EXCESSIVE HEAT	0.002	0.99808
## as.factor(EVTYPE)EXCESSIVE RAINFALL	0.000	1.00000
## as.factor(EVTYPE)EXCESSIVE SNOW	1.245	0.21329
## as.factor(EVTYPE)EXCESSIVE WETNESS	0.000	1.00000
## as.factor(EVTYPE)EXTREME COLD	0.026	0.97954
## as.factor(EVTYPE)EXTREME COLD/WIND CHILL	0.110	0.91202
## as.factor(EVTYPE)EXTREME HEAT	0.000	1.00000
## as.factor(EVTYPE)EXTREME WINDCHILL	0.000	1.00000
## as.factor(EVTYPE)EXTREME WINDCHILL TEMPERATURES	0.000	1.00000
## as.factor(EVTYPE)Extended Cold	1.270	0.20424
## as.factor(EVTYPE)FIRST SNOW	0.000	1.00000
## as.factor(EVTYPE)FLASH FLOOD	0.453	0.65045
## as.factor(EVTYPE)FLASH FLOOD LANDSLIDES	0.635	0.52557
## as.factor(EVTYPE)FLASH FLOOD/	6.348	2.19e-10 ***
## as.factor(EVTYPE)FLASH FLOOD/ STREET	0.025	0.97974
## as.factor(EVTYPE)FLASH FLOODING	0.554	0.57958

## as.factor(EVTYPE)FLASH FLOODS	3.285	0.00102	**
## as.factor(EVTYPE)FLOOD	0.594	0.55276	
## as.factor(EVTYPE)FLOOD WATCH/	0.000	1.00000	
## as.factor(EVTYPE)FLOOD/FLASH FLOOD	0.682	0.49525	
## as.factor(EVTYPE)FLOOD/FLASH FLOODING	0.000	1.00000	
## as.factor(EVTYPE)FLOOD/RAIN/WIND	0.000	1.00000	
## as.factor(EVTYPE)FLOODING	0.266	0.79029	
## as.factor(EVTYPE)FOG	0.131	0.89598	
## as.factor(EVTYPE)FREEZE	0.000	1.00000	
## as.factor(EVTYPE)FREEZING DRIZZLE	0.147	0.88345	
## as.factor(EVTYPE)FREEZING FOG	0.000	1.00000	
## as.factor(EVTYPE)FREEZING RAIN	0.778	0.43638	
## as.factor(EVTYPE)FREEZING RAIN/SLEET	0.000	1.00000	
## as.factor(EVTYPE)FROST	0.000	1.00000	
## as.factor(EVTYPE)FROST/FREEZE	0.008	0.99361	
## as.factor(EVTYPE)FUNNEL	0.000	1.00000	
## as.factor(EVTYPE)FUNNEL CLOUD	0.000	1.00000	
## as.factor(EVTYPE)FUNNEL CLOUDS	0.000	1.00000	
## as.factor(EVTYPE)Flood/Flash Flood	0.000	1.00000	
## as.factor(EVTYPE)Freezing Rain	0.000	1.00000	
## as.factor(EVTYPE)GLAZE	0.000	1.00000	
## as.factor(EVTYPE)GRADIENT WINDS	0.000	1.00000	
## as.factor(EVTYPE)GUSTNADO	0.013	0.98987	
## as.factor(EVTYPE)GUSTY WIND	0.181	0.85605	
## as.factor(EVTYPE)GUSTY WIND/HVY RAIN	0.025	0.97974	
## as.factor(EVTYPE)GUSTY WINDS	0.055	0.95581	
## as.factor(EVTYPE)Glaze	0.366	0.71400	
## as.factor(EVTYPE)Gusty Winds	1.270	0.20424	
## as.factor(EVTYPE)Gusty wind/rain	0.025	0.97974	
## as.factor(EVTYPE)HAIL	0.043	0.96561	
## as.factor(EVTYPE)HAIL 0.75	0.000	1.00000	
## as.factor(EVTYPE)HAIL 100	0.000	1.00000	
## as.factor(EVTYPE)HAIL 175	0.001	0.99942	
## as.factor(EVTYPE)HAIL 450	0.003	0.99797	
## as.factor(EVTYPE)HAIL 75	0.007	0.99415	
## as.factor(EVTYPE)HAIL/WIND	0.000	1.00000	
## as.factor(EVTYPE)HARD FREEZE	0.000	1.00000	
## as.factor(EVTYPE)HEAT	0.001	0.99898	
## as.factor(EVTYPE)HEAT WAVE	0.002	0.99802	
## as.factor(EVTYPE)HEAT/DROUGHT	0.000	1.00000	
## as.factor(EVTYPE)HEAVY LAKE SNOW	0.000	1.00000	
## as.factor(EVTYPE)HEAVY MIX	0.001	0.99899	
## as.factor(EVTYPE)HEAVY RAIN	0.066	0.94763	
## as.factor(EVTYPE)HEAVY RAIN/SEVERE WEATHER	0.018	0.98538	
## as.factor(EVTYPE)HEAVY RAIN/URBAN FLOOD	0.000	1.00000	
## as.factor(EVTYPE)HEAVY RAINS	0.047	0.96259	
## as.factor(EVTYPE)HEAVY RAINS/FLOODING	4.031	5.55e-05	***
## as.factor(EVTYPE)HEAVY SEAS	0.000	1.00000	
## as.factor(EVTYPE)HEAVY SNOW	0.157	0.87548	
## as.factor(EVTYPE)HEAVY SNOW AND ICE	0.000	1.00000	
## as.factor(EVTYPE)HEAVY SNOW AND ICE STORM	0.000	1.00000	
## as.factor(EVTYPE)HEAVY SNOW SQUALLS	0.524	0.59994	
## as.factor(EVTYPE)HEAVY SNOW-SQUALLS	0.063	0.94939	
## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS	0.000	1.00000	

