

Appendix H Hazard Events from 1950 - 2020

Table H-1 Recorded Temperature Extremes in Bucks County and Surrounding Region (NOAA NCEI, 2021)

DATE	EVENT	TEMPERATURE (WIND CHILL)	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
06/13/1994	Heat Waves	97°F	5	0	0	0
07/06/1994	Heat Wave	98°F	10	0	0	0
11/01/1994	Unseasonably Warm	48°F	0	0	0	0
12/01/1994	Unseasonably Warm	37.6°F	0	0	0	0
01/01/1995	Unseasonably Warm	Unknown	0	0	0	0
01/14/1995	Record Warmth	69°F	0	0	0	0
02/06/1995	Extreme Cold	5°F	1	0	0	0
05/01/1995	Unseasonably Warm	55.4°F	0	0	0	0
07/01/1995	Excessive Heat	>100°F	67	0	0	0
07/13/1995	Heat Wave	Unknown	3	0	0	0
07/23/1995	Heat Wave	Unknown	2	0	0	0
08/01/1995	Unseasonably Warm & Dry	79.5°F	29	0	0	0
08/12/1995	Heat Wave	Unknown	0	0	0	0
08/23/1995	Heat Wave	Unknown	9	0	0	0
12/09/1995	Unseasonably Cold	10°F (-10°)	2	0	0	0
02/04/1996	Extreme Cold	-10°F	0	0	0	0
05/19/1996	Excessive Heat	98°F	1	4	0	0
01/03/1997	Unseasonably Warm	64°F	0	0	0	0
01/17/1997	Extreme Cold	0°F	3	0	0	0
02/19/1997	Unseasonably Warm	69°F	0	0	0	0
02/26/1997	Unseasonably Warm	74°F	0	0	0	0

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DATE	EVENT	TEMPERATURE (WIND CHILL)	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
02/28/1997	Unseasonably Warm	35.6°F	0	0	0	0
03/01/1997	Unseasonably Warm	73°F	0	0	0	0
04/09/1997	Unseasonably Cold	28°F	0	0	0	25.0M
06/24/1997	Excessive Heat	95°F	1	0	0	0
07/12/1997	Excessive Heat	100°F	24	60	0	0
08/17/1997	Excessive Heat	98°F	2	0	0	0
01/04/1998	Unseasonably Warm	69°F	0	0	0	0
01/31/1998	Unseasonably Warm	36.5°F	0	0	0	0
02/28/1998	Unseasonably Warm	40.4°F	0	0	0	0
03/27/1998	Unseasonably Warm	88°F	0	0	0	0
06/25/1998	Excessive Heat	95°F	3	0	0	0
07/23/1998	Excessive Heat	93°F	11	75	0	0
08/22/1998	Heat Wave	92°F	0	0	0	0
09/27/1998	Unseasonably Hot	91°F	0	0	0	0
09/30/1998	Unseasonably Warm & Dry	71.8°F	0	0	0	0
11/28/1998	Unseasonably Warm	66°F	0	0	0	0
12/01/1998	Unseasonably Warm	76°F	0	0	0	0
12/31/1998	Unseasonably Warm & Dry	37.5°F	0	0	0	0
12/31/1998	Unseasonably Warm Year	58.1°F (mean)	0	0	0	0
06/07/1999	Excessive Heat	96°F	2	1	0	0

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DATE	EVENT	TEMPERATURE (WIND CHILL)	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
07/04/1999	Excessive Heat	101°F	74	135	0	0
07/16/1999	Excessive Heat	100°F	0	0	0	0
07/23/1999	Excessive Heat	101°F	4	0	0	0
07/37/1999	Unseasonably Warm & Dry	78°F	0	0	0	0
08/07/1999	Excessive Heat	98°F	5	0	0	0
08/31/1999	Unseasonably Warm	77.1°F	0	0	0	0
11/30/1999	Unseasonably Warm	50.9°F	0	0	0	0
01/02/2000	Unseasonably Warm	63°F	0	0	0	0
02/08/2000	Unseasonably Warm	79°F	0	0	0	0
02/31/2000	Unseasonably Warm & Wet	44.2°F	0	0	0	0
05/02/2001	Unseasonably Hot	92°F	0	0	0	0
06/26/2001	Excessive Heat	96°F	2	0	0	0
07/01/2001	Excessive Heat	91°F	1	0	0	0
07/24/2001	Excessive Heat	94°F	2	0	0	0
08/26/2001	Excessive Heat	99°F	22	0	0	0
11/30/2001	Unseasonably Warm	47.0°F	0	0	0	0
12/01/2001	Unseasonably Warm	72°F	0	0	0	0
12/31/2001	Unseasonably Warm	38.2°F	0	0	0	0
01/27/2002	Unseasonably Warm	69°F	0	0	0	0
02/28/2002	Unseasonably Warm	37.2°F	0	0	0	0

Table H-1 Recorded Temperature Extremes in Bucks County and Surrounding Region (NOAA NCEI, 2021)

DATE	EVENT	TEMPERATURE (WIND CHILL)	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
06/24/2002	Excessive Heat	95°F	4	0	0	0
07/01/2002	Excessive Heat	98°F	15	0	0	0
07/15/2002	Excessive Heat	96°F	2	0	0	0
07/28/2002	Excessive Heat	95°F	3	0	0	0
08/01/2002	Excessive Heat	102°F	9	0	0	0
08/11/2002	Excessive Heat	98°F	8	0	0	0
01/14/2003	Extreme Cold/wind chill	6°F	4	0	0	0
06/23/2003	Excessive Heat	93°F	3	0	0	0
07/04/2003	Excessive Heat	92°F	4	0	0	0
01/09/2004	Extreme Cold/wind chill	-2°F	2	0	0	0
01/15/2004	Extreme Cold/wind chill	1°F	1	0	0	0
12/20/2004	Extreme Cold/wind chill	3°F	0	0	0	0
01/18/2005	Extreme Cold/wind chill	-10°F	2	1	0	0
01/23/2005	Extreme Cold/wind chill	-3°F	10	0	0	0
01/28/2005	Extreme Cold/wind chill	-6°F	0	0	0	0
06/13/2005	Excessive Heat	92°F	3	0	0	0

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DATE	EVENT	TEMPERATURE (WIND CHILL)	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
07/18/2005	Excessive Heat	92°F	6	0	0	0
07/25/2005	Excessive Heat	96°F	7	0	0	0
08/02/2005	Excessive Heat	95°F	5	0	0	0
08/11/2005	Excessive Heat	96°F	2	0	0	0
07/16/2006	Excessive Heat	98°F	3	0	0	0
08/01/2006	Excessive Heat	105°F	24	40	0	0
02/15/2007	Cold/wind chill	4°F	0	0	0	0
02/16/2007	Cold/wind chill	4°F	0	0	0	0
02/19/2007	Cold/wind chill	6°F	0	0	0	0
07/08/2007	Excessive Heat	95°F	0	0	0	0
08/07/2007	Excessive Heat	96°F	0	0	0	0
04/25/2009	Heat	93°F	0	0	0	0
07/01/2009	Heat	86°F	1	0	0	0
08/10/2009	Excessive Heat	103°F	0	0	0	0
08/16/2009	Heat	95°F	0	0	0	0
06/23/2010	Excessive Heat	94°F	0	0	0	0
07/16/2010	Excessive Heat	90°F	0	0	0	0
7/6/2013	Excessive Heat	95°F	0	0	0	0
7/15/2013	Excessive Heat	95°F	0	0	0	0
7/18/2013	Excessive Heat	95°F	0	0	0	0
9/11/2013	Heat	91°F	0	0	0	0

Table H-1 Recorded Temperature Extremes in Bucks County and Surrounding Region (NOAA NCEI, 2021)

DATE	EVENT	TEMPERATURE (WIND CHILL)	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
1/4/2014	Extreme Cold/Wind Chill	-2°F	0	0	0	0
1/7/2014	Cold/Wind Chill	-22°F (with wind chill)	0	0	0	0
1/22/2014	Cold/Wind Chill	-15°F (with wind chill)	0	0	0	0
6/17/2014	Heat	94°F	0	0	0	0
7/2/2014	Heat	96°F	0	0	0	0
1/7/2015	Cold/Wind Chill	-11°F (with wind chill)	0	0	0	0
2/13/2015	Cold/Wind Chill	4°F	0	0	0	0
2/15/2015	Cold/Wind Chill	-20°F (with wind chill)	0	0	0	0
2/19/2015	Cold/Wind Chill	-23°F (with wind chill)	0	0	0	0
2/24/2015	Cold/Wind Chill	-5°F	0	0	0	0
2/14/2016	Cold/Wind Chill	-4°F	0	0	0	0
7/6/2016	Excessive Heat	95°F	3	0	0	0
7/15/2016	Excessive Heat	95°F	1	0	0	0
8/11/2016	Excessive Heat	92°F	6	0	0	0
6/13/2017	Excessive Heat	99°F	0	7	0	0
7/13/2017	Excessive Heat	101°F	0	0	0	0
7/1/2018	Excessive Heat	110°F	0	0	0	0
7/5/2018	Excessive Heat	110°F	1	0	0	0

