

# 2002 Annual Summaries

National Oceanic and Atmospheric Administration  
National Environmental Satellite Data Information Service  
National Climatic Data Center

## FLOOD/FLASH FLOOD



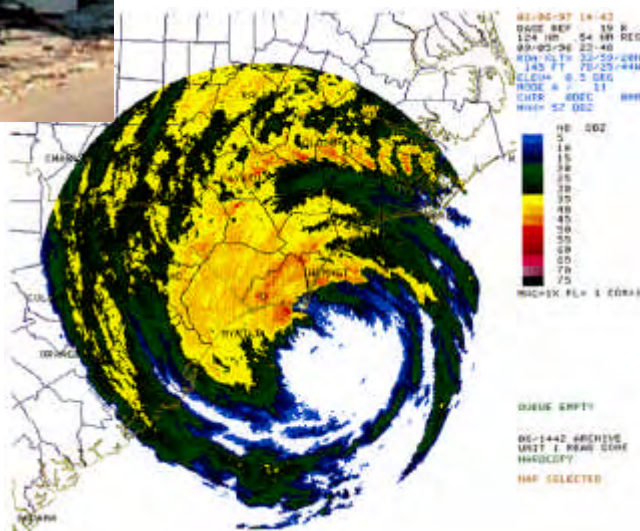
## Lightning



## Tornado



## Hurricane



# 2002 Annual Summaries

## Flood/Flash Flood

## Lightning

## Tornado

## Hurricane

All summaries are compiled from information contained in the Storm Data Publication.

Sources include the Storm Data Publication, the National Weather Service's Office Climate, Water and Weather Services.

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## Summary of Natural Hazard Statistics for 2002 in the United States



This National Weather Service (NWS) report summarizes fatalities, injuries and damages caused by severe weather in 2002. The NWS Office of Climate, Water and Weather Services and the National Climatic Data Center compiled this *Summary of U.S. Natural Hazard Statistics* from Storm Data, a report comprising statistics from NWS forecast offices in the 50 states, Puerto Rico, Guam, and the Virgin Islands.

### Summary of 2002 Weather Events, Fatalities, Injuries, and Damage Costs

LAST UPDATED : 11/12/2003

<u>Weather Event</u>	<u>Fatalities</u>	<u>Injuries</u>	<u>Amount of Property Damage (M)</u>	<u>Amount of Crop Damage (M)</u>	<u>Total Prop/Crop Damage (M)</u>
<b><u>Convection</u></b>					
Lightning	51	256	\$ 43.5	\$ 0.0	\$ 43.5
Tornado	55	968	801.3	0.8	802.1
Tstm Wind	17	287	289.8	54.7	344.5
Hail	0	125	325.2	153.8	479.0
<b><u>Extreme Temperatures</u></b>					
Cold	11	0	0.3	70.4	70.7
Heat	167	378	0.0	0.0	0.0
<b><u>Flood</u></b>					
Flash Flood	38	74	329.6	44.8	374.4
River Flood	7	5	322.8	37.7	360.5
Small Stream/Urban Flood	4	9	2.6	0.0	2.6
<b><u>Marine</u></b>					
Coastal Storm	11	8	0.3	0.0	0.3
Tsunami	0	0	0.0	0.0	0.0
Rip Current	43	60	0.1	0.0	0.1
<b><u>Tropical Cyclones</u></b>					
Tropical Storm/Hurricane	51	346	1,104.4	278.0	1,382.4
<b><u>Winter</u></b>					
Winter Storm	17	105	752.0	0.0	752.0
Ice	0	0	0.1	0.0	0.1
Avalanche	15	11	0.0	0.0	0.0
<b><u>Other</u></b>					
Drought	0	0	0.0	737.6	737.6
Dust Storm	2	45	0.4	0.0	0.4
Dust Devil	0	1	0.0	0.0	0.0
Rain	1	1	0.8	1.1	1.9
Fog	19	143	3.5	0.0	3.5
High Wind	28	129	82.9	33.5	116.4
Waterspout	0	1	0.0	0.0	0.0
Fire Weather	1	138	200.8	2.0	202.8
Mud Slide	0	0	0.0	0.0	0.0
Volcanic Ash	0	0	0.0	0.0	0.0
Miscellaneous	2	0	0.0	0.0	0.0
<b>TOTALS</b>	<b>540</b>	<b>3090</b>	<b>\$4,260.4M</b>	<b>\$1,414.4M</b>	<b>\$5,674.8M</b>

## **Summary of 2002 Natural Hazard Statistics**

In 2002, there were 540 weather-related fatalities, a significant increase from 464 in 2001, but below the 10-year average (1993-2002) of 634. As in the previous 4 years, extreme heat ranked as the number one weather-related killer in the United States with 167 deaths (31%). In 2002, tornadoes caused the second highest number of fatalities with 55 (10%), followed by tropical storms/hurricanes, 51 (9%), and lightning, 51 (9%).

Weather-related injuries rose moderately in 2002 to 3,090, from 2,718 in 2001. Tornadoes and heat caused the greatest number of injuries with 968 (31%) and 378 (12%), respectively.

In 2002, severe weather caused \$5.7 billion in damages. Tropical storms and hurricanes resulted in nearly \$1.4 billion in property and crop losses and tornadoes had \$802 million.

Louisiana suffered damages of \$832 million from two tropical cyclones – Hurricane Lili in October and Tropical Storm Isidore in September. Nebraska was hit with \$633 million from drought and Guam with nearly \$492 million from tropical cyclones.

Of the 540 weather-related fatalities, 338 were males (63%) and 155 were females (29%). Men in the 40- to 59-age range accounted for 35% of the male fatalities. Women in the 60- to 89-age group accounted for 39% of the female fatalities. Forty-seven fatalities are unknown when Tropical Storm Chataan struck Chuuk in Micronesia (Guam's area of responsibility) and caused devastating mudslides.

July was the deadliest month with 181 fatalities, 138 of which were from excessive heat.

In 2002, Guam (Chuuk in Micronesia) had the highest number of deaths with 55; Maryland had 54, and Illinois, 52. Topping the injuries list was Missouri with 405, California with 362, and Guam, 360.

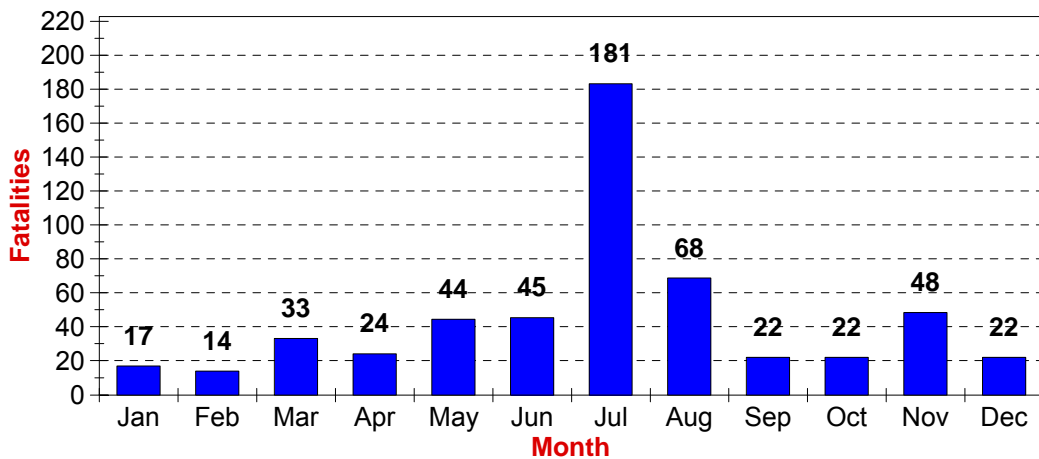
As in the previous 4 years, extreme heat ranked as the number one weather killer in the United States. The 10-year average for heat-related deaths is 235; for cold, 26. The 30-year average (1973-2002) for floods is 110; lightning, 69; tornadoes, 66; and hurricanes, 14.

## 2002 Summary of all Natural Hazards

### 2002 SUMMARY OF FATALITIES FOR ALL HAZARDS BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	10	10	0	20	4
10 TO 19	13	22	0	35	6
20 TO 29	18	35	0	53	10
30 TO 39	21	47	0	68	13
40 TO 49	17	60	0	77	14
50 TO 59	10	59	0	69	13
60 TO 69	19	36	0	55	10
70 TO 79	26	30	0	56	10
80 TO 89	16	17	0	33	6
90 TO --	3	5	0	8	1
UNKNOWN	2	17	47	66	12
<b>TOTAL</b>	<b>155</b>	<b>338</b>	<b>47</b>	<b>540</b>	<b>100</b>
<b>PERCENT</b>	<b>29</b>	<b>63</b>	<b>9</b>	<b>100</b>	

### 2002 MONTHLY WEATHER RELATED FATALITIES



## 2002 Summary of Hazardous Weather Fatalities, Injuries, and Damage Costs Listed by State

<u>State</u>	<u>Fatalities</u>	<u>Injuries</u>	<u>Property Damage (M)</u>	<u>Crop Damage (M)</u>	<u>Total Damage (M)</u>
AK	7	4	32.5	0.0	32.5
AL	21	158	36.8	0.0	36.8
AR	6	28	20.3	0.1	20.4
AZ	1	11	73.7	0.0	73.7
CA	25	362	150.8	38.0	188.8
CO	7	42	92.8	0.0	92.8
CT	5	1	2.9	0.0	2.9
DC	4	6	0.6	0.0	0.6
DE	1	0	0.5	0.0	0.5
FL	30	59	43.0	0.0	43.0
GA	3	38	54.4	4.7	59.1
GU	55	360	387.7	104.1	491.8
HI	2	3	2.8	0.2	3.0
IA	0	4	42.3	75.1	117.4
ID	8	27	4.7	0.0	4.7
IL	52	93	43.0	53.0	96.0
IN	0	153	124.5	70.2	194.7
KS	2	9	103.3	96.8	200.1
KY	2	60	102.8	74.5	177.3
LA	8	24	660.3	171.7	832.0
MA	0	2	4.1	0.0	4.1
MD	54	138	129.6	0.0	129.6
ME	2	3	0.8	0.0	0.8
MI	7	47	32.1	0.3	32.4
MN	1	11	239.8	38.5	278.3
MO	31	405	114.9	0.5	115.4
MS	7	56	118.3	0.0	118.3
MT	2	11	6.9	0.2	7.1
NC	8	29	211.7	0.0	211.7
ND	0	7	2.2	0.0	2.2
NE	4	37	110.6	522.8	633.4
NH	0	7	0.9	0.0	0.9
NJ	9	25	11.6	0.0	11.6
NM	0	3	7.5	0.4	7.9
NV	7	18	9.0	0.0	9.0
NY	14	139	36.6	0.1	36.7
OH	11	73	195.7	3.5	199.2
OK	1	11	308.5	0.0	308.5
OR	2	12	13.2	0.1	13.3
PA	49	141	34.7	0.0	34.7
PR	2	1	1.7	0.0	1.7
RI	0	2	0.2	0.0	0.2
SC	5	20	102.7	0.0	102.7
SD	2	5	14.1	0.1	14.2
TN	25	159	34.3	0.2	34.5
TX	24	180	282.4	27.8	310.2
UT	2	13	8.7	0.3	9.0
VA	4	31	45.9	0.0	45.9
VI	2	0	0.0	0.2	0.2
VT	1	0	2.0	0.0	2.0
WA	5	12	14.5	90.3	104.8
WI	16	37	60.0	40.9	100.9
WV	3	5	94.4	0.0	94.4
WY	1	7	31.4	0.0	31.4
<b>TOTAL</b>	<b>540</b>	<b>3089</b>	<b>\$4,260.7M</b>	<b>\$1,414.6M</b>	<b>\$5,675.3M</b>

*NOTE: Damage amounts may be slightly different than those indicated on front page due to rounding*

## 2002 Lightning Fatalities

In 2002, there were 51 lightning fatalities, 7 more than in 2001 with 44. This number falls just below the 10-year average of 53 fatalities. For the 5th consecutive year, Florida was hardest hit with 9 fatalities (18%); Alabama had 6 fatalities, and Missouri, 5. Twenty-four of the 51 lightning deaths (47%) occurred outside in the open, and 11 (22%) happened under trees. In 2002, more than 3 times as many men (39) as women (12) were killed by lightning. The 20-49 age group accounted for 50% of the fatalities.