## as.factor(EVTYPE)HEAVY SNOW/HIGH WINDS/FREEZING	0.000	1.00000	
## as.factor(EVTYPE)HEAVY SNOW/ICE	7.617	2.61e-14	***
## as.factor(EVTYPE)HEAVY SURF	0.317	0.75095	
## as.factor(EVTYPE)HEAVY SURF/HIGH SURF	0.195	0.84550	
## as.factor(EVTYPE)HIGH	0.000	1.00000	
## as.factor(EVTYPE)HIGH SEAS	0.078	0.93803	
## as.factor(EVTYPE)HIGH SURF	0.264	0.79196	
## as.factor(EVTYPE)HIGH SURF ADVISORY	0.000	1.00000	
## as.factor(EVTYPE)HIGH WATER	0.000	1.00000	
## as.factor(EVTYPE)HIGH WAVES	0.000	1.00000	
## as.factor(EVTYPE)HIGH WIND	0.303	0.76159	
## as.factor(EVTYPE)HIGH WIND AND HEAVY SNOW	0.000	1.00000	
## as.factor(EVTYPE)HIGH WIND/ BLIZZARD	0.000	1.00000	
## as.factor(EVTYPE)HIGH WINDS	0.561	0.57469	
## as.factor(EVTYPE)HIGH WINDS 63	0.000	1.00000	
## as.factor(EVTYPE)HIGH WINDS 66	0.000	1.00000	
## as.factor(EVTYPE)HURRICANE	1.877	0.06047	.
## as.factor(EVTYPE)HURRICANE OPAL/HIGH WINDS	0.001	0.99899	
## as.factor(EVTYPE)HURRICANE/TYPHOON	0.633	0.52651	
## as.factor(EVTYPE)Hail(0.75)	0.000	1.00000	
## as.factor(EVTYPE)Heavy Rain	0.000	1.00000	
## as.factor(EVTYPE)Heavy Rain and Wind	0.000	1.00000	
## as.factor(EVTYPE)ICE	1.385	0.16599	
## as.factor(EVTYPE)ICE STORM	0.818	0.41322	
## as.factor(EVTYPE)ICY ROADS	0.202	0.84025	
## as.factor(EVTYPE)Ice Fog	0.000	1.00000	
## as.factor(EVTYPE)LACK OF SNOW	0.000	1.00000	
## as.factor(EVTYPE)LAKE EFFECT SNOW	0.000	1.00000	
## as.factor(EVTYPE)LAKE-EFFECT SNOW	0.426	0.67021	
## as.factor(EVTYPE)LAKESHORE FLOOD	0.000	1.00000	
## as.factor(EVTYPE)LANDSLIDE	0.209	0.83480	
## as.factor(EVTYPE)LANDSLIDES	0.000	1.00000	
## as.factor(EVTYPE)LATE FREEZE	0.000	1.00000	
## as.factor(EVTYPE)LIGHT FREEZING RAIN	0.264	0.79188	
## as.factor(EVTYPE)LIGHT SNOW	0.255	0.79908	
## as.factor(EVTYPE)LIGHTING	0.000	1.00000	
## as.factor(EVTYPE)LIGHTNING	0.675	0.49966	
## as.factor(EVTYPE)LOCAL FLOOD	0.000	1.00000	
## as.factor(EVTYPE)LOW TEMPERATURE	0.000	1.00000	
## as.factor(EVTYPE)Late Season Snowfall	0.000	1.00000	
## as.factor(EVTYPE)Light Snow	0.127	0.89897	
## as.factor(EVTYPE)Light Snow/Flurries	0.000	1.00000	
## as.factor(EVTYPE)MARINE HAIL	0.000	1.00000	
## as.factor(EVTYPE)MARINE HIGH WIND	0.191	0.84841	
## as.factor(EVTYPE)MARINE STRONG WIND	0.137	0.89120	
## as.factor(EVTYPE)MARINE THUNDERSTORM WIND	0.004	0.99705	
## as.factor(EVTYPE)MARINE TSTM WIND	0.002	0.99816	
## as.factor(EVTYPE)MICROBURST WINDS	0.000	1.00000	
## as.factor(EVTYPE)MIXED PRECIP	0.000	1.00000	
## as.factor(EVTYPE)MIXED PRECIPITATION	0.205	0.83777	
## as.factor(EVTYPE)MODERATE SNOWFALL	0.000	1.00000	
## as.factor(EVTYPE)MONTHLY PRECIPITATION	0.000	1.00000	
## as.factor(EVTYPE)MUD SLIDE	6.348	2.19e-10	***
## as.factor(EVTYPE)MUDSLIDE	0.000	1.00000	

