

STATE OF MARYLAND TORNADO ARCHIVE

Period of Record: 1950-Present

Year of Occurrence	Date	Beginning Time of Day (Local Time)	State Tornado Number of Year	F/EF-Scale (EF as of Jan. 2007)	Injuries	Fatalities	Estimated Property Damage (see Note)	Estimated Crop Loss (in Millions of Dollars - began 2007)	Starting Latitude	Starting Longitude	Ending Latitude	Ending Longitude	Path Length in Miles	Width in Yards	Number of States Affected	Total Tornadoes by Year	Maryland Counties Affected
1950	8/11/1950	19:00	1	1	0	0	3		39.33	-75.87	0.00	0.00	6.00	33	1	1	KENT
1951			0													0	
1952	4/5/1952	13:00	1	1	0	0	4		39.45	-77.55	0.00	0.00	1.00	50	1		FREDERICK
1952	4/5/1952	15:00	2	1	1	0	4		39.63	-77.42	0.00	0.00	1.00	50	1		FREDERICK
1952	4/5/1952	16:00	3	0	0	0	2		39.12	-75.75	0.00	0.00	0.30	33	1		CAROLINE
1952	8/31/1952	0:00	4	1	0	0	4		39.02	-77.22	39.03	-77.23	0.10	70	1	4	MONTGOMERY
1953	5/26/1953	16:30	1	1	0	0	3		38.77	-76.90	0.00	0.00	1.00	200	1		PRINCE GEORGE'S
1953	7/2/1953	22:00	2	1	0	0	2		38.97	-76.50	0.00	0.00	1.00	200	1	2	ANNE ARUNDEL
1954	5/3/1954	19:00	1	0	0	0	0		39.32	-77.63	39.33	-77.62	0.50	150	2		FREDERICK
1954	7/15/1954	0:00	2	1	8	0	4		39.30	-79.47	39.43	-79.32	12.00	880	1	2	GARRETT
1955			0													0	
1956			0													0	
1957			0													0	
1958	5/4/1958	19:00	1	1	0	0	4		38.20	-75.42	0.00	0.00	1.30	50	1		WORCESTER
1958	5/4/1958	19:00	2	1	0	0	4		38.22	-75.40	0.00	0.00	1.80	50	1	2	WORCESTER
1959	7/1/1959	20:30	1	1	0	0	3		39.28	-77.30	39.23	-77.28	3.30	100	1		MONTGOMERY
1959	7/19/1959	15:00	2	2	0	0	4		39.52	-76.12	0.00	0.00	0.80	50	1	2	HARFORD
1960	4/26/1960	17:30	1	1	0	0	3		39.13	-76.65	0.00	0.00	0.20	30	1		ANNE ARUNDEL
1960	11/19/1960	14:30	2	1	0	0	3		39.43	-77.20	0.00	0.00	1.00	33	1	2	FREDERICK
1961	4/16/1961	10:00	1	1	0	0	3		39.53	-77.42	0.00	0.00	0.30	20	1		FREDERICK
1961	6/9/1961	17:30	2	3	0	0	5		39.20	-76.62	39.22	-76.60	0.10	100	1		ANNE ARUNDEL
1961	7/13/1961	17:00	3	1	0	0	4		39.07	-76.65	0.00	0.00	0.50	500	1		ANNE ARUNDEL
1961	7/24/1961	18:00	4	1	0	0	4		39.70	-77.62	39.72	-77.58	0.10	500	1	4	WASHINGTON
1962	6/13/1962	6:30	1	1	0	0	4		38.45	-75.22	0.00	0.00	0.50	50	1		WORCESTER
1962	6/24/1962	18:15	2	0	0	0	2		38.52	-75.75	0.00	0.00	0.10	17	1		WICOMICO
1962	11/9/1962	21:00	3	1	0	0	4		38.33	-75.10	0.00	0.00	0.50	50	1	3	WORCESTER
1963	7/19/1963	16:05	1	1	0	0	4		39.47	-77.38	39.52	-77.12	14.40	600	1		FREDERICK/CARROLL
1963	7/19/1963	20:00	2	1	0	0	4		38.77	-76.77	0.00	0.00	1.00	50	1	2	PRINCE GEORGE'S
1964			0													0	
1965	8/1/1965	15:20	1	1	0	0	4		39.05	-76.05	0.00	0.00	1.30	200	1		QUEEN ANNE'S
1965	10/8/1965	20:15	2	1	0	0	4		38.33	-75.38	38.33	-75.40	0.10	150	1	2	WICOMICO
1966	2/13/1966	15:00	1	1	0	0	4		39.32	-77.37	0.00	0.00	0.50	50	1		FREDERICK
1966	6/28/1966	16:45	2	1	0	0	4		39.53	-77.32	0.00	0.00	0.30	50	1	2	FREDERICK
1967	1/27/1967	12:05	1	1	0	0	3		38.33	-76.58	38.35	-76.57	0.10	50	1		ST. MARY'S
1967	5/19/1967	20:15	2	3	0	1	4		39.38	-79.33	0.00	0.00	0.30	33	1		GARRETT
1967	7/28/1967	15:13	3	1	0	0	4		38.72	-76.30	38.77	-76.28	3.30	20	1		TALBOT
1967	8/3/1967	19:15	4	1	0	0	3		39.55	-76.02	0.00	0.00	0.30	17	1		CECIL
1967	8/26/1967	18:12	5	1	0	0	3		39.15	-77.27	0.00	0.00	2.00	100	1	5	MONTGOMERY
1968			0													0	
1969	7/5/1969	15:15	1	2	1	0	5		39.67	-78.90	0.00	0.00	0.50	200	1		ALLEGANY
1969	7/27/1969	21:15	2	1	0	0	4		39.60	-76.83	0.00	0.00	1.00	10	1	2	CARROLL/BALTIMORE
1970			0													0	
1971	7/14/1971	0:45	1	1	0	0	5		39.68	-79.47	39.58	-79.22	14.90	400	3		GARRETT
1971	7/30/1971	20:00	2	2	0	0	4		39.07	-76.05	39.13	-75.92	8.30	300	1		QUEEN ANNE'S
1971	9/12/1971	11:50	3	2	0	0	5		38.88	-76.88	38.90	-76.82	3.00	200	1	3	PRINCE GEORGE'S
1972	3/3/1972	12:45	1	1	0	0	5		39.42	-77.42	0.00	0.00	1.00	100	1	1	FREDERICK
1973	4/1/1973	20:00	1	1	0	0	4		38.62	-76.92	0.00	0.00	0.50	20	1		CHARLES
1973	6/16/1973	17:50	2	2	4	0	4		39.33	-76.58	0.00	0.00	0.10	33	1		BALTIMORE
1973	6/16/1973	18:50	3	1	0	0	3		39.53	-76.20	39.55	-76.18	1.80	33	1		HARFORD
1973	6/28/1973	16:50	4	1	0	0	3		39.67	-79.02	39.68	-78.95	3.60	33	1	4	GARRETT/ALLEGANY
1974	1/28/1974	17:15	1	1	0	0	3		38.53	-77.00	0.00	0.00	0.10	17	1		CHARLES
1974	5/12/1974	16:00	2	1	0	0	3		39.10	-77.00	0.00	0.00	0.50	67	1		MONTGOMERY
1974	5/12/1974	16:15	3	1	0	0	3		39.10	-76.60	0.00	0.00	0.10	33	1		ANNE ARUNDEL
1974	8/23/1974	15:00	4	1	0	0	4		38.10	-75.42	0.00	0.00	1.50	60	1	4	WORCESTER
1975	5/6/1975	7:00	1	1	0	0	4		38.83	-76.22	0.00	0.00	0.10	33	1		TALBOT
1975	6/5/1975	23:30	2	0	0	0	3		38.53	-76.88	0.00	0.00	0.10	33	1		CHARLES
1975	6/19/1975	20:30	3	1	0	0	4		39.48	-77.12	0.00	0.00	0.50	33	1		FREDERICK/CARROLL
1975	7/3/1975	17:35	4	0	0	0	0		39.23	-76.85	0.00	0.00	0.10	33	1		HOWARD
1975	7/13/1975	16:45	5	1	0	0	5		38.52	-77.02	0.00	0.00	0.80	200	1		CHARLES
1975	7/13/1975	21:20	6	1	0	0	4		39.60	-75.83	0.00	0.00	0.30	100	1		CECIL
1975	7/14/1975	7:00	7	0	0	0	0		39.33	-76.05	0.00	0.00	0.10	33	1		KENT
1975	7/14/1975	7:15	8	1	0	0	4		39.03	-76.50	0.00	0.00	0.50	100	1		ANNE ARUNDEL
1975	7/24/1975	23:00	9	1	0	0	3		39.68	-75.88	0.00	0.00	0.10	50	1		CECIL
1975	8/4/1975	19:15	10	1	0	0	4		38.27	-75.78	0.00	0.00	0.50	77	1	10	WICOMICO
1976	3/21/1976	13:35	1	1	0	0	4		39.73	-76.03	0.00	0.00	0.50	33	1		CECIL
1976	3/21/1976	14:45	2	2	0	0	5		39.22	-75.93	0.00	0.00	0.20	100	1		QUEEN ANNE'S
1976	4/25/1976	20:45	3	1	0	0	5		39.70	-77.00	0.00	0.00	0.10	33	1		CARROLL
1976	8/14/1976	18:20	4	1	0	0	5		39.00	-76.65	0.00	0.00	0.10	33	1	4	ANNE ARUNDEL
1977	6/20/1977	18:35	1	2	0	0	4		39.40	-79.48	39.37	-79.45	1.90	50	2		GARRETT
1977	8/17/1977	14:15	2	1	0	0	2		39.53	-75.83	0.00	0.00	0.20	80	1	2	CECIL
1978	3/14/1978	14:10	1	1	0	0	4		38.97	-76.28	0.00	0.00	0.20	17	1		QUEEN ANNE'S
1978	4/18/1978	19:20	2	1	0	0	4		38.93	-75.87	0.00	0.00	0.10	10	1		CAROLINE
1978	6/20/1978	16:10	3	2	0	0	4		38.68	-77.10	0.00	0.00	1.00	50	1		CHARLES
1978	6/27/1978	20:00	4	2	0	0	5		38.70	-76.67	38.62	-76.58	6.90	50	1		CALVERT
1978	6/27/1978	20:30	5	1	0	0	4		38.73	-76.27	0.00	0.00	0.30	27	1		TALBOT
1978	7/31/1978	20:15	6	2	0	0	4		39.40	-77.35	0.00	0.00	1.50	100	1		FREDERICK
1978	7/31/1978	21:15	7	2	0	0	5		39.30	-77.07	0.00	0.00	0.80	40	1		HOWARD
1978	8/11/1978	19:00	8	1	0	0	3		39.47	-76.58	0.00	0.00	0.30	50	1		BALTIMORE

