

Impact of Significant Weather Events on Plant Death in Managed Landscapes

Boyce Tankersley

Director of Living Plant Documentation

Chicago Botanic Garden

Natalie Alvillar

Chicago Botanic Garden Veteran Intern









Extreme snow events



Protection



Blizzards

Vole
bark
girdling





Flooding



Hurricane Events



Tornado

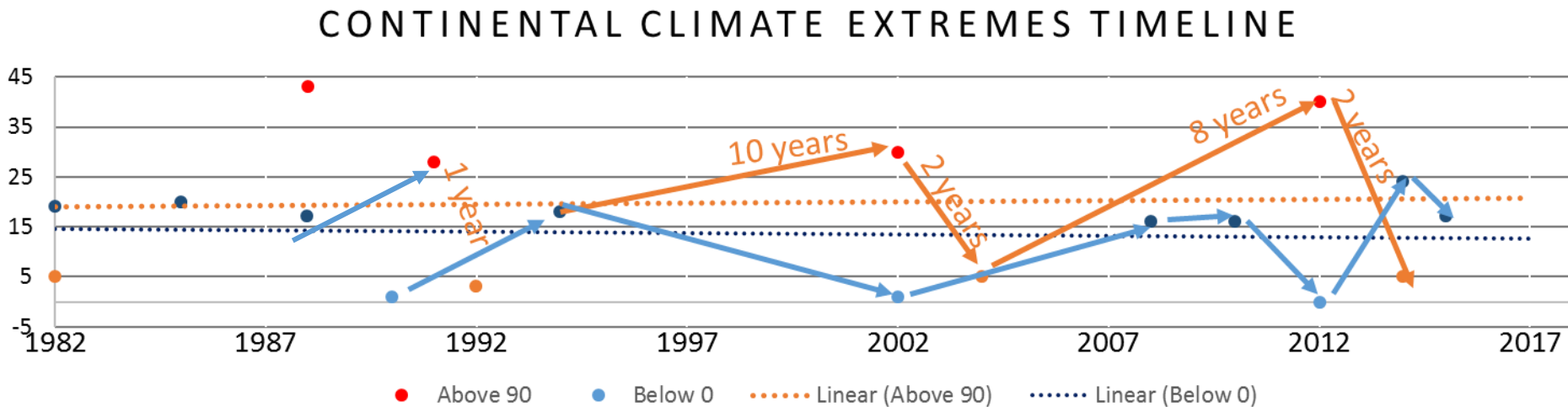
Hail



Drought

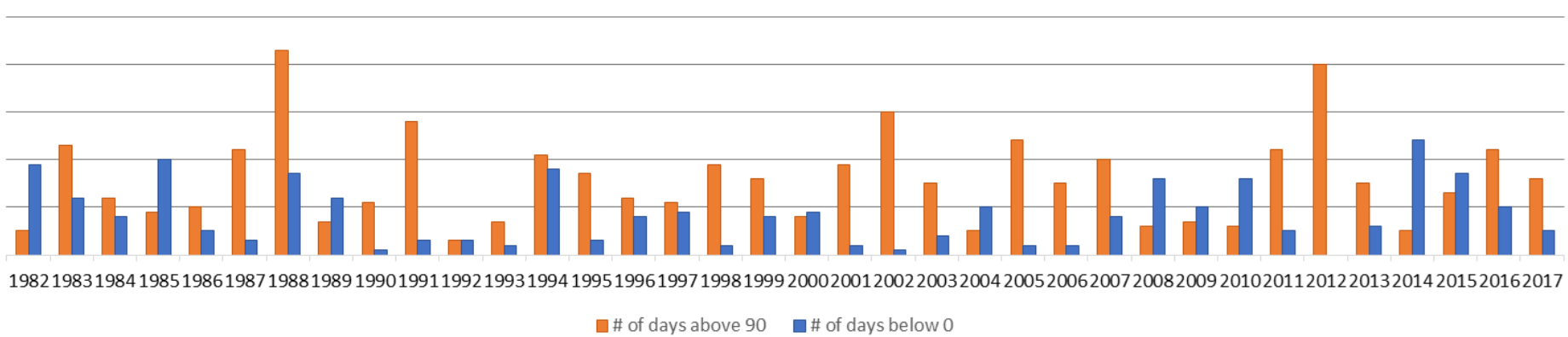


Frequency of Extreme Temperatures

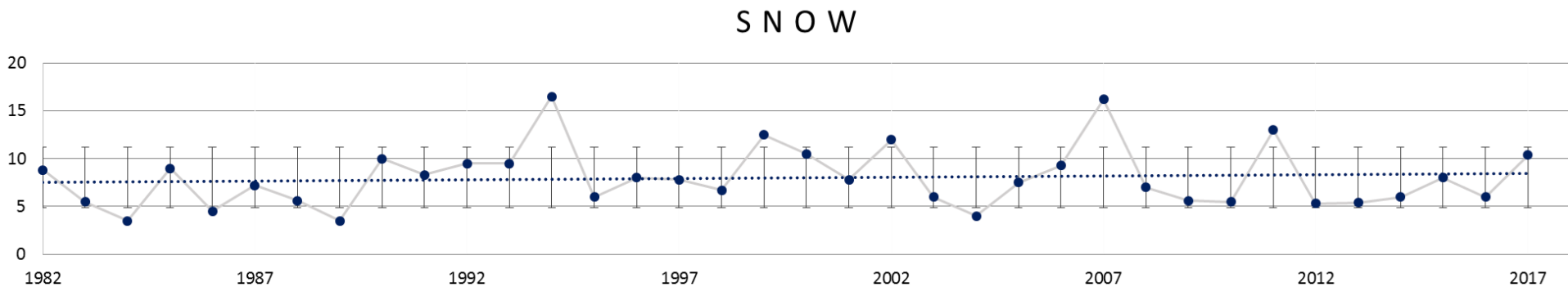


Temperature Extremes

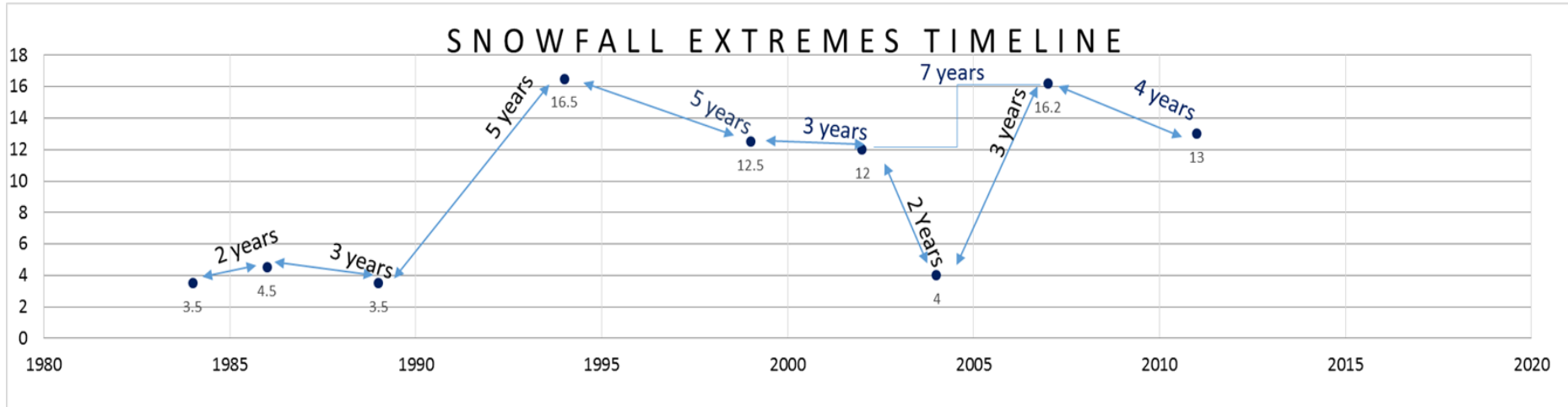
CORRELATION OF CONTINENTAL CLIMATE AVERAGES