## as.factor(EVTYPE)Marine Accident	0.635	0.52557	
## as.factor(EVTYPE)Microburst	0.000	1.00000	
## as.factor(EVTYPE)Minor Flooding	0.000	1.00000	
## as.factor(EVTYPE)Mixed Precipitation	1.904	0.05687	.
## as.factor(EVTYPE)Mudslide	0.000	1.00000	
## as.factor(EVTYPE)NON SEVERE HAIL	0.000	1.00000	
## as.factor(EVTYPE)OTHER	0.016	0.98692	
## as.factor(EVTYPE)Other	0.000	1.00000	
## as.factor(EVTYPE)PATCHY DENSE FOG	0.000	1.00000	
## as.factor(EVTYPE)PROLONG COLD	0.000	1.00000	
## as.factor(EVTYPE)PROLONG WARMTH	0.000	1.00000	
## as.factor(EVTYPE)RAIN	0.518	0.60425	
## as.factor(EVTYPE)RAIN/SNOW	0.000	1.00000	
## as.factor(EVTYPE)RECORD COLD	0.000	1.00000	
## as.factor(EVTYPE)RECORD COLD	0.000	1.00000	
## as.factor(EVTYPE)RECORD HEAT	0.000	1.00000	
## as.factor(EVTYPE)RECORD RAINFALL	0.000	1.00000	
## as.factor(EVTYPE)RECORD SNOW	6.348	2.19e-10	***
## as.factor(EVTYPE)RECORD WARMTH	0.000	1.00000	
## as.factor(EVTYPE)REMNANTS OF FLOYD	0.000	1.00000	
## as.factor(EVTYPE)RIP CURRENT	0.000	1.00000	
## as.factor(EVTYPE)RIP CURRENTS	0.000	1.00000	
## as.factor(EVTYPE)RIVER FLOOD	0.389	0.69719	
## as.factor(EVTYPE)RIVER FLOODING	0.110	0.91245	
## as.factor(EVTYPE)Record Warmth	0.000	1.00000	
## as.factor(EVTYPE)Record temperature	0.000	1.00000	
## as.factor(EVTYPE)SEICHE	4.276	1.90e-05	***
## as.factor(EVTYPE)SEVERE COLD	0.000	1.00000	
## as.factor(EVTYPE)SEVERE THUNDERSTORM	0.009	0.99298	
## as.factor(EVTYPE)SEVERE THUNDERSTORMS	0.000	1.00000	
## as.factor(EVTYPE)SLEET	0.000	1.00000	
## as.factor(EVTYPE)SLEET & FREEZING RAIN	0.000	1.00000	
## as.factor(EVTYPE)SMALL HAIL	0.000	1.00000	
## as.factor(EVTYPE)SMALL STREAM FLOODING	0.000	1.00000	
## as.factor(EVTYPE)SMALL STREAM/URBAN FLOOD	0.000	1.00000	
## as.factor(EVTYPE)SMOKE	0.000	1.00000	
## as.factor(EVTYPE)SNOW	0.177	0.85945	
## as.factor(EVTYPE)SNOW AND COLD	0.000	1.00000	
## as.factor(EVTYPE)SNOW AND ICE	0.000	1.00000	
## as.factor(EVTYPE)SNOW AND SLEET	0.000	1.00000	
## as.factor(EVTYPE)SNOW SQUALL	0.635	0.52557	
## as.factor(EVTYPE)SNOW SQUALLS	0.037	0.97076	
## as.factor(EVTYPE)SNOW/BLOWING SNOW	0.259	0.79552	
## as.factor(EVTYPE)SNOW/FREEZING RAIN	0.000	1.00000	
## as.factor(EVTYPE)SNOW/SLEET	0.003	0.99797	
## as.factor(EVTYPE)SNOW/SLEET/FREEZING RAIN	0.000	1.00000	
## as.factor(EVTYPE)SNOW\COLD	0.000	1.00000	
## as.factor(EVTYPE)STORM SURGE	1.804	0.07131	.