### 2002 LIGHTNING FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>BF</u>	<u>BO</u>	<u>CA</u>	<u>EQ</u>	<u>GF</u>	<u>IW</u>	<u>OT</u>	<u>OU</u>	<u>TE</u>	<u>UT</u>	<u>TOTAL</u>
AL	0	0	0	0	0	0	4	2	0	0	6
AR	0	0	0	0	0	0	0	1	0	0	1
FL	0	1	0	0	0	0	1	6	0	1	9
GA	0	0	0	0	0	0	0	1	0	1	2
ID	0	0	0	0	0	0	0	1	0	0	1
IL	1	0	0	0	0	0	0	0	0	0	1
LA	0	0	0	0	0	0	0	1	0	1	2
MD	0	0	0	0	0	0	0	1	0	0	1
MI	0	0	0	0	0	0	1	0	0	0	1
MO	0	0	0	0	0	0	0	1	0	4	5
MS	0	0	1	0	0	0	0	0	0	1	2
NC	0	0	0	0	0	0	0	1	0	1	2
NJ	0	0	0	0	0	0	0	1	0	0	1
NY	0	0	0	0	0	0	1	1	0	0	2
OH	0	0	0	0	0	0	1	0	0	0	1
OK	0	0	0	0	0	0	0	0	0	1	1
PA	0	0	1	0	0	0	0	0	0	0	1
SC	0	1	0	0	0	0	0	1	0	0	2
TN	0	0	0	0	0	0	0	3	0	0	3
TX	0	0	0	0	0	1	0	1	0	0	2
UT	0	0	0	0	0	0	0	2	0	0	2
VT	0	0	1	0	0	0	0	0	0	0	1
WI	0	0	1	0	0	0	0	0	0	0	1
WY	0	0	0	0	0	0	0	0	0	1	1
<b>TOTAL</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>8</b>	<b>24</b>	<b>0</b>	<b>11</b>	<b>51</b>
<b>PERCENT</b>	<b>2</b>	<b>4</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>47</b>	<b>0</b>	<b>22</b>	<b>101*</b>

(\* Due to rounding total does not equal 100%)

### 2002 LIGHTNING FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	2	3	0	5	10
10 TO 19	2	3	0	5	10
20 TO 29	3	5	0	8	16
30 TO 39	2	5	0	7	14
40 TO 49	1	9	0	10	20
50 TO 59	1	5	0	6	12
60 TO 69	0	5	0	5	10
70 TO 79	1	1	0	2	4
80 TO 89	0	1	0	1	2
90 TO --	0	0	0	0	0
UNKNOWN	0	2	0	2	4
<b>TOTAL</b>	<b>12</b>	<b>39</b>	<b>0</b>	<b>51</b>	<b>102*</b>
<b>PERCENT</b>	<b>24</b>	<b>76</b>	<b>0</b>	<b>100</b>	

(\* Due to rounding total does not equal 100%)

#### LEGEND

**BF** - Ball Field  
**BO** - Boat  
**CA** - Camping  
**EQ** - Nr Hvy Equipment  
**GF** - Golf  
**IW** - In Water  
**OT** - Other/Unknown  
**OU** - Outside Open  
**TE** - At Telephone  
**UT** - Under Tree

## 2002 Tornado Fatalities

The National Weather Service recorded 624 tornadoes in 2002. This number is well below the 3-year average of 1,142. The last year the count was low was in 1989 with 856 tornadoes. Tornado fatalities rose to 55 in 2002 from 2001's total of 40. Still tornado deaths have declined in the last 6 years and remains below the 30-year average of 69. Fifty-eight percent of the fatalities occurred in mobile homes, while 15 percent occurred in permanent homes. Male fatalities (29) were higher than female fatalities (26). For both males and females, the 30- to 69-age group seem to suffer the highest number of fatalities with 65 percent.

The Veterans Day Weekend tornado outbreak of November 9-11, 2002, was the second largest on record in November over the eastern United States. Seventy-six tornadoes resulted in 36 fatalities. Tennessee was hardest hit with 17 fatalities. Alabama had 12 of the 13 fatalities from the Veterans Day Weekend event. An F4 tornado struck the town of Van Wert, Ohio, resulting in no fatalities to a cinema complex that took a direct hit. A tornado warning was received prompting the manager to shut off the movies and directing 60 people into safer areas. The walls and roof of one theater were destroyed and three vehicles were thrown into the front row seats.

### 2002 TORNADO FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>BU</u>	<u>LS</u>	<u>MH</u>	<u>OT</u>	<u>OU</u>	<u>PH</u>	<u>SC</u>	<u>VE</u>	<u>TOTAL</u>
AL	0	0	10	0	1	2	0	0	13
AR	0	0	1	0	0	0	0	0	1
IL	0	0	3	0	0	0	0	1	4
KY	0	0	1	0	0	0	0	0	1
LA	0	0	2	0	0	0	0	0	2
MD	0	0	0	0	0	3	0	0	3
MO	0	0	1	1	0	2	0	0	4
MS	0	0	0	0	1	0	0	0	1
OH	0	0	2	0	0	2	0	1	5
PA	0	0	0	0	0	1	0	0	1
TN	0	0	10	0	0	5	0	2	17
TX	0	0	2	0	0	0	1	0	3
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>1</b>	<b>2</b>	<b>15</b>	<b>1</b>	<b>4</b>	<b>55</b>
<b>PERCENT</b>	<b>0</b>	<b>0</b>	<b>58</b>	<b>2</b>	<b>4</b>	<b>27</b>	<b>2</b>	<b>7</b>	<b>100</b>

### 2002 TORNADO FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	1	0	0	1	2
10 TO 19	2	3	0	5	9
20 TO 29	0	1	0	1	2
30 TO 39	7	1	0	8	15
40 TO 49	2	7	0	9	16
50 TO 59	1	9	0	10	18
60 TO 69	7	2	0	9	16
70 TO 79	4	2	0	6	11
80 TO 89	1	2	0	3	5
90 TO --	1	1	0	2	4
UNKNOWN	0	1	0	1	2
<b>TOTAL</b>	<b>26</b>	<b>29</b>	<b>0</b>	<b>55</b>	<b>100</b>
<b>PERCENT</b>	<b>47</b>	<b>53</b>	<b>0</b>	<b>100</b>	

#### LEGEND

**BU** - Business  
**LS** - Long-Span Roof  
**MH** - Mobile Home  
**OT** - Other/Unknown  
**OU** - Outside Open  
**PH** - Permanent Home  
**SC** - School  
**VE** - Vehicle



## 2002 Summary of Hazardous Weather Fatalities, Injuries, and Damage Costs Listed by State

<u>State</u>	<u>Fatalities</u>	<u>Injuries</u>	<u>Property Damage (M)</u>	<u>Crop Damage (M)</u>	<u>Total Damage (M)</u>
AK	7	4	32.5	0.0	32.5
AL	21	158	36.8	0.0	36.8
AR	6	28	20.3	0.1	20.4
AZ	1	11	73.7	0.0	73.7
CA	25	362	150.8	38.0	188.8
CO	7	42	92.8	0.0	92.8
CT	5	1	2.9	0.0	2.9
DC	4	6	0.6	0.0	0.6
DE	1	0	0.5	0.0	0.5
FL	30	59	43.0	0.0	43.0
GA	3	38	54.4	4.7	59.1
GU	55	360	387.7	104.1	491.8
HI	2	3	2.8	0.2	3.0
IA	0	4	42.3	75.1	117.4
ID	8	27	4.7	0.0	4.7
IL	52	93	43.0	53.0	96.0
IN	0	153	124.5	70.2	194.7
KS	2	9	103.3	96.8	200.1
KY	2	60	102.8	74.5	177.3
LA	8	24	660.3	171.7	832.0
MA	0	2	4.1	0.0	4.1
MD	54	138	129.6	0.0	129.6
ME	2	3	0.8	0.0	0.8
MI	7	47	32.1	0.3	32.4
MN	1	11	239.8	38.5	278.3
MO	31	405	114.9	0.5	115.4
MS	7	56	118.3	0.0	118.3
MT	2	11	6.9	0.2	7.1
NC	8	29	211.7	0.0	211.7
ND	0	7	2.2	0.0	2.2
NE	4	37	110.6	522.8	633.4
NH	0	7	0.9	0.0	0.9
NJ	9	25	11.6	0.0	11.6
NM	0	3	7.5	0.4	7.9
NV	7	18	9.0	0.0	9.0
NY	14	139	36.6	0.1	36.7
OH	11	73	195.7	3.5	199.2
OK	1	11	308.5	0.0	308.5
OR	2	12	13.2	0.1	13.3
PA	49	141	34.7	0.0	34.7
PR	2	1	1.7	0.0	1.7
RI	0	2	0.2	0.0	0.2
SC	5	20	102.7	0.0	102.7
SD	2	5	14.1	0.1	14.2
TN	25	159	34.3	0.2	34.5
TX	24	180	282.4	27.8	310.2
UT	2	13	8.7	0.3	9.0
VA	4	31	45.9	0.0	45.9
VI	2	0	0.0	0.2	0.2
VT	1	0	2.0	0.0	2.0
WA	5	12	14.5	90.3	104.8
WI	16	37	60.0	40.9	100.9
WV	3	5	94.4	0.0	94.4
WY	1	7	31.4	0.0	31.4
<b>TOTAL</b>	<b>540</b>	<b>3089</b>	<b>\$4,260.7M</b>	<b>\$1,414.6M</b>	<b>\$5,675.3M</b>

*NOTE: Damage amounts may be slightly different than those indicated on front page due to rounding*

## 2002 Heat Related Fatalities

For the fifth year, heat ranked as the most deadly weather hazard, claiming 167 lives—one more than in 2001. The 10-year average for heat deaths is 235, compared to 86 for floods. In 2002, 78% of the fatalities occurred in permanent homes. Maryland (50), Pennsylvania (42), and Illinois (40) accounted for 79% of the fatalities. The elderly are more susceptible to heat stress and heat stroke. The 70- to 79-age group had the greatest number of fatalities with 35. Almost twice as many males as females died from the heat.

### 2002 HEAT RELATED FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>BF</u>	<u>CA</u>	<u>GF</u>	<u>MH</u>	<u>OT</u>	<u>OU</u>	<u>PH</u>	<u>VE</u>	<u>TOTAL</u>
AR	0	0	0	0	0	0	1	0	1
CA	0	0	0	0	0	4	1	1	6
CT	0	0	0	0	0	0	1	0	1
IL	0	0	0	0	1	2	37	0	40
LA	0	0	0	0	0	1	1	0	2
MD	0	0	0	0	9	5	36	0	50
MI	0	0	0	0	0	0	0	2	2
MO	0	0	0	0	0	4	13	0	17
NJ	0	0	0	0	0	0	2	0	2
PA	0	0	0	0	0	4	37	1	42
TX	0	0	0	0	0	1	0	0	1
WI	0	0	0	0	0	1	2	0	3
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>22</b>	<b>131</b>	<b>4</b>	<b>167</b>
<b>PERCENT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>13</b>	<b>78</b>	<b>2</b>	<b>99*</b>

(\* Due to rounding total does not equal 100%)

### 2002 HEAT RELATED FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	4	3	0	7	4
10 TO 19	0	1	0	1	1
20 TO 29	0	3	0	3	2
30 TO 39	3	11	0	14	8
40 TO 49	6	17	0	23	14
50 TO 59	5	26	0	31	19
60 TO 69	10	12	0	22	13
70 TO 79	17	18	0	35	21
80 TO 89	12	12	0	24	14
90 TO --	2	4	0	6	4
UNKNOWN	0	1	0	1	1
<b>TOTAL</b>	<b>59</b>	<b>108</b>	<b>0</b>	<b>167</b>	<b>101*</b>
<b>PERCENT</b>	<b>35</b>	<b>65</b>	<b>0</b>	<b>100</b>	

(\* Due to rounding total does not equal 100%)

#### LEGEND

**BF** - Ball Field  
**CA** - Camping  
**GF** - Golf  
**MH** - Mobile Home  
**OT** - Other/Unknown  
**OU** - Outside Open  
**PH** - Permanent Home  
**VE** - Vehicle

## 2002 Flash Flood / River Flood Related Fatalities

In 2002, flooding (flash floods, river floods, and urban/small stream floods) caused 49 fatalities. This is one more than in 2001 and significantly lower than the 10-year average of 86 deaths. Of the 49 fatalities, 28 were in vehicles and 11 were directly in water. Texas suffered the highest number of fatalities with 14. Flash floods caused 38 deaths and river floods caused 11. The 10- to 49-age group suffered 70% of the fatalities. Twenty-nine (59%) of the flooding victims were male and 20 (41%) were female.