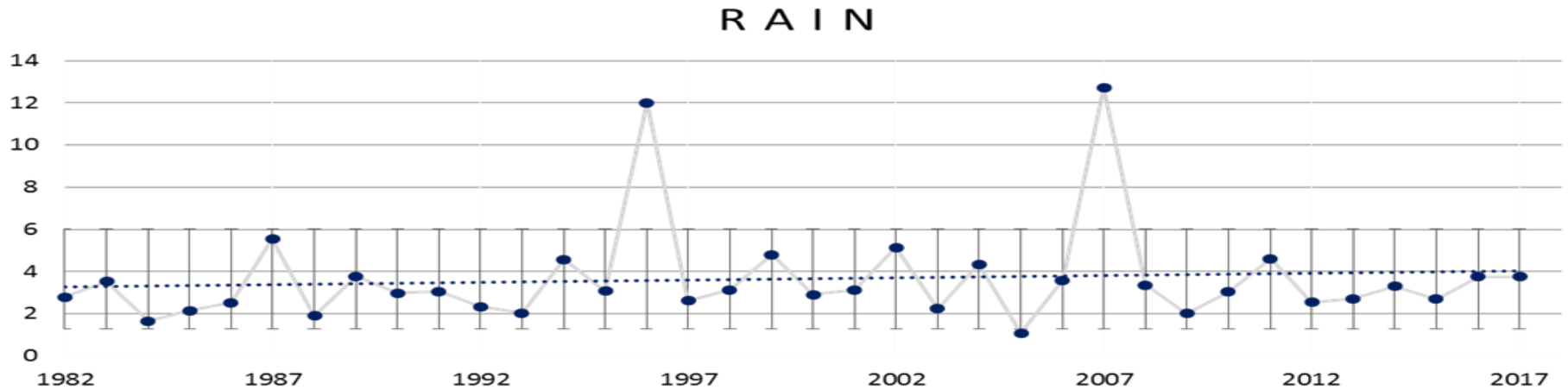
Snowfall Accumulations



Extreme Snowfall Events

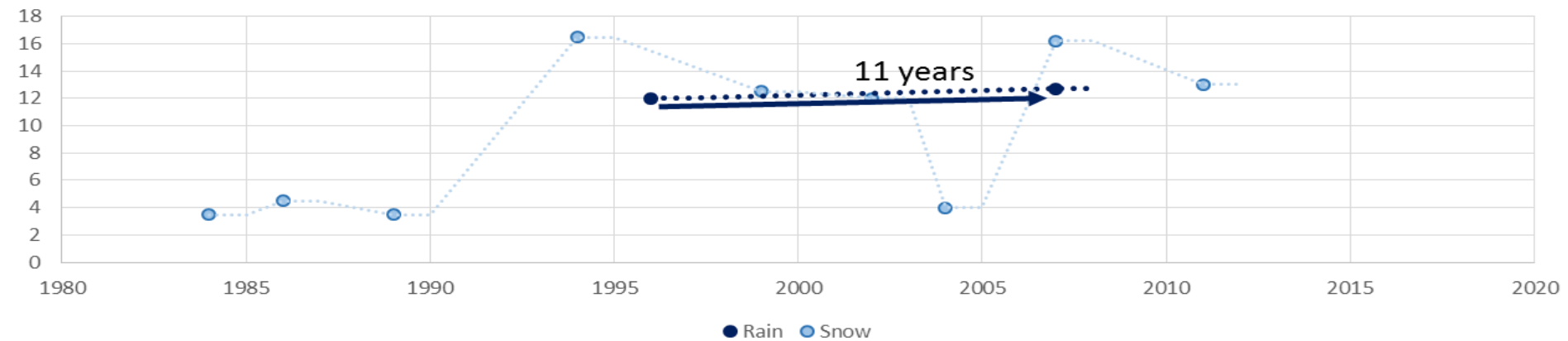


Extreme Rainfall Events

