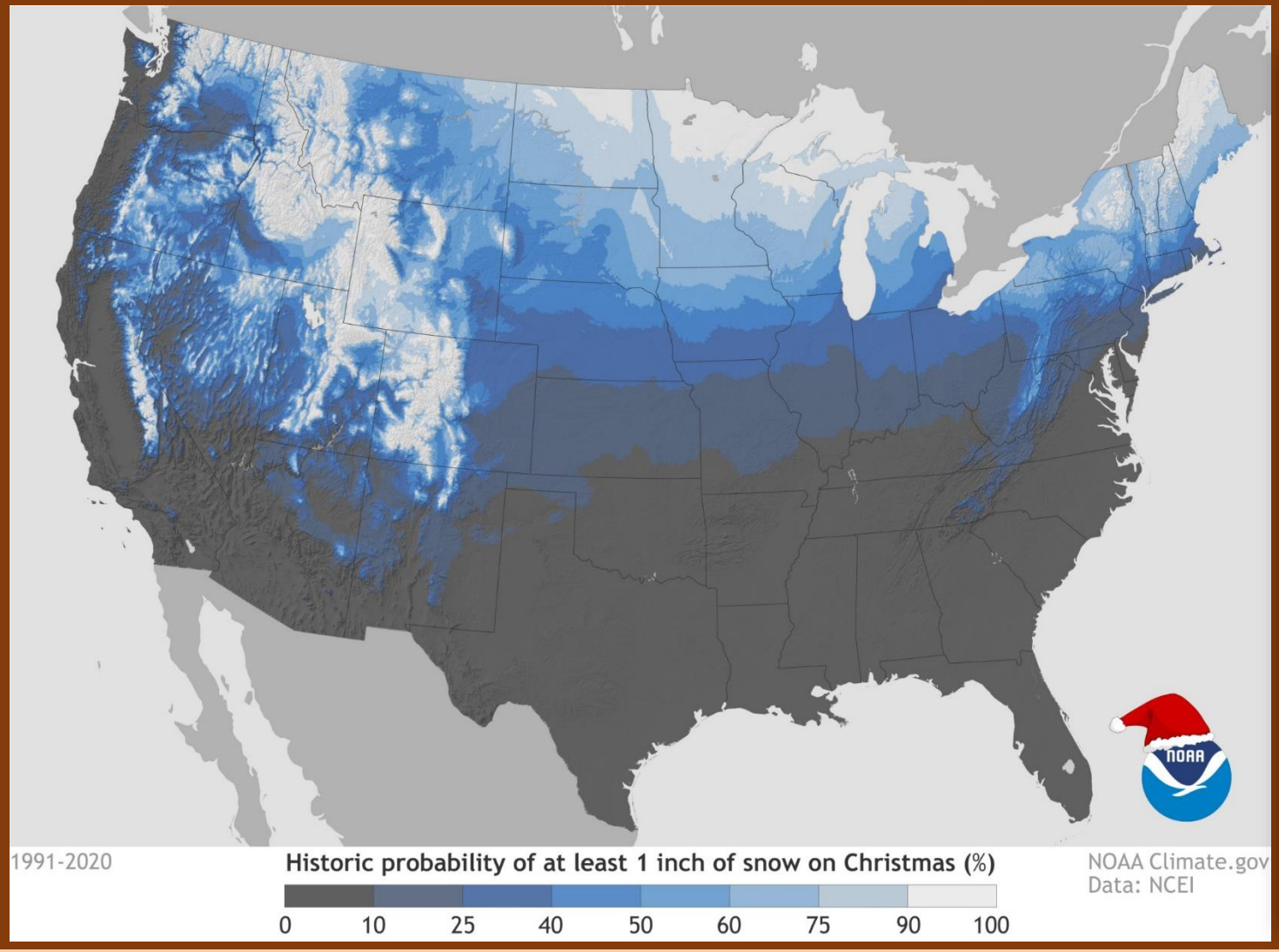
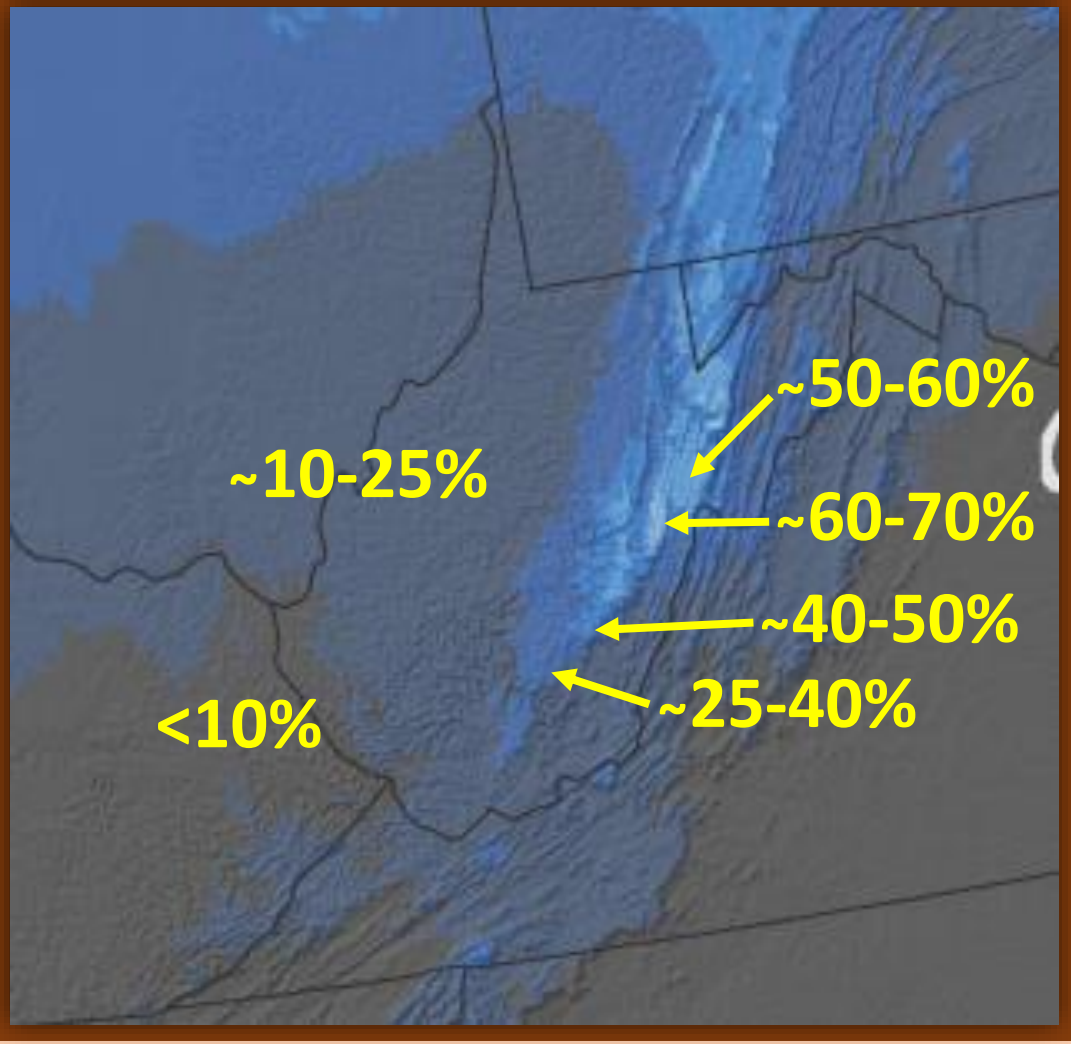
Historic Probability of a White Christmas