### 2002 FLASH FLOOD / RIVER FLOOD FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>BO</u>	<u>BU</u>	<u>CA</u>	<u>IW</u>	<u>MH</u>	<u>OT</u>	<u>PH</u>	<u>VE</u>	<u>TOTAL</u>
AK	0	0	0	0	0	3	0	0	3
AR	0	0	0	1	0	0	0	1	2
CA	0	0	0	0	0	0	0	3	3
GU	0	0	0	3	0	0	0	0	3
IL	0	0	0	1	0	1	0	0	2
KY	0	0	0	0	0	0	0	1	1
MO	0	0	0	1	0	0	0	4	5
MS	0	0	0	0	0	0	0	3	3
NC	0	0	0	0	0	0	0	1	1
NE	0	0	0	0	0	0	0	1	1
NV	0	0	0	0	0	1	0	0	1
OH	0	0	0	0	0	0	0	1	1
TN	0	0	0	2	0	0	0	2	4
TX	1	0	0	2	1	1	0	9	14
VA	0	0	0	1	0	2	0	0	3
WV	0	0	0	0	0	0	0	2	2
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>28</b>	<b>49</b>
<b>PERCENT</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>2</b>	<b>16</b>	<b>0</b>	<b>57</b>	<b>99*</b>

(\* Due to rounding total does not equal 100%)

### 2002 FLASH FLOOD / RIVER FLOOD FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	2	2	0	4	8
10 TO 19	5	3	0	8	16
20 TO 29	4	6	0	10	20
30 TO 39	2	4	0	6	12
40 TO 49	3	8	0	11	22
50 TO 59	2	1	0	3	6
60 TO 69	1	2	0	3	6
70 TO 79	1	2	0	3	6
80 TO 89	0	1	0	1	2
90 TO --	0	0	0	0	0
UNKNOWN	0	0	0	0	0
<b>TOTAL</b>	<b>20</b>	<b>29</b>	<b>0</b>	<b>49</b>	<b>98*</b>
<b>PERCENT</b>	<b>41</b>	<b>59</b>	<b>0</b>	<b>100</b>	

(\* Due to rounding total does not equal 100%)

#### LEGEND

**BO** - Boat  
**BU** - Business  
**CA** - Camping  
**IW** - In Water  
**MH** - Mobile Home  
**OT** - Other/Unknown  
**PH** - Permanent Home  
**VE** - Vehicle

## 2002 Flash Flood / River Flood Related Fatalities (Continued)

### 2002 FLASH FLOOD / RIVER FLOOD FATALITIES BY STATE

<u>STATE</u>	<u>FLASH FLOOD</u>	<u>RIVER FLOOD</u>	<u>TOTAL</u>
AK	3	0	3
AR	2	0	2
CA	0	3	3
GU	3	0	3
IL	1	1	2
KY	0	1	1
MO	3	2	5
MS	3	0	3
NC	1	0	1
NE	1	0	1
NV	1	0	1
OH	0	1	1
TN	3	1	4
TX	12	2	14
VA	3	0	3
WV	2	0	2
<b>TOTAL</b>	<b>38</b>	<b>11</b>	<b>49</b>
<b>PERCENT</b>	<b>78</b>	<b>22</b>	<b>100</b>

### 2002 FLASH FLOOD / RIVER FLOOD FATALITIES BY GENDER

	<u>FLASH FLOOD</u>	<u>RIVER FLOOD</u>	<u>TOTAL</u>	<u>PERCENT</u>
FEMALE	17	3	20	41
MALE	21	8	29	59
UNKNOWN	0	0	0	0
<b>TOTAL</b>	<b>38</b>	<b>11</b>	<b>49</b>	<b>100</b>
<b>PERCENT</b>	<b>78</b>	<b>22</b>	<b>100</b>	

## 2002 Cold Related Fatalities

In 2002, 11 people died from hypothermia, compared to 4 in 2001. The 10-year average for cold related fatalities is 26. Michigan suffered the most deaths with 3. Ten of the eleven fatalities occurred outside in the open. Almost twice as many males as females died from the cold.

### 2002 COLD RELATED FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>IW</u>	<u>MH</u>	<u>OT</u>	<u>OU</u>	<u>PH</u>	<u>VE</u>	<u>TOTAL</u>
CA	0	0	0	1	0	0	1
DC	0	0	0	2	0	0	2
MI	0	0	0	3	0	0	3
NC	0	0	0	1	0	0	1
PA	0	0	0	1	0	0	1
SC	0	0	1	0	0	0	1
TX	0	0	0	2	0	0	2
<b>TOTAL</b>	0	0	1	10	0	0	11
<b>PERCENT</b>	0	0	9	91	0	0	100

### 2002 COLD RELATED FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	0	0	0	0	0
10 TO 19	0	0	0	0	0
20 TO 29	0	0	0	0	0
30 TO 39	0	0	0	0	0
40 TO 49	0	1	0	1	9
50 TO 59	0	1	0	1	9
60 TO 69	0	1	0	1	9
70 TO 79	1	1	0	2	18
80 TO 89	2	0	0	2	18
90 TO --	0	0	0	0	0
UNKNOWN	1	3	0	4	36
<b>TOTAL</b>	4	7	0	11	99*
<b>PERCENT</b>	36	64	0	100	

(\* Due to rounding total does not equal 100%)

#### LEGEND

**IW** - In Water  
**MH** - Mobile Home  
**OT** - Other/Unknown  
**OU** - Outside Open  
**PH** - Permanent Home  
**VE** - Vehicle

## 2002 Winter Weather Related Fatalities

In 2002, there were 17 winter weather deaths. The last 5 years shows a continuing downward trend from 1997's 90 deaths. This total is significantly lower than the 10-year average of 47. Idaho suffered the highest number of fatalities with 5, and 11 of the 17 deaths occurred in vehicles. The winter weather fatalities were spread throughout the age groups and males made up 59% of the deaths. There were no ice related deaths again in 2002 but avalanches claimed 15 victims as also reported for 2001.

### 2002 WINTER STORM FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>LS</u>	<u>MH</u>	<u>OT</u>	<u>OU</u>	<u>PH</u>	<u>VE</u>	<u>TOTAL</u>
AR	0	0	0	1	0	0	1
AZ	0	0	0	1	0	0	1
ID	0	0	0	0	0	5	5
KS	0	0	0	0	0	1	1
ME	0	0	0	1	0	0	1
MN	0	0	0	0	0	1	1
NV	0	0	0	0	0	2	2
SD	0	0	0	0	0	2	2
WA	0	0	0	3	0	0	3
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>11</b>	<b>17</b>
<b>PERCENT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>65</b>	<b>100</b>

### 2002 WINTER STORM FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	0	1	0	1	6
10 TO 19	1	1	0	2	12
20 TO 29	2	2	0	4	24
30 TO 39	1	1	0	2	12
40 TO 49	3	1	0	4	24
50 TO 59	0	2	0	2	12
60 TO 69	0	0	0	0	0
70 TO 79	0	1	0	1	6
80 TO 89	0	0	0	0	0
90 TO --	0	0	0	0	0
UNKNOWN	0	1	0	1	6
<b>TOTAL</b>	<b>7</b>	<b>10</b>	<b>0</b>	<b>17</b>	<b>102*</b>
<b>PERCENT</b>	<b>41</b>	<b>59</b>	<b>0</b>	<b>100</b>	

(\* Due to rounding total does not equal 100%)

#### LEGEND

**LS** - Long-Span Roof  
**MH** - Mobile Home  
**OT** - Other/Unknown  
**OU** - Outside Open  
**PH** - Permanent Home  
**VE** - Vehicle

## 2002 Wind Related Fatalities

Wind related fatalities totaled 45 in 2002; higher than 2001's total of 31. Many of the deaths (22) occurred when trees or telephone poles fell onto moving vehicles, killing either the driver or occupants. Thunderstorm winds accounted for 38% of the deaths, whereas high winds accounted for 62% of the deaths. Illinois and Ohio suffered the most fatalities with 5 and 4, respectively. Almost three times as many males as females died from thunderstorm and high winds. All age groups were vulnerable to both thunderstorm and high winds.

### 2002 HIGH WIND AND THUNDERSTORM WIND FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>BO</u>	<u>CA</u>	<u>LS</u>	<u>MH</u>	<u>OT</u>	<u>OU</u>	<u>PH</u>	<u>SC</u>	<u>VE</u>	<u>TOTAL</u>
CA	0	0	0	0	2	1	0	0	0	3
CT	1	0	0	0	0	0	0	0	1	2
DC	0	0	0	0	0	0	0	0	2	2
FL	1	0	0	0	0	0	0	0	0	1
GA	0	0	0	0	0	0	0	0	1	1
HI	0	0	0	0	1	0	0	0	0	1
IL	0	0	0	0	0	0	0	0	5	5
KS	0	0	0	0	0	0	0	0	1	1
LA	0	0	0	0	0	0	0	0	1	1
ME	0	0	0	0	0	0	0	1	0	1
MT	0	0	0	0	0	0	0	0	2	2
NC	0	0	0	0	1	0	0	0	0	1
NE	0	0	0	0	0	0	0	0	1	1
NJ	0	0	0	0	2	0	0	1	0	3
NV	0	0	0	0	0	0	0	0	2	2
NY	0	0	0	0	2	0	0	0	0	2
OH	0	0	0	0	2	0	0	0	2	4
OR	0	0	0	2	0	0	0	0	0	2
PA	0	0	1	0	0	0	0	0	2	3
SC	0	0	0	0	0	2	0	0	0	2
TX	1	0	0	0	0	0	0	0	1	2
VA	0	0	0	0	1	0	0	0	0	1
WI	0	1	0	0	0	0	0	0	0	1
WV	0	0	0	0	0	0	0	0	1	1
<b>TOTAL</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>11</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>22</b>	<b>45</b>
<b>PERCENT</b>	<b>7</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>24</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>49</b>	<b>99*</b>

(\* Due to rounding total does not equal 100%)

### 2002 HIGH WIND AND THUNDERSTORM WIND FATALITIES BY AGE AND GENDER

	<u>FEMALE</u>	<u>MALE</u>	<u>UNKNOWN</u>	<u>TOTAL</u>	<u>PERCENT</u>
0 TO 9	1	0	0	1	2
10 TO 19	0	1	0	1	2
20 TO 29	6	1	0	7	16
30 TO 39	1	7	0	8	18
40 TO 49	1	5	0	6	13
50 TO 59	1	6	0	7	16
60 TO 69	0	5	0	5	11
70 TO 79	1	1	0	2	4
80 TO 89	1	1	0	2	4
90 TO --	0	0	0	0	0
UNKNOWN	1	5	0	6	13
<b>TOTAL</b>	<b>13</b>	<b>32</b>	<b>0</b>	<b>45</b>	<b>99*</b>
<b>PERCENT</b>	<b>29</b>	<b>71</b>	<b>0</b>	<b>100</b>	

(\* Due to rounding total does not equal 100%)

#### LEGEND

**BO** - Boat  
**CA** - Camping  
**LS** - Long-Span Roof  
**MH** - Mobile Home  
**OT** - Other/Unknown  
**OU** - Outside Open  
**PH** - Permanent Home  
**SC** - School  
**VE** - Vehicle

## 2002 Wind Related Fatalities (Continued)

### 2002 HIGH WIND AND THUNDERSTORM WIND FATALITIES BY STATE

<u>STATE</u>	<u>TSTM WIND</u>	<u>HIGH WIND</u>	<u>TOTAL</u>
CA	0	3	3
CT	0	2	2
DC	2	0	2
FL	1	0	1
GA	1	0	1
HI	0	1	1
IL	1	4	5
KS	1	0	1
LA	1	0	1
ME	0	1	1
MT	0	2	2
NC	0	1	1
NE	0	1	1
NJ	0	3	3
NV	0	2	2
NY	1	1	2
OH	1	3	4
OR	0	2	2
PA	2	1	3
SC	1	1	2
TX	2	0	2
VA	1	0	1
WI	1	0	1
WV	1	0	1
<b>TOTAL</b>	<b>17</b>	<b>28</b>	<b>45</b>
<b>PERCENT</b>	<b>38</b>	<b>62</b>	<b>100</b>