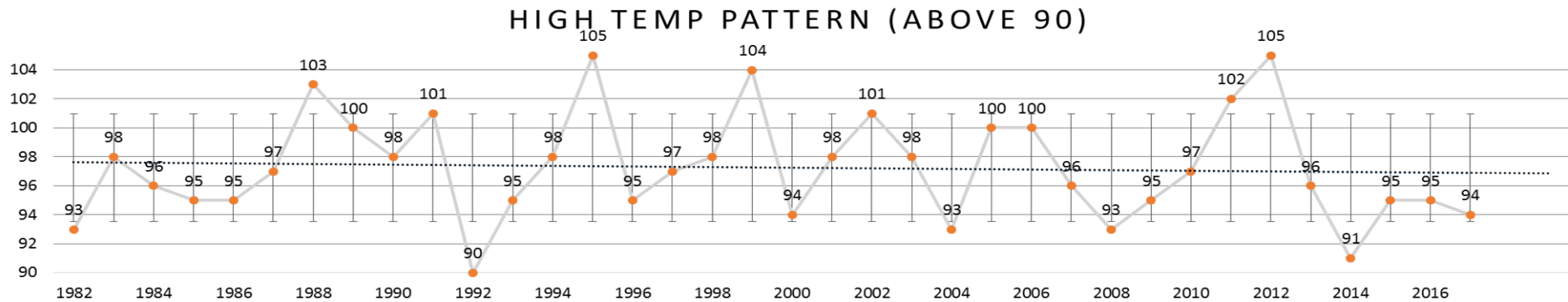


Precipitation Extremes

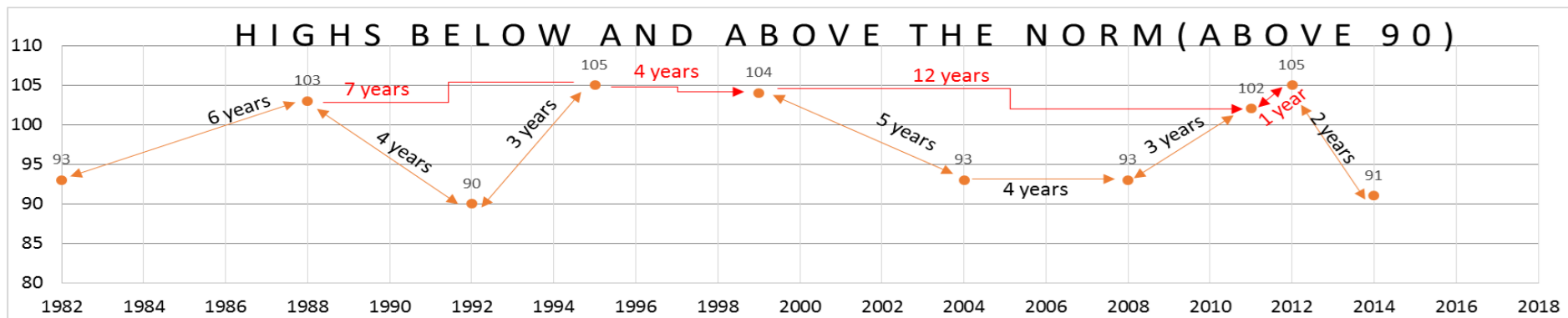
Rain extremes timeline



High Temperatures