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
11/28/1993	Multiple Counties. Flood/Flash Flood - A slow-moving storm caused widespread heavy rains and flooding across many counties in Pennsylvania.	None Reported
12/14/1993	Bucks, Delaware, and Philadelphia Counties. Tidal Flood - A deep low pressure area combined with the effect of a new moon caused the highest tides of the month and flooding along the Delaware River.	None Reported
8/22/1994	Langhorne. Flood/Flash Flood - 3.8 inches of rain in 24 hours caused flooding of the Neshaminy Creek.	None Reported
3/9/1995	Countywide. Flood/Flash Flood - No details provided.	None Reported
7/17/1995	Lower half of County. Flood/Flash Flood - Thunderstorm caused 5.25 inches of rain to fall in Doylestown; flash flooding caused roadway flooding in storm area.	None Reported
11/12/1995	Countywide. Flood/Flash Flood - Storm dropped 1.75 inches of rain, causing the flash flooding of creeks throughout the County and the Neshaminy Creek to reach flood stage.	None Reported
1/19/1996	Multiple Counties. Flood/Flash Flood - Snowmelt due to unseasonably warm weather combined with one to two inches of rain for flash flood and continued flooding.	None Reported
1/27/1996	Multiple Counties. Flood/Flash Flood - Between 1 and 1.5 inches of rain caused flooding countywide and forced multiple road closures	None Reported
6/12/1996	Southern Portion of the County. Flash Flood - Nearly stationary thunderstorms brought 3-11.5 inches of rain within four hours to southeast Bucks County, leading to a state of emergency.	\$14,500,000
7/31/1996	Southern Portion of the County. Flash Flood - Thunderstorms with very heavy rain caused roadway flooding and small stream flooding.	None Reported
9/8/1996	Southern Portion of the County. Flash Flood - Rainfall caused urban and poor drainage flooding as well as small creek flooding.	None Reported
11/8/1996	Countywide. Flash Flood - Rainfall of about 2 inches caused flooding in small stream, complicated by fallen trees and leaves clogging basins and streams.	None Reported
10/19/1996	Countywide. Flash Flood - Heavy rain caused flooded basements, evacuations, and road washouts.	None Reported
12/2/1996	Countywide. Flash Flood - Heavy rain caused flooding on smaller streams as well as urban flooding in Bucks County.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
12/14/1996	Multiple Counties. Flood - Heavy rain associated with a slow-moving low pressure system near Delaware caused flooding in larger streams and rivers in Southeast Pennsylvania.	None Reported
4/2/1998	Countywide. Flood - A series of thunderstorms with heavy rain caused considerable urban and poor drainage flooding.	None Reported
5/12/1998	Multiple Counties. Tidal Flooding - Continuous rain, onshore flow up the Delaware Bay, and high astronomical tides produced widespread minor flooding at high tide along the Delaware River.	None Reported
9/17/1998	Countywide. Urban and Small Stream Flooding - A weak low pressure system produced heavy rain. Recent dry weather limited flooding to urban and small stream areas.	None Reported
1/3/1999	Multiple Counties. Tidal Flooding - Runoff from heavy precipitation and higher than normal tides caused minor flooding along the Delaware River and its tidal tributaries.	None Reported
3/22/1999	Countywide. Flood - Heavy rain affected all of the Lehigh Valley and Southeastern Pennsylvania, causing flooding throughout Bucks County.	None Reported
5/24/1999	Lower Bucks County. Flash Flood - A pair of thunderstorms brought very heavy downpours across lower Bucks County with an average of 2-3 inches falling within 2 hours.	None Reported
8/14/1999	Lower Bucks County. Flood - A series of thunderstorms caused urban and poor drainage flooding as well as flash flooding of small streams in Lower Bucks County, especially from Southampton to Yardley.	None Reported
9/16/1999	Multiple Counties. Tidal Flooding, Flash Flood - Hurricane Floyd caused heavy rain resulting in tidal flooding, flash flooding, utility interruptions, transportation disruptions, injuries, and deaths across Eastern Pennsylvania.	\$22,000,000
7/30/2000	Southern Bucks County. Flood - Thunderstorms with torrential downpours caused flash flooding of the Mill Creek Basin, leading to significant structure damage, bridge washouts, and road closures.	\$5,000,000
9/19/2000	Warrington. Flood - Heavy rain caused by the remnants of what was Hurricane Gordon caused poor drainage flooding in low-lying areas.	None Reported
12/17/2000	Countywide. Flood - Showers and thunderstorms caused urban and poor drainage flooding as well as flooding in major streams and rivers.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
6/16/2001	Southern Portion of the County. Flood - Tropical Storm Allison drenched the southern half of the County with up to ten inches of rain.	\$1,500,000
8/4/2001	Croyden. Flash Flood - Slow moving thunderstorms with torrential downpours produced urban and flash flooding in and around Bristol Township.	None Reported
8/11/2001	Woodside. Flash Flood - Thunderstorms with torrential rains caused flash flooding of Rock Run in Lower Makefield and Yardley.	None Reported
11/17/2002	Dublin. Flood - A Northeaster produced steady, heavy rain across Southeast Pennsylvania.	None Reported
2/22/2003	Southern Portion of the County. Flash Flood - The combination of heavy rain and melting snow caused widespread roadway flooding and ponding in poor drainage areas; the Neshaminy Creek experienced ice jams.	None Reported
6/4/2003	Countywide. Flood - Two separate surges of heavy rain caused urban and poor drainage flooding and flooding on the Neshaminy and East Branch of the Perkiomen Creeks.	None Reported
7/22/2003	Countywide. Flash Flood - Two evenings of thunderstorms in a row caused flash flooding in upper Bucks County. Flooding was worst at Riegelsville.	None Reported
9/15/2003	Northwest Portion of the County. Flash Flood - Remnants of Tropical Storm Henri caused significant heavy rainfall of 3-4 inches.	None Reported
9/23/2003	Countywide. Flood - Heavy rainfall caused widespread poor drainage flooding and covered roads with 2-3 feet of water.	None Reported
9/28/2003	Central Portion. Flash Flood - Thunderstorms dropped 3-4 inches between Doylestown and Perkasio causing small stream flooding.	None Reported
10/27/2003	Countywide. Flood - Showers and thunderstorms associated with a slow moving cold front produced poor drainage flooding and stream flooding in Bucks County.	None Reported
10/29/2003	Countywide. Flood - Heavy rainfall across the county, especially in the lower portion, caused Neshaminy Creek to reach flood stage.	None Reported
11/5/2003	West Central Portion. Flash Flood - Thunderstorms caused flooding along smaller streams in the Neshaminy Creek Watershed and urban and poor drainage flooding.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
11/20/2003	Countywide. Flood - Heavy rain fell and caused poor drainage and creek flooding across the County.	None Reported
12/11/2003	Countywide. Flood - A combination of heavy rain and melting snow runoff caused widespread poor drainage flooding exacerbated by high tide, mudslides, and road closures.	None Reported
2/6/2004	Countywide. Flood - Heavy rain and snow melt caused poor drainage and creek flooding throughout the County.	None Reported
7/14/2004	New Britain. Flash Flood - Thunderstorms with heavy downpours produced stream and roadway flooding in the township.	None Reported
7/27/2004	Countywide. Flash Flood - Thunderstorms with very heavy rain caused road closures, stream flooding and vehicle rescues in two stripes across the county.	None Reported
7/28/2004	New Britain. Flash Flood - Thunderstorms with heavy downpours produced stream and roadway flooding in the township.	None Reported
8/1/2004	Penndel. Flash Flood - Thunderstorms with very heavy rain caused poor drainage and stream flooding in extreme southwest and east central Bucks County.	None Reported
9/18/2004	Countywide. Flood/Flash Flood - The remnants of Hurricane Ivan coupled with rain in the upper Delaware River Basin caused widespread poor drainage and creek flooding. Bucks County declared a disaster area.	\$1,000,000
9/28/2004	Countywide. Flash Flood - The remnants of Hurricane Jeanne caused between 3-8 inches of rain, spurring road flooding, poor drainage, and small creek flooding.	None Reported
11/28/2004	Countywide. Flood - A strong cold front and a prolonged flow from the Gulf of Mexico and nearby Atlantic Ocean produced heavy rain across Bucks County. Storm totals of 2 to 3 inches produced widespread poor drainage flooding and creek and stream flooding.	None Reported
1/14/2005	Countywide. Flood - A slow-moving cold front dropped 1-2 inches of rain and led to urban and poor drainage flooding that and led to stream and creek flooding.	None Reported
4/3/2005	Countywide. Flood - A greater-than-50-year storm caused significant flooding, triggering widespread evacuation, road closures, and a state of emergency declaration.	None Reported
4/8/2005	Countywide. Flash Flood - Heavy rain that fell on already saturated ground caused stream flooding in northwestern Bucks County.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
10/8/2005	Northwest Portion of the County. Flash Flood - The remnants of Tropical Storm Tammy produced persistent and heavy rain across the County with storm total averages between 4-6 inches.	None Reported
12/16/2005	Langhorne. Flood - The combination of snow melt and excessive precipitation caused minor flooding along the Neshaminy Creek.	None Reported
6/28/2006	Multiple Counties. Flood/Flash Flood/Coastal Flood - Freshwater runoff from excessive precipitation combined with high astronomical tides caused moderate tidal flooding, extending inland on the tidal portions of Delaware River tributaries. At times other than high tide, major flooding occurred along the Delaware River, striking Yardley and New Hope the hardest.	\$30,000,000
6/29/2006	Southwest Portion of the County. Flash Flood - Thunderstorms with heavy rain caused poor drainage flooding and some creek flooding in southwestern Bucks County.	None Reported
7/21/2006	North Portion of the County. Flash Flood - Thunderstorms with 3-4 inches of heavy rain caused poor drainage flooding and some creek flooding in northern Bucks County.	None Reported
9/2/2006	Langhorne. Flood - The remnants of Tropical Storm Ernest and a large high pressure system over Canada produced heavy rain and strong winds in Bucks County. This caused power outages and downed trees in and around Langhorne in particular.	None Reported
11/8/2006	Quakertown to Langhorne. Flood - A slow moving low pressure system that moved from the Gulf of Mexico caused heavy rain to fall averaging between 2 and 3 inches during about a twelve hour period. The heavy rain caused urban and poor drainage flooding exacerbated by fallen leaves that clogged catch basins.	None Reported
1/1/2007	Dublin. Flood - Heavy rain caused flooding along the East Branch of the Perkiomen Creek in upper Bucks County.	None Reported
3/2/2007	Andalusia. Flood - The borough of Croydon briefly experienced some minor street flooding, with two homes being surrounded by water as the Neshaminy Creek neared flood stage. Flooding also occurred along the Neshaminy Creek at Langhorne.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
3/2/2007	Bristol. Coastal Flood - Tidal flooding along the Delaware river in Bristol pushed water onto properties immediately along the river.	None Reported
4/15/2007	Quakertown. Flood - The heavy rain caused flooding across Bucks County with the worst reported flooding along the Neshaminy Creek. Ground floor apartments, roadways, and basements flooded in floods prone areas along the creek in Bensalem, Bristol, Middletown, Hulmeville, and Northampton. Minor coastal flooding was also seen along the Delaware River.	\$1,000,000
4/27/2007	New Britain to Solebury, Langhorne. Flood/Flash Flood - Thunderstorms with heavy rain continued to repeat in a narrow band in central Bucks County, leading to road closures and multiple rescues.	\$1,000,000
6/12/2007	Southampton. Flash Flood - Thunderstorms with very heavy rain caused stream and poor drainage flooding in Upper and Lower Southampton Townships.	None Reported
10/27/2007	Langhorne. Flood - A slow moving weather pattern led to approximately 5 inches of rain falling across the County, causing small creek and poor drainage flooding.	None Reported
2/13/2008	Langhorne. Flood - Runoff from the heavy rain and melting ice caused flooding along the Neshaminy Creek. The heavy rain also caused poor drainage flooding.	None Reported
3/8/2008	Bristol. Flash Flood - Runoff from the heavy rain caused flash flooding along the East Branch of the Perkiomen Creek as well as started flooding along the Neshaminy Creek. Some minor flooding also occurred along the Delaware River in Bridgeton.	None Reported
3/20/2008	Telford to Solebury. Flash Flood - Thunderstorms with heavy rain over saturated ground caused flash flooding along roadways and smaller streams in the Philadelphia northwest suburbs.	None Reported
6/4/2008	Neshaminy to Davisville; Langhorne. Flash Flood - Thunderstorms with heavy rain caused flash flooding of smaller streams as well as poor drainage flooding across central and lower Bucks Counties.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
9/28/2008	Kinterville to Ferndale. Flash Flood - Showers and thunderstorms with heavy rain caused the flooding and washouts of a few roads in Durham and Nockamixon Townships. A large mudslide occurred across Pennsylvania State Route 611 in Durham Township and closed it. Other major roads closed in the area included Center Hill and Kintner Hill Roads.	\$750,000
12/12/2008	Newton to Langhorne. Flood - The main stem of the Neshaminy Creek flooded. The heavy rain also caused another section of the Delaware Canal wall to collapse just south of the Groundhog Lock between Raubsville and Riegelsville on the berm side of the waterway.	None Reported
5/7/2009	Erwinna Vasant Airport to Buckmanville. Flash Flood - Heavy rain from thunderstorms caused flooding across smaller creeks in central and upper Bucks County.	None Reported
6/13/2009	Bon Air to Jacksonville; Langhorne. Flash Flood - Slow moving thunderstorms with torrential downpours caused poor drainage as well as flash flooding of smaller streams and creeks including the headwaters of the Neshaminy Creek in and around Doylestown, Warwick, Warrington, and Westminster Townships in central Bucks County. Runoff from heavy rain upstream caused flooding along lower parts of the Neshaminy Creek.	None Reported
6/30/2009	Argus to Telford. Flash Flood - Thunderstorms with heavy rain caused poor drainage flooding as well as flooding of streams in the East Branch of the Perkiomen Creek basin in West Rockhill Township.	None Reported
2/2/2009	Keelersville to Springtown. Flash Flood - Thunderstorms with torrential downpours caused flash flooding of smaller streams and roadway flooding in upper Bucks County. Several roadways were closed.	None Reported
8/2/2009	Newtown. Flash Flood - Thunderstorms with torrential downpours caused poor drainage flooding as well as flooding along the Neshaminy Creek basin in lower or southern Bucks County. Doppler Radar storm total estimates reached three to four inches in the area. The Neshaminy Creek covered roads and backyards near Langhorne.	None Reported
10/24/2009	Trevose to Washington Crossing. Flash Flood - Showers and thunderstorms with heavy rain caused flash flooding of some of the smaller creeks as well as poor drainage flooding mainly in the central third of Bucks County.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
10/25/2009	Langhorne. Flood - Runoff from the heavy rain on this evening caused the Neshaminy Creek to reach flood stage. Precipitation caused flash flooding during the early evening.	None Reported
12/9/2009	Langhorne. Flood - The combination of snow melt and heavy rain caused poor drainage flooding and flooding along sections of the Neshaminy Creek.	None Reported
12/26/2009	Langhorne. Flood - The combination of melting snow and heavy rain produced field, poor drainage and stream and creek flooding in southeastern Pennsylvania throughout the Philadelphia Metropolitan Area.	None Reported
1/25/2010	Langhorne. Flood - Heavy rain that fell during the first half of the day on the 25th caused some river and poor drainage flooding in southeastern Pennsylvania. Event precipitation totals averaged 1.5 to 2 inches, but most of it fell between 6 a.m. and Noon EST.	None Reported
3/13/2010	Langhorne. Flood - Four days of rain, heaviest on the 13th, culminated in flooding across southeastern Pennsylvania. The Neshaminy Creek flooded Bridal Drive, but no homes were affected. Roadway flooding was reported from County Line to River Road in the county. Pennsylvania State Route 32 was closed due to flooding in Yardley and Solebury.	None Reported
3/10/2010	Langhorne. Flood - A series of low pressure systems that brought between two and four inches of rain from the evening of the 28th into the early morning of the 31st. Coupled with already wet conditions, this caused renewed flooding in southeastern Pennsylvania.	None Reported
10/1/2010	Quakertown to Tradesville. Flood - A series of low pressure systems that moved north along a slowly moving cold front brought heavy rain into Eastern Pennsylvania. Both Yardley and Lower Makefield closed River Road as waters from the Delaware River crept a few inches onto the roadway. Roadway flooding and closures including Erie Road were reported in Quakertown as the Tohickon Creek flooded.	None Reported
3/7/2011	LANGHORNE and RIEGELSVILLE. Flood - A slow moving cold front with waves of low pressure that developed along it brought a precipitation event that dropped between 1 and 3 inches of water equivalent over Eastern Pennsylvania. Precipitation ended briefly as snow. Snow melt contributed to the flooding which mainly affected the counties near or along the Delaware River.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
3/11/2011	LANGHORNE and RIEGELSVILLE. Flood - For the second time within a week heavy rain fell across Eastern Pennsylvania. An additional 1.5 to 5 inches of precipitation fell and caused more widespread river, stream, and poor drainage flooding including the Delaware, Lehigh, and Schuylkill Rivers. Generally minor flooding occurred on the Delaware and Schuylkill Rivers. Snowmelt in the upper reaches of the Lehigh and Delaware Basins contributed to the flooding. The worst reported damage was along the towpaths of the Delaware River in Bucks County.	\$250,000
4/16/2011	LANGHORNE. Flood - Heavy rain caused poor drainage flooding in Eastern Pennsylvania and mainly minor to moderate creek and river flooding in Southeastern Pennsylvania. Precipitation totals averaged 1.5 to 3.0 inches with the highest amounts along the interstate 95 corridor.	None Reported
8/21/2011	CORNWELLS HGTS. Flash Flood - A series of thunderstorms with heavy rain caused poor drainage and stream flash flooding in Bucks County. Event precipitation totals averaged two to three inches.	None Reported
		None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
8/27/2011 - 8/28/2011	<p>QUAKERTOWN and RIEGELSVILLE. Flash Flood - Irene produced heavy flooding rain, tropical storm force wind gusts with hundreds of thousands of outages, moderate tidal flooding along the Delaware River and one flooding related death in Eastern Pennsylvania over the weekend of August 27th and 28th. Moderate stream and river flooding occurred in the Poconos and Lehigh Valley and moderate to major river flooding occurred in southeast Pennsylvania. For many places in southeastern Pennsylvania, it was the worst creek and river flooding since Hurricane Floyd in 1999 or the remnants of Hurricane Jeanne in 2004. Flooding along non-tidal sections of the Delaware River was minor to moderate. About 500,000 PECO Energy and 420,000 Pennsylvania Power and Light customers lost power in Eastern Pennsylvania. For both utilities this ranked within the top five outages of all time. Preliminary damage estimates were around six million dollars. In addition to property damage, the winds and rains badly damaged the corn crop in southeastern Pennsylvania. The Delaware Water Gap National Recreational Area was closed through Labor Day Weekend (September 5th). Tropical storm force wind gusts overspread Eastern Pennsylvania during Irene. Among the highest wind gusts recorded during the storm, two were recorded in Bucks County: 44 mph in Newbold and 40 mph in Quakertown. During the evening of the 27th, The Southeastern Pennsylvania Transportation Authority halted all commuter rail service as multiple tornado warnings were issued, three large shelters were established in Philadelphia, and the Philadelphia International Airport was closed.</p>	\$700,000