### 2002 HIGH WIND AND THUNDERSTORM WIND FATALITIES BY GENDER

	<u>TSTM WIND</u>	<u>HIGH WIND</u>	<u>TOTAL</u>	<u>PERCENT</u>
FEMALE	6	7	13	29
MALE	11	21	32	71
UNKNOWN	0	0	0	0
<b>TOTAL</b>	<b>17</b>	<b>28</b>	<b>45</b>	<b>100</b>
<b>PERCENT</b>	<b>38</b>	<b>62</b>	<b>100</b>	





# TOTAL LIGHTNING DEATHS BY STATE AND NATION FOR YEAR 2002



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	0	0	0	4	1	1	0	0	0	0	6
ALASKA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARKANSAS	0	1	0	0	0	0	0	0	0	0	0	0	1
CALIFORNIA	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORADO	0	0	0	0	0	0	0	0	0	0	0	0	0
CONNECTICUT	0	0	0	0	0	0	0	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRICT OF COLUMBIA	0	0	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	0	1	4	4	0	0	0	0	9
GEORGIA	0	0	0	0	0	0	2	0	0	0	0	0	2
HAWAII	0	0	0	0	0	0	0	0	0	0	0	0	0
IDAHO	0	0	0	0	0	0	1	0	0	0	0	0	1
ILLINOIS	0	0	0	0	0	1	0	0	0	0	0	0	1
INDIANA	0	0	0	0	0	0	0	0	0	0	0	0	0
IOWA	0	0	0	0	0	0	0	0	0	0	0	0	0
KANSAS	0	0	0	0	0	0	0	0	0	0	0	0	0
KENTUCKY	0	0	0	0	0	0	0	0	0	0	0	0	0
LOUISIANA	0	0	0	0	0	1	1	0	0	0	0	0	2
MAINE	0	0	0	0	0	0	0	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	0	0	1	0	0	0	0	1
MASSACHUSETTS	0	0	0	0	0	0	0	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0	0	0	1	0	0	0	1
MINNESOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
MISSISSIPPI	0	0	0	0	1	0	0	1	0	0	0	0	2
MISSOURI	0	0	0	0	0	1	0	4	0	0	0	0	5
MONTANA	0	0	0	0	0	0	0	0	0	0	0	0	0
NEBRASKA	0	0	0	0	0	0	0	0	0	0	0	0	0
NEVADA	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW HAMPSHIRE	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW JERSEY	0	0	0	0	0	0	1	0	0	0	0	0	1
NEW MEXICO	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	1	0	1	0	0	0	0	2
NORTH CAROLINA	0	0	0	0	1	0	0	1	0	0	0	0	2
NORTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
OHIO	0	0	0	0	0	0	0	1	0	0	0	0	1
OKLAHOMA	0	0	0	0	0	0	1	0	0	0	0	0	1
OREGON	0	0	0	0	0	0	0	0	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	0	0	0	1	0	0	0	0	1
PUERTO RICO	0	0	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH CAROLINA	0	0	0	0	0	0	1	1	0	0	0	0	2
SOUTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE	0	0	0	0	0	0	1	2	0	0	0	0	3
TEXAS	0	0	0	0	1	0	0	1	0	0	0	0	2
UTAH	0	0	0	0	0	0	2	0	0	0	0	0	2
VERMONT	0	0	0	0	0	0	1	0	0	0	0	0	1
VIRGINIA	0	0	0	0	0	0	0	0	0	0	0	0	0
WASHINGTON	0	0	0	0	0	0	0	0	0	0	0	0	0
WEST VIRGINIA	0	0	0	0	0	0	0	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0	1	0	0	0	0	0	1
WYOMING	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL: UNITED STATES	0	1	0	0	3	9	17	19	2	0	0	0	51



# TOTAL LIGHTNING INJURIES BY STATE AND NATION FOR YEAR 2002



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	0	0	1	10	4	7	1	0	0	0	23
ALASKA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARKANSAS	0	1	0	0	0	0	0	1	0	0	0	0	2
CALIFORNIA	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORADO	0	0	0	0	0	1	0	2	0	0	0	0	3
CONNECTICUT	0	0	0	0	0	0	0	0	0	0	0	0	0
DELAWARE	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRICT OF COLUMBIA	0	0	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	0	0	0	0	1	8	18	7	2	0	0	1	37
GEORGIA	0	0	0	1	1	2	2	1	0	0	0	0	7
HAWAII	0	0	0	0	0	0	0	0	0	0	0	0	0
IDAHO	0	0	0	0	0	0	2	2	0	0	0	0	4
ILLINOIS	1	0	0	0	0	4	1	0	0	0	0	0	6
INDIANA	0	0	0	0	0	3	0	1	0	0	0	0	4
IOWA	0	0	0	0	1	0	0	0	0	0	0	0	1
KANSAS	0	0	0	0	0	0	1	2	0	0	0	0	3
KENTUCKY	0	0	0	1	0	0	1	0	0	0	0	0	2
LOUISIANA	0	0	3	0	0	0	0	3	0	0	0	0	6
MAINE	0	0	0	0	1	0	1	1	0	0	0	0	3
MARYLAND	0	0	0	0	0	0	0	2	0	0	0	0	2
MASSACHUSETTS	0	0	0	1	0	0	0	0	0	0	0	0	1
MICHIGAN	0	0	0	1	0	0	5	0	2	0	0	0	8
MINNESOTA	0	0	0	0	0	1	1	0	0	0	0	0	2
MISSISSIPPI	0	0	0	0	0	0	0	0	0	0	0	0	0
MISSOURI	0	0	0	0	0	0	1	0	0	0	0	0	1
MONTANA	0	0	0	0	0	0	1	0	0	0	0	0	1
NEBRASKA	0	0	0	0	0	0	0	2	0	0	0	0	2
NEVADA	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW HAMPSHIRE	0	0	0	0	0	0	2	3	0	0	0	0	5
NEW JERSEY	0	0	0	2	0	0	1	5	0	0	0	0	8
NEW MEXICO	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	1	17	2	3	0	0	0	0	23
NORTH CAROLINA	0	0	0	1	0	0	10	4	0	0	0	0	15
NORTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
OHIO	0	0	0	0	3	10	0	3	0	0	0	0	16
OKLAHOMA	0	0	0	0	0	0	1	0	0	0	0	0	1
OREGON	0	0	0	0	0	0	0	0	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	2	6	0	7	0	0	0	0	15
PUERTO RICO	0	0	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND	0	0	0	1	0	1	0	0	0	0	0	0	2
SOUTH CAROLINA	0	0	0	0	0	0	4	2	0	0	0	0	6
SOUTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE	0	0	1	0	0	0	22	1	0	0	1	0	25
TEXAS	0	0	0	1	0	1	0	3	0	0	0	0	5
UTAH	0	0	0	0	0	0	0	0	0	0	0	0	0
VERMONT	0	0	0	0	0	0	0	0	0	0	0	0	0
VIRGINIA	0	0	0	0	1	1	0	2	0	0	0	0	4
WASHINGTON	0	0	0	0	0	1	0	0	0	0	0	0	1
WEST VIRGINIA	0	0	0	0	0	3	0	0	0	0	0	0	3
WISCONSIN	0	0	0	0	0	2	0	2	0	0	0	0	4
WYOMING	0	0	0	0	0	5	0	0	0	0	0	0	5
TOTAL: UNITED STATES	1	1	4	9	12	76	80	66	5	0	1	1	256



# TOTAL LIGHTNING DEATHS BY STATE AND NATION FOR PERIOD 1959-2002



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	1	3	4	14	11	9	2	1	0	0	45
ALASKA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	0	0	0	0	4	0	8	8	9	2	0	1	32
ARKANSAS	0	1	8	0	2	15	18	15	4	0	0	0	63
CALIFORNIA	0	0	0	0	1	2	3	1	7	0	0	0	14
COLORADO	0	0	0	2	3	12	28	16	7	1	0	0	69
CONNECTICUT	0	0	0	0	1	2	3	2	0	0	0	0	8
DELAWARE	0	0	0	0	3	1	2	3	0	0	0	0	9
DISTRICT OF COLUMBIA	0	0	0	0	0	2	1	1	0	0	0	0	4
FLORIDA	0	0	4	5	8	53	73	63	36	2	0	0	244
GEORGIA	0	0	3	2	5	11	19	11	2	1	0	0	54
HAWAII	0	0	0	0	0	0	0	0	0	3	0	0	3
IDAHO	0	0	0	0	0	4	3	1	1	0	0	0	9
ILLINOIS	0	1	0	3	3	18	9	13	5	1	0	0	53
INDIANA	0	0	1	2	3	10	10	10	4	2	0	0	42
IOWA	0	0	0	1	5	10	2	12	1	2	0	0	33
KANSAS	0	0	0	3	3	6	7	2	1	1	3	0	26
KENTUCKY	0	0	0	2	3	10	9	9	12	0	0	0	45
LOUISIANA	1	1	1	4	6	17	26	3	11	0	2	2	74
MAINE	0	0	0	0	0	1	4	4	0	3	0	0	12
MARYLAND	0	0	0	0	2	5	8	7	2	1	0	81	106
MASSACHUSETTS	0	0	0	0	1	4	2	5	1	0	0	0	13
MICHIGAN	0	0	0	1	2	14	22	14	7	0	0	0	60
MINNESOTA	0	0	0	1	2	9	6	11	2	1	0	0	32
MISSISSIPPI	0	0	3	1	6	8	19	10	5	0	0	0	52
MISSOURI	0	0	4	0	7	17	8	11	1	1	0	0	49
MONTANA	0	0	0	0	0	5	8	0	1	0	0	0	14
NEBRASKA	0	0	0	0	1	8	7	6	3	0	0	0	25
NEVADA	0	0	0	0	1	1	0	1	1	0	0	0	4
NEW HAMPSHIRE	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW JERSEY	0	0	0	1	3	3	7	8	5	0	0	0	27
NEW MEXICO	0	0	0	0	3	6	13	26	2	0	0	0	50
NEW YORK	0	0	1	0	4	12	35	19	5	2	0	0	78
NORTH CAROLINA	0	1	2	0	7	12	28	22	4	0	0	0	76
NORTH DAKOTA	0	0	0	0	0	3	3	1	0	0	0	0	7
OHIO	0	0	0	4	5	14	22	14	9	2	2	0	72
OKLAHOMA	1	0	0	3	6	8	8	16	10	2	0	0	54
OREGON	0	0	0	0	1	0	0	0	2	0	0	0	3
PENNSYLVANIA	0	0	0	1	2	11	22	14	8	2	0	0	60
PUERTO RICO	0	0	0	0	0	0	2	6	0	0	0	0	8
RHODE ISLAND	0	0	0	0	0	0	1	0	2	0	0	0	3
SOUTH CAROLINA	0	0	1	0	3	6	14	11	9	0	0	0	44
SOUTH DAKOTA	0	0	0	0	4	3	2	1	2	2	0	0	14
TENNESSEE	0	1	0	6	7	23	16	14	12	2	1	0	82
TEXAS	0	1	2	10	17	12	26	18	10	2	0	0	98
UTAH	0	0	0	1	1	4	7	7	4	0	0	0	24
VERMONT	0	0	0	0	0	1	2	2	0	0	0	0	5
VIRGINIA	0	0	0	1	1	4	8	8	3	0	0	0	25
WASHINGTON	0	0	0	1	0	1	1	0	1	0	0	0	4
WEST VIRGINIA	0	0	0	0	3	4	5	4	1	0	0	0	17
WISCONSIN	0	0	1	1	0	7	8	13	2	0	0	1	33
WYOMING	0	0	0	0	0	4	6	5	3	0	0	0	18
TOTAL: UNITED STATES	2	6	32	59	143	397	552	457	219	36	8	85	1996



