

1996 Annual Summaries

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

FLOOD/FLASH FLOOD



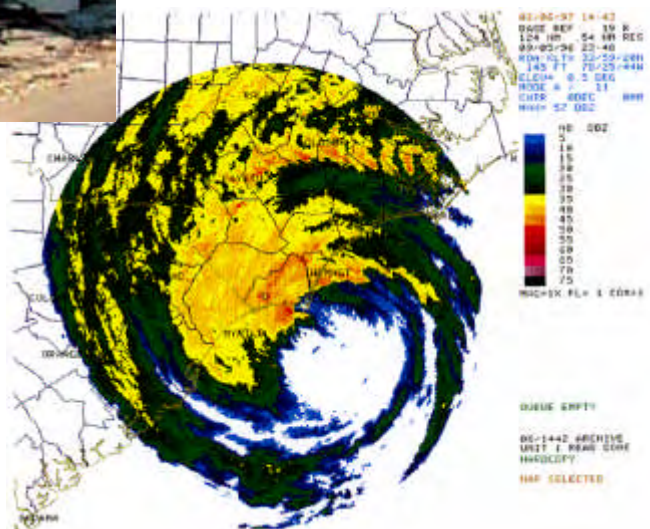
Lightning



Tornado



Hurricane



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All summaries have been compiled from information in the Storm Data Publication. The data and information found in these summaries have been thoroughly checked for erroneous data; however, some discrepancies may exist.

Flood/Flash Flood Summary compiled by Dr. Richard A. Wood and Stuart Hinson. Sources include Storm Data Publication, National Weather Service Office of Hydrology.

Lightning Summary compiled by Stuart Hinson and William Angel from the Storm Data Publication database.

Tornado Summary compiled by Stuart Hinson, William Angel and Robb Kookaby from the Storm Data Publication database.

Hurricane Summary compiled by Stuart Hinson from data retrieved from the National Hurricane Center, Miami, Fl. and the Storm Data Publication database.

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Flood/Flash Flood Fatalities - 1960 through 1996 United States, Puerto Rico and the Virgin Islands Year by Year / State by State

**Compiled by Richard A. Wood, Ph.D.
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From 1960 through 1996, a total of 4,629 people have lost their lives in the United States and its territories due to floods and flash floods. Most flash flood fatalities (56%) are vehicle related.

Texas leads the nation with the most flood/flash flood deaths during the past 37 years with 619, followed by Puerto Rico (367), California, West Virginia, Virginia and South Dakota.

In 1996, 164 people died in floods/flash floods, the greatest total since 1985. Of the 164 deaths, 59% were vehicle related. Pennsylvania had 17% of the 1996 fatalities, occurring mostly in January.

All but 11 of the 248 fatalities in South Dakota occurred during the flash floods in the Rapid City area on June 9-10, 1972. More than half of the Virginia deaths occurred during the August 1969 floods associated with Hurricane Camille in the western portion of the state. Most of the Colorado deaths (81%) happened during the Big Thompson Canyon flash flood of August 1, 1976.

The top fifteen flood/flash flood fatality states during 1960 - 1996 are:

1. Texas	619	6. Pennsylvania	216	11. New York	119
2. California	258	7. Mississippi	187	12. Georgia	112
3. West Virginia	252	8. Colorado	171	13. Ohio	105
4. Virginia	251	9. Louisiana	149	14. North Carolina	97
5. South Dakota	248	10. Missouri	130	15. Arizona	96

1996 fatalities by month:

Jan.	38	Jul.	18
Feb.	13	Aug.	3
Mar.	0	Sep.	51
Apr.	2	Oct.	3
May	12	Nov.	7
Jun.	16	Dec.	1

Total 164

1996 fatalities by locations:

59%	in a vehicle
26%	in or near a waterway
9%	in a permanent home
3%	in a mobile home
2%	in boats or boating
1%	unknown/other

Sources: Dr. Richard Wood, National Weather Service, Office of Hydrology, National Climatic Data Center Storm Data Publications.

U.S. Flood/Flash Flood Fatalities 1960 - 1996 (AL - NH)

	AL	AZ	AR	CA	CO	CT	DE	FL	GA	ID	IL	IN	IA	KS	KY	LA	ME	MD	MA	MI	MN	MS	MO	MT	NE	NV	NH
1960				7							1			3	2			2	3								
1961			4						1		1		5	5													
1962				2	1		7						1		1			4									
1963	1		1	3			1				1		1		2			2	1				1				
1964				19				4	5						10	28							1				1
1965	2			8	22			5	2				4			58		1			12	1	5	36	2	1	1
1966				6					1				1		2										1		
1967	7			4			3		1				1		3			1			1		1				
1968	4			1					1		1		5			2		2	2	4			1				
1969	1		2	58	1				2			4	1		3	3		4			6	132	2		1		
1970	1	23	1	21								1			1						3	1					
1971		1													1			16							1		
1972	2	8		1				1			1		2		11			19	4		3	3					
1973	2		4	5					1		1	11		4		3	3		3			19	12			1	8
1974		3	3	5			1	5			3		1	3	1	5					1	9	4	2		9	
1975	2		3	1	1	2	2				1	2	1	2	7	2		1		1		3	1			3	
1976	2	1		4	139				1	11				3		2											
1977			1						39		1			6	8	1							26				
1978	1	17	10	26							2	2			2	6		1			13				1		
1979	15		2	1		1		5	3		4	4			6	4		1				4	3				
1980	3	5		6		1			4							2					1	2			1		
1981		8		8							1	3	2	3	2	2		1		1		1	1				1
1982		2		11	4	5			1		5		1	5	2	6						1	6				
1983	1	15	2	7							2	2		6	1	6	2	1				5	1				
1984		1	1	2											7	1							4	2	2	8	
1985		1	2								6				4			1				4	4				
1986				13							1		1					1	1	2	1	4	2			1	
1987			4						4		1	2		1	2		1			1	2						
1988	1	1		3				4				2				5											
1989			4	1		3		1				2		2	3	3		7					1				
1990	16	3	1	3					14		5	3	3		2	3				4	1	2	5		1	2	
1991	1	1	1	1								3	3		3	3	1					2		1	1		
1992		1		2				2	2			1		1	5	1							5			1	
1993		3	2	17				2	2		1	1	3	2	2						2	1	30		4		
1994				2					28		2	1		1								1	3				
1995	1	2		7							1	2			2	6						1	2				
1996	1			3	3					1	2	2		2	2		1	3		2			7	4			1
Totals	64	96	48	258	171	9	17	29	112	12	44	48	36	49	95	149	8	68	14	15	46	187	130	49	14	26	10

U.S. Flood/Flash Flood Fatalities 1960 - 1996 (NJ - VI)

	NJ	NM	NY	NC	ND	OH	OK	OR	PA	RI	SC	SD	TN	TX	UT	VT	VA	WA	WV	WI	WY	AK	HI	PR	VI	TOTALS
1960	9		7	3				1	1					15		1			1	1				111		168
1961			1	1				2						36	6		1		22					8		93
1962	15		7	3			2							4			4		1			1				53
1963												2	4	4			2		12				3			41
1964				3		8		18			2		4	5			1						1	3		142
1965		3		1				1			9		6	28	7		1	1			1			6		188
1966		1			4									36									2	2		56
1967	1	7	3	1					3				3	10					3							53
1968	8					3							2	16												57
1969	1	2				30		1	2		2	3	2	12			153		4	2				10	1	445
1970								1	3					17		2								55	1	131
1971	3					2				17				23				1					2	1		68
1972	2	5	21	2				7	51			237	1	24			20	4	125				2	1		555
1973	9		2	16		1	10		7		3		11	27		5	3		3					4		178
1974	3	2		1	1		1	9	1				2	22									5	9		111
1975	6		6	4	5	2			4		1		5	13			2		3					41		127
1976		2	3	4	1		3		1		2		1	9		2	1	1						2		193
1977			6	11		1		5	78				11	5			4	1	2					4		210
1978		7	1			3	2		1					40			1	1	2	1			1	3		143
1979		3	5	6		1	3						2	28			8	2	1					9		121
1980			6			3	2	2	9				3	6	1				2	2	1		2			62
1981						2	4		4				3	36							1			1		84
1982		1					6						1	1				1						1		60
1983			4		1	1	4	2			3		5	19		1		5							1	97
1984		6	4	5			15		5		2		3	7		5			2					1		83
1985							8		3					16			19		38			12		52		166
1986		2	4			1	2		9		4		1	18	1	3	3	1	1	1				2		80
1987			11				3	1	1		1		3	17		1	3						3	9		71
1988		3												7										5		31
1989		2	4	6		4	1		1				12	17			6		4		1					85
1990		2		1		32	1		1		9		5	14		1		2	7					2		142
1991		4		1				1	1				1	16			2		2				7	3		61
1992	2		2	3		2	3							4			2									39
1993			8	2	1		5					5		6			1			1	1				1	103
1994	1		2			1	5		1				3	28					5	2			3			89
1995				9		5	2		1		3			26		1	5	1		1				1		79
1996	1	5	12	14	2	3	5	7	28		2			7	1	2	10		12					19		164
Totals	61	57	119	97	15	105	87	58	216	17	43	248	91	619	16	24	251	22	252	11	15	1	29	367	4	4629