1978	8/28/1978	16:45	9	2	0	0	0		39.72	-76.98	39.57	-76.78	14.80	20	2	9	CARROLL/BALTIMORE
1979	5/23/1979	18:30	1	2	0	0	2.500		39.58	-77.00	0.00	0.00	2.00	150	1		CARROLL
1979	9/5/1979	13:00	2	1	0	0	2.500		39.57	-77.18	0.00	0.00	0.50	17	1		CARROLL
1979	9/5/1979	14:55	3	1	1	0	0.025		39.00	-76.65	0.00	0.00	2.50	50	1		ANNE ARUNDEL
1979	9/5/1979	15:00	4	2	0	0	0.250		39.45	-76.42	0.00	0.00	0.50	20	1		BALTIMORE
1979	9/5/1979	17:30	5	0	0	0	0.000		39.65	-77.93	0.00	0.00	0.30	10	1		WASHINGTON
1979	9/5/1979	18:30	6	1	0	0	0.025		38.15	-76.52	38.30	-76.78	17.80	50	1		ST. MARY'S
1979	9/5/1979	19:15	7	1	1	0	0.250		38.32	-76.43	0.00	0.00	0.50	30	1		CALVERT
1979	9/5/1979	20:30	8	0	0	0	0.025		38.52	-77.02	0.00	0.00	0.20	17	1	8	CHARLES
1980	4/4/1980	16:12	1	1	0	0	0.025		38.07	-75.57	0.00	0.00	0.10	17	1		WORCESTER
1980	6/3/1980	15:55	2	3	4	0	0.250		39.38	-79.48	39.35	-79.38	5.60	117	2		GARRETT
1980	6/29/1980	16:30	3	2	10	0	0.250		39.52	-76.17	0.00	0.00	2.00	150	1	3	HARFORD
1981	5/15/1981	17:09	1	2	2	0	2.500		39.60	-75.83	0.00	0.00	1.50	27	1		CECIL
1981	9/8/1981	19:00	2	1	0	0	0.025		37.98	-75.85	0.00	0.00	1.00	60	1	2	SOMERSET
1982	5/30/1982	16:30	1	1	0	0	2.500		39.63	-77.50	0.00	0.00	0.20	17	1	1	FREDERICK
1983	5/22/1983	19:05	1	3	0	0	0.050		39.70	-77.25	39.72	-77.20	2.00	35	1		FREDERICK/CARROLL
1983	10/13/1983	20:45	2	2	0	0	0.050		38.37	-76.57	38.43	-76.53	4.00	35	1	2	ST. MARY'S/CALVERT
1984	5/8/1984	17:45	1	1	3	0	2.500		38.37	-76.78	38.38	-76.73	3.00	80	1		ST. MARY'S
1984	5/8/1984	17:50	2	1	1	0	0.250		38.43	-76.73	0.00	0.00	1.00	60	1		ST. MARY'S
1984	5/8/1984	17:55	3	0	0	0	0.025		38.50	-76.52	0.00	0.00	0.30	17	1		CALVERT
1984	5/8/1984	18:00	4	1	8	0	2.500	0.050-0.500	38.60	-75.90	38.72	-75.60	14.00	150	2		DORCHESTER
1984	5/8/1984	18:05	5	1	6	1	2.500	0.051-5.000	38.57	-75.90	38.72	-75.60	14.00	150	2	5	DORCHESTER
1985			0													0	
1986			0													0	
1987			0													0	
1988			0													0	
1989	11/16/1989	9:20	1	1	0	0	0.250		39.25	-75.80	39.25	-75.72	4.00	440	2	1	KENT
1990	5/10/1990	19:00	1	1	0	0	0.025		38.33	-75.62	0.00	0.00	0.10	25	1		WICOMICO
1990	5/10/1990	19:15	2	0	0	0	0.025		38.37	-75.55	0.00	0.00	0.10	100	1		WICOMICO
1990	5/10/1990	19:19	3	1	2	0	0.025		38.38	-75.35	0.00	0.00	0.10	25	1		WICOMICO
1990	5/13/1990	13:30	4	1	0	0	0.250		39.47	-77.57	0.00	0.00	0.50	33	1		FREDERICK
1990	5/13/1990	16:30	5	0	0	0	0.250		39.30	-76.00	0.00	0.00	0.10	13	1		KENT
1990	6/8/1990	17:35	6	0	0	0	0.003		39.58	-76.62	0.00	0.00	0.30	13	1		BALTIMORE
1990	7/14/1990	10:20	7	0	0	0	0.025		38.70	-75.90	0.00	0.00	0.30	20	1		CAROLINE
1990	10/18/1990	15:15	8	1	1	0	2.500		39.03	-77.05	0.00	0.00	1.00	100	1		MONTGOMERY
1990	10/18/1990	15:30	9	2	59	0	25.000		39.47	-76.82	0.00	0.00	0.10	100	1		BALTIMORE
1990	10/18/1990	15:49	10	1	0	0	0.250		39.53	-76.65	0.00	0.00	0.10	10	1	10	BALTIMORE
1991	8/20/1991	7:50	1	1	0	0	0.025		39.18	-77.03	0.00	0.00	0.80	73	1	1	MONTGOMERY
1992	7/31/1992	17:45	1	1	0	0	0.025		38.93	-75.75	0.00	0.00	1.00	183	1		CAROLINE
1992	8/4/1992	15:10	2	1	0	0	0.000		38.77	-76.95	0.00	0.00	2.00	73	1		PRINCE GEORGE'S
1992	8/4/1992	15:15	3	0	0	0	0.025		38.75	-76.97	0.00	0.00	0.10	10	1		PRINCE GEORGE'S
1992	8/28/1992	17:00	4	1	2	0	2.500		39.25	-76.98	39.30	-76.97	3.50	100	1		HOWARD
1992	8/28/1992	17:15	5	0	0	0	0.000		38.88	-76.60	0.00	0.00	0.10	7	1		ANNE ARUNDEL
1992	8/28/1992	17:20	6	0	0	0	2.500		39.33	-76.95	0.00	0.00	2.50	50	1		HOWARD
1992	8/28/1992	17:32	7	0	0	0	0.000		39.07	-76.75	0.00	0.00	0.10	10	1		ANNE ARUNDEL
1992	8/28/1992	17:00	8	0	0	0	0.000		38.57	-75.95	0.00	0.00	0.10	7	1		DORCHESTER
1992	8/28/1992	17:10	9	0	0	0	0.000		39.05	-76.07	0.00	0.00	0.10	10	1		QUEEN ANNE'S
1992	8/28/1992	17:35	10	0	0	0	0.000		39.12	-76.00	0.00	0.00	0.10	10	1		QUEEN ANNE'S
1992	8/28/1992	17:55	11	0	0	0	0.000		39.50	-76.18	0.00	0.00	0.10	7	1		HARFORD
1992	8/28/1992	17:55	12	0	0	0	0.000		39.60	-75.93	0.00	0.00	0.10	7	1		CECIL
1992	11/23/1992	3:00	13	1	0	0	2.500		38.83	-76.95	0.00	0.00	1.00	30	1	13	PRINCE GEORGE'S
1993	4/16/1993	15:00	1	1	0	0	0.050		39.22	-76.02	0.00	0.00	0.50	35	1		QUEEN ANNE'S
1993	5/12/1993	17:55	2	0	0	0	0.005		39.07	-76.67	0.00	0.00	0.50	30	1		ANNE ARUNDEL
1993	9/3/1993	18:15	3	0	0	0	0.005		39.67	-77.08	0.00	0.00	0.20	14	1		CARROLL
1993	9/27/1993	12:42	4	1	0	0	0.001		39.00	-77.05	0.00	0.00	0.20	15	1		MONTGOMERY
1993	9/27/1993	13:55	5	1	0	0	0.050		39.47	-75.90	39.50	-75.82	6.00	30	1		CECIL
1993	9/27/1993	14:15	6	1	2	0	0.005		39.05	-76.67	39.07	-76.55	8.00	23	1	6	ANNE ARUNDEL
1994	7/14/1994	17:15	1	0	0	0	4		39.53	-76.35	0.00	0.00	0.30	40	1		HARFORD
1994	7/27/1994	17:35	2	2	0	0	5		38.45	-76.78	0.00	0.00	0.80	200	1		ST. MARY'S
1994	7/27/1994	19:15	3	1	0	0	0		38.72	-76.92	38.82	-76.88	6.00	150	1		PRINCE GEORGE'S
1994	7/27/1994	19:42	4	1	1	0	0		38.88	-76.80	38.95	-76.67	6.00	100	1		PRINCE GEORGE'S
1994	7/27/1994	18:45	5	2	0	0	6		38.52	-76.95	0.00	0.00	0.80	150	1		CHARLES
1994	7/27/1994	18:56	6	0	0	0	0		38.53	-76.88	0.00	0.00	1.50	75	1		CHARLES
1994	7/27/1994	19:03	7	0	0	0	3		38.40	-76.98	0.00	0.00	0.20	50	1		CHARLES
1994	7/27/1994	20:20	8	0	0	0	2		38.98	-76.63	39.07	-76.57	5.00	100	1		ANNE ARUNDEL
1994	7/27/1994	19:21	9	1	0	0	5		38.62	-76.62	38.65	-76.53	3.00	120	1		CALVERT
1994	7/27/1994	20:40	10	2	0	0	4		39.08	-76.53	39.17	-76.43	7.00	200	1		ANNE ARUNDEL
1994	7/27/1994	20:57	11	0	0	0	6		38.88	-76.33	0.00	0.00	1.50	100	1		QUEEN ANNE'S
1994	7/27/1994	21:10	12	2	0	0	6		39.28	-76.10	39.33	-76.03	4.00	150	1		KENT
1994	7/27/1994	21:45	13	1	0	0	3		39.60	-75.93	0.00	0.00	0.50	75	1		CECIL
1994	7/27/1994	21:48	14	0	0	0	5		39.43	-76.38	0.00	0.00	0.50	75	1		HARFORD
1994	7/27/1994	22:02	15	1	0	0	6		39.43	-76.12	0.00	0.00	2.50	30	1		HARFORD
1994	8/17/1994	11:05	16	0	0	0	0.001		38.67	-76.60	0.00	0.00	2.00	50	1		CALVERT
1994	11/1/1994	14:15	17	1	0	0	5.000		39.45	-76.63	0.00	0.00	1.50	75	1		BALTIMORE CITY
1994	11/1/1994	14:20	18	1	0	0	5.000		39.45	-76.63	0.00	0.00	0.75	70	1		BALTIMORE CITY
1994	11/1/1994	14:40	19	0	0	0	0.050	0.005	39.55	-76.30	0.00	0.00	0.50	50	1		HARFORD
1994	11/1/1994	14:43	20	0	0	0	0.000	0.005	39.52	-76.27	0.00	0.00	0.30	20	1		HARFORD
1994	11/1/1994	14:48	21	1	0	0	5.000		39.47	-76.20	0.00	0.00	0.50	25	1	21	HARFORD
1995	5/18/1995	14:30	1	1	2	0	2.000		38.90	-76.90	0.00	0.00	0.30	30	1		PRINCE GEORGE'S
1995	5/18/1995	15:30	2	2	0	0	Unknown		38.87	-76.00	38.87	-75.80	10.00	200	1		TALBOT/CAROLINE
1995	7/6/1995	16:07	3	0	0	0	0.075		39.30	-76.88	0.00	0.00	0.10	20	1		HOWARD
1995	7/6/1995	17:45	4	0	0	0	0.005		39.58	-76.62	0.00	0.00	0.10	10	1		BALTIMORE
1995	7/24/1995	15:20	5	1	0	0	0.100		39.53	-76.67	0.00	0.00	2.00	75	1		BALTIMORE
1995	7/27/1995	19:55	6	0	0	0	0.015		38.35	-76.65	0.00	0.00	0.50	50	1		ST. MARY'S
1995	8/6/1995	13:12	7	0	0	0	0										