## as.factor(EVTYPE)STORM SURGE/TIDE	0.197	0.84390	
## as.factor(EVTYPE)STREET FLOOD	0.000	1.00000	
## as.factor(EVTYPE)STRONG WIND	0.267	0.78948	
## as.factor(EVTYPE)STRONG WINDS	0.083	0.93394	
## as.factor(EVTYPE)Snow	0.000	1.00000	
## as.factor(EVTYPE)Snow Squalls	0.508	0.61157	

## as.factor(EVTYPE)Snow and Ice	0.000	1.00000
## as.factor(EVTYPE)Strong Winds	0.000	1.00000
## as.factor(EVTYPE)Summary of April 12	0.000	1.00000
## as.factor(EVTYPE)Summary of July 29	0.000	1.00000
## as.factor(EVTYPE)Summary of July 3	0.000	1.00000
## as.factor(EVTYPE)Summary of June 11	0.000	1.00000
## as.factor(EVTYPE)Summary of March 14	0.000	1.00000
## as.factor(EVTYPE)Summary of May 10	0.000	1.00000
## as.factor(EVTYPE)Summary: October 31	0.000	1.00000
## as.factor(EVTYPE)THUNDEERSTORM WINDS	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM	0.480	0.63125
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.037	0.97076
## as.factor(EVTYPE)THUNDERSTORM WIND	0.187	0.85190
## as.factor(EVTYPE)THUNDERSTORM WIND 56	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND 60 MPH	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND G60	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND G61	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WIND/ TREE	0.013	0.98987
## as.factor(EVTYPE)THUNDERSTORM WIND/AWNING	0.025	0.97974
## as.factor(EVTYPE)THUNDERSTORM WIND/HAIL	0.006	0.99494
## as.factor(EVTYPE)THUNDERSTORM WINDS	0.344	0.73102
## as.factor(EVTYPE)THUNDERSTORM WINDS 53	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORM WINDS HAIL	0.305	0.76059
## as.factor(EVTYPE)THUNDERSTORM WINDS.	0.063	0.94939
## as.factor(EVTYPE)THUNDERSTORM WINDS/HAIL	0.403	0.68684
## as.factor(EVTYPE)THUNDERSTORM WINDSS	0.029	0.97726
## as.factor(EVTYPE)THUNDERSTORMS	0.000	1.00000
## as.factor(EVTYPE)THUNDERSTORMS WINDS	0.000	1.00000
## as.factor(EVTYPE)TIDAL FLOODING	0.000	1.00000
## as.factor(EVTYPE)TORNADO	0.939	0.34777
## as.factor(EVTYPE)TORNADO DEBRIS	0.000	1.00000
## as.factor(EVTYPE)TORNADO FO	0.001	0.99883
## as.factor(EVTYPE)TORRENTIAL RAIN	0.000	1.00000
## as.factor(EVTYPE)TROPICAL DEPRESSION	0.096	0.92354
## as.factor(EVTYPE)TROPICAL STORM	1.025	0.30540
## as.factor(EVTYPE)TSTM WIND	0.104	0.91740
## as.factor(EVTYPE)TSTM WIND (G40)	0.081	0.93574
## as.factor(EVTYPE)TSTM WIND (G45)	0.073	0.94157
## as.factor(EVTYPE)TSTM WIND 51	0.000	1.00000
## as.factor(EVTYPE)TSTM WIND 52	0.000	1.00000
## as.factor(EVTYPE)TSTM WIND/HAIL	0.150	0.88070
## as.factor(EVTYPE)TSUNAMI	0.195	0.84541
## as.factor(EVTYPE)Temperature record	0.000	1.00000
## as.factor(EVTYPE)Tidal Flooding	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY COLD	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY COOL	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY DRY	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY HOT	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY WARM	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY WARM AND DRY	0.000	1.00000
## as.factor(EVTYPE)UNSEASONABLY WET	0.000	1.00000
## as.factor(EVTYPE)UNSEASONAL RAIN	0.000	1.00000
## as.factor(EVTYPE)UNUSUAL WARMTH	0.000	1.00000
## as.factor(EVTYPE)UNUSUAL/RECORD WARMTH	0.000	1.00000

```