National Summary of Lightning, 1996

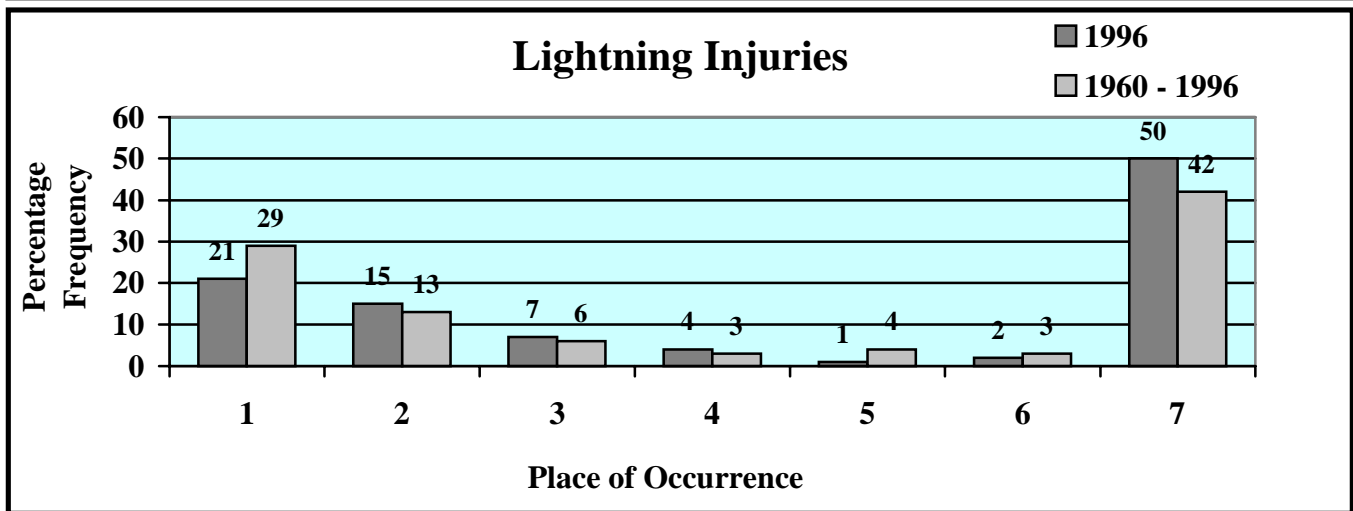
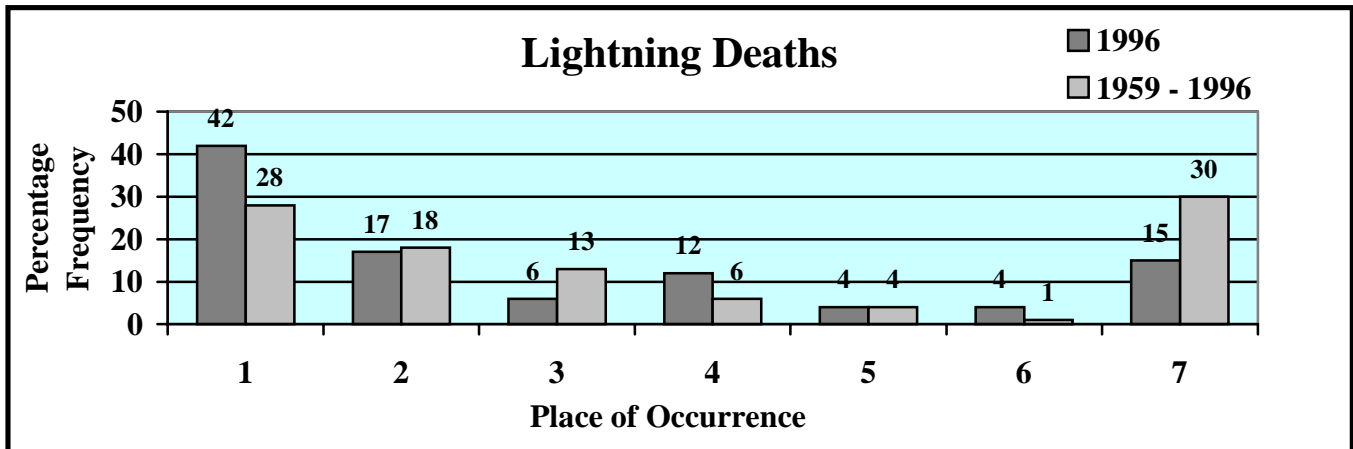
Stuart Hinson and William Angel

National Oceanic and Atmospheric Administration

National Environmental, Satellite, Data and Information Service

National Climatic Data Center, Asheville, NC

There were 52 lightning deaths in 1996, which is 42% below the annual national average of 89. A 33% increase of deaths in open areas such as parks and fields was reported while there was a 50% decrease in various/other unknown locations. This is most likely due to the increased accuracy in the definition of death/injury locations. There were 309 injuries reported in 1996, 10% above the national average of 280. In 1996, Florida ranked number 1 in both lightning deaths with 10 (19%) and injuries with 85 (27.5%)



Place of Occurrence:

1. Open fields, ball fields, parks, etc.
2. Under trees
3. Boating, fishing, water related, etc.
4. Golf courses
5. Farming, construction, near heavy machinery, etc.
6. On telephones, radios, electronics, etc.
7. Various other/unknown



TOTAL LIGHTNING DEATHS BY STATE AND NATION FOR YEAR 1996



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	0	0	0	1	0	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	0	0	0	0	0	0	0	0	0	0
CALIFORNIA	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORADO	0	0	0	0	0	1	1	0	1	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	1	0	3	2	3	1	0	0	0	10
GEORGIA	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1	1	0	0	0	0	0	0	2
INDIANA	0	0	0	0	1	0	0	0	0	0	0	0	1
IOWA	0	0	0	0	1	0	0	0	0	0	0	0	1
KANSAS	0	0	0	0	0	2	0	0	0	0	0	0	2
KENTUCKY	0	0	0	0	0	0	0	0	1	0	0	0	1
LOUISIANA	1	0	0	1	0	0	0	0	0	0	0	1	3
MAINE	0	0	0	0	0	0	0	0	0	0	0	0	0
MARYLAND	0	0	0	0	0	1	0	0	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	1	0	0	0	0	0	1
MINNESOTA	0	0	0	0	0	1	0	1	0	0	0	0	2
MISSISSIPPI	0	0	0	0	0	1	0	0	0	0	0	0	1
MISSOURI	0	0	0	0	0	1	0	0	0	0	0	0	1
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	3	0	0	0	0	3
NEW YORK	0	0	0	0	0	0	0	1	0	0	0	0	1
NORTH CAROLINA	0	0	0	0	0	0	0	1	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	0	2	0	1	0	0	0	0	3
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	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	0	0	0	0	0	0
SOUTH CAROLINA	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE	0	0	0	0	0	0	1	0	0	0	0	0	1
TEXAS	0	0	0	1	0	3	0	2	0	0	0	0	6
UTAH	0	0	0	0	0	0	0	1	0	0	0	0	1
VERMONT	0	0	0	0	0	1	0	0	0	0	0	0	1
VIRGINIA	0	0	0	0	0	0	1	0	0	0	0	0	1
WASHINGTON	0	0	0	1	0	0	0	0	1	0	0	0	2
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	1	0	0	4	3	18	8	13	4	0	0	1	52