1995	10/5/1995	19:35	10	1	0	0	0.010		38.50	-77.15	0.00	0.00	1.50	100	1	25	CHARLES
1995	10/5/1995	19:59	11	2	3	0	5.000		38.82	-76.95	0.00	0.00	2.50	200	1		PRINCE GEORGE'S
1995	10/5/1995	20:31	12	1	0	0	0.250		39.08	-76.70	39.17	-76.63	6.00	100	1		ANNE ARUNDEL
1995	10/5/1995	20:32	13	0	0	0	0.001		39.03	-76.50	0.00	0.00	0.50	50	1		ANNE ARUNDEL
1995	10/5/1995	20:57	14	1	0	0	0.005		38.22	-76.62	0.00	0.00	0.75	75	1		ST. MARY'S
1995	10/14/1995	16:51	15	1	0	0	0.050-0.500		39.03	-76.60	39.03	-76.50	3.80	75	1		ANNE ARUNDEL
1995	10/14/1995	17:35	16	0	0	0	0.001		39.60	-77.03	0.00	0.00	1.00	25	1		CARROLL
1995	10/21/1995	0:12	17	0	0	0	0.007		39.62	-77.42	0.00	0.00	0.62	75	1		FREDERICK
1995	10/21/1995	0:20	18	1	0	0	0.015		39.48	-77.20	0.00	0.00	1.20	50	1		FREDERICK
1995	10/21/1995	0:28	19	0	0	0	0.005		39.67	-77.18	0.00	0.00	0.50	50	1		CARROLL
1995	10/21/1995	4:08	20	0	0	0	0.030		39.52	-76.17	0.00	0.00	0.50	50	1		HARFORD
1995	10/27/1995	20:00	21	0	0	0	0.000		38.47	-76.67	0.00	0.00	0.50	50	1		ST. MARY'S
1995	11/11/1995	19:30	22	0	0	0	0.025		39.65	-76.27	0.00	0.00	0.50	100	1		HARFORD
1995	11/11/1995	20:00	23	0	0	0	0.005		38.35	-76.58	0.00	0.00	0.80	75	1		ST. MARY'S
1995	11/11/1995	20:10	24	0	0	0	0.005		38.28	-76.43	0.00	0.00	0.10	50	1		ST. MARY'S
1995	11/11/1995	21:20	25	0	0	0	0.005		38.25	-75.40	0.00	0.00	0.50	50	1		WORCESTER
1996	6/4/1996	20:05	1	1	0	0	0.150		39.38	-77.22	39.38	-77.20	1.00	65	1	FREDERICK	
1996	6/24/1996	17:23	2	0	0	0	0.200		38.80	-76.85	38.80	-76.83	1.00	50	1	PRINCE GEORGE'S	
1996	6/24/1996	17:34	3	1	0	0	0.600		38.83	-76.77	38.70	-76.67	5.00	200	1	PRINCE GEORGE'S/ANNE ARUNDEL	
1996	7/13/1996	1:45	4	1	0	0	0.100		38.30	-76.50	38.30	-76.50	1.20	100	1	ST. MARY'S	
1996	7/13/1996	2:05	5	1	0	0	0.150		38.52	-76.82	38.52	-76.82	0.30	35	1	CHARLES	
1996	7/13/1996	2:45	6	0	0	0	0.040		38.50	-76.22	38.50	-76.22	0.50	50	1	DORCHESTER	
1996	7/13/1996	3:35	7	1	0	0	0.120		38.73	-76.70	38.75	-76.72	1.20	50	1	CALVERT	
1996	7/15/1996	15:30	8	0	0	0	0.004		38.47	-76.98	38.47	-76.98	0.30	25	1	CHARLES	
1996	7/19/1996	15:02	9	0	0	0	0.015		39.73	-77.57	39.72	-77.53	2.00	75	2	WASHINGTON	
1996	7/19/1996	15:12	10	2	0	0	0.400	0.075	39.38	-77.70	39.35	-77.70	2.00	125	1	WASHINGTON	
1996	7/19/1996	15:20	11	1	0	0	0.080	0.050	39.33	-77.63	39.32	-77.63	2.20	200	2	FREDERICK	
1996	7/19/1996	15:36	12	1	0	0	0.000		39.23	-77.47	39.23	-77.47	0.50	150	1	MONTGOMERY	
1996	7/19/1996	15:42	13	3	3	0	5.000		39.50	-76.98	39.48	-76.95	2.20	350	1	CARROLL	
1996	7/19/1996	15:48	14	0	0	0	0.000	0.005	39.08	-77.35	39.07	-77.35	1.00	30	2	MONTGOMERY	
1996	7/19/1996	15:55	15	1	0	0	0.070		39.43	-76.85	39.43	-76.85	1.20	50	1	BALTIMORE	
1996	7/19/1996	16:30	16	0	0	0	0.000		39.32	-76.58	39.32	-76.58	0.10	25	1	BALTIMORE CITY	
1996	8/18/1996	7:45	17	0	0	0	0.010		38.27	-75.08	38.27	-75.08	2.00	40	1	WORCESTER	
1996	8/27/1996	14:50	18	0	0	0	0.010		39.28	-76.85	39.27	-76.85	0.50	50	1	HOWARD	
1996	9/28/1996	18:00	19	0	0	0	0.070		39.68	-77.05	39.68	-77.05	0.50	75	1	CARROLL	
1996	11/8/1996	15:45	20	1	1	0	0.750		39.27	-76.52	39.27	-76.52	3.80	100	1	BALTIMORE	
1996	11/26/1996	5:55	21	1	0	0	0.050		38.95	-76.22	38.95	-76.22	0.30	50	1	QUEEN ANNE'S	
1997	3/29/1997	12:35	1	0	0	0	0.010		39.58	-76.38	39.58	-76.38	0.50	50	1	HARFORD	
1997	3/29/1997	12:42	2	0	0	0	0.020		39.27	-76.52	39.27	-76.52	0.50	23	1	BALTIMORE	
1997	5/25/1997	19:20	3	1	0	0	0.250		39.70	-75.87	39.70	-75.87	0.50	100	1	CECIL	
1997	6/18/1997	17:29	4	0	0	0	0.010		39.70	-78.10	39.75	-78.12	2.00	13	1	WASHINGTON	
1998	6/2/1998	19:56	1	1	0	0	0.000	0.030	39.72	-78.92	39.72	-78.92	0.20	50	2	ALLEGANY	
1998	6/2/1998	20:21	2	0	0	0	0.000	0.015	39.62	-78.73	39.62	-78.72	0.50	50	1	ALLEGANY	
1998	6/2/1998	21:38	3	4	5	0	5.500	0.250	39.73	-78.97	39.63	-78.83	10.50	700	2	GARRETT/ALLEGANY	
1998	6/2/1998	21:50	4	2	0	0	1.000		39.67	-79.50	39.63	-79.45	3.00	300	3	GARRETT	
1998	6/16/1998	18:12	5	1	1	0	0.200		39.57	-77.73	39.62	-77.73	3.00	200	1	WASHINGTON	
1998	6/16/1998	18:21	6	1	0	0	0.200		39.62	-77.73	39.65	-77.72	5.00	100	1	WASHINGTON	
1998	6/16/1998	18:30	7	1	0	0	0.010		39.70	-77.73	39.72	-77.72	2.00	80	1	WASHINGTON	
1998	6/16/1998	18:35	8	0	0	0	0.010		39.45	-77.37	39.45	-77.37	0.50	50	1	FREDERICK	
1998	6/16/1998	18:38	9	0	0	0	0.020		39.53	-76.87	39.53	-76.85	0.50	50	1	CARROLL	
1998	6/19/1998	7:30	10	0	0	0	0.010		39.65	-77.77	39.65	-77.75	1.00	80	1	WASHINGTON	
1998	7/30/1998	21:25	11	0	0	0	0.010		39.47	-76.22	39.47	-76.20	0.60	100	1	HARFORD	
1999	7/30/1999	20:30	1	0	0	0	0.010		39.62	-76.77	39.58	-76.73	3.00	50	1	BALTIMORE	
1999	8/14/1999	13:50	2	1	0	0	0.800		39.45	-77.47	39.43	-77.42	3.00	50	1	FREDERICK	
1999	8/25/1999	17:30	3	Unknown	0	0	0.005		0.00	0.00	0.00	0.00	0.10	Unknown	1	DORCHESTER	
1999	8/26/1999	15:38	4	1	0	0	0.070		39.47	-77.65	39.47	-77.65	1.50	60	1	WASHINGTON	
2000	4/21/2000	15:40	1	1	0	0	0.210		38.70	-76.65	38.70	-76.63	1.50	70	1	CALVERT	
2000	5/13/2000	19:45	2	1	1	0	0.120		38.70	-76.83	38.75	-76.63	12.00	150	1	PRINCE GEORGE'S/CALVERT	
2000	5/13/2000	20:00	3	1	0	0	0.250		39.33	-76.53	39.37	-76.45	5.00	75	1	BALTIMORE	
2000	6/21/2000	22:10	4	1	0	0	0.250		39.08	-77.07	39.10	-77.00	1.00	30	1	MONTGOMERY	
2000	6/21/2000	22:28	5	1	0	0	0.150		39.10	-76.83	39.10	-76.82	1.00	150	1	PRINCE GEORGE'S	
2000	7/10/2000	17:30	6	1	0	0	0.060		39.10	-76.80	39.10	-76.82	1.30	100	1	HOWARD/ANNE ARUNDEL	
2000	7/15/2000	17:30	7	0	0	0	0.001		38.75	-76.18	38.75	-76.18	0.30	20	1	TALBOT	
2000	7/31/2000	16:47	8	0	0	0	0.001		38.38	-76.58	38.38	-76.58	0.50	30	1	ST. MARY'S	
2001	5/22/2001	19:29	1	1	0	0	0.030		38.27	-76.85	38.28	-76.85	1.80	100	1	CHARLES	
2001	5/22/2001	19:55	2	0	0	0	0.000		38.30	-76.45	38.30	-76.45	1.00	50	1	CALVERT	
2001	5/22/2001	20:00	3	0													