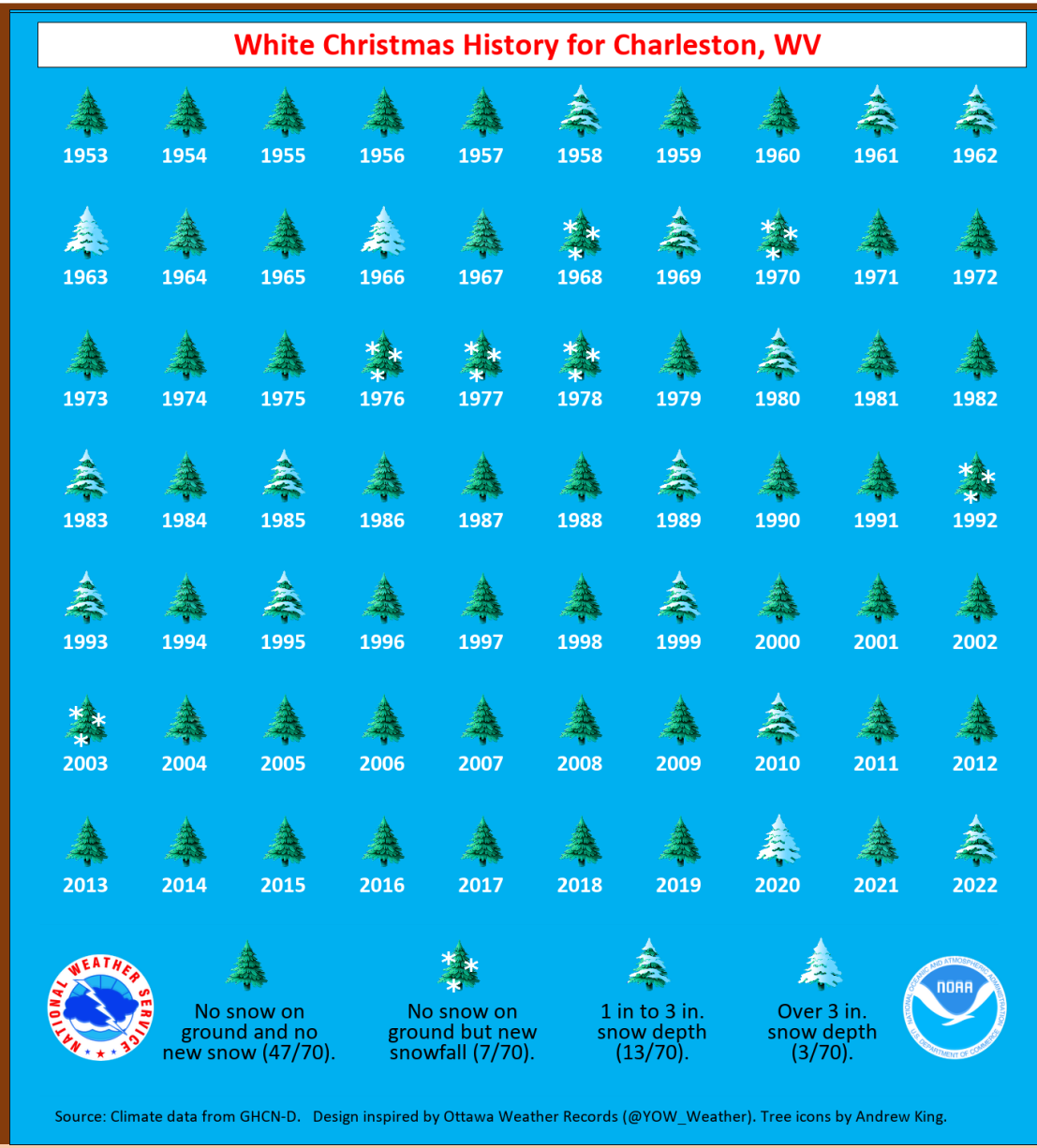
Climatological probability of at least 1” of snow being on the ground December 25 (based on the 1991-2020 U.S. Climate Normals).