TOTAL LIGHTNING INJURIES BY STATE AND NATION FOR YEAR 1996



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	1	1	0	2	1	0	0	0	0	0	5
ALASKA	0	0	0	0	0	0	0	1	0	0	0	0	1
ARIZONA	0	1	0	0	0	2	0	1	2	0	0	0	6
ARKANSAS	0	0	0	0	0	2	3	0	0	0	0	0	5
CALIFORNIA	0	0	1	0	0	0	0	2	0	0	0	0	3
COLORADO	0	0	0	0	0	2	3	5	2	3	0	0	15
CONNECTICUT	0	1	0	0	0	0	0	0	0	0	0	0	1
DELAWARE	0	0	0	0	0	0	0	0	0	0	0	0	0
DISTRICT OF COLUMBIA	0	0	0	0	0	1	0	0	0	0	0	0	1
FLORIDA	0	0	1	10	12	16	24	10	12	0	0	0	85
GEORGIA	0	0	0	0	1	1	0	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	1	0	0	2	0	0	1	3	0	0	0	7
INDIANA	0	0	0	0	5	1	0	1	1	0	0	0	8
IOWA	0	0	0	0	1	0	0	1	0	0	0	0	2
KANSAS	0	0	0	0	0	0	1	0	0	0	0	0	1
KENTUCKY	0	0	0	0	2	0	0	0	0	0	0	0	2
LOUISIANA	1	0	0	0	0	0	1	1	0	0	0	2	5
MAINE	0	0	0	0	0	0	0	1	0	0	0	0	1
MARYLAND	1	0	0	0	0	2	0	0	0	0	0	0	3
MASSACHUSETTS	0	0	0	0	0	12	2	3	0	0	0	0	17
MICHIGAN	0	0	0	0	1	0	0	0	0	0	0	0	1
MINNESOTA	0	0	1	0	0	1	3	1	0	0	0	0	6
MISSISSIPPI	0	0	0	0	0	0	0	0	0	0	5	0	5
MISSOURI	0	0	0	0	0	0	0	1	0	0	0	0	1
MONTANA	0	0	0	0	0	0	0	0	0	0	0	0	0
NEBRASKA	0	0	0	0	2	0	0	3	0	0	0	0	5
NEVADA	0	0	0	0	0	0	1	0	0	0	0	0	1
NEW HAMPSHIRE	0	0	0	0	0	0	5	0	0	0	0	0	5
NEW JERSEY	0	0	0	0	0	0	2	1	1	0	0	0	4
NEW MEXICO	0	0	0	0	0	0	0	0	0	1	0	0	1
NEW YORK	0	0	0	0	1	2	3	6	0	0	0	0	12
NORTH CAROLINA	0	0	0	0	0	20	2	4	0	0	0	0	26
NORTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
OHIO	0	0	0	0	2	13	5	0	0	0	0	0	20
OKLAHOMA	0	0	0	0	0	0	2	0	0	0	0	0	2
OREGON	0	0	0	0	0	0	0	0	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	1	7	5	0	0	0	0	0	13
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	3	1	0	1	0	0	0	0	5
SOUTH DAKOTA	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE	0	0	0	0	0	0	0	0	0	0	0	0	0
TEXAS	0	0	0	0	0	4	0	2	0	1	0	0	7
UTAH	0	0	0	0	0	0	0	0	0	0	0	0	0
VERMONT	0	0	0	0	0	1	0	0	0	0	0	0	1
VIRGINIA	0	0	0	0	3	1	0	3	0	0	0	0	7
WASHINGTON	0	0	0	0	0	0	0	0	0	0	1	0	1
WEST VIRGINIA	0	0	0	0	0	0	0	0	0	0	0	0	0
WISCONSIN	0	0	0	1	0	11	2	0	0	1	0	0	15
WYOMING	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL: UNITED STATES	2	3	4	12	36	102	66	49	21	6	6	2	309



TOTAL LIGHTNING DEATHS BY STATE AND NATION FOR PERIOD 1959-1996



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	0	0	3	1	10	10	7	1	1	0	0	33
ALASKA	0	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	0	0	0	0	2	0	7	7	9	1	0	0	26
ARKANSAS	0	0	8	0	2	13	17	12	4	0	0	0	56
CALIFORNIA	0	0	0	0	0	2	3	1	5	0	0	0	11
COLORADO	0	0	0	2	1	11	22	11	6	1	0	0	54
CONNECTICUT	0	0	0	0	0	1	3	2	0	0	0	0	6
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	1	4	8	40	61	50	30	2	0	0	196
GEORGIA	0	0	1	1	4	10	16	9	1	1	0	0	43
HAWAII	0	0	0	0	0	0	0	0	0	0	0	0	0
IDAHO	0	0	0	0	0	3	2	1	1	0	0	0	7
ILLINOIS	0	0	0	2	3	14	8	12	4	1	0	0	44
INDIANA	0	0	1	1	3	10	7	10	4	2	0	0	38
IOWA	0	0	0	1	5	10	2	11	1	2	0	0	32
KANSAS	0	0	0	3	3	6	7	1	1	1	2	0	24
KENTUCKY	0	0	0	2	3	9	9	6	12	0	0	0	41
LOUISIANA	1	0	0	4	5	13	21	3	11	0	2	2	62
MAINE	0	0	0	0	0	1	3	4	0	3	0	0	11
MARYLAND	0	0	0	0	2	2	6	6	2	1	0	81	100
MASSACHUSETTS	0	0	0	0	1	3	1	5	1	0	0	0	11
MICHIGAN	0	0	0	1	2	12	20	14	5	0	0	0	54
MINNESOTA	0	0	0	1	2	8	6	10	2	1	0	0	30
MISSISSIPPI	0	0	3	1	5	7	18	7	5	0	0	0	46
MISSOURI	0	0	4	0	7	16	8	7	1	1	0	0	44
MONTANA	0	0	0	0	0	3	6	0	0	0	0	0	9
NEBRASKA	0	0	0	0	1	8	5	5	3	0	0	0	22
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	1	2	6	6	5	0	0	0	21
NEW MEXICO	0	0	0	0	2	6	13	25	2	0	0	0	48
NEW YORK	0	0	0	0	4	10	35	18	4	2	0	0	73
NORTH CAROLINA	0	1	2	0	5	11	25	19	4	0	0	0	67
NORTH DAKOTA	0	0	0	0	0	3	2	1	0	0	0	0	6
OHIO	0	0	0	2	5	12	20	13	8	2	2	0	64
OKLAHOMA	1	0	0	2	6	8	6	14	10	2	0	0	49
OREGON	0	0	0	0	0	0	0	0	2	0	0	0	2
PENNSYLVANIA	0	0	0	1	1	10	20	13	7	1	0	0	53
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	4	12	9	7	0	0	0	36
SOUTH DAKOTA	0	0	0	0	4	1	2	1	2	0	0	0	12
TENNESSEE	0	1	0	5	7	22	15	11	12	2	1	0	76
TEXAS	0	0	1	9	14	11	22	14	9	2	0	0	82
UTAH	0	0	0	1	0	4	3	5	4	0	0	0	17
VERMONT	0	0	0	0	0	1	1	2	0	0	0	0	4
VIRGINIA	0	0	0	0	1	4	6	4	3	0	0	0	18
WASHINGTON	0	0	0	1	0	1	1	0	1	0	0	0	4
WEST VIRGINIA	0	0	0	0	3	4	5	3	1	0	0	0	16
WISCONSIN	0	0	1	1	0	4	6	11	2	0	0	1	26
WYOMING	0	0	0	0	0	4	4	4	2	0	0	0	14
TOTAL: UNITED STATES	2	2	23	49	120	338	478	385	197	31	7	84	1716



TOTAL LIGHTNING INJURIES BY STATE AND NATION FOR PERIOD 1959-1996



STATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA	0	2	6	1	8	11	55	25	4	2	0	0	114
ALASKA	0	0	0	0	0	0	1	1	0	0	0	0	2
ARIZONA	0	1	0	0	4	4	7	29	17	3	1	0	66
ARKANSAS	1	0	2	6	6	12	16	37	7	0	0	1	88
CALIFORNIA	0	0	4	1	0	0	6	5	13	1	1	0	31
COLORADO	0	0	0	2	18	57	60	58	14	3	0	0	212
CONNECTICUT	0	1	2	1	1	2	15	5	6	3	0	0	36
DELAWARE	0	0	0	0	7	6	2	0	0	0	0	0	15
DISTRICT OF COLUMBIA	0	0	0	0	0	2	0	1	0	0	1	0	4
FLORIDA	0	1	12	20	30	110	209	137	123	36	1	1	680
GEORGIA	2	0	3	3	19	43	72	31	3	5	0	1	182
HAWAII	0	1	0	0	0	0	0	3	0	0	2	0	6
IDAHO	0	0	0	0	0	16	8	10	3	1	0	0	38
ILLINOIS	0	1	0	1	9	30	25	49	25	6	0	0	146
INDIANA	0	0	2	1	15	17	35	22	8	0	0	0	100
IOWA	0	0	0	3	10	27	12	11	6	1	0	0	70
KANSAS	0	0	5	4	6	13	27	16	25	2	1	0	99
KENTUCKY	0	0	0	0	11	15	41	13	8	0	0	0	88
LOUISIANA	1	0	4	2	13	17	30	19	9	1	1	2	99
MAINE	0	0	0	0	2	11	22	13	0	0	1	0	49
MARYLAND	1	0	0	0	4	10	21	19	4	3	0	0	62
MASSACHUSETTS	0	0	0	0	11	36	54	50	26	0	0	1	178
MICHIGAN	0	0	2	6	12	65	103	64	25	6	0	0	283
MINNESOTA	0	0	1	0	9	11	22	17	2	3	0	0	65
MISSISSIPPI	1	0	4	2	8	4	45	16	8	2	7	1	98
MISSOURI	0	1	1	9	4	13	6	17	8	1	4	0	64
MONTANA	0	0	0	0	0	8	4	2	0	0	0	0	14
NEBRASKA	0	0	0	2	13	6	8	11	3	0	0	0	43
NEVADA	0	0	0	0	2	2	3	1	1	0	0	0	9
NEW HAMPSHIRE	0	0	0	0	0	2	29	9	0	0	0	0	40
NEW JERSEY	0	0	0	0	1	2	15	8	17	0	0	0	43
NEW MEXICO	0	0	0	0	3	12	44	49	4	1	0	0	113
NEW YORK	0	0	0	0	10	35	79	107	23	4	1	0	259
NORTH CAROLINA	0	2	19	4	15	58	85	85	22	2	1	0	293
NORTH DAKOTA	0	0	0	0	1	0	4	1	2	0	0	0	8
OHIO	0	0	2	4	29	45	56	94	51	4	12	0	297
OKLAHOMA	1	0	1	6	12	22	23	33	21	18	6	2	145
OREGON	0	0	0	0	1	0	0	8	1	0	0	0	10
PENNSYLVANIA	1	1	0	0	19	91	85	33	45	3	0	0	278
PUERTO RICO	0	0	0	0	0	0	0	0	0	0	0	0	0
RHODE ISLAND	0	0	0	0	0	3	1	9	3	0	1	0	17
SOUTH CAROLINA	0	0	0	2	11	12	42	24	16	0	1	0	108
SOUTH DAKOTA	0	0	0	1	3	9	11	5	1	2	0	0	32
TENNESSEE	1	1	1	25	29	14	63	30	9	5	1	0	179
TEXAS	1	2	4	6	20	36	21	31	35	5	1	0	162
UTAH	0	0	0	1	7	16	6	12	7	0	0	0	49
VERMONT	0	0	0	0	0	4	3	2	0	0	0	0	9
VIRGINIA	0	0	1	4	6	14	59	18	9	0	0	0	111
WASHINGTON	0	0	0	0	0	12	1	5	0	0	1	1	20
WEST VIRGINIA	0	0	0	10	1	3	40	27	0	1	0	0	82
WISCONSIN	0	1	0	2	1	35	34	36	6	3	0	0	118
WYOMING	0	0	0	1	2	13	9	8	5	0	0	0	38
TOTAL: UNITED STATES	10	15	76	130	393	986	1619	1316	625	127	45	10	5352