2002	6/6/2002	17:05	14	0	0	0	0.010		39.43	-77.40	39.45	-77.38	2.00	50	1	14	FREDERICK
2003	3/29/2003	18:25	1	0	0	0	0.000		38.52	-77.02	38.52	-77.02	0.10	30	1		CHARLES
2003	3/29/2003	18:35	2	0	0	0	0.000		38.53	-76.93	38.53	-76.93	0.10	30	1		CHARLES
2003	5/7/2003	19:23	3	0	0	0	0.030		38.45	-76.80	38.45	-76.78	0.50	75	1		ST. MARY'S
2003	5/7/2003	19:30	4	0	0	0	0.030		38.38	-76.65	38.40	-76.62	2.00	100	1		ST. MARY'S
2003	7/14/2003	9:11	5	0	0	0	0.000		37.98	-75.85	37.98	-75.85	1.00	50	1		SOMERSET
2003	9/2/2003	18:34	6	0	0	0	0.000		38.47	-76.15	38.47	-76.15	0.20	50	1		DORCHESTER
2003	10/14/2003	23:10	7	1	0	0	0.500		38.57	-76.05	38.57	-76.05	4.00	150	1		DORCHESTER
2003	11/5/2003	15:08	8	0	0	0	0.001		39.02	-77.22	39.12	-77.45	4.00	75	2		MONTGOMERY
2003	11/5/2003	15:10	9	1	0	0	1.200		39.15	-77.45	39.18	-77.28	10.00	75	1	9	MONTGOMERY
2004	5/25/2004	17:37	1	1	0	0	0.250		39.68	-77.63	39.68	-77.62	1.50	100	1		WASHINGTON
2004	5/25/2004	17:56	2	0	0	0	0.000		39.62	-77.60	39.65	-77.58	0.50	50	1		FREDERICK
2004	6/14/2004	18:18	3	1	0	0	0.002		39.55	-77.32	39.50	-77.27	4.20	150	1		FREDERICK
2004	6/14/2004	19:55	4	0	0	0	0.001		39.57	-76.25	39.58	-76.23	1.50	75	1		HARFORD
2004	6/17/2004	19:10	5	0	0	0	0.000		38.53	-76.98	38.53	-76.98	0.30	75	1		CHARLES
2004	7/12/2004	13:28	6	1	0	0	0.000		39.50	-75.95	39.52	-75.95	0.50	100	1		CECIL
2004	7/12/2004	13:30	7	1	0	0	0.000		39.52	-75.95	39.52	-75.95	0.80	200	1		CECIL
2004	7/14/2004	16:50	8	1	0	0	0.005		38.30	-76.50	38.28	-76.45	3.00	250	1		ST. MARY'S
2004	9/8/2004	12:58	9	1	0	0	0.065		38.47	-77.07	38.57	-77.17	5.00	150	1		CHARLES
2004	9/17/2004	18:10	10	1	0	0	0.200		39.32	-77.63	39.40	-77.63	3.00	150	1		FREDERICK
2004	9/17/2004	18:25	11	0	0	0	0.120		39.50	-77.65	39.50	-77.65	1.00	75	1		WASHINGTON
2004	9/17/2004	18:35	12	1	0	0	0.120		39.13	-77.45	39.18	-77.42	1.00	200	2		MONTGOMERY
2004	9/17/2004	18:42	13	0	0	0	0.010		38.37	-77.20	38.42	-77.20	3.00	100	1		CHARLES
2004	9/17/2004	18:54	14	1	0	0	0.050		39.32	-77.47	39.42	-77.42	7.00	100	1		FREDERICK
2004	9/17/2004	19:50	15	2	0	0	0.005		39.40	-77.55	39.40	-77.65	3.00	200	1		FREDERICK
2004	9/17/2004	20:37	16	0	0	0	0.005		39.70	-78.18	39.70	-78.18	0.50	100	2		WASHINGTON
2004	9/18/2004	3:40	17	1	0	0	0.120		39.43	-76.37	39.43	-76.37	1.00	100	1		HARFORD
2004	9/18/2004	4:00	18	2	0	0	0.350		39.43	-76.37	39.73	-76.37	2.00	125	1		HARFORD
2004	9/28/2004	16:00	19	0	0	0	0.040		38.33	-76.45	38.33	-76.45	0.30	50	1		CALVERT
2004	9/30/2004	7:50	20	0	0	0	0.000		38.42	-76.27	38.42	-76.27	0.80	30	1		DORCHESTER
2004	10/16/2004	18:15	21	0	0	0	0.002		38.52	-76.15	38.52	-76.15	0.50	25	1	21	DORCHESTER
2005			0													0	
2006	6/27/2006	17:55	1	0	0	0	1.000		38.37	-76.78	38.37	-76.83	3.00	50	1		ST. MARY'S
2006	7/5/2006	16:00	2	0	0	0	0.003		38.03	-75.78	38.03	-75.78	0.30	25	1		SOMERSET
2006	9/28/2006	18:34	3	1	0	0	6.000		39.07	-76.55	39.10	-76.57	2.00	250	1	3	ANNE ARUNDEL
2007	6/13/2007	17:10	1	0	0	0	0.000	0.000	39.56	-76.73	39.59	-76.73	2.00	75	1		BALTIMORE
2007	7/16/2007	18:15	2	1	0	0	0.010	0.000	39.51	-76.41	39.47	-76.35	4.00	150	1	2	HARFORD
2008	4/20/2008	14:09	1	0	0	0	0.050	0.000	38.59	-76.87	38.61	-76.88	1.70	100	1		CHARLES
2008	4/20/2008	14:27	2	1	0	0	0.040	0.000	38.96	-76.98	38.97	-76.99	0.32	100	1		PRINCE GEORGE'S
2008	5/9/2008	0:24	3	0	0	0	0.100	0.000	38.77	-76.94	38.78	-76.94	0.54	50	1		PRINCE GEORGE'S
2008	5/9/2008	0:56	4	0	0	0	0.050	0.000	38.83	-76.91	38.84	-76.91	0.48	100	1		PRINCE GEORGE'S
2008	6/4/2008	15:20	5	0	0	0	0.002	0.000	39.03	-77	39.03	-76.99	0.32	50	1		MONTGOMERY