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
9/6/2011 - 9/8/2011	TRUMBAUERSVILLE, GERYVILLE, and NESHAMINY. Flood - The remnants of Tropical Storm Lee that interacted with a stalled frontal boundary produced several days with periods of heavy rain across Eastern Pennsylvania. Event precipitation totals averaged 4 to 9 inches. The heavy rain caused widespread poor drainage flooding as well as moderate flooding along the Delaware and Schuylkill Basins and minor to moderate flooding along the Lehigh River Basin. Crests in the upper Schuylkill, Lehigh, and Delaware River Basins were higher than what occurred with Irene the previous month and the highest crests since late June of 2006 in most instances. The crests along the Delaware River were 2 to 4 feet higher than what occurred during Irene. Some of the smaller streams in southeastern Pennsylvania reached major flooding levels, but most of those crests were lower than what occurred with Irene. In addition to the freshwater flooding, moderate tidal flooding occurred along the lower Delaware River and its tributaries. In Eastern Pennsylvania, there were 22 homes and businesses that were destroyed, 201 that suffered major damage, 672 that had minor damage and 1217 others that were affected. The preliminary damage estimate for the state of Pennsylvania was five hundred million dollars.	None Reported
11/23/2011	LANGHORNE. Flood - Periods of rain, heavy at times, produced poor drainage flooding as well as minor to moderate flooding of creeks and rivers in Eastern Pennsylvania from the Lehigh Valley south through the Philadelphia Metropolitan Area. Event precipitation totals averaged two to three inches.	None Reported
12/7/2011	LANGHORNE. Flood - A protracted rain event with heavy rain caused poor drainage flooding in Eastern Pennsylvania. The heavy rain also caused minor to locally moderate river and creek flooding in Southeast Pennsylvania. Event precipitation totals averaged around two inches.	None Reported
5/15/2012	KEELERSVILLE. Flood - A weakening cold front helped trigger scattered showers and thunderstorms with heavy rain. Event precipitation totals during multiple thunderstorms reached between 2.0 and 3.5 inches and caused flash flooding and flooding of smaller streams and creeks in southeastern Pennsylvania.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
5/27/2012	SPINNERSTOWN. Flood - Series of thunderstorms with heavy rain produced poor drainage and creek flash flooding. Residual flooding in Bucks County along parts of the Perkiomen Creek as runoff went farther downstream. Doppler Radar storm total estimates reached around two inches in the upper part of the basin.	None Reported
8/1/2012	HARTSVILLE. Flash Flood - The combination of a weak cold front and a mid-level disturbance, along with an increasingly hot and humid air mass, triggered strong to severe thunderstorms, which produced heavy rain and flooding in Pennsylvania. Doppler Radar storm total estimates reached between 3 and 6 inches.	None Reported
12/21/2012	CORNWELLS HGTS. Flood - Major tidal flooding along the Delaware Bay and Delaware River. Moderate to heavy rain occurred with storm totals ranging between 1 to 3 inches. This rain resulted in poor drainage flooding as well as minor to moderate flooding of streams and creeks in Eastern Pennsylvania. In Philadelphia, the tidal flooding forced the closure of the southbound lanes of Interstate 95 at Columbus Boulevard. Columbus Boulevard/Delaware Avenue was flooded and closed in both directions between Washington and Fairmount Avenues. In Bucks County, tidal flooding affected the Radcliffe, Cedar, and Mill Street areas of Bristol Township. The high tide swamped the backyards and basements of stores in the business district along Radcliffe and Cedar Streets The Mill Street parking lot was under water as was the Landmark Wharf on Mill Street. The high tide in Philadelphia reached 10.35 feet above mean lower low water. This was the third highest tide on record. Major tidal flooding starts at 10.2 feet above mean lower low water. The high tide reached 12.13 feet above mean lower low water at Newbold Island (Bucks County). There are no established flood categories for this site. Strong winds occurred in the southeast part of the state, peak wind gusts included 55 mph in Newbold Island.	None Reported
1/31/2013	KEELERSVILLE. Flood - Heavy rain caused poor drainage flooding as well as stream and river flooding in southeastern Pennsylvania. Most of the waterway flooding was. Event totals averaged 1.5 to 3.0 inches.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
6/7/2013	LANGHORNE. Flood - The remnants of Tropical Storm Andrea moving up the Eastern Seaboard, led to waves of heavy rain and thunderstorms. Doppler radar storm total estimates ranged from around 2 to 4 inches of rain for the event across eastern Pennsylvania. Waves of heavy precipitation resulted in areas of flooding.	None Reported
6/10/2013	LANGHORNE. Flash Flood - Heavy rain that moved across southeast Pennsylvania during the day on the 10th caused renewed flooding in the area. Event precipitation totals averaged between 1.5 and 3.5 inches.	None Reported
6/27/2013	HARTSVILLE. Flood - A series of thunderstorms with very heavy rain caused flooding in the Philadelphia northwest suburbs that lasted overnight, with 2 to 3 inches in the hardest hit parts of Bucks County.	None Reported
7/13/2013	MORRISVILLE. Flood - Heavy downpours across sections of Bucks County that caused poor drainage and roadway flooding, with total estimates of 1 to 2.5 inches in sections of Bucks County.	None Reported
8/13/2013	CORNWELLS HGTS. Flash Flood - A complex of showers and thunderstorms produced both wind damage and flash flooding in southeastern Pennsylvania. Doppler Radar storm total estimates averaged 2.5 to 7.0 inches. In addition to widespread poor drainage flooding, flooding also affected sections of the Brandywine basin. Vehicle water rescues were performed in lower Bucks County. The AAA of Mid-Atlantic reported a 60 percent increase in assistance calls. Because the torrential rain coincided with the morning commute, traffic on some interstates were backed up for hours. SEPTA commuter regional rail lines experienced on average thirty minute system-wide delays through the morning. Arrival delays to Philadelphia International Airport reached 90 minutes.	None Reported
8/28/2013	QUAKERTOWN. Flash Flood - An area of rain with embedded thunderstorms caused flash flooding in upper Bucks County and brief minor flooding along the Frankford Creek.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
9/2/2013	FOUNTAINVILLE. Flash Flood - Clusters of showers and thunderstorms with torrential downpours occurred in southeast Pennsylvania This caused urban, poor drainage and small creek flash flooding. Event precipitation totals reached between 1.0 and 3.5 inches in many areas in and around the local Philadelphia area and marred traveling plans on this Labor Day.	None Reported
1/8/2014	MORRISVILLE. Flood - Ice jam flooding along the Delaware River north of the jam in Bucks County and along the Lehigh River in Northampton County before its confluence with the Delaware River.	None Reported
4/30/2014 - 5/1/2014	CORNWELLS HGTS. Flood - Very heavy rain caused widespread poor drainage, moderate to major creek flooding in Bucks County. Flooding along the Neshaminy Creek was the worst since Tropical Storm Irene on August 28, 2011. Even moderate tidal flooding occurred along the Delaware River. An apartment building along the East Branch of the Perkiomen Creek in Perkasio was evacuated because of flooding. Vehicles were stuck in flood waters in Bensalem Township. Townships reporting road closures due to flooding included Milford and New Britain. Event precipitation totals included 4.90 inches in Quakertown and Richlandtown, 4.82 inches in Warrington, 4.79 inches in Furlong, 4.57 inches in Warwick Township and 4.42 inches in Doylestown.	\$200,000
7/14/2014	EDGELY. Flash Flood - Thunderstorms with very heavy rain caused poor drainage flash flooding in Bristol Township. Numerous roadways were flooded near the Delaware River and included Radcliffe Street, Farragut Street and Wilson Street. Event precipitation totals included 2.16 inches at the Northeast Philadelphia Airport, 2.01 inches in Warrington, 1.96 inches in Newtown and 1.92 inches in Jamison.	None Reported
7/14/2014	WEST BRISTOL. Flash Flood - Thunderstorms with very heavy rain caused poor drainage flash flooding on the campus of the Lower Bucks Hospital in Bristol Township. Flood waters started to cascade from the parking lots into the hospital's staircases. No patients had to be evacuated. Event precipitation totals included 2.16 inches at the Northeast Philadelphia Airport, 2.01 inches in Warrington, 1.96 inches in Newtown and 1.92 inches in Jamison.	\$10,000

