

# 2004 Annual Summaries

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

## FLOOD/FLASH FLOOD



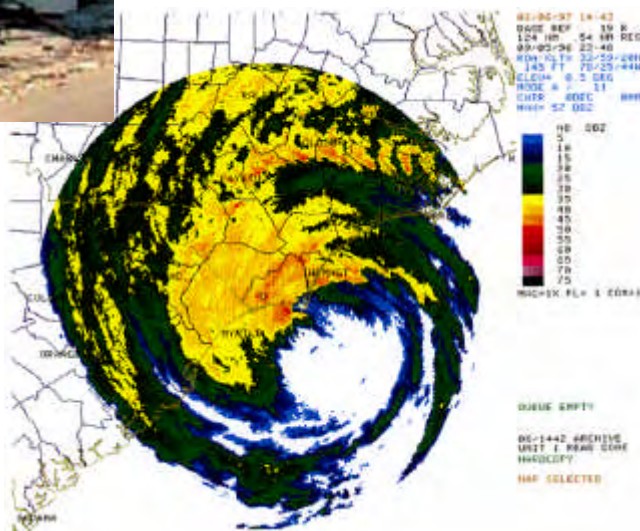
## Lightning



## Tornado



## Hurricane



# 2004 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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**Published by:**

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## Summary of Natural Hazard Statistics for 2004 in the United States



This National Weather Service (NWS) report summarizes fatalities, injuries and damages caused by severe weather in 2004. 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 2004 Weather Events, Fatalities, Injuries, and Damage Costs

LAST UPDATED : 7/13/2005

<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	32	280	\$ 26.1	\$ 0.0	\$ 26.1
Tornado	35	396	537.1	12.1	549.2
Tstm Wind	16	244	167.3	15.6	182.9
Hail	0	4	463.0	73.0	536.0
<b><u>Extreme Temperatures</u></b>					
Cold	27	2	0.7	0.0	0.7
Heat	6	74	0.0	0.0	0.0
<b><u>Flood</u></b>					
Flash Flood	58	29	856.7	12.2	868.9
River Flood	24	99	839.5	329.2	1,168.7
Small Stream/Urban Flood	0	0	0.0	0.0	0.0
<b><u>Marine</u></b>					
Coastal Storm	30	29	0.5	0.0	0.5
Tsunami	0	0	0.0	0.0	0.0
Rip Current	32	23	0.0	0.0	0.0
<b><u>Tropical Cyclones</u></b>					
Tropical Storm/Hurricane	34	840	18,901.8	667.3	19,569.1
<b><u>Winter</u></b>					
Winter Storm	28	190	183.5	0.2	183.7
Ice	0	0	0.0	0.0	0.0
Avalanche	12	6	0.1	0.0	0.1
<b><u>Other</u></b>					
Drought	0	0	0.0	1.2	1.2
Dust Storm	0	11	0.1	0.0	0.1
Dust Devil	0	5	0.0	0.0	0.0
Rain	4	9	3.6	0.5	4.1
Fog	1	45	1.6	0.0	1.6
High Wind	26	68	3,312.8	340.5	3,653.3
Waterspout	0	0	0.0	0.0	0.0
Fire Weather	0	0	16.9	0.0	16.9
Mud Slide	4	11	32.3	0.0	32.3
Volcanic Ash	0	0	0.0	0.0	0.0
Miscellaneous	0	63	2.8	0.3	3.1
<b>TOTALS</b>	<b>369</b>	<b>2428</b>	<b>\$25,346.4M</b>	<b>\$1,452.1M</b>	<b>\$26,798.5M</b>

## Summary of 2004 Natural Hazard Statistics

In 2004, there were 369 weather-related fatalities, a significant decrease from 438 in 2003 and even more notable drop from 542 in 2002. The 2004 fatality number is well below the 10-year average (1994-2003) of 521. The biggest weather threat to life in 2004 was flooding. In 2004, flooding took the most lives, claiming 82 weather related victims, down from 86 in 2003. The next biggest killers in 2004 were tornadoes with 35 fatalities and tropical storms/ hurricanes with 34 fatalities, followed by rip currents and lighting with 32 deaths each. For the second year in a row, extreme heat, typically the biggest killer, ranked as one of least dangerous hazards, claiming only 6 lives.

Weather-related injuries dropped in 2004 to 2,428 from 2,924 in 2003. Hurricanes replaced tornadoes as the major source of injuries in 2004 with 840. Tornadoes caused 396 injuries (down from 1,087 in 2003), lightning, 280 and thunderstorm winds, 244.

Of the 367 weather-related fatalities, males again accounted for about twice as many deaths as females. As in the past, males were affected more by weather in all categories.

September was the deadliest month with 72 fatalities, most of which were from a series of strong hurricanes that pounded the southeastern coastal states. As to be expected, in 2004, Florida was hardest hit by weather, losing 61 citizens to hurricanes, rip currents and other hazards. Weather claimed 28 lives in Illinois, 25 in Texas and 22 in North Carolina.

Severe weather caused \$25.3 billion in property damages in 2004, up from \$11.4 billion in 2003 and \$5.7 billion in 2002. Hurricanes replaced wildfires as the most damaging weather in 2004 with an estimated \$18.9 billion in claims. Coming in a distant second was high wind which caused \$3.3 billion in losses and flooding, which registered about \$1.7 billion.

Crop damages for 2004 totaled \$1.45 billion. Hurricanes were responsible for \$667.3 million in losses. Floods destroyed \$340.5 million in crops. Florida took the dubious honor of highest weather related property and crop damages totaling \$19.3 billion in losses, mostly due to intense wind and rain from three major hurricanes, Frances, Ivan and Jeanne.

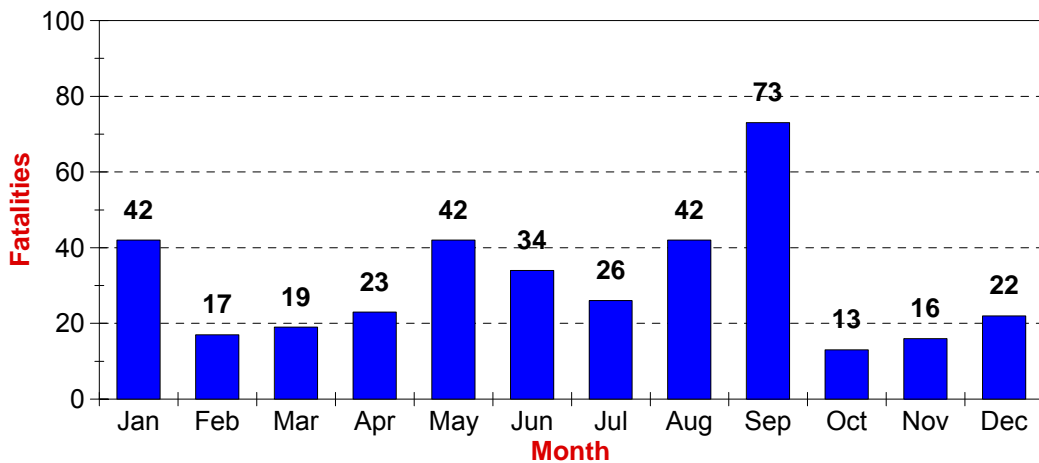
## 2004 Summary of all Natural Hazards

### 2004 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	11	13	0	24	7
10 TO 19	9	20	0	29	8
20 TO 29	11	33	1	45	12
30 TO 39	16	33	0	49	13
40 TO 49	12	40	0	52	14
50 TO 59	14	36	0	50	14
60 TO 69	14	18	0	32	9
70 TO 79	10	12	0	22	6
80 TO 89	12	11	0	23	6
90 TO --	2	1	0	3	1
UNKNOWN	11	21	8	40	11
<b>TOTAL</b>	<b>122</b>	<b>238</b>	<b>9</b>	<b>3695</b>	<b>100*</b>
<b>PERCENT</b>	<b>33</b>	<b>64</b>	<b>2</b>	<b>100</b>	

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

### 2004 MONTHLY WEATHER RELATED FATALITIES



## 2004 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	3	12	21.7	0.0	21.7
AL	5	28	2,599.3	28.5	2,627.8
AR	3	23	25.9	0.0	25.9
AZ	3	18	3.1	0.0	3.1
CA	18	107	54.8	0.4	55.2
CO	7	48	154.6	0.0	154.6
CT	0	2	0.1	0.0	0.1
DC	0	0	0.0	0.0	0.0
DE	1	5	2.5	0.0	2.5
FL	61	889	19,327.6	837.9	20,165.5
GA	7	56	110.5	26.5	137.0
GU	18	21	41.2	3.6	44.8
HI	4	5	80.6	0.8	81.4
IA	1	30	39.4	34.2	73.6
ID	6	6	1.0	0.0	1.0
IL	28	48	27.2	0.4	27.6
IN	6	55	56.3	1.0	57.3
KS	5	37	42.3	12.0	54.3
KY	7	17	75.5	5.9	81.4
LA	3	37	39.0	0.2	39.2
MA	1	14	3.8	0.0	3.8
MD	4	0	10.0	0.0	10.0
ME	0	1	0.7	0.0	0.7
MI	3	13	137.5	6.4	143.9
MN	1	5	20.2	22.3	42.5
MO	11	152	29.6	1.1	30.7
MS	6	18	57.1	0.5	57.6
MT	1	14	0.7	3.2	3.9
NC	23	59	250.8	38.3	289.1
ND	0	1	10.9	0.1	11.0
NE	5	68	201.6	38.1	239.7
NH	0	11	1.2	0.0	1.2
NJ	2	14	88.4	0.0	88.4
NM	0	5	54.2	0.3	54.5
NV	0	3	0.2	0.0	0.2
NY	7	27	114.2	1.4	115.6
OH	4	13	273.5	0.9	274.4
OK	4	15	29.1	0.3	29.4
OR	1	3	0.6	0.0	0.6
PA	20	233	484.2	0.0	484.2
PR	12	3	85.6	101.5	187.1
RI	1	1	0.6	0.0	0.6
SC	9	44	67.4	5.0	72.4
SD	0	2	18.4	0.1	18.5
TN	4	41	14.0	1.7	15.7
TX	25	104	281.6	27.9	309.5
UT	4	14	2.2	0.0	2.2
VA	17	23	104.3	0.0	104.3
VI	0	0	6.2	0.0	6.2
VT	3	2	4.2	0.0	4.2
WA	1	10	6.4	5.5	11.9
WI	3	28	91.8	246.6	338.4
WV	5	10	141.1	0.0	141.1
WY	0	9	1.4	0.0	1.4
<b>TOTAL</b>	<b>363</b>	<b>2404</b>	<b>\$25,296.3 M</b>	<b>\$1,452.6 M</b>	<b>\$26,748.9 M</b>

NOTE: Amounts may be slightly different than those indicated on front page due to those events not occurring in within a state boundary

## 2004 Lightning Fatalities

In 2004, there were 32 lightning fatalities, 11 less than the 2003 total of 43. The 2004 number falls significantly below the 10-year average of 49 fatalities. For the 6th consecutive year, Florida was hardest hit with 5 fatalities; Georgia also lost 5 citizens to lightning; Texas and Colorado each lost 3 lives to lightning. As per previous year, the most dangerous place to be in 2004 was in the open, with 13 deaths (41%); under a tree, 6 (19%). In 2004, as in 2003, almost four times as many men, 26, (81%) as woman, 6, (19%) were killed by lightning. The 30-49 age range accounted for 53% of the fatalities with 17 deaths. Lightning most severely affects younger ages that are active outside.