# TOTAL LIGHTNING INJURIES BY STATE AND NATION FOR PERIOD 1959-2002



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	1	2	11	4	14	28	70	36	18	4	1	0	189
ALASKA	0	0	0	0	0	0	1	1	0	0	0	0	2
ARIZONA	0	1	0	0	4	6	17	43	22	10	1	3	107
ARKANSAS	1	2	3	7	8	25	22	41	8	0	0	1	118
CALIFORNIA	1	0	7	2	1	4	11	8	19	1	1	0	55
COLORADO	0	0	0	4	28	73	88	85	18	5	0	0	301
CONNECTICUT	1	1	2	1	2	7	18	8	18	3	0	0	61
DELAWARE	0	0	0	0	7	6	3	2	1	0	0	0	19
DISTRICT OF COLUMBIA	0	0	0	0	0	13	0	1	0	0	1	0	15
FLORIDA	0	2	17	20	49	207	297	197	145	39	1	2	976
GEORGIA	3	51	4	4	32	56	86	43	8	5	0	1	293
HAWAII	0	1	0	0	0	0	0	4	0	0	3	0	8
IDAHO	0	0	0	0	0	18	12	12	6	1	0	0	49
ILLINOIS	1	1	0	2	14	38	30	49	27	6	0	0	168
INDIANA	0	0	2	1	16	22	37	25	10	0	0	0	113
IOWA	0	0	0	6	12	28	14	11	6	1	0	0	78
KANSAS	0	0	5	4	6	15	31	19	27	2	2	0	111
KENTUCKY	0	0	1	3	11	17	43	14	8	0	0	0	97
LOUISIANA	4	1	8	25	15	19	35	27	10	7	2	2	155
MAINE	0	10	0	0	4	18	40	19	0	0	1	0	92
MARYLAND	1	0	1	2	6	31	25	27	4	3	0	0	100
MASSACHUSETTS	0	0	0	1	14	43	72	54	26	0	0	1	211
MICHIGAN	0	0	2	10	26	77	113	64	31	9	0	0	332
MINNESOTA	0	0	1	0	9	15	49	18	2	5	0	0	99
MISSISSIPPI	1	0	4	2	11	8	51	16	9	3	7	1	113
MISSOURI	0	1	1	9	5	14	13	17	8	1	4	0	73
MONTANA	0	0	0	0	4	8	6	2	1	1	0	0	22
NEBRASKA	0	0	0	2	13	7	9	13	3	0	0	0	47
NEVADA	0	0	0	0	3	2	8	3	1	0	0	0	17
NEW HAMPSHIRE	0	0	1	0	1	5	41	17	0	0	0	0	65
NEW JERSEY	1	0	0	3	12	7	23	36	19	0	0	0	101
NEW MEXICO	0	0	0	1	3	12	52	56	6	1	0	0	131
NEW YORK	0	0	1	1	25	90	96	119	28	6	1	0	367
NORTH CAROLINA	2	2	19	5	19	71	111	106	22	2	1	0	360
NORTH DAKOTA	0	0	0	0	1	1	6	3	2	0	0	0	13
OHIO	0	0	3	5	34	65	64	97	53	4	12	0	337
OKLAHOMA	6	0	1	7	19	22	27	34	28	21	8	2	175
OREGON	0	0	0	0	1	0	0	10	1	0	0	0	12
PENNSYLVANIA	1	1	0	0	27	117	96	43	45	3	0	0	333
PUERTO RICO	0	0	0	0	0	0	0	2	0	0	0	0	2
RHODE ISLAND	0	0	0	1	0	4	5	9	3	0	1	0	23
SOUTH CAROLINA	0	0	0	6	11	18	51	34	17	0	1	0	138
SOUTH DAKOTA	0	0	0	2	3	12	12	7	1	2	0	0	39
TENNESSEE	1	3	7	25	30	15	87	48	9	6	2	0	233
TEXAS	2	3	5	7	26	40	54	56	44	8	3	0	248
UTAH	0	0	0	1	8	17	10	18	7	1	0	0	62
VERMONT	0	0	0	0	0	5	5	2	0	0	0	0	12
VIRGINIA	0	0	4	4	8	30	68	27	9	0	0	0	150
WASHINGTON	0	0	0	1	0	13	4	14	1	0	1	1	35
WEST VIRGINIA	0	0	0	10	1	7	40	36	0	1	0	0	95
WISCONSIN	0	1	1	6	3	51	50	40	7	3	0	0	162
WYOMING	0	0	0	1	2	23	12	16	8	0	0	0	62
TOTAL: UNITED STATES	27	83	111	195	548	1430	2115	1689	746	164	54	14	7176



## NATIONAL TOTAL LIGHTNING DEATHS BY YEAR FOR PERIOD 1959-2002



YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1959	0	0	0	1	8	13	27	11	10	5	0	0	75
1960	0	0	0	2	0	19	12	8	7	0	0	0	48
1961	0	0	0	1	1	18	25	8	8	0	0	0	61
1962	0	0	0	1	4	7	14	16	5	1	0	0	48
1963	0	0	4	1	2	26	16	12	7	1	0	81*	150
1964	0	0	9	2	2	8	10	10	7	1	0	0	49
1965	0	0	2	3	6	19	16	9	2	0	0	0	57
1966	0	0	1	0	0	7	12	10	7	2	0	0	39
1967	0	0	1	1	1	6	10	6	1	0	0	1	27
1968	0	0	0	0	4	10	14	12	7	3	0	1	51
1969	0	0	0	3	2	6	15	6	11	3	0	0	46
1970	0	0	0	0	7	14	12	5	11	1	0	0	50
1971	0	0	1	0	4	16	15	9	17	0	0	0	62
1972	0	0	1	1	2	14	14	19	0	0	0	0	51
1973	0	1	0	1	4	10	17	7	7	2	1	0	50
1974	0	1	0	5	4	16	18	10	3	0	1	0	58
1975	0	0	1	0	2	8	16	5	5	1	0	0	38
1976	0	0	0	1	4	5	9	10	3	2	0	0	34
1977	0	0	0	1	4	8	7	31	8	0	0	0	59
1978	0	0	0	0	0	9	16	15	3	1	0	0	44
1979	0	0	0	0	4	0	7	7	4	2	0	0	24
1980	0	0	0	0	3	9	14	11	2	0	0	0	39
1981	0	0	0	4	2	9	4	15	5	0	1	0	40
1982	1	0	0	1	1	4	11	12	2	1	0	0	33
1983	0	0	1	2	2	6	15	16	5	1	1	0	49
1984	0	0	0	1	3	5	12	6	5	0	1	0	33
1985	0	0	0	2	5	7	13	3	4	0	0	0	34
1986	0	0	0	2	4	4	9	11	2	0	0	0	32
1987	0	0	0	0	6	6	15	7	0	1	0	0	35
1988	0	0	0	0	3	2	9	12	1	1	2	0	30
1989	0	0	0	1	5	3	4	7	2	1	0	0	23
1990	0	0	2	0	2	9	10	7	9	0	0	0	39
1991	0	0	0	1	2	6	13	11	3	0	0	0	36
1992	0	0	0	2	1	3	6	8	5	0	0	0	25
1993	0	0	0	0	5	2	4	5	4	0	0	0	20
1994	0	0	0	1	4	3	13	6	4	1	0	0	32
1995	0	0	0	4	4	3	16	9	7	0	0	0	43
1996	1	0	0	4	3	18	8	13	4	0	0	1	52
1997	0	1	0	1	6	10	12	8	4	0	0	0	42
1998	0	1	2	2	3	12	9	12	2	0	0	1	44
1999	0	0	1	3	7	8	15	10	1	0	1	0	46
2000	0	0	4	0	1	13	15	12	4	2	0	0	51
2001	0	1	2	4	3	7	6	11	12	0	0	0	46
2002	0	1	0	0	3	9	17	19	2	0	0	0	51
TOTAL	2	6	32	59	143	397	552	457	222	33	8	85	1996
MEAN	0	0	1	1	3	9	13	10	5	1	0	2	45

\* ON DECEMBER 8, 1963 THE CRASH OF A JETLINER KILLING 81 PEOPLE NEAR ELKIN, MARYLAND, WAS ATTRIBUTED TO LIGHTNING BY THE CIVIL AERONAUTICS BOARD INVESTIGATORS.



## NATIONAL TOTAL LIGHTNING INJURIES BY YEAR FOR PERIOD 1959-2002



YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1959	0	0	0	1	14	31	40	26	18	3	1	0	134
1960	0	0	0	2	0	29	11	27	13	6	3	0	91
1961	0	0	5	1	8	40	48	35	26	1	1	1	166
1962	0	0	0	1	8	13	48	20	5	5	0	0	100
1963	0	0	0	1	6	54	22	27	18	1	0	0	129
1964	0	0	7	3	2	11	31	33	7	0	1	0	95
1965	1	2	0	0	8	28	29	31	14	0	0	0	113
1966	0	1	0	0	2	22	25	28	12	1	0	0	91
1967	0	0	0	1	5	20	22	8	3	1	0	1	61
1968	0	0	1	0	8	26	48	28	11	9	1	0	132
1969	0	0	0	4	6	29	19	14	6	0	0	1	79
1970	0	0	1	0	13	30	35	23	33	4	1	0	140
1971	0	1	0	0	6	34	30	28	17	1	1	0	118
1972	0	0	4	4	6	16	20	34	3	2	1	0	90
1973	0	0	9	1	7	11	24	38	23	9	1	0	123
1974	1	2	0	2	1	15	28	25	9	1	0	0	84
1975	0	0	0	0	9	10	49	24	22	1	0	0	115
1976	0	1	0	4	6	19	27	29	3	1	0	1	91
1977	0	0	0	0	5	19	26	46	41	0	1	0	138
1978	0	0	0	1	2	19	28	20	39	5	0	0	114
1979	0	0	2	4	9	9	27	22	4	2	0	0	79
1980	0	1	1	8	4	25	29	102	16	0	0	0	186
1981	0	0	1	4	19	23	80	39	5	1	12	0	184
1982	1	0	2	3	4	8	12	16	8	4	4	1	63
1983	0	0	23	3	11	8	43	73	12	30	0	0	203
1984	0	0	1	4	5	26	57	22	40	0	1	0	156
1985	0	0	0	2	33	38	29	24	23	0	0	0	149
1986	0	2	4	1	9	24	43	25	11	1	0	0	120
1987	0	0	0	4	11	31	49	60	31	2	1	1	190
1988	0	0	0	1	16	7	69	47	2	4	0	0	146
1989	0	0	4	5	10	26	83	35	6	4	2	0	175
1990	0	0	2	2	8	20	64	31	24	1	0	0	152
1991	0	0	0	9	12	52	61	48	24	1	0	0	207
1992	0	0	2	4	30	8	50	37	24	6	0	0	161
1993	1	0	0	1	9	45	55	23	11	1	0	1	147
1994	0	1	0	21	27	33	96	69	23	13	4	1	288
1995	4	1	3	16	18	25	96	50	17	0	3	0	233
1996	2	3	4	12	36	102	66	49	21	6	6	2	309
1997	3	12	7	8	8	69	109	48	27	11	4	0	306
1998	1	3	9	24	28	81	69	45	16	4	2	3	285
1999	3	0	3	8	34	42	67	67	15	3	1	0	243
2000	0	52	6	6	28	90	66	70	34	12	0	0	364
2001	9	0	6	10	45	86	105	77	24	7	1	0	370
2002	1	1	4	9	12	76	80	66	5	0	1	1	256
TOTAL	27	83	111	195	548	1430	2115	1689	746	164	54	14	7176
MEAN	1	2	3	4	12	33	48	38	17	4	1	0	163