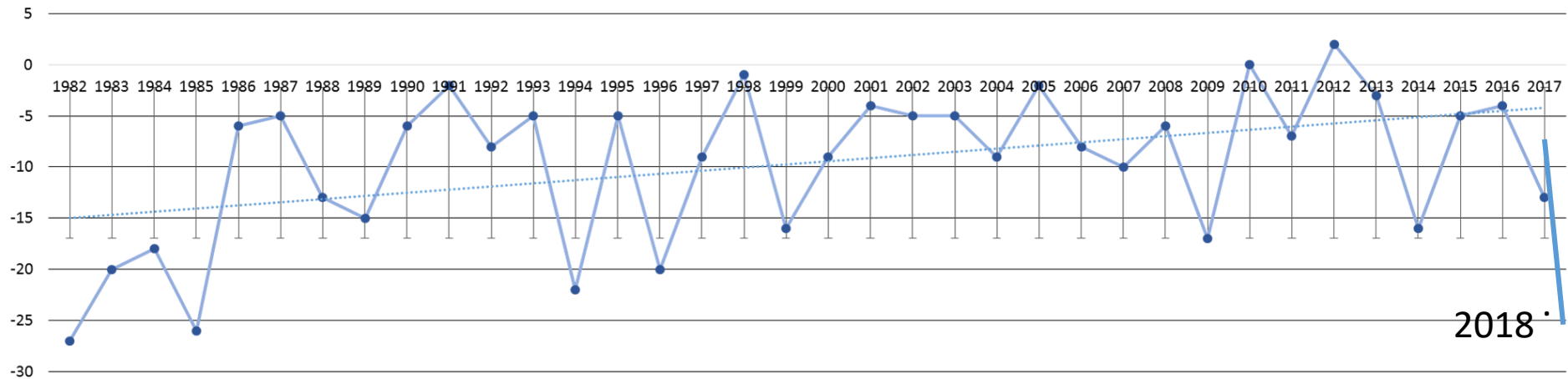


Intervals between High and Low Temperature

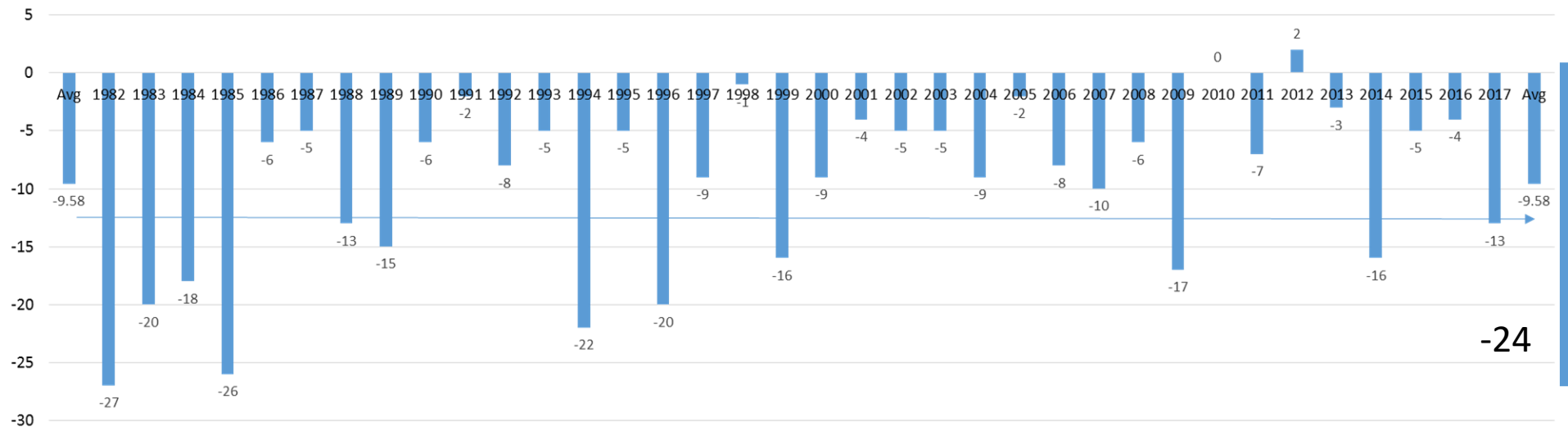


Low Temperatures

LOW TEMP PATTERNS (BELOW 0)