### 2004 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	1	0	0	0	1
AR	0	0	0	0	0	0	0	1	0	0	1
CA	0	0	0	0	0	0	0	1	0	0	1
CO	0	0	0	0	1	0	0	2	0	0	3
FL	1	0	0	0	1	0	0	2	0	1	5
GA	0	0	0	1	0	0	0	1	0	3	5
IN	1	0	0	0	0	0	0	0	0	0	1
LA	0	1	0	1	0	0	0	0	0	0	2
MS	0	1	0	0	0	0	0	0	0	0	1
NC	0	0	0	0	0	0	0	1	0	0	1
NY	0	0	0	0	0	0	0	0	0	1	1
OH	0	0	0	0	0	1	0	0	0	0	1
RI	0	0	0	0	0	0	0	1	0	0	1
SC	0	1	0	0	0	0	0	1	0	0	2
TN	0	0	0	0	0	0	0	1	0	0	1
TX	0	0	0	0	0	0	0	2	0	1	3
VA	0	0	0	0	0	0	1	0	0	0	1
VT	0	0	0	0	1	0	0	0	0	0	1
<b>TOTAL</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>13</b>	<b>0</b>	<b>6</b>	<b>32</b>
<b>PERCENT</b>	<b>6</b>	<b>9</b>	<b>0</b>	<b>6</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>41</b>	<b>0</b>	<b>19</b>	<b>99*</b>

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

### 2004 LIGHTNING 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	1	4	0	5	16
20 TO 29	1	4	0	5	16
30 TO 39	0	7	0	7	22
40 TO 49	3	7	0	10	31
50 TO 59	0	1	0	1	3
60 TO 69	1	0	0	1	3
70 TO 79	0	1	0	1	3
80 TO 89	0	0	0	0	0
90 TO --	0	0	0	0	0
UNKNOWN	0	2	0	2	6
<b>TOTAL</b>	<b>6</b>	<b>26</b>	<b>0</b>	<b>32</b>	<b>100</b>
<b>PERCENT</b>	<b>19</b>	<b>81</b>	<b>0</b>	<b>100</b>	

#### 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

## 2004 Tornado Fatalities

During 2004, tornadoes in the United States caused 35 deaths. This number of deaths is down 19 from the 2003 total of 54 and down significantly from the 10-year average of 57. Tornado deaths declined in the last 8 years and remain below the 30-year average of 65 per year. In a departure from previous years when mobile homes were the most dangerous place to be, 43% of deaths occurred in permanent homes, 29% in businesses and 23% in mobile homes in 2004. Fatalities were fairly even between the sexes with slightly more males victims, 18, than female, 17. Victims spanned the age ranges from 30-89 fairly evenly.

### 2004 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	1	0	0	0	0	0	1
FL	1	0	0	0	0	5	0	0	6
GA	0	0	0	0	0	0	0	1	1
IL	8	0	1	0	0	0	0	0	9
IN	0	0	1	0	0	0	0	0	1
LA	0	0	0	0	0	1	0	0	1
MO	0	0	0	0	0	6	0	1	7
MS	0	0	0	0	0	1	0	0	1
NC	0	0	3	0	0	0	0	0	3
NE	0	0	0	0	0	1	0	0	1
SC	0	0	1	0	0	0	0	0	1
TX	1	0	1	0	0	0	0	0	2
WI	0	0	0	0	0	1	0	0	1
<b>TOTAL</b>	<b>10</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>2</b>	<b>35</b>
<b>PERCENT</b>	<b>29</b>	<b>0</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>0</b>	<b>6</b>	<b>101*</b>

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

### 2004 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	3
10 TO 19	0	1	0	1	3
20 TO 29	0	2	0	2	6
30 TO 39	3	1	0	4	11
40 TO 49	1	4	0	5	14
50 TO 59	1	4	0	5	14
60 TO 69	3	1	0	4	11
70 TO 79	4	1	0	5	14
80 TO 89	3	3	0	6	17
90 TO --	0	0	0	0	0
UNKNOWN	1	1	0	2	6
<b>TOTAL</b>	<b>17</b>	<b>18</b>	<b>0</b>	<b>35</b>	<b>99*</b>
<b>PERCENT</b>	<b>49</b>	<b>51</b>	<b>0</b>	<b>100</b>	

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

#### LEGEND

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



## 2004 Flash Flood / River Flood Related Fatalities

In 2004, flooding (flash floods, river floods, and urban/small stream floods) was again the most hazardous weather, causing 82 fatalities, down from 86 in 2003. This total is just below the 10-year average of 84 deaths. Of the 82 fatalities, 45 victims were in vehicles and 25 were directly in water. Texas suffered the most losses, 14. Virginia counted 11 flooding deaths. Flash floods caused 58 deaths and river floods claimed 24, with no deaths attributed to small stream or urban flooding. The 0- to 9 and 20- to 29-age groups suffered the most losses with 14 fatalities each. Of the victims, 50 were male and 30 were female. Two victims not identified. This hardest hit age groups were children aged 0-9 and adults 20-29. The statistics for children is not typical and highlights the need for continued public awareness of flooding dangers.

### 2004 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>
AL	0	0	0	0	0	0	0	1	1
AR	0	0	0	0	0	0	0	2	2
AZ	0	0	0	2	0	0	0	0	2
CA	0	0	0	0	0	2	0	2	4
FL	0	0	0	0	0	0	0	1	1
GA	0	0	0	0	0	1	0	0	1
GU	0	0	0	0	0	0	0	1	1
IA	0	0	0	0	0	0	0	1	1
IN	0	0	0	3	0	0	0	0	3
KY	0	0	0	4	0	0	0	3	7
MN	0	0	0	1	0	0	0	0	1
MO	0	0	0	1	0	0	0	0	1
MS	0	0	0	0	0	0	0	1	1
NC	0	0	0	0	0	0	0	5	5
NE	0	0	0	1	0	0	0	0	1
NY	0	0	0	3	0	0	0	0	3
OH	0	0	0	0	0	1	0	1	2
OK	0	0	2	0	0	0	0	0	2
PA	0	0	0	3	0	2	0	3	8
PR	0	0	0	2	0	0	0	3	5
TN	0	0	0	1	0	0	0	0	1
TX	0	0	0	0	0	1	0	13	14
VA	0	0	0	4	1	0	0	6	11
WI	0	0	0	0	0	0	0	1	1
WV	0	0	0	0	0	1	1	1	3
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>25</b>	<b>1</b>	<b>8</b>	<b>1</b>	<b>45</b>	<b>82</b>
<b>PERCENT</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>30</b>	<b>1</b>	<b>10</b>	<b>1</b>	<b>55</b>	<b>99*</b>

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

### 2004 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	5	9	0	14	17
10 TO 19	4	2	0	6	7
20 TO 29	5	8	1	14	17
30 TO 39	5	5	0	10	12
40 TO 49	2	5	0	7	9
50 TO 59	4	5	0	9	11
60 TO 69	3	6	0	9	11
70 TO 79	2	3	0	5	6
80 TO 89	0	3	0	3	4
90 TO --	0	0	0	0	0
UNKNOWN	0	4	1	5	6
<b>TOTAL</b>	<b>30</b>	<b>50</b>	<b>2</b>	<b>82</b>	<b>100</b>
<b>PERCENT</b>	<b>37</b>	<b>61</b>	<b>2</b>	<b>100</b>	

#### LEGEND

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

## 2004 Flash Flood / River Flood Related Fatalities (Continued)

### 2004 FLASH FLOOD / RIVER FLOOD FATALITIES BY STATE

<u>STATE</u>	<u>FLASH FLOOD</u>	<u>RIVER FLOOD</u>	<u>TOTAL</u>
AL	1	0	1
AR	2	0	2
AZ	2	0	2
CA	4	0	4
FL	1	0	1
GA	1	0	1
GU	1	0	1
IA	1	0	1
IN	0	3	3
KY	4	3	7
MN	0	1	1
MO	1	0	1
MS	1	0	1
NC	0	5	5
NE	1	0	1
NY	2	1	3
OH	0	2	2
OK	2	0	2
PA	4	4	8
PR	3	2	5
TN	0	1	1
TX	14	0	14
VA	11	0	11
WI	1	0	1
WV	1	2	3
<b>TOTAL</b>	<b>58</b>	<b>24</b>	<b>82</b>
<b>PERCENT</b>	<b>71</b>	<b>29</b>	<b>100</b>

### 2004 FLASH FLOOD / RIVER FLOOD FATALITIES BY GENDER

	<u>FLASH FLOOD</u>	<u>RIVER FLOOD</u>	<u>TOTAL</u>	<u>PERCENT</u>
FEMALE	23	7	30	37
MALE	33	17	50	61
UNKNOWN	2	0	2	2
<b>TOTAL</b>	<b>58</b>	<b>24</b>	<b>82</b>	<b>100</b>
<b>PERCENT</b>	<b>71</b>	<b>29</b>	<b>100</b>	

## 2004 Winter Weather Related Fatalities

In 2004, there were 28 winter weather deaths, matching 2003. This number is down from the 10-year average of 44. Pennsylvania logged the highest death toll with 6, followed closely by Virginia with 5. The most hazardous place to be in the winter of 2004 was in a vehicle, which accounted for 20 (71%) of the winter weather victims, followed by outside with 6 (21%). Unlike 2003 when seniors were the hardest hit age group, in 2004 victims were more likely to be in the 20-29 age range, which counted 14 deaths. There were again no ice related deaths in 2003 but avalanches accounted for 12 fatalities, up from 9 in 2003.

### 2004 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>
AK	0	0	0	1	0	0	1
CA	0	0	0	2	0	0	2
CO	0	0	0	1	0	0	1
ID	0	0	0	0	0	2	2
IL	1	0	0	0	0	0	1
IN	0	0	0	0	1	0	1
KS	0	0	0	0	0	2	2
MD	0	0	0	2	0	0	2
MT	0	0	0	0	0	1	1
NE	0	0	0	0	0	2	2
PA	0	0	0	0	0	6	6
SC	0	0	0	0	0	1	1
VA	0	0	0	0	0	5	5
VT	0	0	0	0	0	1	1
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>20</b>	<b>28</b>
<b>PERCENT</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>4</b>	<b>71</b>	<b>100</b>

### 2004 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	1	0	0	1	4
10 TO 19	2	1	0	3	11
20 TO 29	1	3	0	4	14
30 TO 39	1	2	0	3	11
40 TO 49	1	3	0	4	14
50 TO 59	0	3	0	3	11
60 TO 69	0	2	0	2	7
70 TO 79	0	0	0	0	0
80 TO 89	0	0	0	0	0
90 TO --	0	0	0	0	0
UNKNOWN	1	1	6	8	29
<b>TOTAL</b>	<b>7</b>	<b>15</b>	<b>6</b>	<b>28</b>	<b>101*</b>
<b>PERCENT</b>	<b>25</b>	<b>54</b>	<b>21</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

## 2004 Tropical Cyclone Fatalities

The 2004 Atlantic Basin tropical cyclone season was active and extremely destructive with 16 named storms. This number is down from 2003 with 21 named storms; however 2003 did not bring as many highly destructive storms. Of the 16 tropical cyclones, 9 had wind speed measuring hurricane force, compared to 7 in 2003. Males were hurricane victims almost twice as often (65%) 22 as women with (35%) 12 of deaths in 2004. Unlike most years when the most dangerous place to be in a tropical cyclone was outside, this year those who did not evacuate their homes were most severely hit with 38 deaths, followed by 18 outside and 15 in vehicles.