# LIGHTNING DEATHS BY STATE, RANK, AND LOCATION OF OCCURRENCE

## 1959-2002



**2002**

STATE	RANK	OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS		OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS	
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
ALABAMA	20	11	24	12	27	8	18	1	2	0	0	0	0	13	29	1	17	0	0	0	0	1	17	0	0	0	0	4	67
ALASKA	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ARIZONA	26	16	50	2	6	1	3	1	3	3	9	2	6	7	22	0	0	0	0	0	0	0	0	0	0	0	0	0	
ARKANSAS	10	21	33	11	17	2	3	5	8	2	3	0	0	22	35	1	100	0	0	0	0	0	0	0	0	0	0	0	
CALIFORNIA	36	3	21	3	21	1	7	2	14	0	0	0	0	5	36	0	0	0	0	0	0	0	0	0	0	0	0	0	
COLORADO	9	31	45	14	20	2	3	2	3	5	7	0	0	15	22	0	0	0	0	0	0	0	0	0	0	0	0	0	
CONNECTICUT	42	2	25	0	0	0	0	0	0	1	13	0	0	5	63	0	0	0	0	0	0	0	0	0	0	0	0	0	
DELAWARE	40	4	44	0	0	3	33	0	0	0	0	0	0	2	22	0	0	0	0	0	0	0	0	0	0	0	0	0	
DIST OF COLUMBIA	47	1	25	2	50	0	0	0	0	1	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
FLORIDA	1	65	27	33	14	63	26	19	8	9	4	0	0	55	23	3	33	1	11	2	22	3	33	0	0	0	0	0	
GEORGIA	14	19	35	9	17	8	15	5	9	2	4	1	2	10	19	1	50	0	0	0	0	1	50	0	0	0	0	0	
HAWAII	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
IDAHO	39	1	11	1	11	1	11	5	56	1	11	0	0	0	0	0	0	0	0	0	1	100	0	0	0	0	0	0	
ILLINOIS	15	13	25	13	25	3	6	4	8	4	8	1	2	15	28	1	100	0	0	0	0	0	0	0	0	0	0	0	
INDIANA	22	9	21	16	38	2	5	3	7	1	2	0	0	11	26	0	0	0	0	0	0	0	0	0	0	0	0	0	
IOWA	24	6	18	1	3	1	3	5	15	1	3	0	0	19	58	0	0	0	0	0	0	0	0	0	0	0	0	0	
KANSAS	28	11	42	0	0	4	15	3	12	0	0	0	0	8	31	0	0	0	0	0	0	0	0	0	0	0	0	0	
KENTUCKY	19	10	22	4	9	2	4	2	4	2	4	1	2	24	53	0	0	0	0	0	0	0	0	0	0	0	0	0	
LOUISIANA	7	6	8	26	35	19	26	6	8	0	0	0	0	17	23	0	0	1	50	1	50	0	0	0	0	0	0	0	
MAINE	38	0	0	0	0	5	42	0	0	0	0	0	0	7	58	0	0	0	0	0	0	0	0	0	0	0	0	0	
MARYLAND	2	7	7	4	4	10	9	1	1	0	0	1	1	83	78	0	0	0	0	0	0	0	0	0	0	0	1	100	
MASSACHUSETTS	37	4	31	1	8	0	0	0	0	1	8	1	8	6	46	0	0	0	0	0	0	0	0	0	0	0	0	0	
MICHIGAN	12	16	27	15	25	8	13	3	5	6	10	2	3	10	17	0	0	0	0	0	0	1	100	0	0	0	0	0	
MINNESOTA	25	13	41	7	22	3	9	3	9	2	6	1	3	3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	
MISSISSIPPI	16	16	31	13	25	7	13	4	8	0	0	0	0	12	23	0	0	1	50	1	50	0	0	0	0	0	0	0	
MISSOURI	18	10	20	9	18	8	16	2	4	2	4	1	2	17	35	1	20	0	0	0	0	0	0	0	0	0	4	80	
MONTANA	35	5	36	2	14	1	7	4	29	0	0	0	0	2	14	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEBRASKA	30	11	44	2	8	2	8	6	24	0	0	0	0	4	16	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEVADA	46	0	0	0	0	0	0	0	0	1	25	0	0	3	75	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEW HAMPSHIRE	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEW JERSEY	27	8	30	6	22	5	19	0	0	2	7	0	0	6	22	0	0	0	0	1	100	0	0	0	0	0	0	0	
NEW MEXICO	17	25	50	6	12	3	6	0	0	0	0	2	4	14	28	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEW YORK	5	12	15	16	21	9	12	3	4	4	5	0	0	34	44	1	50	0	0	0	0	0	0	0	0	0	1	50	
NORTH CAROLINA	6	17	22	11	14	8	11	4	5	2	3	0	0	34	45	1	50	1	50	0	0	0	0	0	0	0	0	0	
NORTH DAKOTA	43	2	29	0	0	0	0	3	43	0	0	0	0	2	29	0	0	0	0	0	0	0	0	0	0	0	0	0	

\* ON DECEMBER 8, 1963 THE CRASH OF A JETLINER KILLING 81 PEOPLE NEAR ELKIN, MARYLAND, WAS ATTRIBUTED TO LIGHTNING BY THE CIVIL AERONAUTICS BOARD INVESTIGATORS.



# LIGHTNING DEATHS BY STATE, RANK, AND LOCATION OF OCCURRENCE

## 1959-2002



2002

STATE	RANK	OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS		OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS		
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	
OHIO	8	18	25	10	14	8	11	8	11	6	8	1	1	21	29	0	0	0	0	0	0	1	100	0	0	0	0	0	0	0
OKLAHOMA	13	20	37	4	7	15	28	4	7	0	0	2	4	9	17	0	0	1	100	0	0	0	0	0	0	0	0	0	0	
OREGON	50	1	33	1	33	0	0	0	0	0	0	0	0	1	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PENNSYLVANIA	11	25	42	5	8	1	2	1	2	4	7	0	0	24	40	1	100	0	0	0	0	0	0	0	0	0	0	0	0	
PUERTO RICO	41	3	38	2	25	1	13	0	0	0	0	0	0	2	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RHODE ISLAND	49	0	0	0	0	0	0	0	0	0	0	0	0	3	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOUTH CAROLINA	21	6	14	14	32	7	16	6	14	2	5	1	2	8	18	0	0	1	50	1	50	0	0	0	0	0	0	0	0	
SOUTH DAKOTA	34	3	21	1	7	3	21	5	36	1	7	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TENNESSEE	4	19	23	22	27	4	5	8	10	5	6	1	1	23	28	1	33	0	0	0	0	2	67	0	0	0	0	0	0	
TEXAS	3	34	35	16	16	15	15	11	11	3	3	0	0	19	19	0	0	0	0	1	50	1	50	0	0	0	0	0	0	
UTAH	31	13	54	6	25	0	0	2	8	0	0	0	0	3	13	2	100	0	0	0	0	0	0	0	0	0	0	0	0	
VERMONT	44	2	40	1	20	0	0	0	0	0	0	0	0	2	40	1	100	0	0	0	0	0	0	0	0	0	0	0	0	
VIRGINIA	29	8	32	5	20	1	4	3	12	1	4	0	0	7	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WASHINGTON	45	2	50	1	25	0	0	1	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WEST VIRGINIA	33	4	24	6	35	1	6	1	6	0	0	0	0	5	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WISCONSIN	23	13	39	3	9	6	18	2	6	2	6	0	0	7	21	0	0	1	100	0	0	0	0	0	0	0	0	0	0	
WYOMING	32	12	67	1	6	2	11	0	0	0	0	0	0	3	17	0	0	1	100	0	0	0	0	0	0	0	0	0	0	
UNITED STATES	0	559	28	337	17	253	13	150	8	76	4	18	1	603	30	15	29	8	16	7	14	11	22	0	0	0	0	10	20	

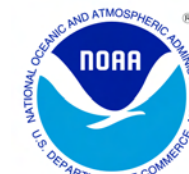






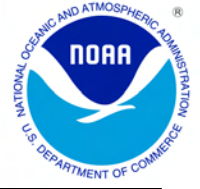
# LIGHTNING INJURIES BY STATE, RANK, AND LOCATION OF OCCURRENCE

## 1959-2002



**2002**

STATE	RANK	OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS		OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS	
		NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%	NO.	%
OHIO	4	82	24	74	22	10	3	4	1	35	10	12	4	120	36	6	38	9	56	0	0	0	0	0	0	0	0	1	6
OKLAHOMA	13	68	39	8	5	9	5	5	3	0	0	11	6	74	42	0	0	1	100	0	0	0	0	0	0	0	0	0	
OREGON	49	4	33	0	0	0	0	0	0	0	0	1	8	7	58	0	0	0	0	0	0	0	0	0	0	0	0	0	
PENNSYLVANIA	5	137	41	35	11	3	1	6	2	0	0	6	2	146	44	11	73	0	0	0	0	0	0	0	0	0	4	27	
PUERTO RICO	51	2	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
RHODE ISLAND	42	4	17	6	26	1	4	0	0	0	0	0	0	12	52	1	50	0	0	1	50	0	0	0	0	0	0	0	
SOUTH CAROLINA	18	36	26	18	13	6	4	2	1	4	3	4	3	68	49	0	0	2	33	0	0	0	0	0	0	1	17	3	50
SOUTH DAKOTA	40	11	28	2	5	4	10	5	13	1	3	1	3	15	38	0	0	0	0	0	0	0	0	0	0	0	0	0	
TENNESSEE	10	78	33	58	25	5	2	8	3	2	1	8	3	74	32	3	12	0	1	4	0	0	0	0	1	4	20	80	
TEXAS	9	87	35	35	14	13	5	10	4	4	2	3	1	96	39	0	0	0	0	0	0	3	60	0	0	0	2	40	
UTAH	35	13	21	19	31	2	3	4	6	2	3	2	3	20	32	0	0	0	0	0	0	0	0	0	0	0	0	0	
VERMONT	48	4	33	1	8	0	0	0	0	0	0	0	0	7	58	0	0	0	0	0	0	0	0	0	0	0	0	0	
VIRGINIA	17	28	19	11	7	8	5	1	1	6	4	7	5	89	59	2	50	0	0	0	0	0	0	0	1	25	1	25	
WASHINGTON	41	23	66	5	14	0	0	0	0	0	0	1	3	6	17	1	100	0	0	0	0	0	0	0	0	0	0	0	
WEST VIRGINIA	29	34	36	7	7	3	3	4	4	2	2	0	0	45	47	0	0	0	0	0	0	3	100	0	0	0	0	0	
WISCONSIN	15	66	41	7	4	6	4	3	2	6	4	4	2	70	43	0	0	4	100	0	0	0	0	0	0	0	0	0	
WYOMING	34	25	40	0	0	15	24	5	8	3	5	0	0	14	23	0	0	0	0	5	100	0	0	0	0	0	0	0	
UNITED STATES	0	2135	30	999	14	394	5	323	5	224	3	213	3	888	40	75	29	32	13	23	9	31	12	1	0	4	2	90	35



# TORNADO SUMMARY BY STATE AND NATION, 2002

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>ALABAMA</b>													
NUMBER	0	0	1	1	0	0	1	0	6	3	17	8	37
DAYS	0	0	1	1	0	0	1	0	5	3	2	3	16
DEATHS	0	0	0	0	0	0	0	0	0	0	13	0	13
INJURIES	0	0	0	0	0	0	0	0	0	0	123	8	131
<b>ARKANSAS</b>													
NUMBER	0	0	1	0	1	1	1	0	0	0	1	30	35
DAYS	0	0	1	0	1	1	1	0	0	0	1	1	6
DEATHS	0	0	0	0	0	0	0	0	0	0	0	1	1
INJURIES	0	0	0	0	2	0	0	0	0	0	0	15	17
<b>CALIFORNIA</b>													
NUMBER	0	0	0	0	1	0	0	0	0	0	0	2	3
DAYS	0	0	0	0	1	0	0	0	0	0	0	1	2
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>COLORADO</b>													
NUMBER	0	0	0	0	1	5	2	15	2	0	0	0	25
DAYS	0	0	0	0	1	2	2	5	2	0	0	0	12
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>CONNECTICUT</b>													
NUMBER	0	0	0	0	2	3	0	0	0	0	0	0	5
DAYS	0	0	0	0	1	2	0	0	0	0	0	0	3
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>FLORIDA</b>													
NUMBER	1	0	0	1	4	8	10	3	6	2	4	4	43
DAYS	1	0	0	1	4	7	8	3	1	2	2	3	32
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	1	0	0	1	2
<b>GEORGIA</b>													
NUMBER	0	0	0	0	1	0	0	0	1	2	8	12	24
DAYS	0	0	0	0	1	0	0	0	1	2	5	1	10
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	17	2	19
<b>GUAM</b>													
NUMBER	0	0	0	0	0	0	0	0	0	0	1	0	1
DAYS	0	0	0	0	0	0	0	0	0	0	1	0	1
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>HAWAII</b>													
NUMBER	0	0	1	0	0	0	0	0	0	0	0	0	1
DAYS	0	0	1	0	0	0	0	0	0	0	0	0	1
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>IDAHO</b>													
NUMBER	0	1	0	0	0	1	0	0	1	0	0	0	3
DAYS	0	1	0	0	0	1	0	0	1	0	0	0	3
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ILLINOIS</b>													
NUMBER	0	0	0	10	17	8	0	0	0	0	2	0	37
DAYS	0	0	0	6	5	3	0	0	0	0	1	0	15
DEATHS	0	0	0	2	2	0	0	0	0	0	0	0	4
INJURIES	0	0	0	63	1	0	0	0	0	0	0	0	64
<b>INDIANA</b>													
NUMBER	0	0	0	2	0	1	1	2	6	0	3	0	15
DAYS	0	0	0	2	0	1	1	2	1	0	1	0	8
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	12	0	0	0	0	130	0	3	0	145
<b>IOWA</b>													
NUMBER	0	0	0	11	4	10	2	4	0	0	0	0	31
DAYS	0	0	0	3	1	5	1	3	0	0	0	0	13
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>KANSAS</b>													
NUMBER	0	0	0	4	62	18	1	8	0	0	0	2	95
DAYS	0	0	0	3	6	5	1	3	0	0	0	1	19
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	1	0	0	0	0	0	0	0	1