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
06/15/2015	SPRINGTOWN. Flash Flood - Slowly westward moving thunderstorms that formed along a backdoor cold front caused flash flooding in parts of Northampton and Upper Bucks Counties during the evening of the 15th. Reported event precipitation totals reached 2 to 3 inches. Doppler Radar storm total estimates exceeded 4 inches in south central Northampton County. Thunderstorms with torrential downpours caused poor drainage flooding as well as flash flooding of smaller creeks in Durham and Nockamixon Townships. Doppler Radar storm totals reached 3 to 4 inches near the Northampton County border.	None Reported
7/6/2015	SELLERSVILLE. Flash Flood - Thunderstorms with very heavy rain caused flash flooding of smaller creeks as well as flooding of roadways in Upper Bucks County from Perkasio east into Nockamixon and Tinicum Townships. Water was crossing roadways in Perkasio. One cooperative weather observer in Perkasio reported 2.05 inches of rain within two hours. Doppler Radar storm total estimates neared 4 inches farther to the east close to Lake Nockamixon.	None Reported
8/21/2015	WAMINSTER. Flash Flood - Thunderstorms with heavy downpours caused flash flooding of roadways and smaller streams in southern Bucks County. Event precipitation totals included 2.61 inches in Penndel, 2.57 inches in Langhorne, 2.55 inches in Richboro, 2.42 inches in Bensalem, and 2.32 inches in Warminster. Much of this rain fell within a very short time period of about one hour.	None Reported
7/8/2016	NEW HOPE. Flash Flood - Several roads closed due to flash flooding with some debris washed into roadways.	None Reported
7/8/2016	WASHINGTON CROSSING. Flash Flood - Several roads were closed due to flash flooding with rocks and debris washing up on to roads.	None Reported
7/25/2016	CORNWELLS HEIGHTS. Flash Flood - An underpass of interstate 95 at Station ave flooded rapidly. A SEPTA bus became stuck in the flood waters. Water also led to flooding in Cornwall Apartments.	None Reported
7/24/2017	ZION HILL. Flood - A foot of water on the road. A stalled frontal boundary was the focus for several rounds of thunderstorms that produced damaging winds and flooding in spots. Over 8,000 people lost power.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
8/3/2017	WEST BRISTOL. Flood - Several roads with water a foot or so deep in spots. A hot and humid airmass with weak boundaries led to slow moving strong to severe thunderstorms with damaging winds, hail and flooding. A few thousand people lost power.	None Reported
1/15/2018	MORRISVILLE. Flood - Several roads were closed due to minor flooding by an Ice Jam. Minor Flooding occurred along the Delaware River due to an Ice Jam. Flood stage is 20.0 feet and the river was between 19 and 20 feet throughout most of Monday. Lower Makefield twp was impacted with a few roads flooded. Roads closed included River, West Trenton, and Richard.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
4/16/2018	<p>LANGHORNE. Flood - The Neshaminy Creek At Langhorne rose above flood stage of 9.0 feet. The maximum height was 10.29 feet. A strong backdoor cold front moved from northeast to southwest across the area late Saturday afternoon April 15th into Sunday morning April 16th. Not only was there a significant drop in temperature coinciding with the passage of the front, but also a stark difference between high temperatures on Saturday and Sunday. On Saturday, high temperatures ranged from the mid-70s to mid-80s, but only made it to the mid-30s to mid-40s on Sunday. In general, there was a 40 degree temperature drop from Saturday to Sunday! The backdoor front became stationary south of the region then moved northward as a warm front Sunday night into Monday morning. Meanwhile, a strong cold front approached from the west and swept across the area Monday afternoon and evening, along with an attendant area of low pressure. This robust storm system tapped large amounts of moisture, which was lifted along the warm front as overrunning precipitation, and along the cold front as a line of showers and thunderstorms. As a result, heavy rainfall occurred across the region. A widespread 1 to 3 inches of rainfall occurred, with localized amounts over 4 inches. This lead to flooding across portions of the area. Meanwhile, it was cold enough in the higher elevations of the Southern Poconos of Northeast Pennsylvania for freezing rain on Sunday. In particular, the Pocono Mountains Airport ASOS recorded 0.19 inches of ice accretion, and there was tree damage and power outages reported in Tobyhanna Pennsylvania. Along the coast, an extended period of onshore flow occurred, beginning with east-northeast winds Saturday Night, which then shifted to the southeast on Sunday Night into Monday Morning April 16th. By Monday morning and afternoon, tidal flooding made its way up the Delaware River to Philadelphia as a result of the onshore flow.</p>	None Reported
5/27/2018	<p>FOUNTAINVILLE. Flash Flood - Numerous roads in Doylestown were flooded and impassable. The Doylestown airport received 3.75 inches of rain in 80 minutes.</p>	None Reported
5/27/2018	<p>LANGHORNE. Flash Flood - The Neshaminy Creek exceeded its flood stage at Langhorne.</p>	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
8/11/2018	SPINNERSTOWN. Flash Flood - Widespread flash flooding occurred in Milford Township. Five water rescues took place and eight individuals were evacuated from their homes. Many roads were closed due to the flooding.	None Reported
9/25/2018	STANWOOD. Flash Flood - Roadway flooding in Bensalem Township. A family was rescued from their vehicle that was trapped in flood waters on Galloway Road.	None Reported
9/25/2018	MORRISVILLE. Flash Flood - A quick 1 to 2 inches of rain fell in parts of far southeastern Pennsylvania during the late afternoon and early evening of September 25. Widespread roadway flooding in Morrisville.	None Reported
11/2/2018	TRUMBAUERSVILLE. Flash Flood - Widespread roadway flooding in Milford Township and in Trumbauersville.	None Reported
5/29/2019	CHURCHVILLE. Flash Flood - Widespread roadway flooding in Warminster Township, Upper Southampton Township and Lower Southampton Township. Many roads became impassable due to the flash flooding.	None Reported
5/29/2019	KEELERSVILLE. Flash Flood - Minor flooding occurred along the East Branch of the Perkiomen Creek at and in the vicinity of the Dublin river gauge.	None Reported
5/29/2019	CORNWELLS HEIGHTS. Flash Flood - Several water rescues took place in Bensalem Township, Bristol Township and Middletown Township.	None Reported
5/29/2019	RUSHLAND. Flash Flood - Moderate flooding occurred along the Neshaminy Creek at and in the vicinity of the Penns Park river gauge.	None Reported
5/29/2019	LEVITTOWN. Flash Flood - The local fire department pulled a male teenager out of the flood swollen Mill Creek in Middletown Township. The individual was kayaking with another male teenage when he fell out of the kayak. The victim was pulled from the creek but later died at Children's Hospital in Philadelphia. A law enforcement official indicated that the creek's high and fast moving water likely contributed to the victims death.	None Reported
6/19/2019	CROYDEN. Flash Flood - Several roadways in the Croydon section of Bristol Township were impassable. A few water rescues took place. State Road was damaged by the flood waters.	None Reported
7/6/2019	MECHANICSVILLE. Flash Flood - Heavy rain caused roadway flooding in the Lahaska area. Some roads became impassable.	None Reported

