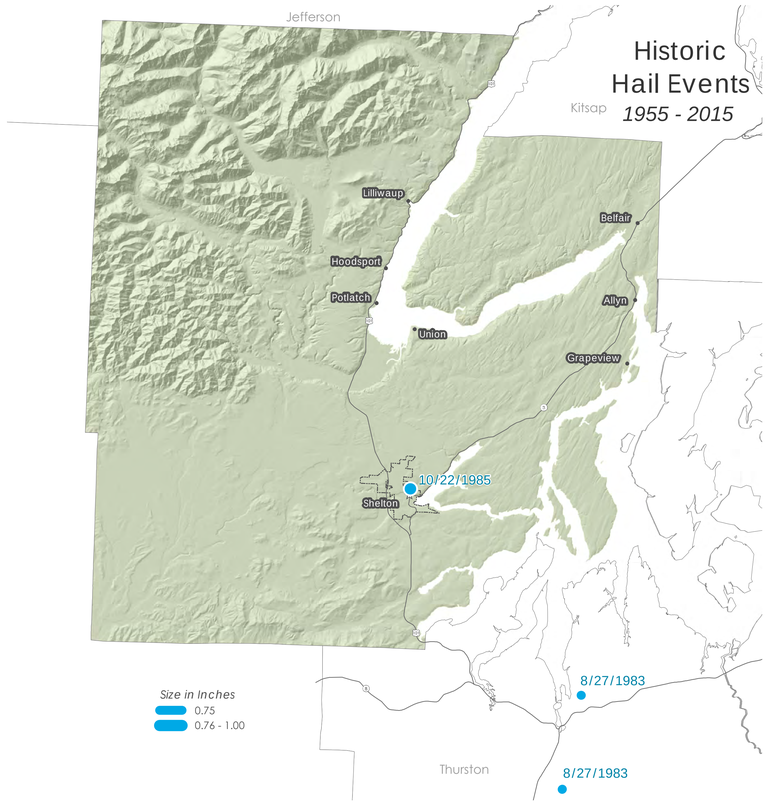
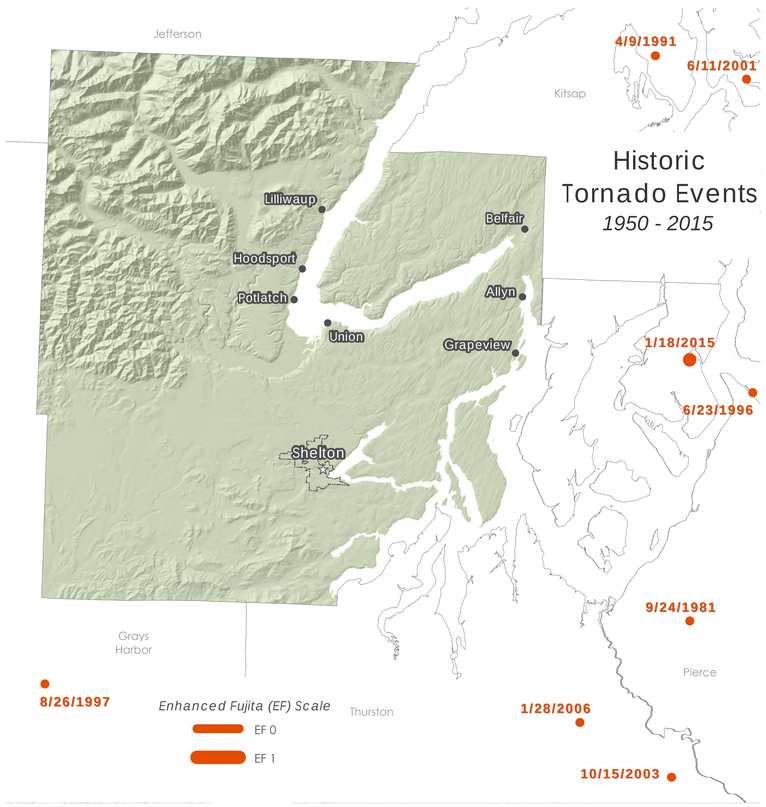
Mason County