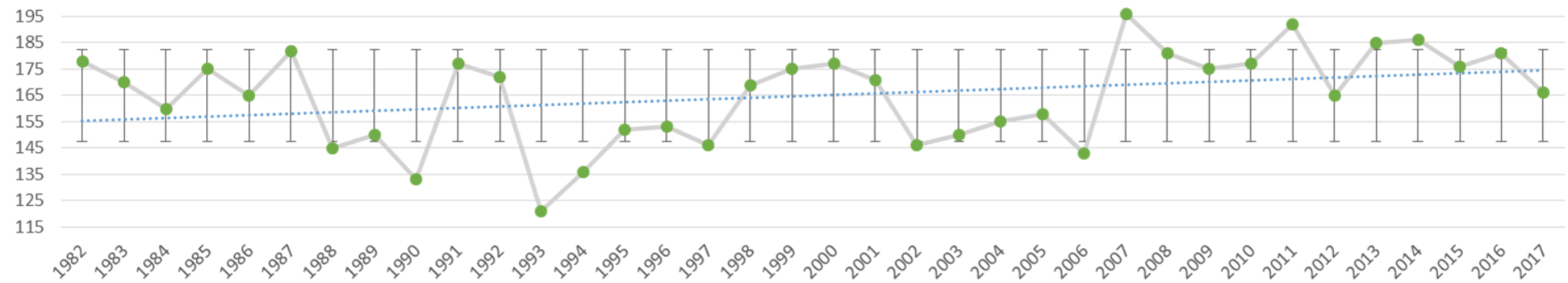


Low Temperatures

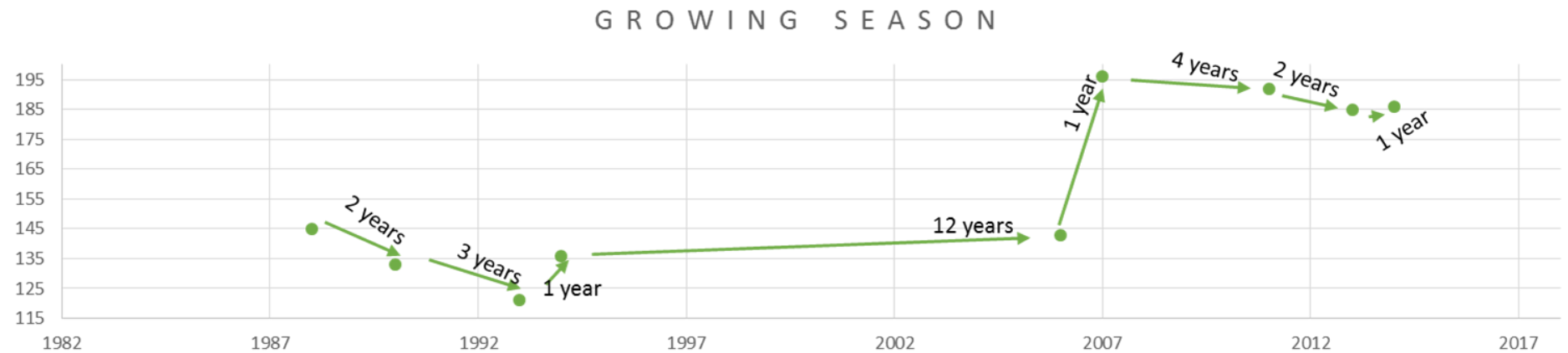


Growing Season