NATIONAL TOTAL LIGHTNING DEATHS BY YEAR FOR PERIOD 1959-1996



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
TOTAL	2	2	23	49	120	338	478	385	197	31	7	84	1716
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 1959-1996

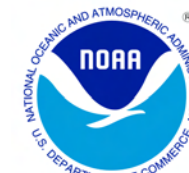


YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1959	0	0	0	1	14	31	40	26	18	3	1	0	134
1960	0	0	0	2	0	29	11	27	13	6	3	0	91
1961	0	0	5	1	8	40	48	35	26	1	1	1	166
1962	0	0	0	1	8	13	48	20	5	5	0	0	100
1963	0	0	0	1	6	54	22	27	18	1	0	0	129
1964	0	0	7	3	2	11	31	33	7	0	1	0	95
1965	1	2	0	0	8	28	29	31	14	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
TOTAL	10	15	76	130	393	986	1619	1316	625	127	45	10	5352
MEAN	0	0	2	3	10	26	43	35	16	3	1	0	141



LIGHTNING DEATHS BY STATE, RANK, AND LOCATION OF OCCURRENCE

1959-1996



1996

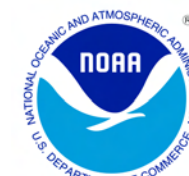
STATE	RANK	OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS HEAVY ROAD EQUIPMENT		GOLF COURSES		AT TELEPHONES		VARIOUS OTHER AND UNKNOWN LOCATIONS		OPEN FIELDS, BALL PARKS AND OPEN SPACES		UNDER TREES		BOATING, FISHING AND WATER RELATED		NEAR TRACTORS 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	22	7	21	11	33	6	18	0	0	0	0	0	0	9	27	1	100	0	0	0	0	0	0	0	0	0	0	0	0
ALASKA	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	0
ARIZONA	26	12	46	2	8	1	4	0	0	3	12	2	8	6	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARKANSAS	9	18	32	10	18	2	4	3	5	2	4	0	0	21	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CALIFORNIA	37	1	9	3	27	1	9	2	18	0	0	0	0	4	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COLORADO	11	24	44	11	20	2	4	0	0	5	9	0	0	12	22	2	67	0	0	0	0	0	0	0	0	0	0	1	33
CONNECTICUT	43	2	33	0	0	0	0	0	0	1	17	0	0	3	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DELAWARE	39	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	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	0
FLORIDA	1	53	27	26	13	47	24	15	8	7	4	0	0	48	24	4	40	3	30	0	0	2	20	0	0	0	0	1	10
GEORGIA	18	16	37	8	19	7	16	0	0	2	5	1	2	9	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HAWAII	51	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	0
IDAHO	41	1	14	1	14	1	14	3	43	1	14	0	0	0	0	0	0	0	0	0	1	100	0	0	0	0	0	0	0
ILLINOIS	17	12	27	10	23	2	5	3	7	3	7	1	2	13	30	2	100	0	0	0	0	0	0	0	0	0	0	0	0
INDIANA	20	8	21	15	39	1	3	3	8	0	0	0	0	11	29	1	100	0	0	0	0	0	0	0	0	0	0	0	0
IOWA	23	6	19	1	3	1	3	5	16	1	3	0	0	18	56	0	0	0	0	1	100	0	0	0	0	0	0	0	0
KANSAS	27	9	38	0	0	4	17	3	13	0	0	0	0	8	33	2	100	0	0	0	0	0	0	0	0	0	0	0	0
KENTUCKY	19	9	22	4	10	2	5	2	5	2	5	1	2	21	51	1	100	0	0	0	0	0	0	0	0	0	0	0	0
LOUISIANA	8	4	6	22	35	14	23	6	10	0	0	0	0	16	26	0	0	2	67	0	0	0	0	0	0	0	1	33	
MAINE	36	0	0	0	0	5	45	0	0	0	0	0	0	6	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MARYLAND	2	5	5	2	2	10	10	1	1	0	0	0	0	82	82	0	0	0	0	0	0	1	100	0	0	0	0	0	0
MASSACHUSETTS	35	2	18	1	9	0	0	0	0	1	9	1	9	6	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MICHIGAN	10	13	24	15	28	7	13	1	2	6	11	2	4	10	19	0	0	1	100	0	0	0	0	0	0	0	0	0	0
MINNESOTA	24	12	40	6	20	3	10	3	10	2	7	1	3	3	10	2	100	0	0	0	0	0	0	0	0	0	0	0	0
MISSISSIPPI	15	15	33	11	24	5	11	4	9	0	0	0	0	11	24	0	0	0	0	0	0	0	0	0	0	0	1	100	
MISSOURI	16	9	20	9	20	8	18	2	5	2	5	1	2	13	30	0	0	1	100	0	0	0	0	0	0	0	0	0	0
MONTANA	38	4	44	1	11	0	0	3	33	0	0	0	0	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEBRASKA	28	9	41	2	9	2	9	5	23	0	0	0	0	4	18	0	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	0
NEW HAMPSHIRE	50	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	0
NEW JERSEY	29	8	38	3	14	3	14	0	0	2	10	0	0	5	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW MEXICO	14	24	50	5	10	3	6	0	0	0	0	2	4	14	29	1	33	0	0	0	0	0	0	0	0	2	67	0	0
NEW YORK	5	10	14	16	22	9	12	3	4	4	5	0	0	31	42	0	0	0	0	0	0	1	100	0	0	0	0	0	0
NORTH CAROLINA	6	10	15	10	15	7	10	4	6	2	3	0	0	34	51	1	100	0	0	0	0	0	0	0	0	0	0	0	0
NORTH DAKOTA	42	2	33	0	0	0	0	2	33	0	0	0	0	2	33	0	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

1959-1996 1996



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	7	17	27	7	11	8	13	6	9	6	9	1	2	19	30	0	0	0	0	0	0	0	0	1	33	0	0	2	67
OKLAHOMA	13	18	37	3	6	13	27	4	8	0	0	2	4	9	18	0	0	0	0	0	0	0	0	0	0	0	1	100	
OREGON	49	0	0	1	50	0	0	0	0	0	0	0	0	1	50	0	0	0	0	0	0	0	0	0	0	0	0	0	
PENNSYLVANIA	12	20	38	4	8	1	2	1	2	3	6	0	0	24	45	0	0	0	0	0	0	0	0	0	0	0	0	0	
PUERTO RICO	40	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	
RHODE ISLAND	48	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	
SOUTH CAROLINA	21	6	17	9	25	6	17	6	17	1	3	1	3	7	19	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOUTH DAKOTA	34	2	17	1	8	2	17	5	42	1	8	0	0	1	8	0	0	0	0	0	0	0	0	0	0	0	0	0	
TENNESSEE	4	18	24	21	28	4	5	4	5	5	7	1	1	23	30	0	0	0	0	0	1	100	0	0	0	0	0	0	
TEXAS	3	27	33	15	18	12	15	9	11	3	4	0	0	16	20	1	17	1	17	2	33	0	1	17	0	0	1	17	
UTAH	31	7	41	6	35	0	0	1	6	0	0	0	0	3	18	1	100	0	0	0	0	0	0	0	0	0	0	0	
VERMONT	45	1	25	1	25	0	0	0	0	0	0	0	0	2	50	1	100	0	0	0	0	0	0	0	0	0	0	0	
VIRGINIA	30	6	33	3	17	0	0	1	6	1	6	0	0	7	39	1	100	0	0	0	0	0	0	0	0	0	0	0	
WASHINGTON	44	2	50	1	25	0	0	1	25	0	0	0	0	0	0	1	50	1	50	0	0	0	0	0	0	0	0	0	
WEST VIRGINIA	32	4	25	6	38	1	6	1	6	0	0	0	0	4	25	0	0	0	0	0	0	0	0	0	0	0	0	0	
WISCONSIN	25	8	31	1	4	6	23	2	8	2	8	0	0	7	27	0	0	0	0	0	0	0	0	0	0	0	0	0	
WYOMING	33	9	64	0	0	2	14	0	0	0	0	0	0	3	21	0	0	0	0	0	0	0	0	0	0	0	0	0	
UNITED STATES	0	458	27	288	17	212	12	114	7	70	4	17	1	557	32	22	42	9	17	3	6	6	12	2	4	2	4	8	15