For the second year, the Pacific Basin logged 16 named storms, 6 Hurricanes and 10 Tropical Storms.

In August and September, Hurricanes Charley, Frances, Ivan and Jeanne made landfall in Florida traveled up through the Southeast to Virginia and Maryland claiming 34 lives and accumulating an estimated \$18.9 billion in damages.

### 2004 TROPICAL CYCLONE FATALITIES BY STATE AND LOCATION

<u>STATE</u>	<u>BO</u>	<u>BU</u>	<u>IW</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>
FL	1	1	0	0	4	4	4	12	0	3	29
MS	0	0	0	0	0	0	1	0	0	0	1
PR	0	0	0	0	0	0	1	1	0	2	4
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>13</b>	<b>0</b>	<b>5</b>	<b>34</b>
<b>PERCENT</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>12</b>	<b>18</b>	<b>38</b>	<b>0</b>	<b>15</b>	<b>101</b>

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

### 2004 TROPICAL CYCLONE 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	3
10 TO 19	0	1	0	1	3
20 TO 29	0	2	0	2	6
30 TO 39	2	2	0	4	12
40 TO 49	1	6	0	7	21
50 TO 59	2	5	0	7	21
60 TO 69	1	0	0	1	3
70 TO 79	2	2	0	4	12
80 TO 89	3	3	0	6	18
90 TO --	0	0	0	0	0
UNKNOWN	0	1	0	1	3
<b>TOTAL</b>	<b>12</b>	<b>22</b>	<b>0</b>	<b>34</b>	<b>102*</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

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

## 2004 Wind Related Fatalities

Wind related fatalities totaled 48 in 2004; down 5 from the 2003 total of 43. Once again, the most dangerous place to be in 2004 during a thunderstorm or wind event was in a vehicle; this category accounted for 44% (21) fatalities. High winds claimed 26 victims while thunderstorm winds accounted for 22 lives. Arkansas and Florida each recorded the most wind related deaths at 6 each. Males edged out females as the most frequent victims of wind with 56% to 43%. The hardest hit age ranges were 40-49 and 60-69 with 15 losses each.

### 2004 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>
AL	0	1	0	0	0	0	0	0	0	1
AZ	0	0	0	0	1	0	0	0	0	1
CA	0	0	0	0	0	0	0	0	1	1
CO	0	0	0	0	0	0	0	0	1	1
DE	0	0	0	0	0	0	0	0	1	1
FL	0	0	0	0	0	1	1	0	4	6
HI	0	1	0	0	0	0	0	0	0	1
IL	0	0	0	0	0	0	0	0	1	1
KS	0	0	0	0	0	0	0	0	2	2
MA	0	0	0	0	0	0	0	0	1	1
MD	0	0	0	0	0	0	2	0	0	2
MI	0	0	0	0	0	0	0	0	3	3
MO	2	0	0	0	0	0	0	0	0	2
MS	0	0	0	0	0	0	0	0	1	1
NC	0	0	0	0	2	0	1	0	1	4
NJ	0	0	0	0	0	0	0	0	1	1
NY	0	0	0	0	0	0	0	0	1	1
OH	0	0	0	0	1	0	0	0	0	1
OK	0	0	0	1	1	0	0	0	0	2
PA	0	0	0	0	1	0	0	0	0	1
SC	0	0	0	0	1	0	0	0	1	2
TN	0	0	0	0	0	0	1	0	0	1
VT	0	0	0	0	0	1	0	0	0	1
WA	0	0	0	0	1	0	0	0	0	1
WI	0	0	0	0	1	0	0	0	0	1
WV	0	0	0	0	0	0	0	0	2	2
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>9</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>21</b>	<b>42</b>
<b>PERCENT</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>2</b>	<b>21</b>	<b>5</b>	<b>12</b>	<b>0</b>	<b>50</b>	<b>100</b>

### 2004 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	3	0	0	3	7
10 TO 19	1	1	0	2	5
20 TO 29	2	1	0	3	7
30 TO 39	2	3	0	5	12
40 TO 49	2	5	0	7	17
50 TO 59	1	4	0	5	12
60 TO 69	3	3	0	6	14
70 TO 79	1	2	0	3	7
80 TO 89	0	1	0	1	2
90 TO --	1	0	0	1	2
UNKNOWN	2	4	0	6	14
<b>TOTAL</b>	<b>18</b>	<b>24</b>	<b>0</b>	<b>42</b>	<b>99*</b>
<b>PERCENT</b>	<b>43</b>	<b>57</b>	<b>0</b>	<b>100</b>	

#### 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

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

## 2004 Wind Related Fatalities (Continued)

### 2004 HIGH WIND AND THUNDERSTORM WIND FATALITIES BY STATE

<u>STATE</u>	<u>TSTM WIND</u>	<u>HIGH WIND</u>	<u>TOTAL</u>
AL	1	0	1
AZ	0	1	1
CA	0	1	1
CO	0	1	1
DE	0	1	1
FL	0	6	6
HI	0	1	1
IL	0	1	1
KS	1	1	2
MA	1	0	1
MD	2	0	2
MI	3	0	3
MO	2	0	2
MS	1	0	1
NC	0	4	4
NJ	0	1	1
NY	0	1	1
OH	0	1	1
OK	2	0	2
PA	0	1	1
SC	0	2	2
TN	1	0	1
VT	0	1	1
WA	0	1	1
WI	0	1	1
WV	2	0	2
<b>TOTAL</b>	<b>16</b>	<b>26</b>	<b>42</b>
<b>PERCENT</b>	<b>38</b>	<b>62</b>	<b>100</b>

### 2004 HIGH WIND AND THUNDERSTORM WIND FATALITIES BY GENDER

	<u>TSTM WIND</u>	<u>HIGH WIND</u>	<u>TOTAL</u>	<u>PERCENT</u>
FEMALE	8	10	18	43
MALE	8	16	24	57
UNKNOWN	0	0	0	0
<b>TOTAL</b>	<b>16</b>	<b>26</b>	<b>42</b>	<b>100</b>
<b>PERCENT</b>	<b>38</b>	<b>62</b>	<b>100</b>	

## 2004 Heat Related Fatalities

In 2004, only 6 lives were lost to excessive heat, down dramatically from 36 in 2002 and even more dramatically from the 10-year average for heat related fatalities: 237. In 2004, 3 fatalities occurred in permanent homes, 2 outside and 1 in a vehicle. Texas was hardest hit with 3 deaths, followed by Missouri, Tennessee and Pennsylvania with 1 each. In a divergence from past years, losses were even between those 40-49 and senior aged 70-79. Seniors typically are the hardest hit by extreme heat. Deaths were split evenly between men and women.

### 2004 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>
MO	0	0	0	0	0	0	1	0	1
PA	0	0	0	0	0	0	0	1	1
TN	0	0	0	0	0	0	1	0	1
TX	0	0	0	0	0	2	1	0	3
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>6</b>
<b>PERCENT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>	<b>50</b>	<b>17</b>	<b>100</b>

### 2004 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	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	1	1	0	2	33
50 TO 59	1	0	0	1	17
60 TO 69	1	0	0	1	17
70 TO 79	0	2	0	2	33
80 TO 89	0	0	0	0	0
90 TO --	0	0	0	0	0
UNKNOWN	0	0	0	0	0
<b>TOTAL</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>100</b>
<b>PERCENT</b>	<b>50</b>	<b>50</b>	<b>0</b>	<b>100</b>	

#### LEGEND

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

## 2004 Cold Related Fatalities

In 2004, 27 people died from hypothermia, compared to 20 in 2003. This total is still below the 10-year average for cold related fatalities: 27. Illinois took the dubious honor of most deaths, with 17. Pennsylvania was a distant second at 4. Of those deaths 27 deaths, 16 (59%) occurred outside and 10 (37%) in a permanent home. Unlike past years, the death toll was much heavier for males, 63% males to 37% female. In 2003, the split was even between males and females. Once again seniors were the hardest hit group, with 26 deaths in the 80-89 age group.

### 2004 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>
IL	0	0	0	9	7	1	17
MS	0	0	0	1	0	0	1
NE	0	0	0	1	0	0	1
NJ	0	0	0	1	0	0	1
NY	0	0	0	1	0	0	1
OR	0	0	0	1	0	0	1
PA	0	0	0	1	3	0	4
TX	0	0	0	1	0	0	1
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>10</b>	<b>1</b>	<b>27</b>
<b>PERCENT</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>37</b>	<b>4</b>	<b>100</b>

### 2004 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	1	0	1	4
10 TO 19	0	0	0	0	0
20 TO 29	0	0	0	0	0
30 TO 39	1	1	0	2	7
40 TO 49	0	5	0	5	19
50 TO 59	0	4	0	4	15
60 TO 69	0	1	0	1	4
70 TO 79	1	1	0	2	7
80 TO 89	6	1	0	7	26
90 TO --	1	1	0	2	7
UNKNOWN	1	2	0	3	11
<b>TOTAL</b>	<b>10</b>	<b>17</b>	<b>0</b>	<b>27</b>	<b>100</b>
<b>PERCENT</b>	<b>37</b>	<b>63</b>	<b>0</b>	<b>100</b>	

#### LEGEND

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





# TOTAL LIGHTNING DEATHS BY STATE AND NATION FOR YEAR 2004



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	0	0	0	0	1	0	0	0	0	0	1
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	0	0	1	0	0	0	0	0	0	0	0	1
CALIFORNIA	0	0	0	0	0	0	0	0	1	0	0	0	1
COLORADO	0	0	0	0	2	0	0	1	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	0	3	1	0	0	0	0	5
GEORGIA	0	0	0	0	2	3	0	0	0	0	0	0	5
HAWAII	0	0	0	0	0	0	0	0	0	0	0	0	0
IDAHO	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLINOIS	0	0	0	0	0	0	0	0	0	0	0	0	0
INDIANA	0	0	0	0	1	0	0	0	0	0	0	0	1
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	0	1	0	1	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	0	0	0	0	0	0
MASSACHUSETTS	0	0	0	0	0	0	0	0	0	0	0	0	0
MICHIGAN	0	0	0	0	0	0	0	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
MISSISSIPPI	0	0	0	0	1	0	0	0	0	0	0	0	1
MISSOURI	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
NEW MEXICO	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW YORK	0	0	0	0	0	0	0	1	0	0	0	0	1
NORTH CAROLINA	0	0	0	0	0	0	1	0	0	0	0	0	1
NORTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
OHIO	0	0	0	0	1	0	0	0	0	0	0	0	1
OKLAHOMA	0	0	0	0	0	0	0	0	0	0	0	0	0
OREGON	0	0	0	0	0	0	0	0	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	0	0	0	0	0	0	0	0	0
PUERTO RICO	0	0	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0	0	1	0	0	0	0	1
SOUTH CAROLINA	0	0	0	0	0	2	0	0	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	0	1	0	0	0	2
TEXAS	0	0	0	0	0	1	0	1	1	0	0	0	3
UTAH	0	0	0	0	0	0	0	0	0	0	0	0	0
VERMONT	0	0	0	0	0	0	1	0	0	0	0	0	1
VIRGINIA	0	0	0	0	0	0	1	0	0	0	0	0	1
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	0	0	0	0	0	0	0
WYOMING	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL: UNITED STATES	0	0	0	1	8	6	9	5	4	0	0	0	33