G R O W I N G S E A S O N

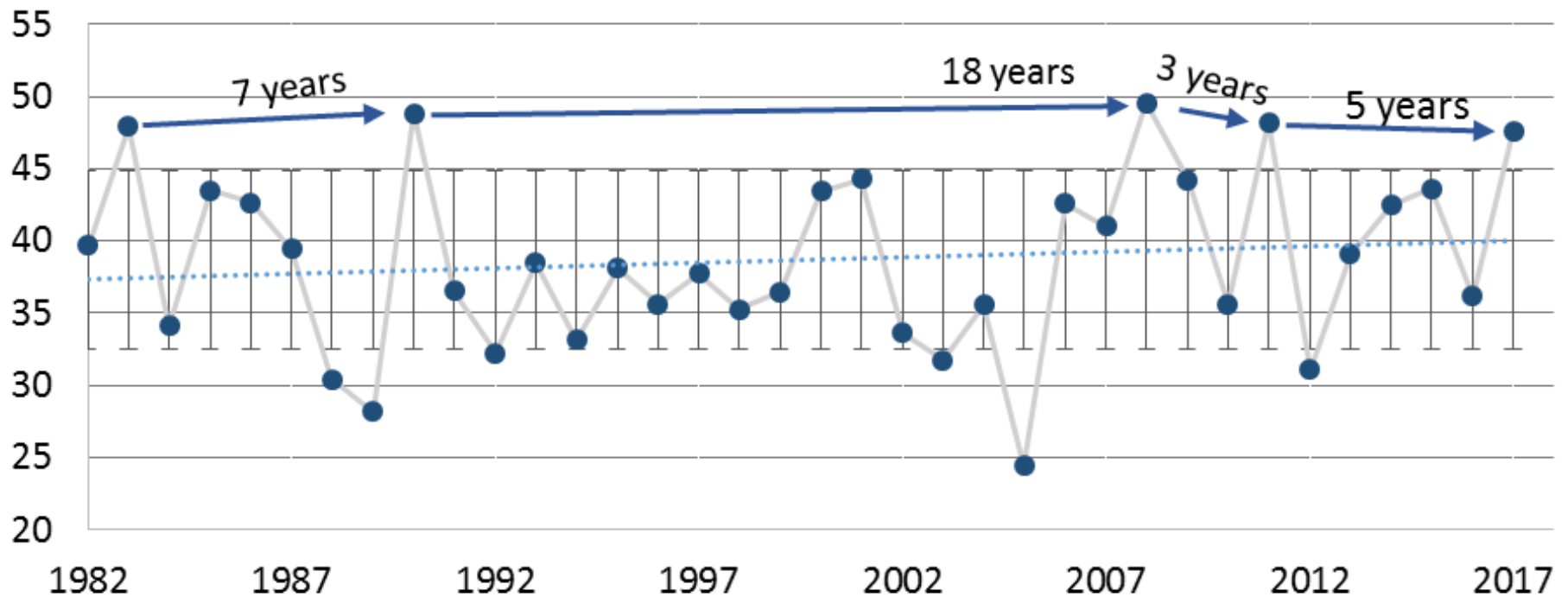


Growing Season Extreme Frequency



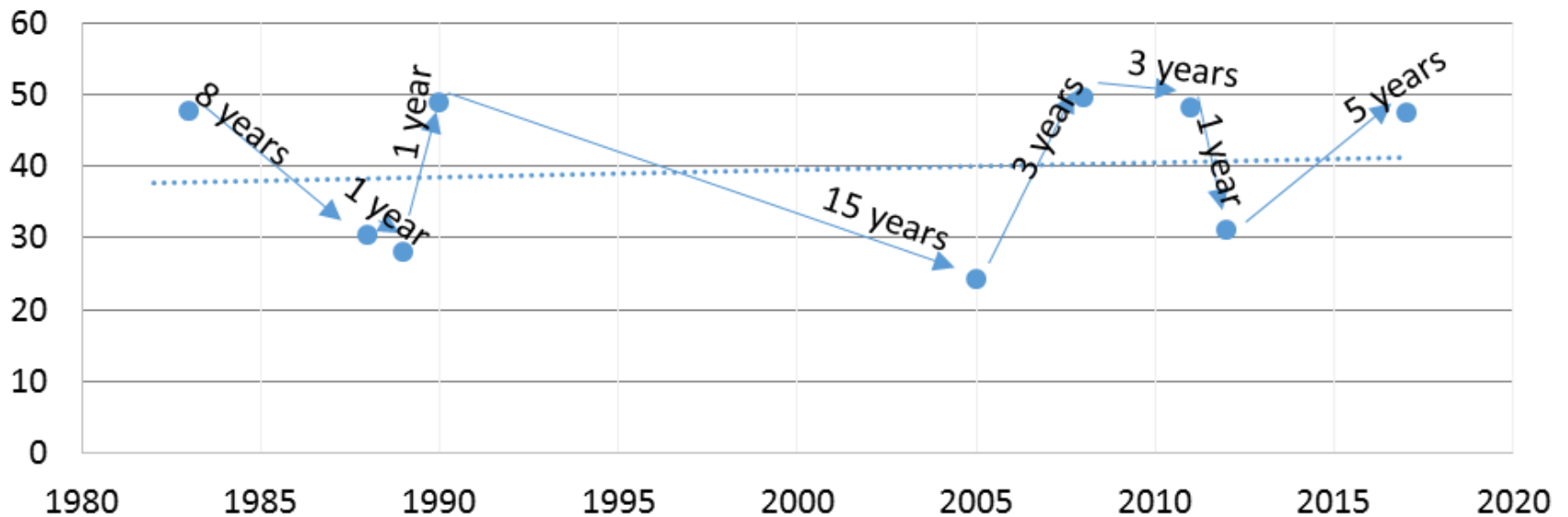