\* CORRECTED FOR BOUNDARY-CROSSING TORNADOES  
& TORNADO DAYS FOR COUNTRY AS A WHOLE



# TORNADO SUMMARY BY STATE AND NATION, 2002

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>KENTUCKY</b>													
NUMBER	1	0	1	8	1	0	1	0	0	1	3	0	16
DAYS	1	0	1	1	1	0	1	0	0	1	1	0	7
DEATHS	0	0	0	1	0	0	0	0	0	0	0	0	1
INJURIES	0	0	0	33	0	0	0	0	0	0	0	0	33
<b>LOUISIANA</b>													
NUMBER	0	0	2	0	0	0	0	1	1	23	2	4	33
DAYS	0	0	2	0	0	0	0	1	1	4	2	3	13
DEATHS	0	0	0	0	0	0	0	0	0	2	0	0	2
INJURIES	0	0	0	0	0	0	0	0	0	5	2	1	8
<b>MAINE</b>													
NUMBER	0	0	0	0	1	0	2	0	0	0	0	0	3
DAYS	0	0	0	0	1	0	2	0	0	0	0	0	3
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MARYLAND</b>													
NUMBER	1	0	0	5	7	1	0	0	0	0	0	0	14
DAYS	1	0	0	1	3	1	0	0	0	0	0	0	6
DEATHS	0	0	0	3	0	0	0	0	0	0	0	0	3
INJURIES	0	0	0	122	0	0	0	0	0	0	0	0	122
<b>MASSACHUSETTS</b>													
NUMBER	0	0	0	0	0	0	1	0	0	0	0	0	1
DAYS	0	0	0	0	0	0	1	0	0	0	0	0	1
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MICHIGAN</b>													
NUMBER	0	0	0	0	1	0	2	6	3	0	0	0	12
DAYS	0	0	0	0	1	0	2	2	1	0	0	0	6
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>MINNESOTA</b>													
NUMBER	0	0	0	0	6	9	7	10	2	0	0	0	34
DAYS	0	0	0	0	2	4	6	4	2	0	0	0	18
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	1	0	0	0	0	0	0	1
<b>MISSISSIPPI</b>													
NUMBER	0	1	2	2	1	0	0	0	0	10	7	6	29
DAYS	0	1	2	1	1	0	0	0	0	2	2	3	12
DEATHS	0	0	0	0	0	0	0	0	0	0	1	0	1
INJURIES	0	0	0	0	0	0	0	0	0	0	55	1	56
<b>MISSOURI</b>													
NUMBER	0	0	0	11	3	0	2	2	0	0	1	9	28
DAYS	0	0	0	4	2	0	1	1	0	0	1	2	11
DEATHS	0	0	0	1	0	0	0	0	0	0	0	3	4
INJURIES	0	0	0	35	0	0	0	0	0	0	0	26	61
<b>MONTANA</b>													
NUMBER	0	0	0	0	0	2	6	3	0	0	0	0	11
DAYS	0	0	0	0	0	2	1	1	0	0	0	0	4
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NEBRASKA</b>													
NUMBER	0	0	0	2	8	3	7	7	0	0	0	0	27
DAYS	0	0	0	1	2	2	3	3	0	0	0	0	11
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NEVADA</b>													
NUMBER	0	0	0	0	0	0	0	1	0	0	0	0	1
DAYS	0	0	0	0	0	0	0	1	0	0	0	0	1
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NEW MEXICO</b>													
NUMBER	0	0	0	0	0	1	0	1	1	0	0	0	3
DAYS	0	0	0	0	0	1	0	1	1	0	0	0	3
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NEW YORK</b>													
NUMBER	0	0	0	2	7	3	1	1	0	0	0	0	14
DAYS	0	0	0	1	1	2	1	1	0	0	0	0	6
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	8	0	0	0	0	0	0	0	8

\* CORRECTED FOR BOUNDARY-CROSSING TORNADOES  
& TORNADO DAYS FOR COUNTRY AS A WHOLE



# TORNADO SUMMARY BY STATE AND NATION, 2002

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>NORTH CAROLINA</b>													
NUMBER	0	0	0	0	1	0	1	1	1	7	0	0	11
DAYS	0	0	0	0	1	0	1	1	1	1	0	0	5
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>NORTH DAKOTA</b>													
NUMBER	0	0	0	0	0	6	6	5	0	0	0	0	17
DAYS	0	0	0	0	0	3	3	4	0	0	0	0	10
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>OHIO</b>													
NUMBER	0	0	0	2	2	0	0	0	2	0	18	0	24
DAYS	0	0	0	2	2	0	0	0	1	0	1	0	6
DEATHS	0	0	0	0	0	0	0	0	0	0	5	0	5
INJURIES	0	0	0	2	3	0	0	0	0	0	25	0	30
<b>OKLAHOMA</b>													
NUMBER	0	0	0	7	7	2	0	0	2	0	0	0	18
DAYS	0	0	0	4	4	2	0	0	1	0	0	0	11
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	1	0	0	0	0	0	0	0	0	1
<b>OREGON</b>													
NUMBER	0	0	0	0	0	0	1	0	0	0	1	0	2
DAYS	0	0	0	0	0	0	1	0	0	0	1	0	2
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PENNSYLVANIA</b>													
NUMBER	0	0	0	8	1	2	3	0	0	0	2	0	16
DAYS	0	0	0	1	1	2	3	0	0	0	1	0	8
DEATHS	0	0	0	0	0	0	0	0	0	0	1	0	1
INJURIES	0	0	0	2	0	0	0	0	0	0	19	0	21
<b>SOUTH CAROLINA</b>													
NUMBER	0	0	0	0	3	0	1	0	1	1	6	0	12
DAYS	0	0	0	0	1	0	1	0	1	1	1	0	5
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	8	2	0	10
<b>SOUTH DAKOTA</b>													
NUMBER	0	0	0	0	0	6	4	2	0	0	0	0	12
DAYS	0	0	0	0	0	1	2	2	0	0	0	0	5
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>TENNESSEE</b>													
NUMBER	0	0	0	6	1	0	0	0	0	0	23	0	30
DAYS	0	0	0	2	1	0	0	0	0	0	2	0	5
DEATHS	0	0	0	0	0	0	0	0	0	0	17	0	17
INJURIES	0	0	0	31	0	0	0	0	0	0	86	0	117
<b>TEXAS</b>													
NUMBER	0	0	39	25	58	4	1	4	13	7	0	22	173
DAYS	0	0	3	4	13	2	1	4	5	3	0	2	37
DEATHS	0	0	0	0	2	0	0	0	0	1	0	0	3
INJURIES	0	0	36	0	4	0	0	0	3	26	0	3	72
<b>UTAH</b>													
NUMBER	0	0	0	0	0	0	0	0	4	0	0	0	4
DAYS	0	0	0	0	0	0	0	0	2	0	0	0	2
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>VERMONT</b>													
NUMBER	0	0	0	0	0	1	0	0	0	0	0	0	1
DAYS	0	0	0	0	0	1	0	0	0	0	0	0	1
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>VIRGINIA</b>													
NUMBER	0	0	0	4	2	1	0	0	0	0	0	0	7
DAYS	0	0	0	1	1	1	0	0	0	0	0	0	3
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	17	0	0	0	0	0	0	0	0	17
<b>WEST VIRGINIA</b>													
NUMBER	0	0	0	1	0	0	0	0	0	0	0	0	1
DAYS	0	0	0	1	0	0	0	0	0	0	0	0	1
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0

\* CORRECTED FOR BOUNDARY-CROSSING TORNADOES  
& TORNADO DAYS FOR COUNTRY AS A WHOLE



# TORNADO SUMMARY BY STATE AND NATION, 2002

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>WISCONSIN</b>													
NUMBER	0	0	0	6	3	1	4	2	10	0	0	0	26
DAYS	0	0	0	1	2	1	1	2	2	0	0	0	9
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	2	0	0	28	0	0	0	30
<b>WYOMING</b>													
NUMBER	0	0	0	0	0	0	0	8	0	0	0	0	8
DAYS	0	0	0	0	0	0	0	4	0	0	0	0	4
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>UNITED STATES</b>													
NUMBER	3	2	47	118*	206*	97	68	86	62	56	99*	99*	934*
DAYS	3	2	8	14	25	25	24	21	19	14	6	9	170
DEATHS	0	0	0	7	4	0	0	0	0	3	37	4	55
INJURIES	0	0	36	318	19	3	0	2	162	39	332	57	968

\* CORRECTED FOR BOUNDARY-CROSSING TORNADOES  
& TORNADO DAYS FOR COUNTRY AS A WHOLE





# NATIONS SUMMARY OF TORNADOS, TORNADO DAYS AND DEATHS BY MONTH AND ANNUAL, 1953-2002



YEAR	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			ANNUAL		
	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS	NUMBER	DAYS	DEATHS			
1993	17	8	0	34	7	3	49	11	5	85	15	10	179	26	2	316	27	1	242	31	0	112	26	6	65	17	2	55	9	4	19	6	0	6	3	0	1176	186	33
1994	13	5	0	9	7	0	61	12	40	206	23	12	161	27	0	236	29	3	155	27	3	120	24	4	30	17	0	51	15	0	42	10	7	4	3	0	1082	199	69
1995	36	9	3	7	4	6	49	11	0	130	17	1	394	28	16	219	25	0	163	28	0	53	22	0	19	11	0	74	11	1	79	5	2	19	7	1	1235	178	30
1996	35	10	1	14	5	1	71	10	6	178	16	12	236	29	1	128	27	0	204	28	1	72	24	0	101	20	0	68	10	0	55	8	3	15	7	1	1173	194	26
1997	50	10	2	23	6	1	102	13	28	114	16	1	225	27	29	194	29	0	189	30	4	84	26	1	32	12	1	101	12	0	25	8	0	12	7	0	1148	196	67
1998	47	12	0	73	18	42	74	12	16	190	19	55	314	29	10	389	29	3	82	22	0	62	20	0	104	19	2	86	13	2	27	6	0	6	3	0	1449	202	130
1999	214	12	16	22	7	0	56	12	1	178	19	15	316	29	53	289	27	4	99	28	0	81	22	1	54	16	0	19	7	0	8	3	0	15	4	2	1340	186	92
2000	16	4	0	58	12	19	103	20	2	136	19	2	241	29	3	136	27	0	148	31	1	53	23	0	47	17	2	64	15	0	50	11	0	26	4	12	1076	212	41
2001	5	2	0	30	3	8	33	8	3	139	15	5	240	26	1	247	28	4	122	25	0	69	19	0	85	19	2	119	9	2	111	11	15	22	9	0	1213	174	40
2002	3	3	0	2	2	0	47	8	0	118	14	7	206	25	4	97	25	0	68	24	0	86	21	0	62	19	0	56	14	3	99	6	37	99	9	4	934	170	55
POR	982	254	121	1103	298	284	2766	604	414	5693	866	1301	93	66	301	8753	1330	512	4961	1279	56	3101	1059	112	2170	733	73	1639	428	88	1675	335	201	961	255	137	43077	8711	4236
MEAN	20	5	2	22	6	6	55	12	8	114	17	26	187	25	19	175	27	10	99	26	1	62	21	2	43	15	1	33	9	2	34	7	4	19	5	3	862	174	85