Regional View – Probability of having a white Christmas is significantly higher in the mountains.



White Christmas History and Climatology for Charleston, WV



Source: Climate data from GHCN-D. Design inspired by Ottawa Weather Records (@YOW_Weather). Tree icons by Andrew King.

Charleston Christmas Day Climate Statistics		
Normal High Temperature (°F)	45	Based on the 1991-2020 U.S. Climate Normals
Normal Low Temperature (°F)	28	
Probability of a White Christmas (%)	14	
A "White Christmas" is defined as having ≥ 1” of snow on the ground.		
Extremes		
Warmest High Temperature (°F)	76 (1982)	
Coldest High Temperature (°F)	5 (1983)	
Coldest Low Temperature (°F)	-10 (1983)	
Warmest Low Temperature (°F)	52 (1982)	
Most Precipitation (Inches)	1.99 (2015)	
Most Snowfall (Inches)	4.0 (1914)	
Greatest Snow Depth (Inches)	5 (1966)	

Christmas Day Climatology for Other Locations

Christmas Day Climate Statistics ------->		Beckley	Clarksburg	Elkins	Huntington	Parkersburg	Snowshoe
Normal High Temperature (°F)	Based on the 1991-2020 U.S. Climate Normals	42	45	43	45	42	32
Normal Low Temperature (°F)		26	27	22	29	27	18
Probability of White Christmas (%)		26	21	35	9	16	60

A "White Christmas" is defined as having ≥ 1” of snow on the ground.

Extremes	Beckley	Clarksburg	Elkins	Huntington	Parkersburg	Snowshoe
Warmest High Temperature (°F)	66 (1966)	72 (1932)	68 (1982)	76 (1982)	70 (1982)	55 (2015)
Coldest High Temperature (°F)	0 (1983)	8 (1983)	-6 (1983)	4 (1983)	4 (1983)	-3 (1983)
Coldest Low Temperature (°F)	-15 (1983)	-11 (1983)	-17 (1983)	-9 (1983)	-7 (1983)	-26 (1983)
Warmest Low Temperature (°F)	55 (2015)	51 (2021)	56 (1932)	56 (1982)	58 (1982)	49 (2015)
Most Precipitation (Inches)	1.30 (1908)	1.35 (1986)	1.37 (2015)	1.71 (1987)	0.97 (1944)	2.10 (2020)
Most Snowfall (Inches)	8.0 (1914)	4.0 (2020)	7.6 (1993)	4.0 (1969)	3.2 (2020)	5.0 (2020)
Greatest Snow Depth (Inches)	13 (1963)	9 (1929)	8 (1969)	7 (2020)	5 (1963)	20 (1981)