Table H-2 Flood and Flash Flood Events Impacting Bucks County from 1993-2020 (NOAA NCEI, 2021).

DATE	LOCATION & DESCRIPTION	PROPERTY DAMAGE
7/11/2019	TELFORD. Flash Flood - A water rescue took place at the intersection of Bethlehem Pike and Cherry Road in Hilltown Township.	None Reported
7/11/2019	PERKASIE. Flash Flood - Moderate flooding occurred along the East Branch of the Perkiomen Creek above Perkasio.	None Reported
7/11/2019	RICHBORO. Flash Flood - Minor flooding occurred along the Neshaminy Creek in the Penns Park area.	None Reported
10/31/2019	ZION HILL. Flash Flood - PA Route 309 was closed in Springfield Township due to flash flooding.	None Reported
7/6/2020	CORNWELLS HEIGHTS. Flash Flood - Three vehicles were submerged in flood waters on Willow Court in Bensalem Township.	None Reported
8/4/2020	KEELERSVILLE. Flash Flood - Major flooding occurred on the East Branch of the Perkiomen Creek in the Dublin and Perkasio area.	None Reported
8/4/2020	RICHBORO. Flash Flood - Moderate flooding occurred along the Neshaminy Creek in the Penns Park and Rushland area.	None Reported
8/7/2020	PERKASIE PENRIDGE AR. Flash Flood - Moderate flooding occurred along the East Branch of the Perkiomen Creek in the Perkasio and Dublin area.	None Reported
8/13/2020	CARVERSVILLE. Flash Flood - Widespread roadway flooding occurred in Buckingham Township. Several roads were closed including Mill Road, Forest Grove Road, Lower Mountain Road, PA Route 413, New Hope Road and Smith Road.	None Reported
8/13/2020	CROSS KEYS. Flash Flood - North Broad Street was closed at Sandy Ridge Drive in Doylestown due to flooding.	None Reported
"Countywide" indicates several locations in the County were affected.		

Table H-3 Previous Hail Events in Bucks County between 1950 and 2020 (NOAA NCEI, 2021)

LOCATION	DATE	MAGNITUDE (IN)	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
Countywide	7/3/1975	0.75	0	0
Countywide	7/3/1975	1.5	0	0
Countywide	11/17/1977	2	0	0
Countywide	11/17/1977	1.5	0	0
Countywide	11/17/1977	1.5	0	0
Countywide	6/19/1978	0.75	0	0
Countywide	5/26/1983	0.75	0	0
Countywide	6/16/1985	1	0	0
Countywide	6/16/1985	1	0	0
Countywide	6/24/1985	1.5	0	0
Countywide	6/24/1985	1.5	0	0
Countywide	6/16/1986	1.75	0	0
Countywide	6/13/1987	1	0	0
Countywide	7/26/1987	0.75	0	0
Countywide	9/22/1987	0.75	0	0
Countywide	9/22/1987	0.75	0	0
Countywide	9/22/1987	0.75	0	0
Countywide	9/22/1987	1.75	0	0
Countywide	5/23/1988	0.75	0	0
Chalfont	8/13/1994	0.75	0	0
New Hope	6/12/1996	1.75	0	0
Quakertown	5/1/1997	1	0	0
Bristol	5/1/1997	0.75	0	0
Bristol	5/24/1999	0.75	0	0
Quakertown	5/13/2000	2	0	0
Chalfont	5/13/2000	0.88	0	0
Levittown	5/13/2000	0.75	0	0
Chalfont	5/24/2000	0.88	0	0
Levittown	7/16/2000	0.75	0	0
Buckingham Station	5/2/2002	0.75	0	0
Warminster	5/31/2002	0.75	0	0
Southampton	5/31/2002	0.75	0	0
Langhorne	3/21/2003	2	0	0
Doylestown	5/18/2004	0.88	0	0
Milford Square	5/24/2004	1.75	0	0
Pt Pleasant	5/24/2004	1.5	0	0

Table H-3 Previous Hail Events in Bucks County between 1950 and 2020 (NOAA NCEI, 2021)

LOCATION	DATE	MAGNITUDE (IN)	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
Springtown	5/24/2004	1	0	0
Warminster	8/11/2004	1	0	0
Buckingham Station	8/4/2005	0.88	0	0
Trevose	6/29/2006	0.75	0	0
Perkasie	8/7/2006	0.75	0	0
Perkasie	8/26/2006	0.75	0	0
Warminster	8/26/2006	1	0	0
Andalusia	6/12/2007	0.88	0	0
Langhorne	6/12/2007	0.88	0	0
Ferndale	8/17/2007	1	0	0
Plumsteadville	5/31/2008	0.75	0	0
Quakertown	3/29/2009	0.88	0	0
Quakertown	6/15/2009	1.75	0	0
Morrisville	7/16/2009	1	0	0
Ferndale	7/26/2009	1.5	0	400,000
Ferndale	5/27/2010	0.75	0	0
Danboro	5/15/2011	1	0	0
Stoopville	6/1/2011	1	0	0
Perkasie	6/9/2011	0.75	0	0
New Britain	6/9/2011	0.75	0	0
Newtown	8/18/2011	1	0	0
Furlong	8/18/2011	0.75	0	0
Trevose	8/21/2011	0.88	0	0
Chalfont	5/24/2012	1	0	0
Argus	5/24/2012	1	0	0
Quakertown	5/24/2012	0.88	0	0
Dublin	6/29/2012	0.75	0	0
Warrington	7/4/2012	0.75	0	0
New Hope	7/28/2012	0.75	0	0
Washington Crossing	7/28/2012	0.88	0	0
Trumbauersville	6/19/2014	1	0	0
Springtown	8/21/2014	0.75	0	0
Jamison	6/21/2016	1	0	0
Yardley	8/18/2017	0.75	0	0
Quakertown	5/29/2019	1	0	0

Table H-3 Previous Hail Events in Bucks County between 1950 and 2020 (NOAA NCEI, 2021)

LOCATION	DATE	MAGNITUDE (IN)	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
California	5/29/2019	2	0	0
Bedminster	5/29/2019	1	0	0
Quakertown	5/29/2019	1.5	0	0
Lumberville	5/29/2019	1.75	0	0
California	5/29/2019	1	0	0
Stanwood Gardens	5/29/2019	1	0	0
Warminster	5/29/2019	0.75	0	0
Stanwood Gardens	5/29/2019	1	0	0
Langhorne Buehl Arpt	7/6/2020	0.75	0	0
Langhorne Manor	7/6/2020	0.88	0	0
Levittown	7/6/2020	1.25	0	0
Fairless Hills	7/6/2020	1	0	0
Levittown	7/6/2020	1.75	0	0
Stanwood Gardens	7/6/2020	1	0	0
Levittown	7/6/2020	1	0	0
Ottsville	7/6/2020	0.75	0	0

Table H-4 Lightning Strike Events in Bucks County (NOAA NCEI, 2021)