Severe Weather Risk

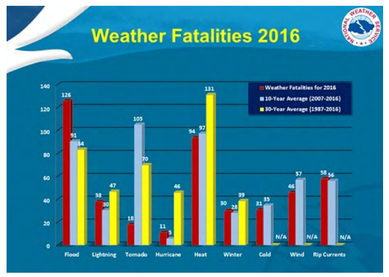




Severe Weather Events Impacting Mason County Since 1960

Date	Type	Deaths or Injuries	Property Damage
October 1962 DR 137	Wind storm	7 in Washington; 46—combined all state's impacted	$235 million in property damage; 15 billion board feet of timber valued at $750 million
Description: Most powerful non-tropical storm to impact lower 48 states. Impact felt in Washington, Oregon and California. Damaged over 50,000 buildings throughout regions impacted. Power in some areas out for 3+ weeks. Wind speeds ranged from 88 mph in Tacoma to 160 mph in Naselle, WA. FEMA datasets provide no information on actual counties declared, other than the reference to Washington Counties.			
December 1974 (Disaster #414)	(Listed as Flood) Severe storm, flooding, and snowmelt	Unknown	$5.1 million combined from all 10 affected counties*
Description: Strong winds, snowfall and flooding affected 10 counties in Washington.			
December 1975 (Disaster 492)	(Listed as Flood) Severe Storms & Flooding	Unknown	Unknown
Description: Severe storms and flooding on December 13, 1975.			
November 1990 (Disaster 883)	Severe Storms & Flooding	Unknown	Unknown
Description: Strong winds, snowfall and flooding affected 10 counties in Washington.			
January 1993 (Disaster 981*)	Severe storm and high wind	Unknown	
Description: A powerful low-pressure system swept through central Western Washington, causing great destruction, numerous injuries and the loss of five lives. Winds averaging 50 miles per hour with gusts to over 100 miles per hour caused trees to fall and knocked out power to 965,000 customers.			
November 1995 (Disaster 1079)	Flooding, severe storm, and high winds	Unknown	
Description: Heavy rains lead to flooding throughout the region.			
Dec. 1996—Jan. 1997 (Disaster 1159)	Severe winter storm, flooding, landslides and mudslides.	24 deaths statewide	Statewide: Stafford Act assistance $83 million; SBA $31.7 million; total losses $140 million statewide
Description: Saturated ground combined with snow, freezing rain, rain, rapid warming and high winds within a five-day period produced flooding and landslides. 37 counties were impacted, with large power outages throughout the impacted counties.			
October 2003 (Disaster 1499)	Severe Storm and Flooding	Unknown	Statewide losses PA >$9 million IA >$5.5 million
Description: Heavy rains, severe storms.			
January 2006 (Disaster 1641)	Severe winter storm, flood, landslide, mudslide, tidal surge	Unknown	Unknown
Description: Heavy rains			
December 2006 DR 1682	Severe winter storm, wind, landslides and mudslides	Unknown	
Description: Severe winter storm caused landslides and mudslides throughout region.			
December 2007 (Disaster 1734)	Severe storm, flooding, landslides, and mudslides	Unknown	Unknown
Description: Severe winter storm, including record and near record snowfall and heavy rains and winds.			
December 2008 (Disaster 1825)	Severe winter storm, record and near record snow	Unknown	Public Assistance to all declared counties was over $5.5 million
Description: Severe winter storm, including record and near record snowfall and heavy rains and winds.			
January 2009 (Disaster 1817)	(Listed as Flood) Severe winter storm, landslides, mudslides and flooding	Unknown	PA program only available, no IA.
Description: Severe winter storm, including heavy rains and land/mud slides.			
January 2012 (Disaster 4056)	Severe winter storm, flooding, landslides, and mudslides	Unknown	PA program only available, no IA.
Description: Severe winter storm, including heavy rains, which caused flooding, landslides and mudslides.			
November 2015 (Disaster 4249)	Severe storm, straight-line winds, flooding, landslides and mudslides	Unknown	PA program only available, no IA.
Description: Severe storm, including straight-line winds, flooding, landslides and mudslides.			
December 2015 (Disaster 4253)	(Listed as Flood) Severe winter storm, straight-line winds, flooding, landslides and mudslides	Unknown	PA program only available, no IA.
Description: Severe winter storm, including record and near record snowfall and heavy rains and winds.			