2008	6/4/2008	15:40	6	0	0	0	0.400	0.000	38.7	-76.56	38.69	-76.53	1.64	75	1		CALVERT
2008	6/4/2008	16:12	7	0	0	0	0.300	0.000	38.71	-75.93	38.71	-75.89	2.24	50	1		CAROLINE
2008	7/30/2008	17:43	8	0	0	0	0.500	0.000	39.69	-79.48	39.63	-79.32	4.21	150	3	8	GARRETT
2009	6/9/2009	17:21	1	0	0	0	0.000	0.000	39.2895	-76.5258	39.282	-76.5024	1.00	150	1		BALTIMORE
2009	6/20/2009	15:31	2	0	0	0	0.000	0.000	39.4871	-76.3908	39.487	-76.3577	1.00	100	1		HARFORD
2009	6/20/2009	15:44	3	1	0	0	0.000	0.000	39.3024	-76.4433	39.2505	-76.3647	5.00	150	1		BALTIMORE
2009	7/24/2009	1:30	4	0	2	0	0.010	0.000	38.31	-76.00	38.3105	-75.9952	0.26	25	1		DORCHESTER
2009	7/29/2009	14:48	5	0	0	0	0.000	0.000	39.544	-78.629	39.6062	-78.5088	5.30	100	1		ALLEGANY
2009	7/29/2009	15:29	6	0	0	0	0.000	0.000	39.693	-78.3334	39.70	-78.3215	0.80	50	1		ALLEGANY
2009	7/31/2009	14:06	7	1	0	0	0.000	0.000	39.3514	-77.3584	39.3708	-77.3168	2.60	125	1		FREDERICK
2009	7/31/2009	14:08	8	1	0	0	0.000	0.000	39.3531	-77.3352	39.3688	-77.2962	2.60	350	1		FREDERICK
2009	7/31/2009	14:40	9	0	0	0	0.000	0.000	39.492	-76.933	39.494	-76.916	0.92	100	1		CARROLL
2009	7/31/2009	14:42	10	1	0	0	0.000	0.000	39.3261	-76.9301	39.3269	-76.9286	0.10	50	1	10	HOWARD
2010	8/12/2010	17:03	1	0	0	0	0.015	0.000	39.4403	-77.1837	39.4437	-77.1829	0.24	440	1		FREDERICK
2010	9/30/2010	9:46	2	0	0	0	0.015	0.000	39.1	-76.45	39.1134	-76.4492	0.93	200	1		ANNE ARUNDEL
2010	11/17/2010	1:35	3	1	3	0	0.250	0.000	39.3665	-76.5705	39.3772	-76.5601	0.43	250	1		BALTIMORE/BALTIMORE CITY
2010	12/1/2010	9:27	4	0	0	0	0.010	0.000	38.6262	-76.9655	38.6553	-76.9447	2.31	50	1	4	CHARLES
2011	4/5/2011	4:48	1	0	0	0	0.005	0.000	38.6521	-76.8901	38.6534	-76.8899	0.09	50	1		CHARLES
2011	4/5/2011	4:55	2	0	0	0	0.002	0.000	38.968	-76.716	38.977	-76.694	1.34	50	1		PRINCE GEORGE'S/ANNE ARUNDEL
2011	4/16/2011	19:37	3	1	0	0	0.100	0.000	39.405	-77.2614	39.4474	-77.1701	5.53	50	1		FREDERICK
2011	4/16/2011	19:47	4	1	0	0	0.035	0.000	39.4358	-77.1476	39.4597	-77.0904	3.50	50	1		FREDERICK/CARROLL
2011	4/16/2011	19:51	5	0	0	0	0.020	0.000	39.6483	-77.0785	39.7204	-76.9182	1.95	75	1		CARROLL
2011	4/27/2011	19:06	6	0	0	0	0.100	0.000	38.746	-76.959	38.750	-76.954	0.39	75	1		PRINCE GEORGE'S
2011	4/27/2011	19:12	7	0	0	0	0.100	0.000	38.7823	-76.9123	38.7824	-76.8988	0.73	50	1		PRINCE GEORGE'S
2011	4/27/2011	19:16	8	0	0	0	0.005	0.000	38.81	-76.902	38.813	-76.889	0.39	100	1		PRINCE GEORGE'S
2011	4/27/2011	1:27	9	0	0	0	0.120	0.000	39.555	-78.54	39.562	-78.535	0.55	75	1		ALLEGANY
2011	4/27/2011	1:35	10	0	0	0	0.005	0.000	39.601	-78.479	39.602	-78.477	0.55	75	1		ALLEGANY
2011	4/28/2011	6:45	11	0	0	0	0.002	0.000	39.152	-77.42	39.158	-77.408	0.76	50	1		MONTGOMERY
2011	4/28/2011	7:37	12	0	0	0	0.005	0.000	39.568	-76.988	39.577	-76.984	0.66	50	1		CARROLL
2011	4/28/2011	8:09	13	0	0	0	0.005	0.000	39.609	-76.83	39.614	-76.810	1.12	50	1		BALTIMORE
2011	4/28/2011	9:54	14	0	0	0	0.001	0.000	39.598	-76.705	39.599	-76.704	1.12	75	1		BALTIMORE
2011	4/28/2011	11:25	15	1	0	0	0.035	0.000	38.263	-76.666	38.294	-76.618	3.37	150	1		ST. MARY'S
2011	4/28/2011	11:41	16	0	0	0	0.007	0.000	38.366	-76.465	38.380	-76.439	1.71	50	1		CALVERT
2011	5/17/2011	17:35	17	0	0	0	0.020	0.000	39.59	-77.539	39.603	-77.551	1.10	50	1		FREDERICK
2011	5/17/2011	20:10	18	1	0	0	0.300	0.000	39.681	-77.747	39.701	-77.777	2.11	200	1		WASHINGTON
2011	5/19/2011	12:35	19	0	0	0	0.001	0.000	39.1736	-76.0384	39.2113	-75.9895	3.69	17	1		QUEEN ANNE'S
2011	6/12/2011	16:07	20	0	0	0	0.010	0.000	39.674	-76.375	39.649	-76.378	1.73	75	1		HARFORD
2011	6/12/2011	16:5															