## TOTAL LIGHTNING INJURIES BY STATE AND NATION FOR YEAR 2004



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	0	0	1	6	0	1	0	0	0	0	8
ALASKA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	0	0	0	0	0	0	0	1	0	0	0	0	1
ARKANSAS	0	0	0	0	1	1	0	0	0	0	0	0	2
CALIFORNIA	0	0	0	0	0	0	1	0	1	0	0	0	2
COLORADO	0	0	0	0	4	21	1	6	0	0	0	0	32
CONNECTICUT	0	0	0	0	0	0	0	2	0	0	0	0	2
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	1	0	9	16	13	0	0	0	0	39
GEORGIA	0	0	0	0	1	11	8	0	0	0	0	0	20
HAWAII	0	0	0	0	0	0	0	0	0	0	0	0	0
IDAHO	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLINOIS	0	0	1	0	0	1	0	0	0	0	0	0	2
INDIANA	0	0	0	0	0	0	0	0	0	0	0	0	0
IOWA	0	0	0	0	2	0	0	2	0	0	0	0	4
KANSAS	0	0	0	1	0	0	0	0	0	0	0	0	1
KENTUCKY	0	0	0	0	1	1	0	0	0	0	0	0	2
LOUISIANA	0	0	0	0	0	0	3	0	0	0	0	0	3
MAINE	0	0	0	0	0	0	1	0	0	0	0	0	1
MARYLAND	0	0	0	0	0	0	0	0	0	0	0	0	0
MASSACHUSETTS	0	0	0	0	0	0	8	5	0	0	0	0	13
MICHIGAN	0	0	0	0	0	0	0	0	0	0	0	0	0
MINNESOTA	0	0	0	0	0	0	0	0	1	0	0	0	1
MISSISSIPPI	0	0	0	0	0	3	0	0	0	0	0	0	3
MISSOURI	0	0	0	0	0	0	0	0	0	0	0	0	0
MONTANA	0	0	0	0	0	1	0	0	0	0	0	0	1
NEBRASKA	0	0	0	0	2	0	1	0	0	0	0	0	3
NEVADA	0	0	0	0	0	0	0	1	0	0	0	0	1
NEW HAMPSHIRE	0	0	0	0	1	0	0	0	0	0	0	0	1
NEW JERSEY	0	0	0	0	2	0	2	3	0	0	0	0	7
NEW MEXICO	0	0	0	0	0	0	2	1	0	0	0	0	3
NEW YORK	0	0	0	0	1	0	11	8	0	0	0	0	20
NORTH CAROLINA	0	0	0	1	0	0	0	2	0	0	0	0	3
NORTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
OHIO	0	0	0	0	0	10	0	1	0	0	0	0	11
OKLAHOMA	0	0	0	0	0	0	4	0	0	0	0	0	4
OREGON	0	0	0	0	0	0	0	1	0	0	0	1	2
PENNSYLVANIA	0	0	0	0	5	4	0	0	0	0	0	0	9
PUERTO RICO	0	0	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	0	0	1	0	0	0	0	1
SOUTH CAROLINA	0	0	0	0	0	3	1	0	0	0	0	0	4
SOUTH DAKOTA	0	0	0	1	0	0	0	0	0	0	0	0	1
TENNESSEE	0	0	0	0	4	0	1	0	0	0	0	0	5
TEXAS	0	0	1	0	8	3	3	2	40	1	0	0	58
UTAH	0	0	0	0	0	0	0	0	0	0	0	0	0
VERMONT	0	0	0	0	0	0	1	0	0	0	0	0	1
VIRGINIA	0	0	0	0	0	0	4	0	0	0	0	0	4
WASHINGTON	0	0	0	0	1	0	0	1	1	0	0	0	3
WEST VIRGINIA	0	0	0	0	0	0	0	0	0	0	0	0	0
WISCONSIN	0	0	0	0	0	0	0	1	0	0	0	0	1
WYOMING	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL: UNITED STATES	0	0	2	4	34	74	68	52	43	1	0	1	279



## TOTAL LIGHTNING DEATHS BY STATE AND NATION FOR PERIOD 1959-2004



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	1	3	4	14	12	9	2	1	0	0	46
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	1	2	15	18	15	4	0	0	0	64
CALIFORNIA	0	0	0	0	1	2	4	1	8	0	0	0	16
COLORADO	0	0	0	2	6	12	31	19	7	1	0	0	78
CONNECTICUT	0	0	0	0	1	2	3	2	1	0	0	0	9
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	6	9	55	77	67	38	3	0	0	259
GEORGIA	0	0	3	2	7	14	20	12	2	1	0	0	61
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	4	10	10	10	4	2	0	0	43
IOWA	0	0	0	2	5	10	2	12	1	2	0	0	34
KANSAS	0	0	0	3	3	6	7	2	1	1	3	0	26
KENTUCKY	0	0	0	2	3	10	9	9	12	1	0	0	46
LOUISIANA	1	1	1	4	6	17	27	3	12	0	2	2	76
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	15	7	0	0	0	61
MINNESOTA	0	0	0	1	2	9	6	11	2	1	0	0	32
MISSISSIPPI	0	0	3	1	7	8	19	10	5	0	0	0	53
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	27	2	0	0	0	51
NEW YORK	0	0	1	0	4	12	35	20	5	2	0	0	79
NORTH CAROLINA	0	1	2	0	7	13	32	23	4	0	0	0	82
NORTH DAKOTA	0	0	0	0	0	3	3	1	0	0	0	0	7
OHIO	0	0	0	4	6	14	22	15	9	2	2	0	74
OKLAHOMA	1	0	0	4	6	8	8	17	10	2	0	0	56
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	1	2	0	0	0	4
SOUTH CAROLINA	0	0	1	0	3	8	14	11	9	0	0	0	46
SOUTH DAKOTA	0	0	0	0	4	3	3	1	2	2	0	0	15
TENNESSEE	0	1	0	6	7	23	17	14	13	2	1	0	84
TEXAS	0	2	2	10	18	13	27	19	13	2	0	0	106
UTAH	0	0	0	1	1	4	9	7	4	1	0	0	27
VERMONT	0	0	0	0	0	1	3	2	0	0	0	0	6
VIRGINIA	0	0	0	1	1	4	9	9	3	0	0	0	27
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	5	7	5	3	0	0	0	20
TOTAL: UNITED STATES	2	7	32	63	153	407	575	474	228	39	8	85	2073



## TOTAL LIGHTNING INJURIES BY STATE AND NATION FOR PERIOD 1959-2004



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	1	2	11	4	15	34	72	38	18	4	1	0	200
ALASKA	0	0	0	0	0	0	1	1	0	0	0	0	2
ARIZONA	0	1	0	0	4	6	18	44	22	10	1	3	109
ARKANSAS	1	2	3	7	10	26	23	41	8	0	0	1	122
CALIFORNIA	1	0	7	2	1	4	13	8	20	1	1	1	59
COLORADO	0	0	0	4	33	94	93	98	18	5	0	0	345
CONNECTICUT	1	1	2	1	2	7	18	10	18	3	0	0	63
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	23	50	222	322	220	155	39	2	2	1054
GEORGIA	3	51	4	4	34	69	95	46	8	5	0	1	320
HAWAII	0	1	0	0	0	0	0	4	0	0	3	0	8
IDAHO	0	0	0	0	0	18	12	13	6	1	0	0	50
ILLINOIS	1	1	1	3	14	39	32	49	27	6	0	0	173
INDIANA	0	0	2	1	16	22	37	27	10	0	0	0	115
IOWA	0	0	0	7	14	28	14	13	6	1	0	0	83
KANSAS	0	0	5	5	6	15	31	20	29	2	2	0	115
KENTUCKY	0	0	1	3	12	18	43	19	8	1	0	0	105
LOUISIANA	4	1	8	26	16	19	38	27	10	7	2	2	160
MAINE	0	14	0	0	4	18	41	20	0	0	1	0	98
MARYLAND	1	0	1	2	6	31	28	29	4	3	0	0	105
MASSACHUSETTS	0	0	0	1	14	43	80	61	26	0	0	1	226
MICHIGAN	0	0	2	10	26	77	119	66	31	9	0	0	340
MINNESOTA	0	0	1	0	9	16	49	18	3	5	0	0	101
MISSISSIPPI	1	0	4	2	12	11	51	16	9	3	7	1	117
MISSOURI	0	1	1	9	5	14	13	17	8	1	4	0	73
MONTANA	0	0	0	0	4	10	6	7	1	1	0	0	29
NEBRASKA	0	0	0	2	15	7	10	13	3	0	0	0	50
NEVADA	0	0	0	0	3	2	8	4	1	0	0	0	18
NEW HAMPSHIRE	0	0	1	0	2	5	41	43	0	0	0	0	92
NEW JERSEY	1	0	0	3	15	9	25	42	19	0	0	0	114
NEW MEXICO	0	0	0	1	3	12	54	58	6	1	0	0	135
NEW YORK	0	0	1	1	26	91	107	129	29	6	1	0	391
NORTH CAROLINA	2	5	19	6	20	72	120	118	22	2	1	0	387
NORTH DAKOTA	0	0	0	0	1	1	6	3	3	0	0	0	14
OHIO	0	0	3	5	34	77	64	99	53	4	12	0	351
OKLAHOMA	6	0	1	7	19	25	31	34	28	21	8	2	182
OREGON	0	0	0	2	1	0	0	11	1	0	0	1	16
PENNSYLVANIA	1	1	0	0	32	121	102	46	45	3	0	0	351
PUERTO RICO	0	0	0	0	0	0	0	2	0	0	0	0	2
RHODE ISLAND	0	0	0	1	0	4	5	10	3	0	1	0	24
SOUTH CAROLINA	0	0	0	6	12	21	54	34	17	0	1	0	145
SOUTH DAKOTA	0	0	0	3	3	12	14	7	1	2	0	0	42
TENNESSEE	1	3	7	25	34	15	88	48	9	6	2	0	238
TEXAS	2	3	6	7	36	43	59	58	85	9	3	0	311
UTAH	0	0	0	1	8	17	13	19	7	1	0	0	66
VERMONT	0	0	0	0	0	5	6	2	0	0	0	0	13
VIRGINIA	0	0	5	4	9	30	72	29	9	0	0	0	158
WASHINGTON	0	0	0	1	2	13	4	15	2	0	1	1	39
WEST VIRGINIA	0	0	8	10	1	7	40	36	0	1	0	0	103
WISCONSIN	0	1	1	6	3	51	61	42	7	3	0	0	175
WYOMING	0	0	0	1	2	24	17	16	8	0	0	0	68
TOTAL: UNITED STATES	27	90	122	206	595	1524	2253	1833	804	166	55	16	7691