COUNTY	LOCATION	DATE	EVENT	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
Bucks County	Sellersville	6/12/1996	Lightning	0	0	0	0
Bucks County	Plumsteadville	7/14/1996	Lightning	0	1	0	0
Bucks County	Buckingham Valley	7/14/1996	Lightning	0	0	\$150,000	0
Bucks County	Plumsteadville	5/6/1997	Lightning	0	0	0	0
Bucks County	New Britain	5/6/1998	Lightning	0	0	0	0
Bucks County	Langhorne	5/25/1998	Lightning	0	0	0	0
Bucks County	Milford Square	9/7/1998	Lightning	0	0	\$300,000	0
Bucks County	Doylestown	4/11/1999	Lightning	0	0	0	0
Bucks County	Woodside	5/24/1999	Lightning	0	0	0	0
Bucks County	Hulmeville	5/24/1999	Lightning	0	0	0	0
Bucks County	Hulmeville	8/14/1999	Lightning	0	0	0	0
Bucks County	New Hope	8/26/1999	Lightning	0	0	0	0
Bucks County	Doylestown	5/13/2000	Lightning	0	0	0	0
Bucks County	Milford Square	10/4/2000	Lightning	0	0	\$20,000	0
Bucks County	Quakertown	10/4/2000	Lightning	0	0	\$1,000	0
Bucks County	Perkasie	6/30/2001	Lightning	0	7	\$100,000	0
Bucks County	Perkasie	6/30/2001	Lightning	0	0	0	0
Bucks County	Plumsteadville	5/2/2002	Lightning	0	0	0	0
Bucks County	Bristol	6/6/2002	Lightning	0	1	0	0
Bucks County	Bristol	7/19/2002	Lightning	0	0	0	0
Bucks County	Woodside	8/2/2002	Lightning	0	0	0	0

Table H-4 Lightning Strike Events in Bucks County (NOAA NCEI, 2021)

COUNTY	LOCATION	DATE	EVENT	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
Bucks County	Quakertown	8/13/2003	Lightning	0	0	0	0
Bucks County	Croyden	8/27/2003	Lightning	0	0	0	0
Bucks County	Bristol	8/30/2003	Lightning	0	0	\$50,000	0
Bucks County	New Hope	8/21/2004	Lightning	0	0	0	0
Bucks County	Warrington	6/29/2005	Lightning	0	0	\$250,000	0
Bucks County	Quakertown	7/1/2005	Lightning	0	0	0	0
Bucks County	Wrightstown	7/27/2005	Lightning	0	0	\$200,000	0
Bucks County	Hilltown	8/8/2005	Lightning	0	0	\$1,000	0
Bucks County	Langhorne	8/14/2005	Lightning	0	0	\$1,000	0
Bucks County	Buckingham Station	8/14/2005	Lightning	0	0	\$25,000	0
Bucks County	Buckingham Station	8/7/2006	Lightning	0	0	\$100,000	0
Bucks County	Silverdale	5/16/2007	Lightning	0	0	\$1,000	0
Bucks County	Dolington	5/21/2008	Lightning	0	0	\$25,000	0
Bucks County	Doylestown	5/31/2008	Lightning	0	0	\$10,000	0
Bucks County	Yardley Farms	7/23/2008	Lightning	0	0	\$5,000	0
Bucks County	Yardley Farms	7/23/2008	Lightning	0	2	0	0
Bucks County	Silverdale	7/27/2008	Lightning	0	0	\$100,000	0
Bucks County	Silverdale	8/18/2009	Lightning	0	0	\$10,000	0
Bucks County	Sellersville	3/14/2010	Lightning	0	0	\$10,000	0
Bucks County	Morrisville	5/31/2010	Lightning	0	0	\$10,000	0
Bucks County	Levittown	6/24/2010	Lightning	0	0	\$5,000	0

Table H-4 Lightning Strike Events in Bucks County (NOAA NCEI, 2021)