2012	6/1/2012	14:48	3	0	0	0	0.005	0.000	39.358	-77.139	39.364	-77.137	0.43	100	1	16	CARROLL
2012	6/1/2012	14:52	4	1	0	0	0.005	0.000	39.357	-77.139	39.374	-77.107	2.07	200	1		HOWARD/CARROLL
2012	6/1/2012	15:09	5	0	0	0	0.050	0.000	39.245	-77.194	39.251	-77.190	0.47	75	1		MONTGOMERY
2012	6/1/2012	15:21	6	1	0	0	0.200	0.000	39.503	-76.952	39.527	-76.908	2.87	150	1		CARROLL
2012	6/1/2012	16:29	7	0	0	0	0.100	0.000	39.15	-76.878	39.172	-76.87	1.58	150	1		HOWARD
2012	6/1/2012	17:27	8	0	0	0	0.002	0.000	38.944	-76.846	38.953	-76.834	0.90	50	1		PRINCE GEORGE'S
2012	6/1/2012	17:46	9	0	0	0	0.003	0.000	39.047	-76.755	39.049	-76.756	0.15	75	1		ANNE ARUNDEL
2012	6/1/2012	13:26	10	1	2	0	0.300	0.000	39.487	-76.393	39.504	-76.388	1.20	300	1		HARFORD
2012	6/1/2012	18:31	11	1	0	0	0.002	0.000	39.688	-78.376	39.699	-78.361	1.10	175	1		ALLEGANY
2012	6/1/2012	19:06	12	0	0	0	0.100	0.000	39.098	-76.744	39.179	-76.678	6.62	100	1		ANNE ARUNDEL
2012	6/1/2012	20:30	13	0	0	0	0.100	0.000	39.0559	-76.0045	39.09	-76.00	5.00	50	1	QUEEN ANNE'S	
2012	7/15/2012	15:24	14	0	0	0	0.010	0.000	38.2233	-76.7515	38.2241	-76.7516	0.05	50	1	ST. MARY'S	
2012	8/7/2012	17:55	15	0	0	0	0.000	0.000	38.5103	-76.6628	38.5138	-76.6748	0.69	25	1	PRINCE GEORGE'S/CALVERT	
2012	10/19/2012	19:07	16	0	0	0	0.000	0.000	39.609	-76.504	39.626	-76.502	1.20	100	1	HARFORD	
2013	4/19/2013	19:26	1	0	0	0	0.025	0.005	38.837	-76.813	38.843	-76.807	0.50	75	1	PRINCE GEORGE'S	
2013	6/10/2013	15:24	2	0	0	0	0.001	0.003	39.462	-76.449	39.473	-76.447	0.50	100	1	BALTIMORE	
2013	6/10/2013	15:44	3	0	0	0	0.010	0.000	39.262	-76.593	39.265	-76.593	0.20	75	1	BALTIMORE CITY	
2013	6/10/2013	21:01	4	0	0	0	0.001	0.001	38.223	-76.755	38.226	-76.753	0.25	50	1	ST. MARY'S	
2013	6/13/2013	15:24	5	0	0	0	0.000	0.005	38.278	-76.74	38.309	-76.488	13.83	200	1	ST. MARY'S	
2013	6/13/2013	15:38	6	0	0	0	0.001	0.005	39.08	-77.32	39.108	-76.947	20.10	150	1	MONTGOMERY	
2013	6/13/2013	15:42	7	0	0	0	0.000	0.010	38.401	-76.541	38.422	-76.513	1.80	75	1	CALVERT	
2013	7/1/2013	19:33	8	0	0	0	0.001	0.001	38.7045	-76.9004	38.7365	-76.8894	2.30	75	1	PRINCE GEORGE'S	
2013	7/23/2013	0:12	9	0	0	0	0.003	0.002	39.628	-76.182	39.632	-76.169	0.80	100	1	HARFORD	
2013	8/13/2013	6:01	10	0	0	0	0.000	0.002	39.516	-76.265	39.509	-76.247	1.00	75	1	HARFORD	
2014	2/21/2014	12:23	1	0	0	0	0.000	0.010	38.242	-76.68	38.377	-76.396	23.63	75	1	2	ST. MARY'S/CALVERT
2014	10/15/2014	13:13	2	0	0	0	0.000	0.000	39.128	-76.829	39.132	-76.827	0.30	75	1		HOWARD
2015	6/20/2015	19:39	1	0	0	0	0.005	0.000	39.2604	-77.465	39.2814	-77.4609	1.47	75	1	FREDERICK	
2015	6/27/2015	16:28	2	1	0	0	0.500	0.000	38.343	-76.97	38.353	-76.935	2.02	100	1	CHARLES	
2015	6/27/2015	16:32	3	1	0	0	0.013	0.000	38.294	-76.907	38.39	-76.636	16.11	800	1	CHARLES/ST. MARY'S	
2015	9/29/2015	22:02	4	0	0	0	0.000	0.000	39.0958	-76.8411	39.1511	-76.8819	4.40	75	1	PRINCE GEORGE'S/HOWARD	
2016	2/24/2016	19:12	1	0	0	0	0.000	0.000	38.2259	-76.6354	38.2395	-76.625	6.55	75	1	ST. MARY'S	
2016	6/21/2016	13:29	2	0	0	0	0.000	0.000	39.3314	-77.1119	39.2656	-76.8913	12.64	500	1	HOWARD	
2016	8/1/2016	16:40	3	0	0	0	0.075	0.000	38.34	-75.09	38.39	-75.06	3.82	50	1	3	WORCESTER
2017	2/25/2017	15:06	1	1	0	0	0.000	0.000	38.5551	-76.9841	38.6275	-76.8583	8.44	125	1	4	CHARLES
2017	6/19/2017	15:49	2	0	0	0	0.000	0.000	39.0274	-77.0176	39.0284	-77.0138	0.22	100	1		MONTGOMERY
2017	7/24/2017	1:23	3	2	1	0	0.000	0.000	38.9637	-76.3485	38.9778	-76.3104	2.37	150	1		QUEEN ANNE'S
2017	8/7/2017	13:40	4	1	0	0	0.750	0.000	38.3408	-75.6066	38.3575	-75.5899	1.47	150	1		WICOMICO
2018	11/2/2018	20:19	1	2	0	0	0.900	0.000	39.3479	-77.1713	39.4046	-77.1086	5.45	400	1	2	HOWARD/CARROLL
2018	11/2/2018	21:42	2	1	0	2	0.015	0.000	39.27	-76.5552	39.274	-76.508	2.72	150	1		BALTIMORE/BALTIMORE CITY
2019	4/15/2019	3:31	1	0	0	0	0.015	0.000	38.65	-75.76	38.6572	-75.7577	0.50	100	1	6	DORCHESTER
2019	4/26/2019	15:19	2	1	0	0	0.000	0.000	39.5647	-76.6103	39.5934	-76.5695	2.94	150	1		BALTIMORE
2019	5/23/2019	15:27	3	1	1	0	0.000	0.000	39.2072	-76.9451	39.179	-76.8484	5.53	150	1		HOWARD
2019	5/30/2019	14:48	4	0	0	0	0.022	0.000	39.383	-77.382	39.357	-77.265	6.50	75	1		FREDERICK
2019	5/30/2019	15:20	5	1	0	0	0.000	0.000	39.258	-77.027	39.248	-76.944	4.49	100	1		HOWARD
2019	6/13/2019	23:02	6	1	0	0	0.000	0.000	39.48	-75.9942	39.4988	-75.9123	4.56	580	1	CECIL	
2020	2/7/2020	7:28	1	1	0	0	0.092	0.000	39.1763	-77.4827	39.1819	-77.4633	1.11	150	1	20	MONTGOMERY
2020	2/7/2020	7:38	2	0	0	0	0.070	0.000	39.1301	-77.3464	39.1431	-77.3113	2.08	75	1		MONTGOMERY
2020	2/7/2020	7:44	3	1	0	0	0.340	0.000	39.3427	-77.2758	39.4155	-77.1917	6.74	150	1		FREDERICK
2020	2/7/2020	8:03	4	1	0	0	0.574	0.000	39.562	-77.031	39.661	-76.886	10.31	100	1		CARROLL
2020	2/7/2020	9:39	5	1	0	0	0.000	0.000	39.65	-75.82	39.65	-75.8	1.06	200	1		CECIL
2020	4/13/2020	13:47	6	1	0	0	0.300	0.000	39.6087	-77.085	39.6103	-77.0782	0.38	75	1		CARROLL
2020	4/13/2020	15:27	7	0	0	0	0.000	0.000	39.0642	-75.8548	39.0649	-75.7644	4.85	30	1		CAROLINE
2020	8/4/2020	5:55	8	2	0	0	0.230	0.000	38.4474	-75.7575	38.4636	-75.7671	1.30	150	1		WICOMICO
2020	8/4/2020	6:27	9	0	0	0	0.000	0.000	38.093	-76.365	38.114	-75.369	1.47	75	1		ST. MARY'S
2020	8/4/2020	6:32	10	1	0	0	0.000	0.000	38.174	-76.528	38.245	-76.562	5.24	100	1		ST. MARY'S
2020	8/4/2020	6:52	11	1	0	0	0.250	0.000	38.3336	-76.4782	38.3435	-76.47	0.82	175	1		CALVERT
2020	8/4/2020	7:14	12	2	0	0	0.150	0.000	38.0436	-75.3813	38.0969	-75.3983	3.80	200	1	WORCESTER	
2020	8/4/2020	7:22	13	0	0	0	0.050	0.000	38.329	-75.7318	38.3677	-75.743	2.74	100	1	WICOMICO	
2020	8/4/2020	7:33	14	1	0	0	0.000	0.000	38.615	-76.512	38.627	-76.542	3.01	100	1	CALVERT	
2020	8/4/2020	7:35	15	0	0	0	0.015	0.000	38.2929	-75.2188	38.4067	-75.2465	8.00	75	1	WORCESTER	
2020	8/4/2020	7:55	16	0	0	0	0.020	0.000	38.2627	-75.1579	38.4013	-75.1758	9.63	75	1	WORCESTER	