10- and 30-Year Weather Related Fatalities in the United States



Heat and Cold Impact Index for Children

Wind-Chill Factor Chart (in Fahrenheit)

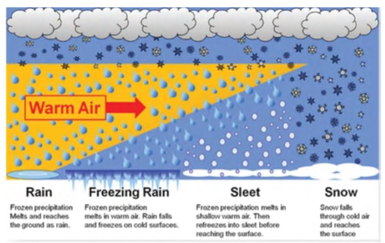
Air Temperature \ Wind Speed in mph	Calm	5	10	15	20	25	30	35	40
40	40	36	34	32	30	29	28	28	27
30	30	25	21	19	17	16	15	14	13
20	20	13	9	6	4	3	1	0	-1
10	10	1	-4	-7	-9	-11	-12	-14	-15
0	0	-11	-16	-19	-22	-24	-26	-27	-29
-10	-10	-22	-28	-32	-35	-37	-39	-41	-43

Comfortable for out door play | Caution | Danger

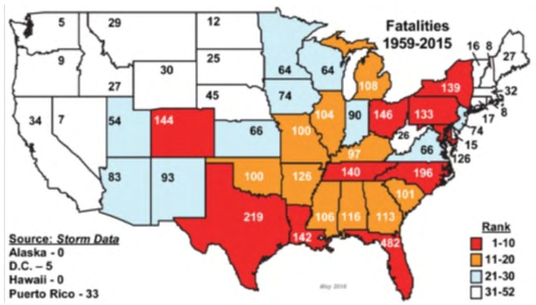
Heat Index Chart (in Fahrenheit %)

Air Temperature (F) \ Relative Humidity (Percent)	40	45	50	55	60	65	70	75	80	85	90	95	100
80	80	80	81	81	82	82	83	84	84	85	86	86	87
84	83	84	85	86	88	89	90	92	94	96	98	100	103
90	91	93	95	97	100	103	105	109	113	117	122	127	132
94	97	100	103	106	110	114	119	124	129	135			
100	109	114	118	124	129	130							
104	119	124	131	137									

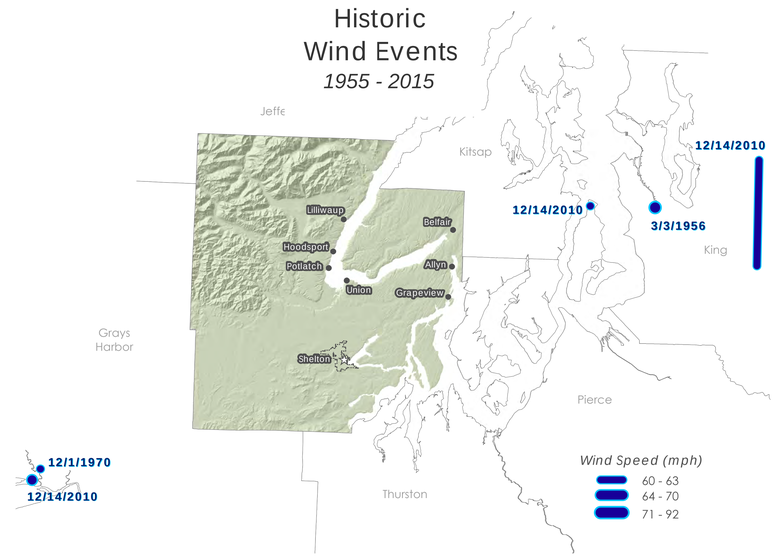
Types of Precipitation which can impact Mason County



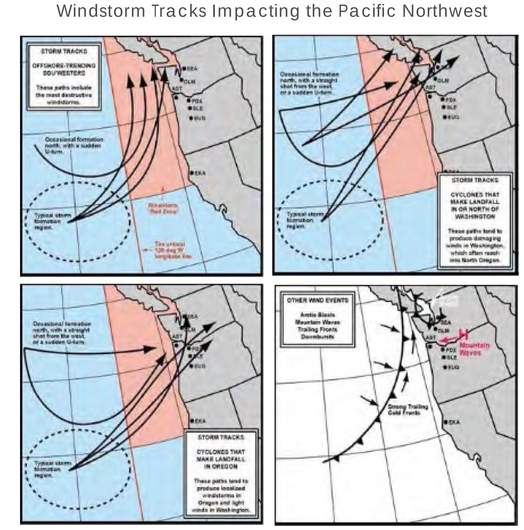
Lightening Fatalities by State 1959-2015



Historic
Wind Events
1955 - 2015



Windstorm Tracks Impacting the Pacific Northwest



BRIDGEVIEW CONSULTING

Date: July 8, 2017
Sources: Mason County GIS;
NOAA - National Weather Service
Storm Prediction Center;
http://www.spc.noaa.gov/gis/svrgis/