## NATIONAL TOTAL LIGHTNING DEATHS BY YEAR FOR PERIOD 1959-2004



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	2	2	4	3	7	6	11	12	0	0	0	47
2002	0	1	0	0	3	9	17	19	2	0	0	0	51
2003	0	1	0	3	2	4	14	13	5	2	0	0	44
2004	0	0	0	1	8	6	9	5	4	0	0	0	33
TOTAL	2	8	32	63	153	407	575	475	231	35	8	85	2074
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 1959-2004



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
2003	0	7	9	7	13	20	70	92	16	0	1	1	236
2004	0	0	2	4	34	74	68	51	43	1	0	1	278
TOTAL	27	90	122	206	595	1524	2253	1832	805	165	55	16	7690
MEAN	1	2	3	4	13	33	49	40	18	4	1	0	167



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

## 1959-2004



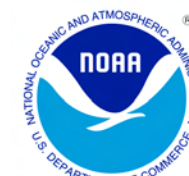
**2004**

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	13	28	8	17	1	2	0	0	0	0	13	28	0	0	1	100	0	0	0	0	0	0	0	0	0	
ALASKA	55	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	22	34	11	17	2	3	5	8	2	3	0	0	22	34	1	100	0	0	0	0	0	0	0	0	0	0	0	
CALIFORNIA	34	3	19	3	19	1	6	3	19	0	0	0	0	6	38	0	0	0	0	0	0	1	100	0	0	0	0	0	
COLORADO	7	33	42	14	18	3	4	2	3	6	8	0	0	20	26	1	33	0	0	0	0	0	0	1	33	0	0	1	33
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	48	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	71	27	36	14	66	25	20	8	10	4	0	0	56	22	2	40	1	20	0	0	0	0	1	20	0	0	1	20
GEORGIA	12	23	38	12	20	8	13	5	8	2	3	1	2	10	16	2	40	3	60	0	0	0	0	0	0	0	0	0	
HAWAII	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	
IDAHO	39	1	11	1	11	1	11	5	56	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ILLINOIS	16	13	25	13	25	3	6	4	8	4	8	1	2	15	28	0	0	0	0	0	0	0	0	0	0	0	0	0	
INDIANA	22	10	23	16	37	2	5	3	7	1	2	0	0	11	26	1	100	0	0	0	0	0	0	0	0	0	0	0	
IOWA	23	6	18	1	3	1	3	5	15	1	3	0	0	20	59	0	0	0	0	0	0	0	0	0	0	0	0	0	
KANSAS	30	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	21	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	8	6	8	26	34	20	26	7	9	0	0	0	0	17	22	0	0	0	0	1	50	1	50	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	3	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	0	0	
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	11	17	28	15	25	8	13	3	5	6	10	2	3	10	16	0	0	0	0	0	0	0	0	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	15	16	30	13	25	8	15	4	8	0	0	0	0	12	23	0	0	0	0	1	100	0	0	0	0	0	0	0	
MISSOURI	18	10	20	9	18	8	16	2	4	2	4	1	2	17	35	0	0	0	0	0	0	0	0	0	0	0	0	0	
MONTANA	36	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	31	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	47	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	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	
NEW JERSEY	29	8	30	6	22	5	19	0	0	2	7	0	0	6	22	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEW MEXICO	17	26	51	6	12	3	6	0	0	0	0	2	4	14	27	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEW YORK	6	12	15	17	22	9	11	3	4	4	5	0	0	34	43	0	0	1	100	0	0	0	0	0	0	0	0	0	
NORTH CAROLINA	5	17	21	14	17	10	12	4	5	2	2	0	0	35	43	0	0	0	0	1	100	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 1959-2004



**2004**

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	9	19	26	10	14	9	12	8	11	6	8	1	1	21	28	0	0	0	0	1	100	0	0	0	0	0	0	0	0	0
OKLAHOMA	14	22	39	4	7	15	27	4	7	0	0	2	4	9	16	0	0	0	0	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	13	25	42	5	8	1	2	1	2	4	7	0	0	24	40	0	0	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	46	0	0	0	0	1	25	0	0	0	0	0	0	3	75	0	0	0	0	1	100	0	0	0	0	0	0	0	0	
SOUTH CAROLINA	19	6	13	15	33	8	17	6	13	2	4	1	2	8	17	0	0	1	50	1	50	0	0	0	0	0	0	0	0	
SOUTH DAKOTA	35	3	20	1	7	4	27	5	33	1	7	0	0	1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TENNESSEE	4	20	24	22	26	5	6	8	10	5	6	1	1	23	27	1	50	0	0	1	50	0	0	0	0	0	0	0	0	
TEXAS	2	37	35	20	19	15	14	11	10	3	3	0	0	20	19	1	33	2	67	0	0	0	0	0	0	0	0	0	0	
UTAH	28	13	48	8	30	1	4	2	7	0	0	0	0	3	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VERMONT	44	2	33	1	17	0	0	0	0	1	17	0	0	2	33	0	0	0	0	0	0	0	0	1	100	0	0	0	0	
VIRGINIA	27	10	37	5	19	1	4	3	11	1	4	0	0	7	26	1	100	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	24	13	39	3	9	6	18	2	6	2	6	0	0	7	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WYOMING	32	12	60	1	5	2	10	0	0	0	0	0	0	5	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNITED STATES	0	584	28	355	17	267	13	153	7	79	4	18	1	617	30	10	30	9	27	7	21	2	6	3	9	0	0	2	6	





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

## 1959-2004



**2004**

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	12	63	32	45	23	5	3	7	4	0	0	9	5	71	36	2	25	0	0	1	13	0	0	0	0	0	0	5	63
ALASKA	52	1	50	0	0	0	0	0	0	0	0	0	0	1	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	25	60	55	7	6	3	3	5	5	0	0	4	4	30	28	1	100	0	0	0	0	0	0	0	0	0	0	0	0
ARKANSAS	20	39	32	14	11	4	3	7	6	4	3	8	7	46	38	1	50	0	0	0	0	0	0	0	0	0	1	50	
CALIFORNIA	37	17	29	4	7	4	7	4	7	0	0	1	2	29	49	0	0	0	0	1	50	1	50	0	0	0	0	0	0
COLORADO	6	118	34	42	12	13	4	16	5	52	15	11	3	93	27	7	22	0	0	0	0	0	0	25	78	0	0	0	0
CONNECTICUT	36	7	11	7	11	4	6	0	0	0	0	3	5	42	67	2	100	0	0	0	0	0	0	0	0	0	0	0	0
DELAWARE	44	8	42	5	26	0	0	0	0	0	0	0	0	6	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIST OF COLUMBIA	47	12	80	0	0	0	0	0	0	1	7	0	0	2	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLORIDA	1	275	26	141	13	134	13	73	7	23	2	25	2	383	36	12	31	3	8	6	15	9	23	1	3	2	5	6	15
GEORGIA	8	130	41	48	15	22	7	14	4	1	0	6	2	99	31	1	5	7	35	3	15	0	0	0	0	0	9	45	
HAWAII	50	3	38	0	0	0	0	0	0	0	0	2	25	3	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IDAHO	39	10	20	5	10	3	6	3	6	2	4	3	6	24	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ILLINOIS	15	53	31	50	29	4	2	1	1	4	2	7	4	54	31	1	50	0	0	0	0	0	0	0	0	0	1	50	
INDIANA	23	19	17	22	19	14	12	6	5	5	4	3	3	46	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IOWA	32	22	27	7	8	1	1	1	1	2	2	1	1	49	59	3	75	0	0	0	0	0	0	0	0	0	1	25	
KANSAS	22	20	17	14	12	3	3	6	5	0	0	5	4	67	58	0	0	0	0	1	100	0	0	0	0	0	0	0	0
KENTUCKY	27	26	25	5	5	11	11	1	1	3	3	6	6	52	50	0	0	1	50	0	0	0	0	0	0	0	1	50	
LOUISIANA	16	29	18	24	15	19	12	11	7	1	1	2	1	74	46	0	0	0	0	0	0	3	100	0	0	0	0	0	0
MAINE	30	13	13	23	23	2	2	1	1	2	2	2	2	55	56	1	100	0	0	0	0	0	0	0	0	0	0	0	0
MARYLAND	26	21	20	10	10	25	24	2	2	4	4	0	0	43	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MASSACHUSETTS	11	60	27	13	6	8	4	5	2	7	3	5	2	128	57	0	0	0	0	0	0	0	0	0	0	0	13	100	
MICHIGAN	7	61	18	57	17	17	5	27	8	20	6	12	4	146	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINNESOTA	29	17	17	15	15	2	2	12	12	3	3	5	5	47	47	1	100	0	0	0	0	0	0	0	0	0	0	0	0
MISSISSIPPI	21	42	36	30	26	8	7	6	5	4	3	9	8	18	15	0	0	0	0	0	0	3	100	0	0	0	0	0	0
MISSOURI	33	32	44	11	15	2	3	0	0	2	3	2	3	24	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MONTANA	42	10	34	3	10	0	0	4	14	1	3	0	0	11	38	0	0	0	0	0	1	100	0	0	0	0	0	0	0
NEBRASKA	38	15	30	1	2	3	6	5	10	6	12	3	6	17	34	1	33	0	0	2	67	0	0	0	0	0	0	0	0
NEVADA	45	5	28	2	11	0	0	0	0	1	6	0	0	10	56	0	0	0	0	0	0	0	0	0	0	0	1	100	
NEW HAMPSHIRE	31	15	16	5	5	0	0	0	0	0	0	3	3	69	75	1	100	0	0	0	0	0	0	0	0	0	0	0	0
NEW JERSEY	24	29	25	25	22	3	3	2	2	6	5	3	3	46	40	2	29	5	71	0	0	0	0	0	0	0	0	0	0
NEW MEXICO	19	78	58	14	10	4	3	3	2	10	7	0	0	26	19	1	33	0	0	2	67	0	0	0	0	0	0	0	0
NEW YORK	2	76	19	58	15	14	4	22	6	7	2	8	2	206	53	8	40	1	5	5	25	0	0	0	0	0	6	30	
NORTH CAROLINA	3	121	31	28	7	16	4	40	10	19	5	7	2	156	40	0	0	0	0	0	0	0	2	67	0	0	1	33	
NORTH DAKOTA	48	4	29	3	21	1	7	3	21	0	0	0	0	3	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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