LIGHTNING INJURIES BY STATE, RANK, AND LOCATION OF OCCURRENCE

1959-1996



1996

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	2	67	23	64	22	9	3	3	1	33	11	11	4	110	37	0	0	0	0	2	10	0	0	3	15	0	0	15	75	
OKLAHOMA	13	56	39	7	5	7	5	4	3	0	0	11	8	60	41	0	0	0	0	0	0	0	0	0	0	0	2	100		
OREGON	45	3	30	0	0	0	0	0	0	0	0	1	10	6	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PENNSYLVANIA	5	116	42	19	7	2	1	4	1	0	0	5	2	132	47	6	46	0	0	0	0	3	23	0	0	0	0	4	31	
PUERTO RICO	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	0	
RHODE ISLAND	42	3	18	6	35	0	0	0	0	0	0	0	0	8	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH CAROLINA	18	28	26	14	13	6	6	1	1	3	3	3	3	53	49	0	0	0	0	0	0	0	0	0	0	1	20	4	80	
SOUTH DAKOTA	39	10	31	2	6	2	6	5	16	0	0	1	3	12	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TENNESSEE	9	63	35	52	29	4	2	0	0	2	1	6	3	52	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TEXAS	11	60	37	24	15	7	4	7	4	3	2	3	2	58	36	0	0	0	0	2	29	0	0	0	0	0	5	71		
UTAH	31	11	22	14	29	2	4	1	2	1	2	2	4	18	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VERMONT	46	3	33	1	11	0	0	0	0	0	0	0	0	5	56	0	0	0	0	0	0	0	0	0	0	0	0	1	100	
VIRGINIA	17	11	10	11	10	6	5	1	1	6	5	2	2	74	67	1	14	3	43	0	0	0	0	0	0	0	3	43		
WASHINGTON	41	13	65	2	10	0	0	0	0	0	0	1	5	4	20	0	0	0	0	0	0	0	0	0	0	1	100	0	0	
WEST VIRGINIA	25	24	29	7	9	3	4	1	1	2	2	0	0	45	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WISCONSIN	14	50	42	3	3	5	4	3	3	6	5	4	3	47	40	8	53	0	0	2	13	0	0	0	0	0	0	5	33	
WYOMING	36	18	47	0	0	5	13	1	3	3	8	0	0	11	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNITED STATES	0	1514	28	763	14	287	5	192	4	190	4	170	3	236	42	66	21	47	15	23	7	11	4	4	1	5	2	153	50	

National Summary of Tornadoes, 1996

Stuart Hinson and William Angel

National Oceanic and Atmospheric Administration

National Environmental, Satellite, Data and Information Service

National Climatic Data Center, Asheville, NC

There were 1174 tornadoes reported in 1996. This was 45.3% above the national average of 808. The national average figure is computed over a 46 year period from 1950 – 1996. There has been a steady increase in the number of confirmed tornadoes due to recent advances in technology and meteorological instrumentation. Tornadoes were the direct cause of 25 fatalities and 686 injuries. Alabama and Arkansas accounted for 18 of the 25 fatalities (72%). Alabama had 7 (28%) and Arkansas had 11 (44%).

TABLE I LOCATION OF KILLER TORNADES

Date	Begin Time	Zone	State	County Name	Length (miles)	Width (yards)	F-Scale	Injured	Deaths
01/26/96	5:27 PM	CST	AL	Mobile	2.0	500	1	3	1
02/02/96	6:15 PM	EST	FL	Putnam	6.5	10	0	0	1
03/06/96	3:42 AM	CST	AL	Dallas	19.0	400	3	40	4
03/06/96	5:20 AM	CST	AL	Montgomery	4.0	200	2	17	2
04/14/96	6:10 PM	CST	AR	Stone	16.0	880	4	5	5
04/14/96	6:39 PM	CST	AR	Izard	28.0	880	4	30	2
04/19/96	7:55 PM	CST	IL	Champaign	2.0	1500	3	13	1
04/21/96	10:12 PM	CST	AR	Sebastian	4.0	1050	2	40	2
04/21/96	11:15 PM	CST	AR	Madison	15.0	1050	3	6	2
05/12/96	9:10 PM	EST	FL	Okeechobee	0.1	20	0	0	1
07/18/96	6:07 PM	CST	WI	Fond du Lac	4.4	200	2	1	1
11/08/96	5:35 AM	EST	GA	Dodge	4.0	50	2	6	1
11/30/96	2:14 PM	CST	LA	Lincoln	10.0	250	2	9	1
12/07/96	2:58 PM	EST	FL	Hillsborough	2.0	83	2	0	1

TABLE II NEW MONTHLY RECORDS (SINCE 1953)

Month	State	Record # of Tornadoes	Previous Record (Year)
April	Illinois	40	21 (1974)
April	North Carolina	24	11 (1974)
May	Kentucky	11	8 (1989)
May	Utah	3	2 (1993)
June	Virginia	8	4 (1975)
July	Maryland	12	6 (1975)
July	North Carolina	6	4 (1977)
July	Pennsylvania	12	10 (1976)
July	Puerto Rico	1	
July	Virginia	12	5 (1994)
August	Colorado	17	6 (1992)
September	Arkansas	8	2 (1973)
September	North Carolina	8	3 (1963)
September	North Dakota	4	2 (1956)
September	South Carolina	9	5 (1963)
September	Tennessee	3	1 (1970)
October	Florida	19	18 (1995)
October	Minnesota	13	2 (1973)
October	South Dakota	10	3 (1971)
November	Arizona	4	1 (1968)
November	Pennsylvania	8	5 (1989)

TABLE III NEW ANNUAL RECORDS (SINCE 1953)

State	Record # of Tornadoes	Previous Record (Year)
California	22	20 (1992)
Colorado	98	81 (1992)
North Carolina	53	38 (1973)

TABLE IV STATE-TO-STATE BORDER CROSSINGS

Date	Time	State		State
04/21/96	10:12 PM CST	Oklahoma	into	Arkansas
05/17/96	5:06 PM CST	South Dakota	into	Minnesota
07/19/96	2:24 PM EST	Maryland	into	Virginia
07/19/96	2:50 PM EST	Maryland	into	Virginia

More detailed information about tornado activity can be obtained from the monthly Storm Data publications. The annual tornado statistics from 1950 – 1996 have been compiled by the Storm Prediction Center (SPC), formerly know as the National Severe Storms Forecast Center (NSSFC), and the National Climatic Data Center (NCDC). The statistics in raw format are available in various media types. For more information regarding raw data, please contact the National Climatic Data Center at (704) 271-4800.