2024	6/5/2024	19:42	6	0	0	0	0.250	0.000	39.6100	-77.0000	39.6200	-77.0000	0.69	100	1	11	CARROLL
2024	6/5/2024	19:59	7	1	0	0	5.000	0.000	39.4259	-76.9717	39.4726	-76.9151	4.42	100	1		CARROLL
2024	6/5/2024	20:31	8	1	0	0	3.000	0.000	39.2150	-76.8220	39.2154	-76.8049	0.92	75	1		HOWARD
2024	6/5/2024	20:45	9	1	0	0	12.000	0.000	39.2348	-76.7063	39.2576	-76.6516	3.34	175	1		BALTIMORE/BALTIMORE CITY
2024	6/5/2024	21:01	10	0	0	0	0.250	0.000	39.2800	-76.5808	39.2843	-76.5751	0.43	90	1		BALTIMORE CITY
2024	6/5/2024	21:27	11	1	0	0	5.000	0.000	39.3359	-76.4156	39.3423	-76.4000	0.94	110	1	6	BALTIMORE
2025	5/16/2025	17:51	1	1	0	0	1.510	0.000	39.2796	-76.6096	39.2624	-76.5043	5.80	75	1		BALTIMORE/BALTIMORE CITY
2025	5/16/2025	18:52	2	1	0	0	0.050	0.000	38.5538	-75.8291	38.5660	-75.7020	7.00	600	2		DORCHESTER
2025	6/18/2025	14:15	3	0	0	0	0.250	0.000	39.0590	-76.7010	39.0570	-76.7000	0.10	75	1		ANNE ARUNDEL
2025	7/1/2025	19:45	4	0	0	0	Unknown	Unknown	38.2550	-76.6280	38.2540	-76.6260	0.10	75	1		ST. MARY'S
2025	7/1/2025	19:45	5	1	0	0	0.250	0.000	38.2590	-76.6720	38.2640	-76.6550	1.00	100	1	13	ST. MARY'S
2025	7/31/2025	14:46	6	0	0	0	0.100	0.000	38.9750	-76.4810	38.9760	-76.4790	0.13	25	1		ANNE ARUNDEL
2026	3/11/2026	19:06	1	1	0	0	0.200	0.000	39.3333	-77.0004	39.3366	-76.9870	0.75	100	1		HOWARD
2026	3/11/2026	19:14	2	0	0	0	0.050	0.000	39.3570	-76.8930	39.3570	-76.8900	0.26	75	1		CARROLL
2026	3/16/2026	12:02	3	0	0	0	0.250	0.000	39.5361	-77.1298	39.5574	-77.1146	1.68	150	1		CARROLL
2026	3/16/2026	22:26	4	1	0	0	0.000	0.000	38.9086	-75.8742	38.9195	-75.8641	0.90	250	1	13	CAROLINE
2026	6/22/2026	19:02	5	0	0	0	0.100	N/A	38.4710	-76.5980	38.4700	-76.5740	1.30	75	1		CALVERT
2026	7/18/2026	18:30	6	0	0	0	???	???	38.6530	-75.8370	38.6580	-75.8330	0.45	50	1		DORCHESTER
2026	7/28/2026	18:04	7	0	0	0	???	???	39.1736	-76.5256	39.1584	-76.5225	1.10	90	1		ANNE ARUNDEL
2026	7/28/2026	18:12	8	1	0	0	???	???	38.6719	-76.0602	38.6734	-76.0592	0.15	30	1		TALBOT
2026	7/28/2026	18:15	9	1	0	0	???	???	39.0941	-76.4699	39.0461	-76.4338	3.90	200	1	13	ANNE ARUNDEL
2026	7/28/2026	18:17	10	1	0	0	???	???	39.0546	-76.4648	39.0564	-76.4592	0.50	75	1		ANNE ARUNDEL
2026	7/28/2026	18:18	11	0	0	0	???	???	38.6786	-76.0519	38.6792	-76.0456	0.34	30	1		TALBOT
2026	8/10/2026	16:39	12	0	0	0	???	???	39.2560	-76.5500	39.2660	-76.5170	1.90	90	1		BALTIMORE/BALTIMORE CITY
2026	8/20/2026	17:41	13	1	0	0	???	???	39.1479	-75.9016	39.1490	-75.8910	0.50	65	1		QUEEN ANNE'S
Year of Occurrence	Date	Beginning Time	State	F/EF-Scale	Injuries	Fatalities	Property Damage	Estimated Crop	Starting	Starting	Ending	Ending	Path Length	Width in	Number of	Total	Counties Affected