## 1959-2004 2004



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	5	83	24	86	25	10	3	5	1	35	10	12	3	120	34	1	9	10	91	0	0	0	0	0	0	0	0	0	0	0
OKLAHOMA	13	69	38	8	4	9	5	8	4	0	0	11	6	77	42	0	0	0	0	0	3	75	0	0	0	0	0	1	25	
OREGON	46	4	25	0	0	1	6	0	0	0	0	1	6	10	63	0	0	0	0	1	50	0	0	0	0	0	0	1	50	
PENNSYLVANIA	4	147	42	38	11	3	1	6	2	0	0	7	2	150	43	4	44	1	11	0	0	0	0	0	0	1	11	3	33	
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	0	
RHODE ISLAND	43	4	17	6	25	2	8	0	0	0	0	0	0	12	50	0	0	0	0	1	100	0	0	0	0	0	0	0	0	
SOUTH CAROLINA	18	39	27	19	13	7	5	3	2	4	3	4	3	69	48	1	25	1	25	1	25	1	25	0	0	0	0	0	0	
SOUTH DAKOTA	40	12	29	3	7	5	12	5	12	1	2	1	2	15	36	0	0	1	100	0	0	0	0	0	0	0	0	0	0	
TENNESSEE	10	80	34	59	25	5	2	8	3	2	1	8	3	76	32	2	40	1	20	0	0	0	0	0	0	0	2	40		
TEXAS	9	129	41	46	15	14	5	12	4	7	2	3	1	100	32	40	69	9	16	1	2	2	3	3	5	0	0	3	5	
UTAH	35	14	21	22	33	2	3	4	6	2	3	2	3	20	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
VERMONT	49	4	31	1	8	0	0	0	0	1	8	0	0	7	54	0	0	0	0	0	0	0	0	1	100	0	0	0	0	
VIRGINIA	17	31	20	11	7	12	8	1	1	6	4	7	4	90	57	0	0	0	0	4	100	0	0	0	0	0	0	0	0	
WASHINGTON	41	25	64	5	13	0	0	0	0	0	0	1	3	8	21	2	67	0	0	0	0	0	0	0	0	0	0	1	33	
WEST VIRGINIA	28	34	33	7	7	3	3	4	4	2	2	0	0	53	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WISCONSIN	14	66	38	7	4	6	3	3	2	6	3	4	2	83	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
WYOMING	34	25	37	0	0	15	22	5	7	3	4	0	0	20	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNITED STATES	0	2279	30	056	14	443	6	351	5	259	3	216	3	087	40	95	34	40	14	29	10	23	8	32	12	3	1	56	20	



# TORNADO SUMMARY BY STATE AND NATION, 2004

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>ALABAMA</b>													
NUMBER	0	0	2	0	9	1	4	1	9	5	25	1	57
DAYS	0	0	1	0	2	1	2	1	2	2	3	1	15
DEATHS	0	0	0	0	0	0	0	0	0	0	1	0	1
INJURIES	0	0	0	0	3	0	1	0	0	0	9	0	13
<b>ALASKA</b>													
NUMBER	0	0	0	0	0	2	0	0	0	0	0	0	2
DAYS	0	0	0	0	0	2	0	0	0	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>ARIZONA</b>													
NUMBER	0	0	0	1	0	0	0	0	2	0	0	0	3
DAYS	0	0	0	1	0	0	0	0	2	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>ARKANSAS</b>													
NUMBER	0	0	1	18	4	1	0	0	0	13	11	0	48
DAYS	0	0	1	6	2	1	0	0	0	1	3	0	14
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	0	0	0	111	0	0	111
<b>CALIFORNIA</b>													
NUMBER	0	1	0	0	0	0	1	2	0	2	0	4	10
DAYS	0	1	0	0	0	0	1	1	0	2	0	2	7
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	1	0	13	36	3	17	1	13	0	0	84
DAYS	0	0	1	0	4	10	3	6	1	3	0	0	28
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	4	0	0	0	0	0	0	4
<b>DELAWARE</b>													
NUMBER	0	0	0	0	0	0	1	0	1	0	0	0	2
DAYS	0	0	0	0	0	0	1	0	1	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>FLORIDA</b>													
NUMBER	0	1	2	3	0	6	2	28	55	1	6	1	105
DAYS	0	1	1	2	0	4	2	9	9	1	3	1	33
DEATHS	0	0	0	0	0	0	0	0	6	0	0	0	6
INJURIES	0	0	0	0	0	0	0	1	16	0	0	0	17
<b>GEORGIA</b>													
NUMBER	0	1	0	0	1	2	2	1	37	0	0	0	44
DAYS	0	1	0	0	1	1	1	1	6	0	0	0	11
DEATHS	0	0	0	0	0	0	0	0	1	0	0	0	1
INJURIES	0	0	0	0	6	0	0	0	6	0	0	0	12
<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	1	2	0	0	0	0	0	0	0	0	0	0	3
DAYS	1	2	0	0	0	0	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>IDAHO</b>													
NUMBER	0	0	0	0	0	2	1	2	0	0	0	0	5
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>ILLINOIS</b>													
NUMBER	0	0	0	16	37	7	9	6	0	2	3	0	80
DAYS	0	0	0	1	9	1	3	2	0	1	1	0	18
DEATHS	0	0	0	8	1	0	0	0	0	0	0	0	9
INJURIES	0	0	0	12	5	0	3	0	0	3	0	0	23
<b>INDIANA</b>													
NUMBER	0	0	0	12	27	0	3	1	0	0	3	1	47
DAYS	0	0	0	1	3	0	2	1	0	0	1	1	9
DEATHS	0	0	0	0	1	0	0	0	0	0	0	0	1
INJURIES	0	0	0	9	38	0	2	0	0	0	0	0	49

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



# TORNADO SUMMARY BY STATE AND NATION, 2004

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>IOWA</b>													
NUMBER	0	0	0	5	57	28	3	16	11	0	0	0	120
DAYS	0	0	0	3	8	2	1	4	1	0	0	0	19
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	15	0	0	0	0	0	0	0	15
<b>KANSAS</b>													
NUMBER	0	0	6	0	66	18	24	10	0	0	0	0	124
DAYS	0	0	1	0	7	6	2	5	0	0	0	0	21
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	4	2	0	0	0	0	0	0	6
<b>KENTUCKY</b>													
NUMBER	0	0	0	0	17	3	0	0	0	2	0	0	22
DAYS	0	0	0	0	4	2	0	0	0	2	0	0	8
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	12	0	0	0	0	0	0	0	12
<b>LOUISIANA</b>													
NUMBER	1	0	0	2	1	1	1	0	0	1	22	1	30
DAYS	1	0	0	1	1	1	1	0	0	1	6	1	13
DEATHS	0	0	0	0	0	0	0	0	0	0	1	0	1
INJURIES	3	0	0	0	0	0	0	0	0	0	28	1	32
<b>MAINE</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>MARYLAND</b>													
NUMBER	0	0	0	0	2	3	3	0	11	1	0	0	20
DAYS	0	0	0	0	1	2	2	0	5	1	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>MASSACHUSETTS</b>													
NUMBER	0	0	0	0	0	0	0	2	0	0	0	0	2
DAYS	0	0	0	0	0	0	0	2	0	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>MICHIGAN</b>													
NUMBER	0	0	0	0	15	4	2	2	0	0	0	0	23
DAYS	0	0	0	0	5	1	1	2	0	0	0	0	9
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>MINNESOTA</b>													
NUMBER	0	0	0	4	16	12	9	14	3	1	0	0	59
DAYS	0	0	0	1	5	3	3	3	2	1	0	0	18
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>MISSISSIPPI</b>													
NUMBER	0	3	1	2	6	2	0	0	0	5	20	14	53
DAYS	0	1	1	1	3	2	0	0	0	3	2	2	15
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	6	0	6
<b>MISSOURI</b>													
NUMBER	0	0	0	5	36	4	5	2	0	17	2	0	71
DAYS	0	0	0	1	7	3	3	1	0	3	1	0	19
DEATHS	0	0	0	0	4	0	0	0	0	3	0	0	7
INJURIES	0	0	0	5	8	0	0	0	0	14	0	0	27
<b>MONTANA</b>													
NUMBER	0	0	0	0	0	2	3	2	0	0	0	0	7
DAYS	0	0	0	0	0	1	1	2	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	4	77	18	10	2	0	0	0	0	111
DAYS	0	0	0	2	6	6	4	2	0	0	0	0	20
DEATHS	0	0	0	0	1	0	0	0	0	0	0	0	1
INJURIES	0	0	0	0	38	2	2	0	0	0	0	0	42
<b>NEVADA</b>													
NUMBER	0	0	0	0	0	4	1	0	0	0	0	0	5
DAYS	0	0	0	0	0	3	1	0	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

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# TORNADO SUMMARY BY STATE AND NATION, 2004

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>NEW HAMPSHIRE</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 JERSEY</b>													
NUMBER	0	0	0	0	0	0	1	0	1	0	0	0	2
DAYS	0	0	0	0	0	0	1	0	1	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	2	0	0	0	0	0	2
<b>NEW MEXICO</b>													
NUMBER	0	0	0	6	0	2	0	2	0	1	0	0	11
DAYS	0	0	0	1	0	2	0	2	0	1	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	0	0	0	0	0	0
<b>NEW YORK</b>													
NUMBER	0	0	0	1	1	3	1	1	0	1	0	0	8
DAYS	0	0	0	1	1	2	1	1	0	1	0	0	7
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 CAROLINA</b>													
NUMBER	0	0	0	1	1	17	2	16	26	4	0	0	67
DAYS	0	0	0	1	1	6	1	5	5	1	0	0	20
DEATHS	0	0	0	0	0	0	0	3	0	0	0	0	3
INJURIES	0	0	0	0	0	1	0	36	0	0	0	0	37
<b>NORTH DAKOTA</b>													
NUMBER	0	0	0	0	16	12	13	5	0	0	0	0	46
DAYS	0	0	0	0	2	3	5	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>OHIO</b>													
NUMBER	0	0	0	0	5	2	1	0	0	0	0	0	8
DAYS	0	0	0	0	3	1	1	0	0	0	0	0	5
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
<b>OKLAHOMA</b>													
NUMBER	0	0	12	13	26	4	0	0	0	1	6	0	62
DAYS	0	0	2	5	5	2	0	0	0	1	1	0	16
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>OREGON</b>													
NUMBER	0	0	0	1	1	4	1	0	0	0	0	0	7
DAYS	0	0	0	1	1	4	1	0	0	0	0	0	7
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	0	3	4	3	7	9	0	0	0	26
DAYS	0	0	0	0	2	1	2	1	1	0	0	0	7
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>SOUTH CAROLINA</b>													
NUMBER	0	0	0	0	0	4	0	7	70	0	2	3	86
DAYS	0	0	0	0	0	3	0	3	4	0	1	1	12
DEATHS	0	0	0	0	0	0	0	0	1	0	0	0	1
INJURIES	0	0	0	0	0	0	0	0	31	0	0	2	33
<b>SOUTH DAKOTA</b>													
NUMBER	0	0	0	2	19	1	3	8	2	0	0	0	35
DAYS	0	0	0	1	3	1	2	2	2	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>TENNESSEE</b>													
NUMBER	0	0	1	1	7	1	0	2	0	4	0	0	16
DAYS	0	0	1	1	3	1	0	2	0	2	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	2	0	0	2
<b>TEXAS</b>													
NUMBER	1	1	24	25	29	34	2	5	0	4	52	2	179
DAYS	1	1	2	9	7	13	2	3	0	4	5	1	48
DEATHS	0	0	0	0	0	1	0	0	0	0	1	0	2
INJURIES	0	0	5	0	1	9	0	0	0	0	0	0	15