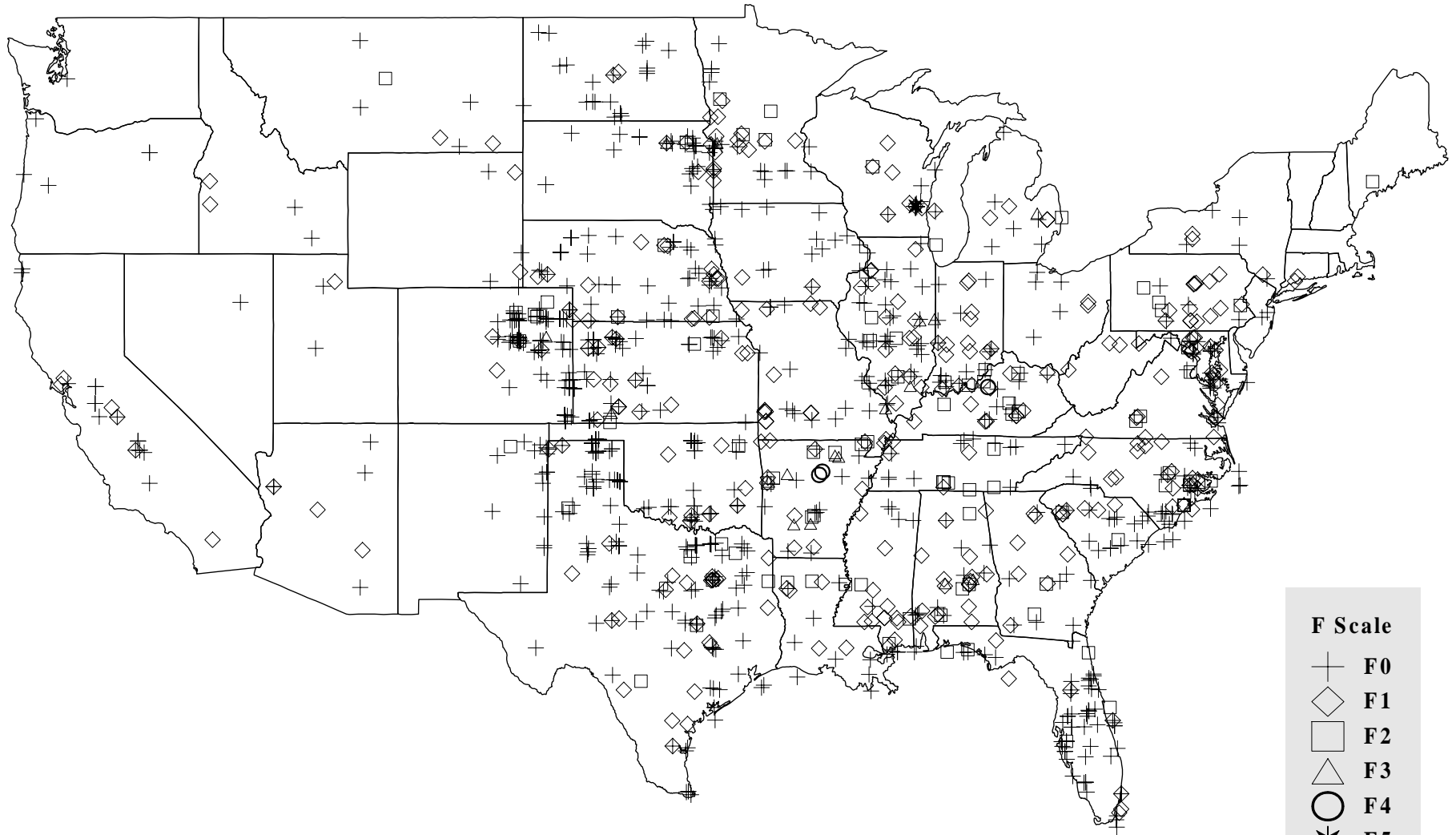
Definition of the Fujita Tornado Scale *

- (F0) Gale Tornado (40 - 72 mph): Light Damage
Some damage to chimneys; break branches off trees; push over shallow-rooted trees; damage sign boards.
- (F1) Moderate Tornado (73 – 112 mph): Moderate Damage
The lower limit (73 mph) is the beginning of hurricane wind speed; peel surface off roofs; mobile homes pushed off foundations or overturned; moving auto pushed off the road.
- (F2) Significant Tornado (112 – 157 mph): Considerable Damage
Roofs torn off frame houses; mobile home demolished; boxcars pushed over; large trees snapped or uprooted; light-objects missiles are generated.
- (F3) Severe Tornado (158 – 206 mph): Severe Damage
Roof and some walls are torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars are lifted off ground and thrown.
- (F4) Devastating Tornado (207 – 260 mph): Devastating Damage
Well-constructed houses are leveled; structures with weak foundations are blown off some distance; cars thrown and large missiles generated.
- (F5) Incredible Tornado (261 – 318 mph): Incredible Damage
Strong frame houses are lifted off foundations and carried a considerable distance to disintegrate; automobile-sized missiles fly through the air in excess of 100 meters; trees debarked. Incredible phenomenon will occur.
- (F6 +) (319 – Mach 1, the speed of sound) The maximum wind speed of tornadoes is not expected to reach the F6 wind speeds.

- F0 – F1 Weak Tornado
- F2 – F3 Strong Tornado
- F4 – F5 Violent Tornado

* *From J. Atmos. Sci., August 1981, p.1517 – 1519*

1996 Confirmed Tornadoes



F Scale	F0	F1	F2	F3	F4	F5	Total
Number	745	314	93	18	3	1	1174



TORNADO SUMMARY BY STATE AND NATION, 1996

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
ALABAMA													
NUMBER	2	1	20	2	0	0	0	0	4	0	3	1	33
DAYS	2	1	3	2	0	0	0	0	2	0	2	1	13
DEATHS	1	0	6	0	0	0	0	0	0	0	0	0	7
INJURIES	3	0	82	0	0	0	0	0	0	0	2	0	87
ARIZONA													
NUMBER	0	0	0	0	2	0	1	1	1	0	4	0	9
DAYS	0	0	0	0	1	0	1	1	1	0	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	0	0	0	0
ARKANSAS													
NUMBER	4	0	6	6	4	0	1	0	8	0	0	0	29
DAYS	1	0	4	3	2	0	1	0	2	0	0	0	13
DEATHS	0	0	0	11	0	0	0	0	0	0	0	0	11
INJURIES	3	0	2	138	0	0	0	0	15	0	0	0	158
CALIFORNIA													
NUMBER	2	1	2	8	0	0	0	0	0	1	4	4	22
DAYS	1	1	1	2	0	0	0	0	0	1	1	3	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	1	1
COLORADO													
NUMBER	0	0	0	0	22	7	48	17	4	0	0	0	98
DAYS	0	0	0	0	3	5	9	7	2	0	0	0	26
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
CONNECTICUT													
NUMBER	0	0	0	0	0	0	2	0	0	0	0	0	2
DAYS	0	0	0	0	0	0	2	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
FLORIDA													
NUMBER	3	4	9	3	3	4	5	7	4	19	2	3	66
DAYS	2	1	4	1	3	4	5	5	4	2	2	2	35
DEATHS	0	1	0	0	1	0	0	0	0	0	0	1	3
INJURIES	9	0	18	0	0	0	2	0	0	1	7	0	37
GEORGIA													
NUMBER	0	1	8	0	0	1	0	0	1	0	7	0	18
DAYS	0	1	2	0	0	1	0	0	1	0	3	0	8
DEATHS	0	0	0	0	0	0	0	0	0	0	1	0	1
INJURIES	0	0	6	0	0	0	0	0	0	0	18	0	24
IDAHO													
NUMBER	0	0	0	0	2	1	1	0	0	0	0	0	4
DAYS	0	0	0	0	1	1	1	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
ILLINOIS													
NUMBER	0	1	0	40	11	4	2	2	0	1	0	1	62
DAYS	0	1	0	2	7	2	2	1	0	1	0	1	17
DEATHS	0	0	0	1	0	0	0	0	0	0	0	0	1
INJURIES	0	0	0	83	0	0	0	0	0	1	0	0	84
INDIANA													
NUMBER	1	0	0	13	12	2	2	0	0	0	0	0	30
DAYS	1	0	0	2	4	2	2	0	0	0	0	0	11
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	6	0	0	0	0	0	0	0	0	6
IOWA													
NUMBER	0	0	1	2	9	4	4	2	0	0	0	0	22
DAYS	0	0	1	1	4	2	4	2	0	0	0	0	14
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	2	0	0	0	0	0	0	0	2
KANSAS													
NUMBER	0	0	2	0	30	11	20	4	1	0	0	0	68
DAYS	0	0	1	0	6	5	7	3	1	0	0	0	23
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
KENTUCKY													
NUMBER	1	0	0	9	11	1	0	0	0	0	3	0	25
DAYS	1	0	0	1	3	1	0	0	0	0	1	0	7
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	2	0	0	21	30	0	0	0	0	0	5	0	58

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



TORNADO SUMMARY BY STATE AND NATION, 1996

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
LOUISIANA													
NUMBER	2	0	1	5	1	0	0	1	0	0	7	1	18
DAYS	2	0	1	4	1	0	0	1	0	0	3	1	13
DEATHS	0	0	0	0	0	0	0	0	0	0	2	0	2
INJURIES	33	0	0	1	0	0	0	0	0	0	9	0	43
MAINE													
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
MARYLAND													
NUMBER	0	0	0	0	0	3	13	2	1	0	2	0	21
DAYS	0	0	0	0	0	2	3	2	1	0	2	0	10
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	3	0	0	0	1	0	4
MICHIGAN													
NUMBER	1	0	0	1	0	8	1	2	0	0	0	0	13
DAYS	1	0	0	1	0	4	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
MINNESOTA													
NUMBER	0	0	0	0	6	5	6	0	1	16	0	0	34
DAYS	0	0	0	0	4	2	5	0	1	2	0	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	11	0	0	11
MISSISSIPPI													
NUMBER	3	5	9	5	0	0	0	0	2	0	3	0	27
DAYS	1	1	2	5	0	0	0	0	2	0	2	0	13
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	1	14	5	0	0	0	0	0	3	0	2	0	25
MISSOURI													
NUMBER	2	0	2	9	10	1	2	0	1	0	0	2	29
DAYS	1	0	1	4	5	1	2	0	1	0	0	1	16
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	1	0	0	12	1	0	0	0	0	0	0	0	14
MONTANA													
NUMBER	0	0	0	0	1	6	1	0	0	0	0	0	8
DAYS	0	0	0	0	1	6	1	0	0	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
NEBRASKA													
NUMBER	0	0	0	0	12	22	15	7	1	3	0	0	60
DAYS	0	0	0	0	4	5	5	3	1	1	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	4	0	0	19
NEVADA													
NUMBER	0	0	0	0	1	0	0	0	0	0	0	0	1
DAYS	0	0	0	0	1	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
NEW JERSEY													
NUMBER	0	0	0	0	0	1	0	0	1	0	0	0	2
DAYS	0	0	0	0	0	1	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	0	0	0	0	0
NEW MEXICO													
NUMBER	0	0	0	0	3	6	5	1	1	0	0	0	16
DAYS	0	0	0	0	2	3	4	1	1	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	5	0	0	0	0	0	5
NEW YORK													
NUMBER	0	0	0	1	0	1	3	1	1	0	1	0	8
DAYS	0	0	0	1	0	1	2	1	1	0	1	0	7
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	3	0	2	0	0	0	5
NORTH CAROLINA													
NUMBER	1	0	0	24	4	0	6	1	9	7	1	1	54
DAYS	1	0	0	4	3	0	3	1	3	1	1	1	18
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	36	0	0	0	0	3	1	0	0	40