## as.factor(EVTYPE)UNUSUALLY COLD          0.000  1.00000
## as.factor(EVTYPE)URBAN AND SMALL STREAM FLOODIN 0.000  1.00000
## as.factor(EVTYPE)URBAN FLOOD              1.227  0.21965
## as.factor(EVTYPE)URBAN FLOODING           0.974  0.33026
## as.factor(EVTYPE)URBAN SMALL STREAM FLOOD    0.000  1.00000
## as.factor(EVTYPE)URBAN/SMALL STREAM         0.063  0.94939
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD    0.000  1.00000
## as.factor(EVTYPE)URBAN/SMALL STREAM FLOOD    0.000  1.00000
## as.factor(EVTYPE)URBAN/SML STREAM FLD       0.126  0.89950
## as.factor(EVTYPE)URBAN/STREET FLOODING       0.000  1.00000
## as.factor(EVTYPE)Unseasonable Cold          0.000  1.00000
## as.factor(EVTYPE)VOLCANIC ASH               0.000  1.00000
## as.factor(EVTYPE)VOLCANIC ASHFALL           0.000  1.00000
## as.factor(EVTYPE)WATERSPOUT                0.003  0.99729
## as.factor(EVTYPE)WATERSPOUT FUNNEL CLOUD     0.000  1.00000
## as.factor(EVTYPE)WATERSPOUT-               0.000  1.00000
## as.factor(EVTYPE)WATERSPOUT/TORNADO          0.440  0.66009
## as.factor(EVTYPE)WATERSPOUTS               0.000  1.00000
## as.factor(EVTYPE)WET MICROBURST             0.000  1.00000
## as.factor(EVTYPE)WILD/FOREST FIRE            0.476  0.63379
## as.factor(EVTYPE)WILDFIRE                   0.332  0.73954
## as.factor(EVTYPE)WILDFIRES                  0.000  1.00000
## as.factor(EVTYPE)WIND                       0.213  0.83155
## as.factor(EVTYPE)WIND ADVISORY              0.000  1.00000
## as.factor(EVTYPE)WIND CHILL                 0.000  1.00000
## as.factor(EVTYPE)WIND DAMAGE                0.000  1.00000
## as.factor(EVTYPE)WINDS                      0.000  1.00000
## as.factor(EVTYPE)WINTER MIX                 0.000  1.00000
## as.factor(EVTYPE)WINTER STORM               0.174  0.86195
## as.factor(EVTYPE)WINTER STORM/HIGH WIND      0.000  1.00000
## as.factor(EVTYPE)WINTER WEATHER             0.015  0.98822
## as.factor(EVTYPE)WINTER WEATHER MIX         0.000  1.00000
## as.factor(EVTYPE)WINTER WEATHER/MIX         0.117  0.90719
## as.factor(EVTYPE)WINTER Y MIX               0.000  1.00000
## as.factor(EVTYPE)WINTRY MIX                 0.000  1.00000
## as.factor(EVTYPE)Wet Month                  0.000  1.00000
## as.factor(EVTYPE)Wind                       0.000  1.00000
## as.factor(EVTYPE)Winter Weather             0.000  1.00000
## as.factor(EVTYPE)small hail                 0.000  1.00000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 55.7 on 89921 degrees of freedom
## Multiple R-squared:  0.06743,    Adjusted R-squared:  0.06423
## F-statistic: 21.11 on 308 and 89921 DF,  p-value: < 2.2e-16

```