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& TORNADO DAYS FOR COUNTRY AS A WHOLE



# TORNADO SUMMARY BY STATE AND NATION, 2004

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
<b>VIRGINIA</b>													
NUMBER	0	0	0	0	8	6	0	16	54	0	0	0	84
DAYS	0	0	0	0	4	2	0	3	3	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	13	0	0	0	14
<b>WASHINGTON</b>													
NUMBER	0	0	0	1	4	3	0	0	1	0	0	0	9
DAYS	0	0	0	1	3	3	0	0	1	0	0	0	8
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>WEST VIRGINIA</b>													
NUMBER	0	0	0	0	1	0	0	0	3	0	0	0	4
DAYS	0	0	0	0	1	0	0	0	1	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	6	0	0	0	6
<b>WISCONSIN</b>													
NUMBER	0	0	0	2	4	17	11	0	2	0	0	0	36
DAYS	0	0	0	1	1	1	4	0	1	0	0	0	8
DEATHS	0	0	0	0	0	1	0	0	0	0	0	0	1
INJURIES	0	0	0	0	0	17	0	0	0	0	0	0	17
<b>WYOMING</b>													
NUMBER	0	0	0	0	1	1	1	0	3	0	0	0	6
DAYS	0	0	0	0	1	1	1	0	2	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>UNITED STATES</b>													
NUMBER	3	9	50	125	510*	271*	126*	179	301*	78*	153*	27*	1819*
DAYS	2	6	6	20	25	28	24	25	20	15	12	7	190
DEATHS	0	0	0	8	7	2	0	3	8	3	4	0	35
INJURIES	3	0	5	26	131	35	10	38	72	130	43	3	496

\* CORRECTED FOR BOUNDARY-CROSSING TORNADES  
& TORNADE DAYS FOR COUNTRY AS A WHOLE



# NATIONS SUMMARY OF TORNADOS, TORNADO DAYS AND DEATHS BY MONTH AND ANNUAL, 1953-2004



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	NUMBER	DAYS	DEATHS
1953	14	6	0	16	3	3	40	10	24	47	16	34	94	21	161	111	24	244	31	19	0	24	15	0	5	4	0	6	4	0	12	6	0	21	8	49	421	136	515
1954	2	1	0	17	9	2	63	13	10	112	22	3	101	22	9	107	26	5	45	23	0	49	21	1	21	10	3	14	8	2	2	2	0	17	3	1	550	160	36
1955	3	2	0	4	3	0	43	15	5	99	18	7	147	26	103	154	28	2	49	21	5	33	18	0	15	8	2	23	7	1	20	4	1	3	2	0	593	152	126
1956	2	2	0	47	12	8	31	7	1	85	15	67	79	24	4	65	21	0	91	26	1	43	20	2	16	10	0	29	8	0	7	6	0	9	4	0	504	155	83
1957	17	3	13	5	3	0	38	7	1	216	21	29	227	26	87	147	25	14	55	19	0	20	14	0	17	10	2	18	11	2	58	11	25	38	4	19	856	154	192
1958	12	7	0	20	5	13	15	10	0	76	19	4	68	21	0	127	27	42	121	30	1	46	20	1	24	14	1	9	6	4	45	6	0	1	1	0	564	166	66
1959	16	2	3	20	5	21	43	11	9	30	12	1	226	28	8	73	25	2	63	24	0	38	18	0	58	15	14	24	10	0	11	4	0	2	2	0	604	156	58
1960	9	4	0	28	10	0	28	10	0	70	20	7	201	26	34	124	27	3	43	22	0	47	23	1	22	13	0	18	10	1	25	6	0	1	1	0	616	172	46
1961	1	1	0	31	8	0	124	17	7	74	19	3	137	25	23	107	23	2	77	27	0	27	16	0	53	16	15	14	5	0	36	7	1	16	5	0	697	169	51
1962	12	3	1	25	7	0	37	9	17	41	8	1	200	22	3	171	29	0	78	26	0	51	21	6	24	11	0	11	10	0	5	4	0	2	2	0	657	152	28
1963	15	5	1	6	3	0	48	12	8	84	14	16	71	21	1	91	23	0	62	26	0	26	13	2	33	13	3	13	5	0	15	6	0	0	0	0	464	141	31
1964	14	3	10	2	2	0	36	11	6	157	23	15	135	20	16	136	24	0	63	23	0	79	23	2	25	10	0	22	4	22	17	8	0	18	5	2	704	156	73
1965	21	11	0	32	4	0	34	9	2	129	20	267	275	25	17	147	28	6	86	26	0	61	23	1	64	21	0	16	4	1	34	6	5	7	4	0	906	181	299
1966	1	1	0	28	5	0	12	6	58	80	20	12	98	17	0	126	28	19	100	27	3	58	21	0	22	13	0	29	6	6	20	3	0	11	3	0	585	150	98
1967	39	4	7	8	5	0	42	14	3	149	18	73	116	25	3	210	27	6	90	25	1	28	16	2	139	16	5	36	7	4	8	5	0	61	10	10	926	173	114
1968	5	3	0	7	3	0	28	8	0	102	15	40	145	26	72	136	27	11	56	22	2	66	23	2	25	14	0	14	9	0	44	12	3	32	9	1	660	171	131
1969	3	1	32	5	5	0	8	2	1	68	15	2	145	25	4	137	28	7	99	27	0	69	21	19	20	11	0	26	10	0	5	3	0	23	7	1	608	155	66
1970	9	5	0	16	3	0	25	12	2	117	16	29	88	19	26	134	24	6	81	26	3	55	21	0	54	20	0	50	13	6	10	4	0	14	8	0	653	171	72
1971	18	7	1	83	12	131	40	13	2	75	14	11	166	24	7	199	28	1	100	30	1	50	21	0	47	15	0	38	12	0	16	7	0	56	9	2	888	192	156
1972	33	10	5	7	4	0	69	17	0	96	20	16	140	27	0	114	25	2	115	29	0	59	23	2	49	19	0	34	10	0	17	4	2	8	6	0	741	194	27
1973	33	7	1	10	4	0	80	16	17	150	22	10	250	26	35	224	26	2	80	26	0	51	23	4	69	22	3	25	11	0	81	11	12	49	12	3	1102	206	87
1974	24	8	2	23	9	0	36	12	1	269	22	313	144	28	10	194	26	31	59	19	0	107	26	0	25	11	0	45	10	4	13	8	0	8	5	0	947	184	361
1975	52	7	12	45	12	7	84	16	12	108	20	13	188	30	5	196	28	6	79	26	2	60	25	2	34	17	0	12	7	0	40	8	0	22	8	1	920	204	60
1976	12	5	0	37	6	5	180	18	21	113	23	1	155	24	8	169	26	3	84	28	2	38	18	1	35	15	3	11	5	0	0	0	1	1	0	835	169	44	
1977	5	4	0	17	3	2	64	15	0	88	15	26	228	29	4	132	27	0	99	27	1	82	26	6	65	21	1	25	5	1	24	10	0	23	7	2	852	189	43
1978	23	7	2	6	3	0	17	8	0	107	17	4	213	27	7	148	28	17	143	30	11	65	24	1	20	10	6	7	5	0	9	5	0	30	9	5	788	173	53
1979	16	9	0	4	3	0	53	13	1	120	17	58	112	23	2	150	24	8	132	30	1	127	27	5	68	19	2	47	12	7	21	8	0	2	1	0	852	186	84
1980	5	4	0	11	9	0	41	15	2	137	16	4	203	25	8	217	30	7	95	26	5	73	27	0	37	14	1	43	7	1	3	2	0	1	1	0	866	176	28
1981	3	3	0	25	5	2	33	13	1	84	18	13	187	24	0	223	29	8	98	27	0	64	22	0	26	16	0	32	12	0	7	5	0	1	1	0	783	175	24
1982	18	8	1	3	2	0	60	15	6	150	20	30	327	28	14	198	30	4	95	29	0	34	15	0	38	12	2	9	4	0	19	6	0	95	13	7	1046	182	64
1983	13	2	2	41	7	1	71	21	0	65	15	6	249	26	14	178	27	2	99	27	4	76	21	0	20	15	0	12	5	0	49	11	0	58	13	5	931	190	34
1984	1	1	0	27	4	0	73	15	64	176	22	33	169	27	6	242	25	14	72	21	0	47	20	0	17	12	0	49	12	4	30	5	1	4	2	0	907	166	122
1985	2	2	0	7	4	0	38	12	2	134	19	5	182	28	78	82	24	3	51	19	0	108	26	3	40	16	0	18	8	0	19	8	3	3	2	0	684	168	94
1986	0	0	0	30	11	2	75	9	6	84	17	2	173	25	1	134	25	0	88	24	3	67	23	1	65	17	0	26	7	0	17	8	0	5	2	0	764	168	15
1987	6	3	0	19	4	6	38	11	1	20	8	1	126	25	31	132	29	2	163	28	0	63	24	1	19	10	0	1	1	0	55	5	11	14	3	6	656	151	59
1988	17	3	5	4	3	0	28	10	1	58	16	4	132	24	3	63	21	0	103	23	0	61	13	3	76	16	1	19	8	0	121	13	14	20	6	1	702	156	32
1989	15	6	0	18	3	0	44	14	1	82	13	0	234	28	9	253	27	5	59	19	0	36	20	0	31	12	0	30	7	4	58	10	31	3	1	0	856	160	50
1990	11	7	0	57	10	1	88	8	3	108	17	0	243	27	5	335	28	11	106	26	0	60	22	29	45	15	0	35	9	2	18	5	0	35	7	2	1133	181	53
1991	29	6	1	11	5	0	159	16	13	206	20	21	335	30	0	216	30	1	65	22	1	46	17	0	26	16	0	22	9	0	20	5	2	3	3	0	1132	179	39
1992	15	6	0	29	9	0	55	17	5	53	11	0	137	21	0	400	29	1	214	30	0	115	22	3	82	17	0	34	10	4	149	14	26	20	9	0	1298	195	39



# NATIONS SUMMARY OF TORNADOS, TORNADO DAYS AND DEATHS BY MONTH AND ANNUAL, 1953-2004



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
2003	0	0	0	18	5	2	43	11	8	157	15	0	558	24	41	292	28	2	168	24	0	44	21	0	32	14	0	26	12	1	53	8	0	1	1	0	1372	163	54
2004	3	2	0	9	6	0	50	6	0	125	20	8	510	25	7	271	28	2	126	24	0	179	25	3	301	20	8	78	15	3	153	12	4	27	7	0	1819	190	35
POR	985	256	121	1130	309	286	2859	621	422	5975	901	1309	75	01	309	9316	1386	516	5255	1327	56	3324	1105	115	2503	767	81	1743	455	92	1881	355	205	989	263	137	46268	9064	4325
MEAN	19	5	2	22	6	6	55	12	8	115	17	25	201	25	19	179	27	10	101	26	1	64	21	2	48	15	2	34	9	2	36	7	4	19	5	3	890	174	83