COUNTY	LOCATION	DATE	EVENT	DEATHS	INJURIES	PROPERTY DAMAGE (\$)	CROP DAMAGE (\$)
Bucks County	New Hope	7/12/2010	Lightning	0	0	\$500,000	0
Bucks County	West Bristol	5/16/2012	Lightning	0	0	\$250,000	0
Bucks County	Woodbourne	7/15/2012	Lightning	0	0	\$250,000	0
Bucks County	Wrightstown	7/28/2012	Lightning	0	0	\$5,000	0
Bucks County	Neshaminy	8/9/2012	Lightning	0	0	\$10,000	0
Bucks County	Blooming Glen	7/23/2013	Lightning	0	0	\$10,000	0
Bucks County	Brick Tavern	6/13/2014	Lightning	0	0	\$25,000	0
Bucks County	Trumbauersville	6/19/2014	Lightning	0	0	\$5,000	0
Bucks County	Trumbauersville	6/19/2014	Lightning	0	0	\$1,000	0
Bucks County	Farm School	6/19/2014	Lightning	0	0	\$2,000	0
Bucks County	Chalfont	6/19/2014	Lightning	0	0	\$100,000	0
Bucks County	Stanwood	7/2/2014	Lightning	0	0	\$500,000	0
Bucks County	Bristol Arpt	7/2/2014	Lightning	0	0	\$500,000	0
Bucks County	Doylestown	7/8/2014	Lightning	0	0	\$2,000	0
Bucks County	Newtown	7/23/2014	Lightning	0	0	\$1,000	0
Bucks County	Rockhill	7/25/2016	Lightning	0	0	\$10	0
Bucks County	Perkasie Penridge Ar	7/25/2016	Lightning	0	0	\$10	0
Bucks County	Springtown	7/25/2016	Lightning	0	0	\$10	0
Bucks County	Holland	8/7/2019	Lightning	0	0	0	0
Bucks County	Treose	8/18/2019	Lightning	0	9	0	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Countywide	7/3/1975	52	0
Countywide	11/26/1979	62	0
Countywide	7/16/1980	88	0
Countywide	7/21/1987	56	0
Countywide	10/7/1987	69	0
Countywide	8/17/1988	61	0
Countywide	8/24/1988	52	0
Countywide	6/27/1989	61	0
Countywide	8/6/1989	55	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Countywide	11/20/1989	52	0
Countywide	11/20/1989	52	0
Countywide	6/16/1991	52	0
Countywide	7/15/1992	53	0
Countywide	12/11/1992	66	0
Southeast	6/29/1994	52	0
Northwest	4/23/1996	50	0
Richlandtown	4/30/1996	61	\$250,000
Bucksville	4/30/1996	61	\$300,000
Levittown	6/12/1996	55	0
Buckingham vly	2/22/1997	52	0
Bristol	5/6/1997	52	0
New hope	6/1/1998	50	0
Rushland	6/2/1998	50	0
Springtown	6/30/1998	57	0
Langhorne	6/30/1998	50	0
Countywide	9/7/1998	65	0
Langhorne	2/12/1999	50	0
Richlandtown	6/7/1999	50	0
Warrington	8/14/1999	52	0
Chalfont	5/18/2000	50	0
Trumbauersville	10/4/2000	57	0
Trumbauersville	4/9/2001	63	0
Woodbourne	4/9/2001	60	0
Central portion	6/30/2001	50	0
Erwinna	6/30/2001	52	0
Quakertown	6/30/2001	52	0
Countywide	7/1/2001	52	0
Bristol	7/17/2001	50	0
Croyden	8/4/2001	50	0
Richlandtown	8/10/2001	50	0
Countywide	3/10/2002	50	0
Richlandtown	4/28/2002	50	0
Yardley	4/28/2002	57	0
Warminster	5/13/2002	50	0
New britain	5/14/2002	50	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Quakertown	5/14/2002	50	0
Warrington	5/31/2002	50	0
Warminster	5/31/2002	52	0
Bristol	6/6/2002	52	0
Springtown	6/12/2002	50	0
Perkasie	6/24/2002	52	0
Hilltown	6/24/2002	56	0
Milford square	6/26/2002	50	0
Pleasant vly	6/27/2002	50	0
Countywide	6/27/2002	57	0
Hulmeville	7/19/2002	50	0
Doylestown	7/19/2002	50	0
Fricks	8/2/2002	52	0
Richlandtown	6/12/2003	50	0
Warrington	7/5/2003	50	0
Doylestown	7/22/2003	52	0
Perkasie	8/17/2003	50	0
Tullytown	8/17/2003	50	0
Doylestown	8/17/2003	50	0
Newtown	8/27/2003	56	0
Langhorne	8/30/2003	56	0
Buckingham vly	9/23/2003	52	0
Hulmeville	10/27/2003	56	0
Doylestown	5/2/2004	56	0
Pleasant vly	5/15/2004	52	0
Milford square	5/24/2004	50	0
Perkasie	6/17/2004	52	0
New hope	6/17/2004	50	0
New hope	6/25/2004	50	0
Doylestown	7/14/2004	52	0
Yardley	7/18/2004	52	0
Doylestown	7/28/2004	56	0
Dublin	8/11/2004	50	0
Levittown	8/11/2004	52	0
Yardley	8/11/2004	52	0
Chalfont	8/21/2004	52	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Ivyland	1/14/2005	50	0
Croyden	5/28/2005	56	0
Levittown	6/22/2005	50	0
Yardley	7/1/2005	56	0
Bristol	7/27/2005	52	0
Buckingham vly	8/4/2005	61	0
Solebury	8/14/2005	50	0
Newtown	2/17/2006	50	0
Perkasie	6/1/2006	50	0
Countywide	7/2/2006	52	0
Riegelsville	7/12/2006	50	0
Warminster	7/18/2006	56	0
Dublin	7/21/2006	50	0
Levittown	7/27/2006	50	0
Countywide	7/28/2006	53	0
Perkasie	8/7/2006	52	0
Quakertown	5/16/2007	52	0
Tinicum	5/27/2007	50	0
Newtown	5/27/2007	52	0
California	6/1/2007	61	0
Buckingham station	6/8/2007	52	0
Woodbourne	6/12/2007	56	\$100,000
Langhorne	6/12/2007	52	0
Springtown	6/19/2007	52	0
Bristol	6/27/2007	52	0
Revere	6/28/2007	50	0
Bristol	7/18/2007	52	0
Quakertown	3/8/2008	56	\$250,000
Plumsteadville	6/10/2008	52	0
Warminster	6/10/2008	52	0
Cross keys	6/14/2008	52	0
Parktown estates	7/23/2008	50	0
New britain	7/27/2008	52	0
Perkasie	5/24/2009	52	0
Quakertown	6/15/2009	52	0
Sellersville	6/30/2009	50	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Newtown	6/30/2009	52	0
Holland	7/17/2009	56	\$25,000
Ferndale	7/26/2009	65	\$50,000
Telford	7/29/2009	52	0
Warminster	8/2/2009	50	0
Davisville	10/24/2009	50	0
Quakertown	12/3/2009	50	0
Chalfont	5/4/2010	50	0
Holland	5/4/2010	50	0
Silverdale	5/14/2010	50	0
Morrisville	5/31/2010	52	0
Woodbourne	6/22/2010	56	0
Perkasie	7/21/2010	50	0
Springtown	7/25/2010	52	\$50,000
Trevose	11/17/2010	52	0
Woodbourne	11/17/2010	50	0
Newtown	11/17/2010	56	\$100,000
Pleasant vly	4/28/2011	50	0
Danboro	5/15/2011	52	\$5,000
Stanwood	6/9/2011	52	\$10,000
Tradesville	6/22/2011	52	\$25,000
Perkasie	7/3/2011	52	0
Morrisville	7/6/2011	50	0
Aquetong	7/8/2011	50	0
Newtown	8/19/2011	50	0
Trevose	8/21/2011	52	0
Stanwood	8/21/2011	50	0
Jamison	5/24/2012	50	0
Chalfont	5/24/2012	50	0
Hilltown	5/24/2012	52	0
Perkasie	5/24/2012	52	0
Sellersville	5/24/2012	52	0
Bristol	5/29/2012	50	0
Warrington	7/4/2012	50	0
Langhorne	7/7/2012	52	\$10,000
Holicong	7/15/2012	50	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Weisel	7/18/2012	52	\$10,000
Quakertown	7/26/2012	52	0
Washington crossing	7/28/2012	56	\$25,000
Langhorne buehl arpt	8/3/2012	50	0
Fairless	8/3/2012	50	0
Kingswood park	8/3/2012	50	0
Newtown	8/9/2012	52	0
Pleasant vly	9/8/2012	52	0
Perkasie penridge ar	9/8/2012	52	\$10,000
Countywide	12/21/2012	48	\$5,000
Countywide	12/22/2012	40	\$500
Countywide	12/22/2012	40	\$500
Countywide	12/26/2012	40	\$1,000
Countywide	1/31/2013	43	\$1,000
Countywide	1/31/2013	40	\$1,000
Countywide	2/17/2013	40	\$250
Countywide	3/6/2013	43	\$2,000
Pleasant vly	6/24/2013	52	0
Warminster	8/13/2013	52	0
Solebury	10/7/2013	65	\$25,000
Countywide	11/24/2013	40	\$100
Countywide	11/24/2013	40	\$100
Countywide	1/6/2014	40	\$100
Countywide	1/6/2014	40	\$100
Countywide	3/12/2014	40	\$2,000
Countywide	3/12/2014	40	\$2,000
Pleasant vly	5/22/2014	50	0
Perkasie penridge ar	5/27/2014	50	\$10,000
Chalfont	5/27/2014	50	0
Trumbauersville	6/19/2014	52	\$5,000
Bedminster	6/19/2014	56	0
Davisville	7/3/2014	52	0
Farm school	7/8/2014	52	0
Buckingham vly	7/8/2014	52	0
Cornwells hgts	7/8/2014	52	\$10,000
Tullytown	7/8/2014	52	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Countywide	7/23/2014	42	\$1,000
Countywide	1/4/2015	43	\$2,000
Countywide	2/2/2015	40	\$3,000
Countywide	2/2/2015	40	\$3,000
Countywide	2/15/2015	44	\$5,000
Countywide	2/15/2015	43	\$5,000
Doylestown	3/26/2015	43	\$100
Jacksonville	2/16/2016	50	\$5,000
Countywide	3/28/2016	43	\$8,000
Jamison	7/25/2016	52	0
Stoopville	7/25/2016	52	0
Perkasie penridge ar	7/25/2016	52	0
Solebury	7/25/2016	52	0
Pleasant vly	7/25/2016	52	0
Buckingham station	8/12/2016	52	0
New hope	8/12/2016	52	0
Countywide	2/13/2017	52	0
Countywide	2/13/2017	52	0
Tullytown	6/19/2017	52	0
Bon air	6/21/2017	52	0
Pleasant vly	6/23/2017	52	0
Silverdale	6/23/2017	52	0
Finland	7/1/2017	52	0
Bedminster	8/2/2017	52	\$10
Pleasant vly	8/2/2017	52	0
Applebachsville	8/2/2017	52	0
Tullytown	8/3/2017	52	0
Jamison	8/18/2017	52	0
Yardley	8/18/2017	52	0
Fallsington	8/18/2017	52	0
Countywide	3/2/2018	52	0
Countywide	3/2/2018	52	0
Countywide	4/4/2018	50	0
Countywide	4/4/2018	50	0
Richlandtown	11/2/2018	50	0
Countywide	2/25/2019	50	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Countywide	2/25/2019	50	0
Richlandtown	4/26/2019	52	0
Warminster	4/26/2019	61	0
Churchville	4/26/2019	52	0
Perkasie penridge ar	5/29/2019	50	0
Cross keys	5/29/2019	50	0
Sellersville	5/29/2019	50	0
Newtown	5/29/2019	61	0
Croyden	6/2/2019	50	0
Bristol	6/2/2019	50	0
Yardley farms	6/29/2019	50	0
Croyden	6/29/2019	50	0
Morrisville	6/29/2019	50	0
Buckingham station	7/6/2019	50	0
Morrisville	7/17/2019	50	0
Lumberville	7/21/2019	50	0
Richlandtown	7/22/2019	55	0
Stanwood gardens	7/22/2019	55	0
Stanwood	7/22/2019	50	0
West bristol	7/22/2019	55	0
Fairless	7/22/2019	59	0
Morrisville	7/22/2019	50	0
West bristol	7/31/2019	50	0
Tullytown	8/7/2019	55	0
Cross keys	8/7/2019	50	0
Andalusia	8/7/2019	50	0
Kintnersville	10/31/2019	50	0
Buckingham station	10/31/2019	70	0
Neshaminy	10/31/2019	95	0
Edison	10/31/2019	60	0
Warminster	10/31/2019	60	0
Solebury	10/31/2019	50	0
Rushland	10/31/2019	50	0
Buckingham station	2/7/2020	55	0
Newtown	2/7/2020	50	0
Erwinna vansant arpt	2/7/2020	55	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Croyden	2/7/2020	50	0
Bath addition	3/3/2020	50	0
Sellersville	4/9/2020	50	0
Penns park	4/9/2020	50	0
Richboro	4/9/2020	50	0
Washington crossing	4/9/2020	50	0
Trumbauersville	6/3/2020	52	0
Sellersville	6/3/2020	52	0
Fricks	6/3/2020	52	0
Chalfont	6/3/2020	56	0
Warrington	6/3/2020	52	0
Warminster	6/3/2020	52	0
Farm school	6/3/2020	56	0
Davisville	6/3/2020	52	0
Stanwood gardens	6/3/2020	52	0
Holland	6/3/2020	52	0
Holland	6/3/2020	52	0
Stanwood gardens	6/3/2020	52	0
West bristol	6/3/2020	56	0
Stanwood	6/3/2020	52	0
West bristol	7/6/2020	50	0
Stanwood	7/6/2020	50	0
Bridge vly	7/6/2020	55	0
Plumsteadville	7/6/2020	50	0
Argus	7/22/2020	50	0
Sellersville	7/22/2020	55	0
Chalfont	7/22/2020	50	0
Weisel	7/22/2020	50	0
Jamison	7/22/2020	55	0
Ottsville	7/30/2020	50	0
Kintnersville	7/30/2020	50	0
Springtown	8/2/2020	50	0
Kintnersville	8/2/2020	50	0
Yardley	8/7/2020	50	0
Riegelsville	8/27/2020	55	0
Riegelsville	8/27/2020	50	0

Table H-5 Previous windstorm events greater than 50 knots in Bucks County between 2000 and 2020 (NOAA NCEI, 2021).

LOCATION*	DATE	ESTIMATED WIND SPEED (KNOTS)	ESTIMATED PROPERTY DAMAGE (\$)
Ferndale	8/27/2020	50	0
Ferndale	8/27/2020	50	0
Finland	8/28/2020	55	0
Fricks	8/28/2020	60	0
Silverdale	8/28/2020	50	0
New britain	8/28/2020	55	0
Perkasie	8/28/2020	60	0
New britain	8/28/2020	60	0
Chalfont	8/28/2020	60	0
Richboro	8/28/2020	50	0
Furlong	8/28/2020	55	0
Richboro	8/28/2020	55	0
Buckmanville	8/28/2020	50	0
Newtown	8/28/2020	50	0
Tullytown	8/28/2020	55	0
Chalfont	8/28/2020	55	0
Steinsburg	11/15/2020	50	0
Weisel	11/15/2020	50	0
Fricks	11/15/2020	50	0
Applebachsville	11/30/2020	50	0
Chalfont	11/30/2020	50	0
Neshaminy	11/30/2020	50	0
Doylestown arpt	11/30/2020	50	0
Chalfont	11/30/2020	50	0
Mechanicsville	11/30/2020	50	0

*Location as stated on the NOAA Storm Events Database

Table H-6 List of Wildfire Events Reported in Bucks County from 2002-2013 (DCNR, 2013).

YEAR	MUNICIPALITY	ACRES BURNED	YEAR	MUNICIPALITY	ACRES BURNED
2002	Bristol Township	1.3	2006	Milford Township	0.57
2002	Bristol Township	14.8	2006	Nockamixon Township	6
2002	East Rockhill Township	0.11	2006	Nockamixon Township	2.5
2002	East Rockhill Township	0	2006	Nockamixon Township	2
2002	East Rockhill Township	0	2006	Plumstead Township	17
2002	East Rockhill Township	0	2006	Plumstead Township	17

Table H-6 List of Wildfire Events Reported in Bucks County from 2002-2013 (DCNR, 2013).