# TORNADOES, TORNADO DAYS AND DEATHS BY STATE AND NATION 1953-2002



STATE	TORNADOES							DAYS		DEATHS		
	TOTAL	AVERAGE	GREATEST	YEAR	LEAST	YEAR	PER # 10,000 Sq.Mi.	TOTAL	AVERAGE	TOTAL	AVERAGE	PER # 10,000 Sq.Mi.
ALABAMA	1210	24	55	2001	5	1956	4.65	591	12	354	7	69
ALASKA	1	0	1	1959	0	1989+	.00	1	0	0	0	0
ARIZONA	192	4	17	1972	0	1965+	.36	150	3	3	0	0
ARKANSAS	1199	24	106	1999	2	1987+	4.52	502	10	229	5	43
CALIFORNIA	326	7	25	1998	0	1968+	.44	233	5	0	0	0
COLORADO	1601	32	98	1996+	1	1959	3.07	781	16	2	0	0
CONNECTICUT	76	2	8	1973	0	1988+	3.99	64	1	4	0	8
DELAWARE	55	1	6	1992	0	1987+	4.86	44	1	2	0	10
DISTRICT OF COLUMBIA	2	0	1	1995+	0		0	.0	2	0	0	0
FLORIDA	2685	54	115	1997	10	1956	9.22	1651	33	133	3	23
GEORGIA	1064	21	52	1994	2	1987	3.57	569	11	148	3	25
HAWAII	28	1	4	1971	0	1987+	1.55	24	0	0	0	0
IDAHO	163	3	13	2000	0	1977+	.36	130	3	0	0	0
ILLINOIS	1625	33	107	1974	4	1953	5.85	672	13	186	4	33
INDIANA	1063	21	49	1990	4	1984	5.79	488	10	223	4	61
IOWA	1781	36	105	2001	7	1956	6.40	742	15	65	1	12
KANSAS	2645	53	116	1991	14	1976	6.44	1051	21	197	4	24
KENTUCKY	552	11	39	1997	0	1953	2.72	291	6	111	2	27
LOUISIANA	1351	27	79	1992	3	1955	5.56	731	15	116	2	24
MAINE	96	2	11	1971	0	1987+	.60	86	2	1	0	0
MARYLAND	257	5	24	1995	0	1988+	4.73	154	3	7	0	7
MASSACHUSETTS	143	3	12	1958	0	1988+	3.63	102	2	102	2	124
MICHIGAN	840	17	39	1974	2	1959	2.92	470	9	238	5	41
MINNESOTA	1203	24	73	2001	5	1988+	2.85	577	12	86	2	10
MISSISSIPPI	1312	26	62	1988	1	1979	5.45	609	12	384	8	80
MISSOURI	1408	28	79	1973	6	1977+	4.02	619	12	142	3	20
MONTANA	337	7	30	1991	0	1974+	.48	227	5	1	0	0
NEBRASKA	2142	43	102	1999	10	1966	5.57	914	18	51	1	7
NEVADA	66	1	8	1987+	0	1985+	.09	61	1	0	0	0
NEW HAMPSHIRE	77	2	9	1963	0	1987+	2.15	68	1	0	0	0
NEW JERSEY	127	3	17	1989	0	1984+	3.83	97	2	0	0	0
NEW MEXICO	466	9	31	1991	0	1953	.74	336	7	3	0	0
NEW YORK	321	6	25	1992	0	1953	1.21	215	4	21	0	4
NORTH CAROLINA	866	17	66	1998	2	1970	3.23	460	9	85	2	16
NORTH DAKOTA	1057	21	58	1999	2	1961	2.97	530	11	22	0	3
OHIO	782	16	61	1992	0	1988	3.88	398	8	182	4	44
OKLAHOMA	2796	56	144	1999	17	1988	8.01	1050	21	256	5	37
OREGON	85	2	14	1997	0	1988+	.21	74	1	0	0	0
PENNSYLVANIA	608	12	60	1998	0	1959	2.65	354	7	82	2	18
PUERTO RICO	14	0	2	1979+	0	1989+	.00	13	0	0	0	0
RHODE ISLAND	9	0	3	1986	0	1988+	.00	8	0	0	0	0
SOUTH CAROLINA	643	13	54	1995	1	1986+	4.19	372	7	50	1	16
SOUTH DAKOTA	1394	28	85	1993	1	1958	3.63	613	12	15	0	2
TENNESSEE	713	14	44	1974	1	1987+	3.31	348	7	137	3	32
TEXAS	6883	138	232	1967+	32	1953	5.16	2486	50	502	10	19
UTAH	106	2	7	1998	0	1989+	.24	89	2	1	0	0
VERMONT	34	1	5	1962	0	1985+	1.04	31	1	0	0	0
VIRGINIA	395	8	28	1993	1	1982+	1.96	242	5	25	1	6
VIRGIN ISLANDS	2	0	1	1979+	0	1989+	.00	2	0	0	0	0
WASHINGTON	78	2	14	1997	0	1988+	.29	66	1	6	0	1
WEST VIRGINIA	111	2	16	1998	0	1988+	.83	86	2	2	0	1
WISCONSIN	985	20	43	1980	3	1953	3.63	499	10	85	2	15
WYOMING	542	11	42	1977	0	1970	1.12	357	7	2	0	0
PACIFIC ISLANDS	2	0	1	1981+	0	1989+	.00	2	0	0	0	0
UNITED STATES	44247*	885	1449	1998	421	1953	2.45	8907&	178	4261	85	12

+ ALSO IN EARLIER YEAR(S).

\* CORRECTED FOR BOUNDARY-CROSSING TORNADOES.

& TORNADOES DAYS FOR COUNTRY AS A WHOLE.

# MEAN ANNUAL TORNADOES PER  
10,000 SQUARE MILES.

' NUMBER OF DEATHS PER  
10,000 SQUARE MILES.



# NATIONAL TORNADOES, TORNADO DAYS, DEATHS AND RESULTING LOSSES BY YEARS, 1916 - 2002



YEAR	NUMBER TORNADOES	TORNADO DAYS	TOTAL DEATHS	MOST DEATHS IN SINGLE TORNADO	TOTAL PROPERTY LOSSES \$	PROPERTY LOSS FREQUENCY *		
						CATEGORY 5	CATEGORY 6	CATEGORY 7 AND OVER
1916	90	36	150	30	6	7	1	0
1917	121	38	551	101	7	21	9	0
1918	81	45	136	36	7	20	5	0
1919	64	35	206	59	7	10	2	0
1920	87	50	499	87	7	14	10	0
1921	105	55	202	61	7	22	3	0
1922	108	64	135	16	7	27	5	0
1923	102	59	110	23	6	21	1	0
1924	130	57	376	85	7	26	11	1
1925	119	65	794	689	7	34	2	1
1926	111	57	144	23	6	28	0	0
1927	163	62	540	92	7	42	9	1
1928	203	79	95	14	7	40	7	0
1929	197	74	274	40	7	48	4	0
1930	192	72	179	41	7	38	6	0
1931	94	57	36	6	6	14	1	0
1932	151	67	394	37	7	23	1	1
1933	258	96	362	34	7	46	9	0
1934	147	77	47	6	6	10	3	0
1935	180	77	71	11	6	29	0	0
1936	151	71	552	216	7	17	5	1
1937	147	75	29	5	6	24	0	0
1938	213	76	183	32	7	29	6	0
1939	152	75	91	27	7	21	3	0
1940	124	62	65	18	7	13	2	0
1941	118	57	53	25	6	24	1	0
1942	167	66	384	65	7	42	10	0
1943	152	61	58	5	7	28	8	0
1944	169	68	275	100	7	50	9	0
1945	121	66	210	69	7	21	10	1
1946	106	65	78	15	7	29	7	0
1947	165	78	313	169	7	46	7	1
1948	183	68	139	33	7	62	11	2
1949	249	80	211	58	7	54	13	0
1950	200	88	70	18	7	47	9	0
1951	262	113	34	6	7	35	11	2
1952	240	98	229	57	7	53	19	0
1953	421	136	515	116	8	63	18	7
1954	550	160	36	6	7	63	8	1
1955	593	152	126	80	7	74	13	1
1956	504	155	83	25	7	83	24	1
1957	856	154	192	44	8	129	26	3
1958	564	166	66	19	7	70	8	1
1959	604	156	58	21	7	70	4	1
1960	616	172	46	16	7	65	11	1
1961	697	169	51	16	7	103	21	1
1962	657	152	28	17	7	51	10	0
1963	464	141	31	5	7	77	15	1
1964	704	156	73	22	7	113	17	5
1965	906	181	299	44	8	126	30	11
1966	585	150	98	58	8	79	13	4
1967	926	173	114	33	8	125	33	8
1968	660	171	131	34	8	82	26	6
1969	608	155	66	32	8	98	16	3
1970	653	171	72	26	8	97	24	6
1971	888	192	156	58	8	71	30	5
1972	741	194	27	6	8	100	28	1
1973	1102	206	87	7	9	219	67	9
1974	947	184	361	34	9	166	82	25
1975	920	204	60	9	9	189	31	11

NOTE:-THE ABOVE ESTIMATED LOSSES ARE BASED ON VALUES AT TIME OF OCCURRENCE.  
MEAN WAS DERIVED FROM DATA FOR PERIOD 1953-1992.

\$ STORM DAMAGES IN CATEGORIES:

- |                                |                                  |
|--------------------------------|----------------------------------|
| 5. \$50,000 TO \$500,000       | 8. \$50 MILLION TO \$500 MILLION |
| 6. \$500,000 TO \$5 MILLION    | 9. \$500 MILLION AND OVER        |
| 7. \$5 MILLION TO \$50 MILLION |                                  |

\* NUMBER OF TIMES PROPERTY LOSSES REPORTED IN STORM DATA IN CATEGORIESS 5, 6, 7 AND OVER.



# NATIONAL TORNADOES, TORNADO DAYS, DEATHS AND RESULTING LOSSES BY YEARS, 1916 - 2002



YEAR	NUMBER TORNADOES	TORNADO DAYS	TOTAL DEATHS	MOST DEATHS IN SINGLE TORNADO	TOTAL PROPERTY LOSSES \$	PROPERTY LOSS FREQUENCY *		
						CATEGORY 5	CATEGORY 6	CATEGORY 7 AND OVER
1976	835	169	44	5	8	145	41	5
1977	852	189	43	22	8	173	40	6
1978	788	173	53	16	9	153	53	6
1979	852	186	84	42	9	169	62	11
1980	866	176	28	5	9	201	79	13
1981	783	175	24	5	9	144	43	12
1982	1046	182	64	10	9	254	79	13
1983	931	190	34	3	9	211	85	10
1984	907	166	122	16	9	193	90	35
1985	684	168	94	18	9	114	55	14
1986	764	168	15	3	9	157	66	9
1987	656	151	59	30	8	112	32	6
1988	702	156	32	5	9	148	48	17
1989	856	160	50	21	9	133	60	18
1990	1133	181	53	29	8	215	91	18
1991	1132	179	39	17	8	194	49	15
1992	1298	195	39	12	8	212	83	25
1993	1176	186	33	7	8	186	59	13
1994	1082	199	69	22	8	194	68	15
1995	1235	178	30	6	8	203	52	11
1996	1173	194	26	7	9	225	92	20
1997	1148	196	67	27	8	201	63	10
1998	1449	202	130	32	9	317	122	39
1999	1340	186	92	36	8	227	104	21
2000	1076	212	41	11	8	182	53	15
2001	1213	174	40	6	8	234	82	24
2002	934	170	55	7	8	132	85	23
MEAN	862	174	85	-	-	147	48	11

NOTE:-THE ABOVE ESTIMATED LOSSES ARE BASED ON VALUES AT TIME OF OCCURRENCE.  
MEAN WAS DERIVED FROM DATA FOR PERIOD 1953-1992.

\$ STORM DAMAGES IN CATEGORIES:

- |                                |                                  |
|--------------------------------|----------------------------------|
| 5. \$50,000 TO \$500,000       | 8. \$50 MILLION TO \$500 MILLION |
| 6. \$500,000 TO \$5 MILLION    | 9. \$500 MILLION AND OVER        |
| 7. \$5 MILLION TO \$50 MILLION |                                  |

\* NUMBER OF TIMES PROPERTY LOSSES REPORTED IN STORM DATA IN CATEGORIESS 5, 6, 7 AND OVER.

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