# TORNADOES, TORNADO DAYS AND DEATHS BY STATE AND NATION 1953-2004



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	1309	25	57	2004	5	1956	4.84	618	12	355	7	69
ALASKA	3	0	2	2004	0	1989+	.00	3	0	0	0	0
ARIZONA	204	4	17	1972	0	1965+	.36	160	3	3	0	0
ARKANSAS	1310	25	106	1999	2	1987+	4.71	528	10	229	4	43
CALIFORNIA	336	6	25	1998	0	1968+	.38	240	5	0	0	0
COLORADO	1714	33	98	1996+	1	1959	3.17	822	16	2	0	0
CONNECTICUT	76	1	8	1973	0	1988+	2.00	64	1	4	0	8
DELAWARE	57	1	6	1992	0	1987+	4.86	46	1	2	0	10
DISTRICT OF COLUMBIA	2	0	1	1995+	0		0	.0	2	0	0	0
FLORIDA	2834	55	115	1997	10	1956	9.39	1709	33	140	3	24
GEORGIA	1135	22	52	1994	2	1987	3.74	589	11	155	3	26
HAWAII	31	1	4	1971	0	1987+	1.55	27	1	0	0	0
IDAHO	172	3	13	2000	0	1977+	.36	136	3	0	0	0
ILLINOIS	1825	35	120	2003	4	1953	6.21	712	14	197	4	35
INDIANA	1135	22	49	1990	4	1984	6.06	514	10	224	4	62
IOWA	1929	37	120	2004	7	1956	6.58	772	15	65	1	12
KANSAS	2861	55	124	2004	14	1976	6.68	1095	21	205	4	25
KENTUCKY	607	12	39	1997	0	1953	2.97	311	6	114	2	28
LOUISIANA	1403	27	79	1992	3	1955	5.56	756	15	117	2	24
MAINE	97	2	11	1971	0	1987+	.60	87	2	1	0	0
MARYLAND	287	6	24	1995	0	1988+	5.67	171	3	7	0	7
MASSACHUSETTS	145	3	12	1958	0	1988+	3.63	104	2	102	2	124
MICHIGAN	876	17	39	1974	2	1959	2.92	488	9	238	5	41
MINNESOTA	1309	25	73	2001	5	1988+	2.97	607	12	86	2	10
MISSISSIPPI	1416	27	62	1988	1	1979	5.66	638	12	385	7	81
MISSOURI	1565	30	86	2003	6	1977+	4.31	647	12	168	3	24
MONTANA	350	7	30	1991	0	1974+	.48	236	5	1	0	0
NEBRASKA	2334	45	111	2004	10	1966	5.83	954	18	54	1	7
NEVADA	74	1	8	1987+	0	1985+	.09	67	1	0	0	0
NEW HAMPSHIRE	78	2	9	1963	0	1987+	2.15	69	1	0	0	0
NEW JERSEY	136	3	17	1989	0	1984+	3.83	102	2	1	0	1
NEW MEXICO	484	9	31	1991	0	1953	.74	344	7	3	0	0
NEW YORK	347	7	25	1992	0	1953	1.41	229	4	21	0	4
NORTH CAROLINA	969	19	67	2004	2	1970	3.60	494	10	88	2	17
NORTH DAKOTA	1134	22	58	1999	2	1961	3.11	557	11	22	0	3
OHIO	803	15	61	1992	0	1988	3.64	413	8	182	4	44
OKLAHOMA	2938	57	144	1999	17	1988	8.15	1078	21	256	5	37
OREGON	94	2	14	1997	0	1988+	.21	83	2	0	0	0
PENNSYLVANIA	643	12	60	1998	0	1959	2.65	366	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	747	14	86	2004	1	1986+	4.51	393	8	51	1	16
SOUTH DAKOTA	1510	29	85	1993	1	1958	3.76	633	12	15	0	2
TENNESSEE	774	15	45	2003	1	1987+	3.55	365	7	149	3	35
TEXAS	7217	139	232	1967+	32	1953	5.20	2576	50	504	10	19
UTAH	107	2	7	1998	0	1989+	.24	90	2	1	0	0
VERMONT	36	1	5	1962	0	1985+	1.04	32	1	0	0	0
VIRGINIA	509	10	84	2004	1	1982+	2.45	269	5	25	0	6
VIRGIN ISLANDS	2	0	1	1979+	0	1989+	.00	2	0	0	0	0
WASHINGTON	89	2	14	1997	0	1988+	.29	76	1	6	0	1
WEST VIRGINIA	118	2	16	1998	0	1988+	.83	91	2	2	0	1
WISCONSIN	1035	20	43	1980	3	1953	3.63	512	10	86	2	16
WYOMING	551	11	42	1977	0	1970	1.12	364	7	2	0	0
PACIFIC ISLANDS	2	0	1	1981+	0	1989+	.00	2	0	0	0	0
UNITED STATES	47438*	912	1819	2004	421	1953	2.53	9260&	178	4350	84	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 - 2004



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 - 2004



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
2003	1372	163	54	11	8	212	86	38
2004	1819	190	35	8	8	281	94	19
MEAN	890	174	83	-	-	151	49	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:

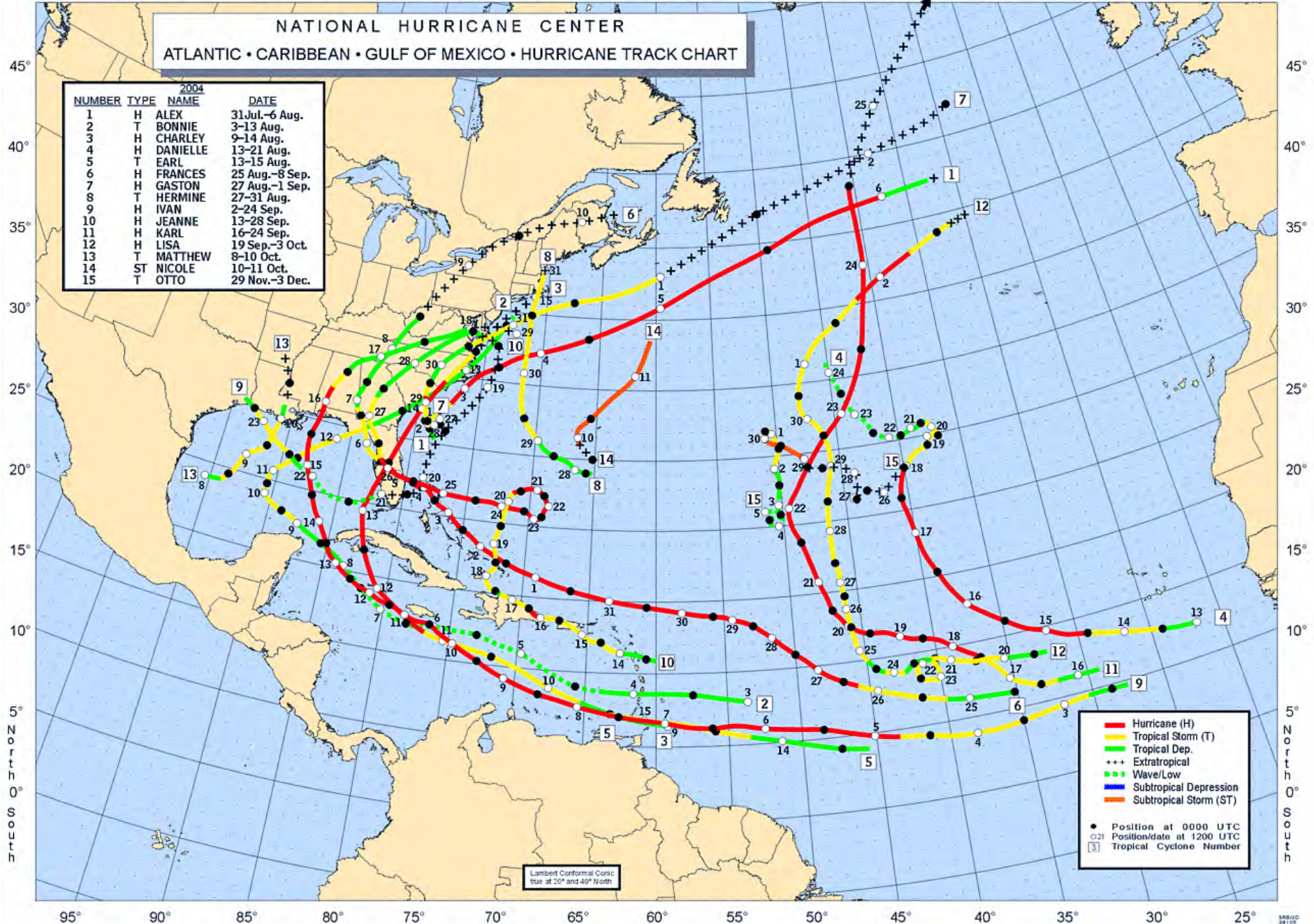
- |                                |                                  |
|--------------------------------|----------------------------------|
| 5. \$50,000 TO \$500,000       | 8. \$50 MILLION TO \$500 MILLION |
| 6. \$500,000 TO \$5 MILLION    | 9. \$500 MILLION AND OVER        |
| 7. \$5 MILLION TO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

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

120° 115° 110° 105° 100° 95° 90° 85° 80° 75° 70° 65° 60° 55° 50° 45° 40° 35° 30° 25° 20° 15° 10° 5° West 0° East 5°

**NATIONAL HURRICANE CENTER**  
**ATLANTIC • CARIBBEAN • GULF OF MEXICO • HURRICANE TRACK CHART**

2004			
NUMBER	TYPE	NAME	DATE
1	H	ALEX	31 Jul.-6 Aug.
2	T	BONNIE	3-13 Aug.
3	H	CHARLEY	9-14 Aug.
4	H	DANIELLE	13-21 Aug.
5	T	EARL	13-15 Aug.
6	H	FRANCES	25 Aug.-8 Sep.
7	H	GASTON	27 Aug.-1 Sep.
8	T	HERMINE	27-31 Aug.
9	H	IVAN	2-24 Sep.
10	H	JEANNE	13-28 Sep.
11	H	KARL	16-24 Sep.
12	H	LISA	19 Sep.-3 Oct.
13	T	MATTHEW	8-10 Oct.
14	ST	NICOLE	10-11 Oct.
15	T	OTTO	29 Nov.-3 Dec.



- Hurricane (H)
- Tropical Storm (T)
- Tropical Dep.
- +++ Extratropical
- - - Wave/Low
- Subtropical Depression
- Subtropical Storm (ST)

- Position at 0000 UTC
- 21 Position/date at 1200 UTC
- Ⓝ Tropical Cyclone Number

Lambert Conformal Conic  
 true at 20° and 40° North