YEAR	MUNICIPALITY	ACRES BURNED	YEAR	MUNICIPALITY	ACRES BURNED
2002	Milford Township	8.5	2006	Richland Township	2
2002	Solebury Township	1.3	2006	Springfield Township	0.1
2002	Springfield Township	2.1	2006	Springfield Township	0.03
2002	Springfield Township	0.17	2006	Springfield Township	2
2003	Bedminster Township	1.2	2006	Springfield Township	0.17
2003	Milford Township	0.09	2006	Springfield Township	0.6
2003	Nockamixon Township	1.25	2007	Haycock Township	1
2003	Richland Township	0.7	2007	Plumstead Township	6
2003	Springfield Township	1.5	2007	Quakertown Borough	0.01
2003	Springfield Township	0.07	2007	Richland Township	1.2
2005	Bridgeton Township	1.2	2007	Richland Township	0.01
2005	Durham Township	0.3	2008	Haycock Township	1
2005	Haycock Township	0.3	2008	Springfield Township	0.25
2005	Richland Township	0.35	2008	Springfield Township	1.5
2005	Richland Township	0.29	2008	Springfield Township	0.12
2005	Richland Township	1	2008	Springfield Township	0.25
2005	Springfield Township	2.9	2008	Springfield Township	0.95
2005	Springfield Township	6.3	2008	Springfield Township	0.1
2005	Springfield Township	0.1	2009	Richland Township	0.25
2005	Springfield Township	0.15	2010	Buckingham Township	1
2005	West Rockhill Township	0.35	2011	Springfield Township	1.4
2006	East Rockhill Township	0.7	2012	Milford Township	1.5
2006	Haycock Township	0.8	2012	Haycock Township	2.2
2006	Haycock Township	0.8	2013	Springfield Township	0.1
2006	Hilltown Township	0.75			

Table H-7 Previous Winter Storm Events Impacting Bucks County from 2006 to 2020 (NOAA NCEI, 2021).

LOCATION	DATE	TYPE
Bucks County & parts of New Jersey	1/14/2006	Winter Weather

Table H-7 Previous Winter Storm Events Impacting Bucks County from 2006 to 2020 (NOAA NCEI, 2021).

LOCATION	DATE	TYPE
Multiple Counties	2/12/2006	Winter Storm
Bucks, Berks, & Montgomery Counties	2/27/2006	Winter Weather
Multiple Counties	3/2/2006	Winter Weather
Bucks County & Philadelphia	1/18/2007	Winter Weather
Multiple Counties	1/19/2007	Winter Weather
Bucks, Montgomery, & Northampton Counties	1/29/2007	Winter Weather
Bucks, Chester, & Montgomery Counties	2/2/2007	Winter Weather
Multiple Counties	2/25/2007	Winter Storm
Bucks & Berks Counties	3/16/2007	Winter Storm
Multiple Counties	11/18/2007	Winter Weather
Multiple Counties	12/13/2007	Ice Storm
Bucks & Monroe Counties	12/15/2007	Winter Storm
Bucks & Lehigh Counties	1/17/2007	Winter Weather
Multiple Counties	2/1/2008	Winter Weather
Bucks, Chester, & Montgomery Counties	2/12/2008	Winter Storm
Multiple Counties	2/22/2008	Winter Storm
Bucks & Lehigh Counties	2/22/2008	Winter Weather
Bucks & Lehigh Counties	2/29/2008	Winter Weather
Multiple Counties	3/1/2008	Winter Weather
Bucks & Montgomery Counties	10/28/2008	Winter Weather
Multiple Counties	12/6/2008	Winter Weather
Bucks, Berks, & Montgomery Counties	12/16/2008	Winter Weather
Multiple Counties	12/21/2008	Winter Weather
Bucks & Montgomery Counties	12/23/2008	Winter Weather
Bucks & Montgomery Counties	1/6/2009	Winter Storm
Multiple Counties	1/10/2009	Winter Weather
Multiple Counties	1/19/2009	Winter Weather
Bucks & Montgomery Counties	1/27/2009	Winter Storm
Multiple Counties	2/2/2009	Winter Weather
Berks & Bucks Counties	2/1/2009	Winter Storm
Berks & Bucks Counties	2/1/2009	Winter Weather
Multiple Counties	12/31/2009	Winter Weather
Bucks & Berks Counties	12/31/2009	Winter Weather
Bucks, Monroe, & Montgomery Counties	1/28/2010	Winter Weather
Multiple Counties	2/5/2010	Winter Storm
Bucks & Delaware Counties	2/9/2010	Winter Storm
Multiple Counties	2/15/2010	Winter Weather
Multiple Counties	2/16/2010	Winter Weather

Table H-7 Previous Winter Storm Events Impacting Bucks County from 2006 to 2020 (NOAA NCEI, 2021).

LOCATION	DATE	TYPE
Bucks & Montgomery Counties	2/25/2010	Winter Storm
Multiple Counties	11/25/2010	Winter Weather
Multiple Counties	1/7/2011	Winter Weather
Bucks & Berks Counties	1/8/2011	Winter Weather
Multiple Counties	1/11/2011	Winter Storm
Bucks, Berks & Montgomery Counties	1/17/2011	Winter Storm
Bucks, Chester & Montgomery Counties	1/21/2011	Winter Weather
Bucks & Carbon Counties	1/26/2011	Heavy Snow
Bucks & Carbon Counties	1/26/2011	Winter Storm
Bucks & Carbon Counties	1/26/2011	Winter Weather
Countywide	12/24/2012	Winter Weather
Countywide	12/26/2012	Winter Weather
Countywide	12/29/2012	Winter Weather
Countywide	1/6/2013	Winter Weather
Countywide	1/16/2013	Winter Weather
Lower Bucks (Zone)	1/21/2013	Winter Weather
Countywide	1/25/2013	Winter Weather
Countywide	1/28/2013	Winter Weather
Countywide	2/8/2013	Winter Weather
Countywide	2/11/2013	Winter Weather
Countywide	2/13/2013	Winter Weather
Countywide	3/7/2013	Winter Weather
Upper Bucks (Zone)	3/16/2013	Winter Weather
Countywide	3/18/2013	Winter Weather
Lower Bucks (Zone)	3/20/2013	Winter Weather
Upper Bucks (Zone)	3/21/2013	Winter Weather
Countywide	3/25/2013	Winter Weather
Upper Bucks (Zone)	11/26/2013	Winter Weather
Countywide	12/8/2013	Winter Weather
Countywide	12/10/2013	Heavy Snow and Winter Weather
Countywide	12/14/2013	Winter Storm
Countywide	12/17/2013	Winter Weather
Upper Bucks (Zone)	12/26/2013	Winter Weather
Countywide	1/2/2014	Heavy Snow
Countywide	1/5/2014	Winter Weather
Countywide	1/10/2014	Winter Weather
Countywide	1/21/2014	Heavy Snow
Countywide	1/25/2014	Winter Weather

Table H-7 Previous Winter Storm Events Impacting Bucks County from 2006 to 2020 (NOAA NCEI, 2021).

LOCATION	DATE	TYPE
Countywide	2/3/2014	Heavy Snow
Countywide	2/5/2014	Ice Storm
Countywide	2/9/2014	Winter Weather
Countywide	2/12/2014	Winter Storm
Upper Bucks (Zone)	2/15/2014	Winter Weather
Countywide	2/18/2014	Winter Weather
Countywide	2/19/2014	Winter Weather
Lower Bucks (Zone)	2/26/2014	Winter Weather
Lower Bucks (Zone)	3/3/2014	Winter Weather
Lower Bucks (Zone)	3/17/2014	Winter Weather
Upper Bucks (Zone)	11/13/2014	Winter Weather
Countywide	11/26/2014	Winter Weather
Upper Bucks (Zone)	12/2/2014	Winter Weather
Upper Bucks (Zone)	12/9/2014	Winter Weather
Upper Bucks (Zone)	12/11/2014	Winter Weather
Upper Bucks (Zone)	1/3/2015	Winter Weather
Lower Bucks (Zone)	1/6/2015	Winter Weather
Countywide	1/12/2015	Winter Weather
Countywide	1/18/2015	Winter Weather
Countywide	1/23/2015	Winter Storm
Countywide	1/26/2015	Winter Weather
Countywide	2/1/2015	Winter Weather
Countywide	2/9/2015	Winter Weather
Countywide	2/14/2015	Winter Weather
Countywide	2/16/2015	Heavy Snow
Countywide	2/21/2015	Winter Storm
Countywide	3/1/2015	Winter Weather
Countywide	3/3/2015	Winter Weather
Countywide	3/5/2015	Heavy Snow
Countywide	3/20/2015	Heavy Snow
Countywide	1/22/2016	Blizzard
Lower Bucks (Zone)	2/5/2016	Winter Weather
Countywide	2/15/2016	Winter Weather
Countywide	12/17/2016	Winter Weather
Countywide	1/5/2017	Winter Weather
Countywide	2/9/2017	Winter Storm and Winter Weather
Countywide	3/10/2017	Winter Weather
Countywide	3/14/2017	Winter Storm

Table H-7 Previous Winter Storm Events Impacting Bucks County from 2006 to 2020 (NOAA NCEI, 2021).

LOCATION	DATE	TYPE
Countywide	12/9/2017	Winter Weather
Lower Bucks (Zone)	1/4/2018	Winter Storm
Countywide	2/17/2018	Winter Weather
Countywide	3/2/2018	Winter Weather
Countywide	3/7/2018	Winter Storm
Countywide	3/21/2018	Winter Storm
Countywide	4/2/2018	Winter Weather
Countywide	11/15/2018	Winter Storm
Countywide	1/8/2019	Winter Weather
Upper Bucks (Zone)	1/19/2019	Winter Weather
Countywide	1/29/2019	Winter Weather
Lower Bucks (Zone)	2/10/2019	Winter Weather
Countywide	2/11/2019	Winter Weather
Countywide	2/20/2019	Winter Weather
Countywide	3/1/2019	Winter Weather
Countywide	3/3/2019	Winter Storm
Countywide	12/1/2019	Winter Weather
Countywide	12/16/2019	Winter Weather
Countywide	1/18/2020	Winter Weather
Countywide	12/16/2020	Winter Storm
Countywide	1/26/2021	Winter Weather
Countywide	1/31/2021	Winter Weather
Countywide	2/1/2021	Winter Storm
Countywide	2/7/2021	Winter Storm
Countywide	2/10/2021	Winter Weather
Countywide	2/13/2021	Winter Weather
Countywide	2/15/2021	Winter Weather
Countywide	2/18/2021	Winter Storm
Countywide	2/22/2021	Winter Weather