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



TORNADO SUMMARY BY STATE AND NATION, 1996

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
NORTH DAKOTA													
NUMBER	0	0	0	0	5	6	8	2	4	0	0	0	25
DAYS	0	0	0	0	2	4	4	2	1	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
OHIO													
NUMBER	0	0	0	1	6	1	1	1	0	0	0	0	10
DAYS	0	0	0	1	3	1	1	1	0	0	0	0	7
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	2	0	0	0	0	0	0	0	2
OKLAHOMA													
NUMBER	0	0	1	18	9	7	0	6	7	0	1	0	49
DAYS	0	0	1	1	4	4	0	5	2	0	1	0	18
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	9	1	0	0	0	0	0	0	0	10
OREGON													
NUMBER	0	0	0	0	1	0	0	0	1	1	0	1	4
DAYS	0	0	0	0	1	0	0	0	1	1	0	1	4
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	0	1
PENNSYLVANIA													
NUMBER	0	0	0	0	2	2	11	0	2	0	8	0	25
DAYS	0	0	0	0	1	2	3	0	2	0	1	0	9
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	0	3	0	0	0	2	0	5
PUERTO RICO													
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
SOUTH CAROLINA													
NUMBER	2	0	4	1	4	0	3	0	9	1	0	0	24
DAYS	1	0	2	1	2	0	2	0	1	1	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	2	0	0	0	2
SOUTH DAKOTA													
NUMBER	0	0	0	0	23	0	8	4	0	10	0	0	45
DAYS	0	0	0	0	4	0	2	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	1	0	0	0	0	0	0	0	1
TENNESSEE													
NUMBER	1	0	3	4	1	1	0	0	2	0	5	0	17
DAYS	1	0	1	1	1	1	0	0	2	0	1	0	8
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	2	12	0	0	0	0	0	0	1	0	15
TEXAS													
NUMBER	9	1	2	24	36	8	3	8	34	8	4	1	138
DAYS	1	1	1	7	8	5	3	5	10	1	3	1	46
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	6	1	0	0	0	0	3	0	2	8	2	0	22
UTAH													
NUMBER	0	0	0	0	3	0	0	0	0	0	0	0	3
DAYS	0	0	0	0	2	0	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	1	0	0	0	0	0	0	0	1
VIRGINIA													
NUMBER	1	0	1	1	0	8	12	0	1	1	0	0	25
DAYS	1	0	1	1	0	3	4	0	1	1	0	0	12
DEATHS	0	0	0	0	0	0	0	0	0	0	0	0	0
INJURIES	0	0	0	0	0	1	9	0	0	0	0	0	10
WASHINGTON													
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
WEST VIRGINIA													
NUMBER	0	0	0	0	0	0	3	0	0	0	0	0	3
DAYS	0	0	0	0	0	0	2	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

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



TORNADO SUMMARY BY STATE AND NATION, 1996

LOCATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
WISCONSIN													
NUMBER	0	0	0	1	0	4	13	3	0	0	0	0	21
DAYS	0	0	0	1	0	3	2	1	0	0	0	0	7
DEATHS	0	0	0	0	0	0	1	0	0	0	0	0	1
INJURIES	0	0	0	0	0	0	13	0	0	0	0	0	13
WYOMING													
NUMBER	0	0	0	0	2	2	2	0	0	0	0	0	6
DAYS	0	0	0	0	2	1	2	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	0	0	0	0	0	0	0	0	0
UNITED STATES													
NUMBER	35	14	71	178*	236*	128	204*	72	101	68	55	15	1173*
DAYS	10	5	10	16	29	27	28	24	20	10	8	7	194
DEATHS	1	1	6	12	1	0	1	0	0	0	3	1	26
INJURIES	58	15	115	318	53	1	41	0	28	26	49	1	705

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



NATIONS SUMMARY OF TORNADOS, TORNADO DAYS AND DEATHS BY MONTH AND ANNUAL, 1953-1996



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
POR	647	211	103	895	250	214	2351	531	364	4818	764	1216	18	64	216	7401	1165	501	4253	1119	51	2666	928	110	1786	631	66	1194	358	81	1355	290	149	781	219	119	35917	7571	3811
MEAN	15	5	2	20	6	5	53	12	8	110	17	28	178	25	19	168	26	11	97	25	1	61	21	3	41	14	2	27	8	2	31	7	3	18	5	3	816	172	87



TORNADOES, TORNADO DAYS AND DEATHS BY STATE AND NATION 1953-1996



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	971	22	45	1983+	5	1956	4.26	493	11	287	7	56
ALASKA	1	0	1	1959	0	1989+	.00	1	0	0	0	0
ARIZONA	176	4	17	1972	0	1965	.36	136	3	3	0	0
ARKANSAS	899	20	78	1982	2	1987+	3.77	414	9	189	4	36
CALIFORNIA	262	6	22	1996+	0	1968+	.38	178	4	0	0	0
COLORADO	1344	31	98	1996+	1	1959	2.97	649	15	2	0	0
CONNECTICUT	62	1	8	1973	0	1988+	2.00	55	1	4	0	8
DELAWARE	54	1	6	1992	0	1987+	4.86	43	1	2	0	10
DISTRICT OF COLUMBIA	1	0	1	1995	0		0	.0	1	0	0	0
FLORIDA	2211	50	97	1975	10	1956	8.54	1364	31	89	2	15
GEORGIA	928	21	52	1994	2	1987	3.57	483	11	109	2	19
HAWAII	27	1	4	1971	0	1987+	1.55	23	1	0	0	0
IDAHO	131	3	11	1991+	0	1977+	.36	105	2	0	0	0
ILLINOIS	1318	30	107	1974	4	1953	5.32	564	13	179	4	32
INDIANA	951	22	49	1990	4	1984	6.06	431	10	221	5	61
IOWA	1444	33	71	1990	7	1956	5.87	625	14	60	1	11
KANSAS	2191	50	116	1991	14	1976	6.08	891	20	190	4	23
KENTUCKY	446	10	34	1974	0	1953	2.48	226	5	104	2	26
LOUISIANA	1135	26	79	1992	3	1955	5.36	636	14	105	2	22
MAINE	84	2	11	1971	0	1987+	.60	74	2	1	0	0
MARYLAND	206	5	24	1995	0	1988+	4.73	119	3	2	0	2
MASSACHUSETTS	131	3	12	1958	0	1988+	3.63	93	2	102	2	124
MICHIGAN	740	17	39	1974	2	1959	2.92	417	9	236	5	41
MINNESOTA	919	21	47	1993	5	1988+	2.50	468	11	81	2	10
MISSISSIPPI	1104	25	62	1988	1	1979	5.24	526	12	369	8	77
MISSOURI	1237	28	79	1973	6	1979+	4.02	545	12	137	3	20
MONTANA	265	6	30	1991	0	1974+	.41	185	4	1	0	0
NEBRASKA	1795	41	88	1990	10	1966	5.31	778	18	51	1	7
NEVADA	51	1	8	1987	0	1985+	.09	46	1	0	0	0
NEW HAMPSHIRE	72	2	9	1963	0	1987+	2.15	63	1	0	0	0
NEW JERSEY	118	3	17	1989	0	1984+	3.83	89	2	0	0	0
NEW MEXICO	427	10	31	1991	0	1953	.82	306	7	3	0	0
NEW YORK	270	6	25	1992	0	1953	1.21	185	4	21	0	4
NORTH CAROLINA	706	16	54	1996	2	1970	3.04	386	9	82	2	16
NORTH DAKOTA	848	19	52	1976	2	1961	2.69	448	10	21	0	3
OHIO	668	15	61	1992	0	1988	3.64	337	8	171	4	41
OKLAHOMA	2388	54	107	1957	17	1988	7.72	933	21	213	5	30
OREGON	55	1	5	1991	0	1988+	.10	49	1	0	0	0
PENNSYLVANIA	492	11	33	1985+	0	1959	2.43	287	7	77	2	17
PUERTO RICO	11	0	2	1979	0	1989+	.00	10	0	0	0	0
RHODE ISLAND	8	0	3	1986	0	1988+	.00	7	0	0	0	0
SOUTH CAROLINA	521	12	54	1995	1	1986+	3.86	295	7	45	1	14
SOUTH DAKOTA	1232	28	85	1993	1	1958	3.63	537	12	8	0	1
TENNESSEE	546	12	44	1974	1	1987+	2.84	278	6	97	2	23
TEXAS	5950	135	232	1967+	32	1953	5.05	2149	49	458	10	17
UTAH	83	2	6	1984+	0	1989+	.24	71	2	0	0	0
VERMONT	32	1	5	1962	0	1985+	1.04	29	1	0	0	0
VIRGINIA	331	8	28	1993	1	1982+	1.96	198	5	23	1	6
VIRGIN ISLANDS	2	0	1	1979+	0	1989+	.00	2	0	0	0	0
WASHINGTON	57	1	4	1989+	0	1988+	.15	49	1	6	0	1
WEST VIRGINIA	87	2	6	1980+	0	1988+	.83	67	2	2	0	1
WISCONSIN	880	20	43	1980	3	1953	3.63	436	10	83	2	15
WYOMING	451	10	42	1977	0	1970	1.02	295	7	2	0	0
PACIFIC ISLANDS	2	0	1	1981+	0	1989+	.00	2	0	0	0	0
UNITED STATES	37087*	843	1298	1992	421	1953	2.34	7767&	177	3836	87	11