PRELIMINARY Data for 2026 through 9/21/2026, Updated 9/22/2026

DATA SOURCE: 1) NOAA's National Weather Service - Storm Prediction Center (SPC):

<https://www.spc.noaa.gov/wcm/>
<https://www.spc.noaa.gov/wcm/#jmc>
<https://www.spc.noaa.gov/climo/historical.html>
<https://www.spc.noaa.gov/climo/online/monthly/newm.html>
<https://www.ncei.noaa.gov/stormevents/>
<https://www.weather.gov/wrh/Climate?wfo=lxw>
<https://www.weather.gov/wrh/Climate?wfo=phi>
<https://www.weather.gov/wrh/Climate?wfo=akq>
<https://www.weather.gov/wrh/Climate?wfo=pbz>

- 2) Storm Event Database (NCEI):
3) National Weather Service - Baltimore/Washington (Sterling, VA):
4) National Weather Service - Philadelphia/Mt. Holly (PA/NJ):
5) National Weather Service - Wakefield (VA):
6) National Weather Service - Pittsburgh (PA):

DATA NOTE: A total of 439 tornadoes have been documented from 1/1/1950-8/22/2026

PROPERTY DAMAGE NOTE: Estimated Property Loss - Prior to 1996 this is the categorization of tornado damage by dollar amount:

0 or blank - unknown; 1=<\$50; 2=\$51-\$500; 3=\$501-\$5,000; 4=\$5001-\$50,000; 5=\$50,001-\$500,000; 6=\$500,001-\$5,000,000; 7=\$5,000,001-\$50,000,000; 8=\$50,000,001-\$500,000,000; 9=>\$500,000,000.

From 1996 to the present, tornado property damage is shown in millions of dollars. Entries of 0 do not necessarily mean \$0.

UPDATE: Actual Damage Estimate Values were subsequently extracted from the Storm Events Database for the two periods, 1/1979-12/1993 and 8/1994-12/1995. For the period 1/1994-7/1994, the data still follows the previous Estimated Property Loss number categorization due to the Storm Events Database not containing the 15 tornadoes that occurred in July 1994.

Regarding Estimated Property Damage, a paper entitled "When Do Losses Count? Six Fallacies of Natural Hazards Loss Data" was published in the June 2009 edition of the American Meteorological Society's BAM publication regarding the difficulties in providing accurate values:

<https://www.spc.noaa.gov/wcm/data/2008bams.pdf>

GENERAL NOTES: 1) Gray rows indicate years without any reported tornadoes.

- 2) The "State Tornado Number of Year" values are listed chronologically. The original values may be different due to re-evaluation, late reports, etc.
3) Crop damage began reporting in 2007 but research has found some earlier damage estimates and are included for those earlier years.
4) The tornado path lengths for "cross-state" occurrences are only for the Maryland portions.
5) All of the above data sources have been researched, with some having differing information, including whether original reports were revised with additional information or others having reported tornadoes that were later nullified as such. The Storm Prediction Center was previously contacted about whether their information is the standard - the reply was that the National Weather Service's surveys are what should be followed. The above table represents the best possible information that could be researched and deciphered from all official sources.
6) For the tornadoes occurring on April 16, 2011 in Frederick and Carroll Counties, the Storm Events Database shows 3 main damage segments (4 separate tornado paths with coordinates, three in Frederick County and one crossing from Frederick County into Carroll County). A subsequent National Weather Service survey combines these separate tracks into a single tornado, noting that they "were classified per NWS standards as a single tornado...but likely were caused by three distinct vortices." However, though the NWS's Storm Event Database states that they consider these 4 damage areas are from a single tornado but from different vortices, the distance between the end of the 2nd segment and the beginning of the 3rd segment is nearly 1.5 miles (the 3rd segment is ESE from the end of the 2nd segment). Due to this large distance, it's decided, for this archive, that these should be considered 2 separate events so split out segments 3 and 4 into a second tornado. Note that a separate tornado occurred on this same date in northern Carroll County, not associated with the one that crossed from Frederick County.
7) * The EF-2 tornado that struck the Annapolis area on September 1, 2021, resulting from remnants of former Hurricane Ida, caused damage along its 11.43 mile path, with touchdown in Owensville, 3 miles west of Galesville in southern Anne Arundel County, then moving northward through the western side of Annapolis. Most of the significant damage occurred in the Edgewater-to-Annapolis portion. As of 9/23/2026, property damage value has yet to be provided as both the Storm Report and Storm Prediction Center databases continue to show \$0.00 losses. If this event's damage estimate is eventually provided, it will be added to this table. Per an AI search: There is no single official total dollar figure for the property damage from the EF-2 tornado that hit Annapolis on September 1, 2021, though local business owners and officials noted it caused millions of dollars in damages. City of Annapolis Totals: 3 buildings destroyed, 24 structures condemned, 26 structures with major damage, 49 structures with minor damage. Displacement & Power: 38 people were displaced in Annapolis, and thousands of buildings lost power across Anne Arundel County. Surrounding Areas: Over 100 homes suffered severe damage in neighboring Edgewater.
8) On July 1, 2025, severe weather affected southern Maryland, with tornadic activity in St. Mary's County. A preliminary National Weather Service Damage Survey was issued on July 2, 2025 for the EF-0 Beauvee Tornado Event. On July 11, 2025, a second NWS Damage Survey for July 1, 2025 was issued for the EF-1 Breton Bay Tornado Event. At first, it appeared to be an update of the original Beauvee tornado. An email was sent to NWS-Sterling asking if these were two tornadoes or if this new Damage Survey was simply an update to the original survey - no response has ever been received. The NWS Storm Events data now only lists the EF-1 and that survey mentions, "The tornado took a path directly along the water-land interface, becoming a waterspout on the coves along Breton Bay, then returning ashore as a tornado," yet the Storm Event database doesn't list any waterspouts. When geopositioning the two tornado track survey coordinates, it appears the beginning and ending coordinates are sufficiently different to include them as separate tornadoes and this archive was been updated to reflect this. Should this information be revised, it will be updated in this archive.

Fujita Scale		Enhanced Fujita Scale	
F-0	40-72 mph winds	EF-0	65-85 mph winds
F-1	73-112 mph	EF-1	86-110 mph
F-2	113-157 mph	EF-2	111-135 mph
F-3	158-206 mph	EF-3	136-165 mph
F-4	207-260 mph	EF-4	166-200 mph
F-5	261-318 mph	EF-5	>200 mph

The previous F-Scale was used from January 1950-December 2006, the current EF-Scale was implemented in January 2007.