+ 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 - 1996



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 - 1996



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
MEAN	816	172	87	-	-	137	43	9

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.

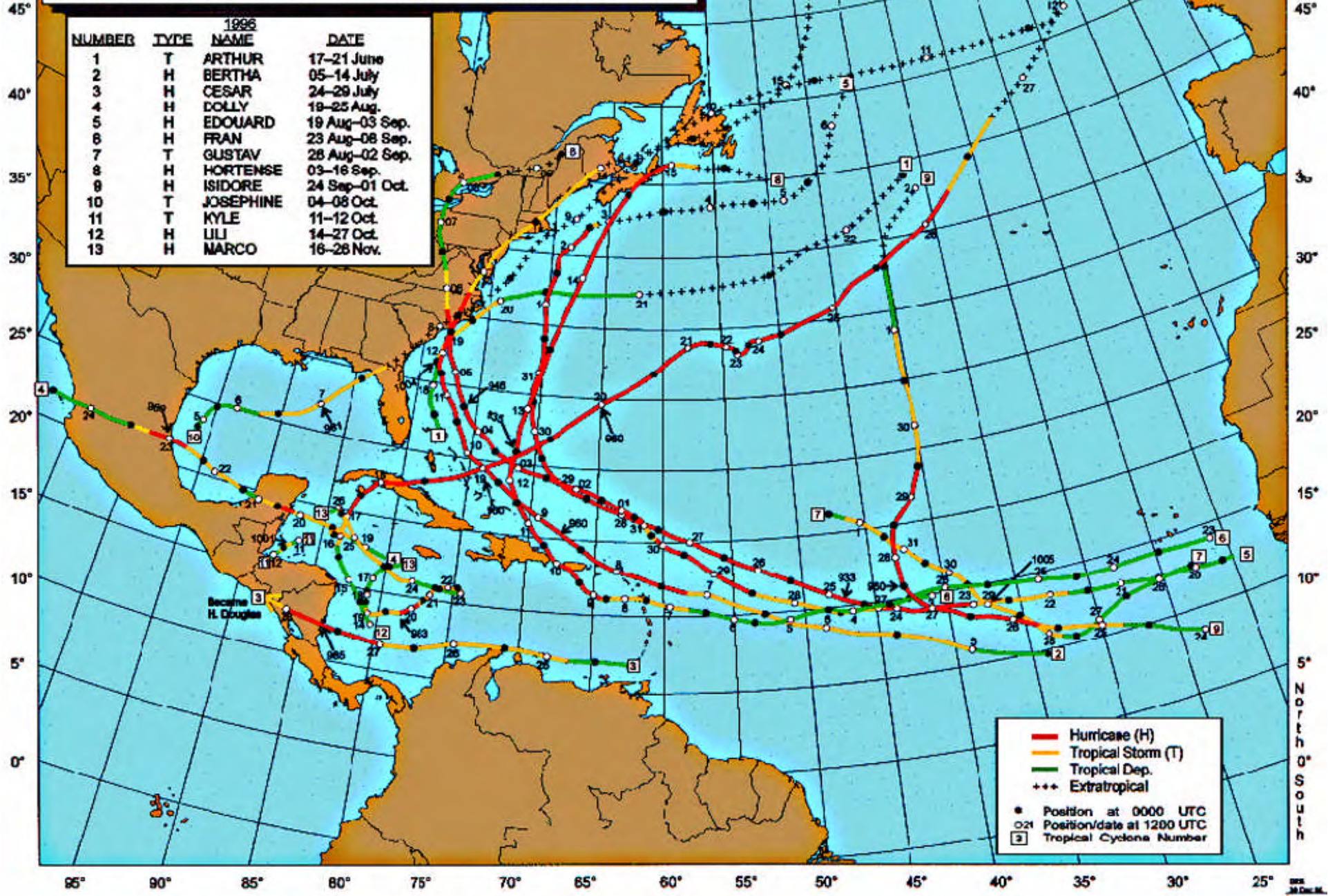
Annual Hurricane & Tropical Storm Summary - 1996

Name	Type	Dates	Max. Winds	Min. Pressure	Areas Affected	Fatalities		Injured	Damage
						US	Other	US	
Arthur	Tropical Storm	6/17-6/21	45 knots (52 mph)	992 mb (29.29 inches Hg)	NC Coast	0	0	0	2 M
Bertha	Hurricane Category 3	7/5-7/14	100 knots (115 mph)	960 mb (28.35 inches Hg)	N. SC Coast NC Coast Mid-Atlantic States	5	2	13	270 M
Cesar	Hurricane Category 1	7/24-7/29	70 knots (81 mph)	990 mb (29.23 inches Hg)	Costa Rica Caribbean Nicaragua	0	51	N/A	N/A
Dolly	Hurricane Category 1	8/19-8/25	70 knots (81 mph)	989 mb (29.21 inches Hg)	Yucatan Peninsula NE Mexico	0	14	N/A	N/A
Edouard	Hurricane Category 4	8/19-9/3	125 knots (144 mph)	933 mb (27.55 inches Hg)	NE United States	0	0	2	N/A
Fran	Hurricane Category 3	8/23-9/8	105 knots (121 mph)	946 mb (27.94 inches Hg)	N. SC Coast NC Coast Mid-Atlantic States	14	6	19	3.2 B
Gustav	Tropical Storm	8/26-9/2	40 knots (46 mph)	1005 mb (29.68 inches Hg)	Atlantic Ocean	0	0	0	0
Hortense	Hurricane Category 4	9/3-9/16	120 knots (138 mph)	935 mb (27.61 inches Hg)	Puerto Rico Caribbean Canada	18	3	N/A	250 M
Isidore	Hurricane Category 3	9/24-10/1	100 knots (115 mph)	960 mb (28.35 inches Hg)	Atlantic Ocean	0	0	0	0
Josephine	Tropical Storm	10/4-10/8	60 knots (69 mph)	981 mb (28.97 inches Hg)	SE United States Mid-Atlantic States	0	0	1	130 M
Kyle	Tropical Storm	10/11-10/12	45 knots (52 mph)	1001 mb (29.56 inches Hg)	Guatemala Honduras	0	0	0	0
Lili	Hurricane Category 3	10/14-10/27	100 knots (115 mph)	960 mb (28.35 inches Hg)	Cuba N Caribbean	0	14	N/A	N/A
Marco	Hurricane Category 1	11/16-11/24	65 knots (75 mph)	983 mb (29.03 inches Hg)	N. Caribbean	0	8	N/A	N/A
Totals						37	98	32	3.852 B

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°

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1996			
NUMBER	TYPE	NAME	DATE
1	T	ARTHUR	17-21 June
2	H	BERTHA	05-14 July
3	H	CESAR	24-29 July
4	H	DOLLY	19-25 Aug.
5	H	EDOUARD	19 Aug-03 Sep.
6	H	FRAN	23 Aug-08 Sep.
7	T	GUSTAV	26 Aug-02 Sep.
8	H	HORTENSE	03-16 Sep.
9	H	ISIDORE	24 Sep-01 Oct.
10	T	JOSEPHINE	04-08 Oct.
11	T	KYLE	11-12 Oct.
12	H	LILI	14-27 Oct.
13	H	MARCO	16-28 Nov.



— Hurricane (H)
— Tropical Storm (T)
— Tropical Dep.
 +++ Extratropical
 • Position at 0000 UTC
 ○ Position/date at 1200 UTC
3 Tropical Cyclone Number

95° 90° 85° 80° 75° 70° 65° 60° 55° 50° 45° 40° 35° 30° 25°

North
0°
South

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