Rainfall and Snow melt

Precipitation in Inches

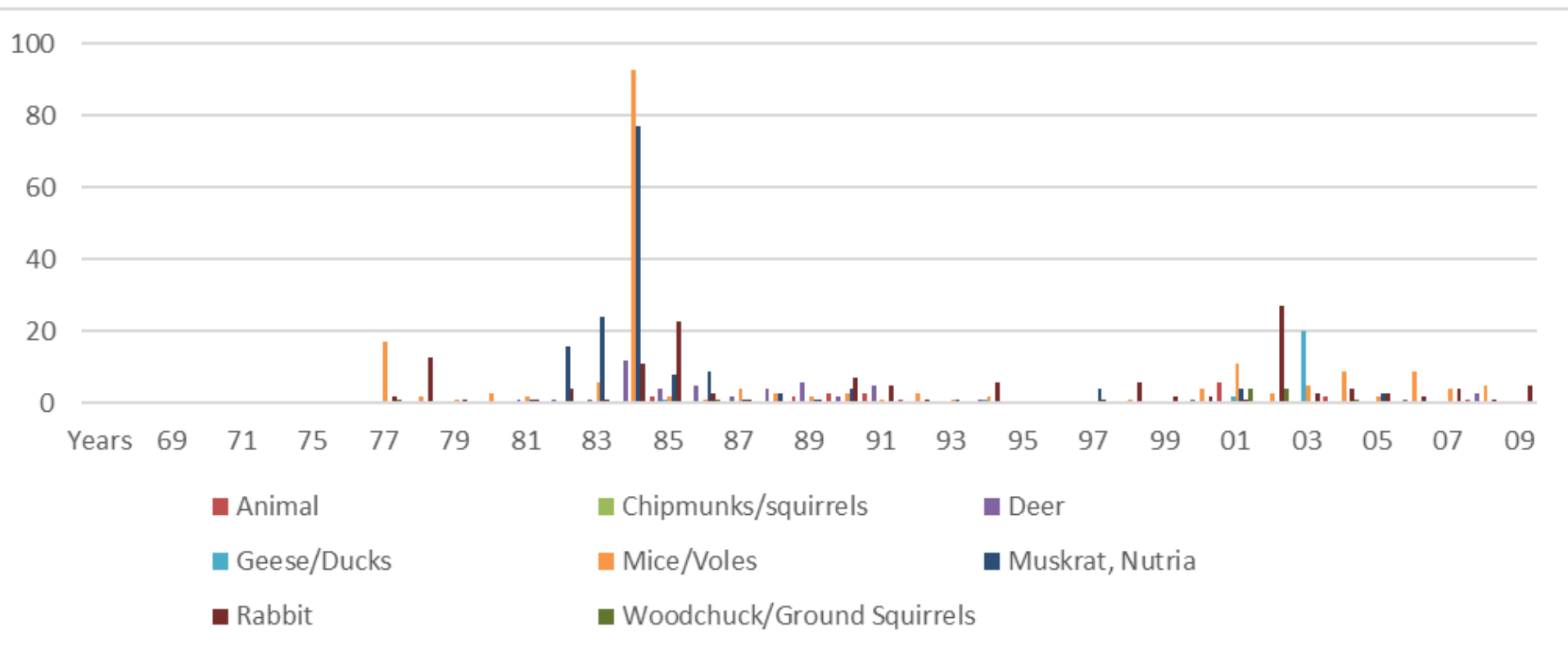


Precipitation Extremes

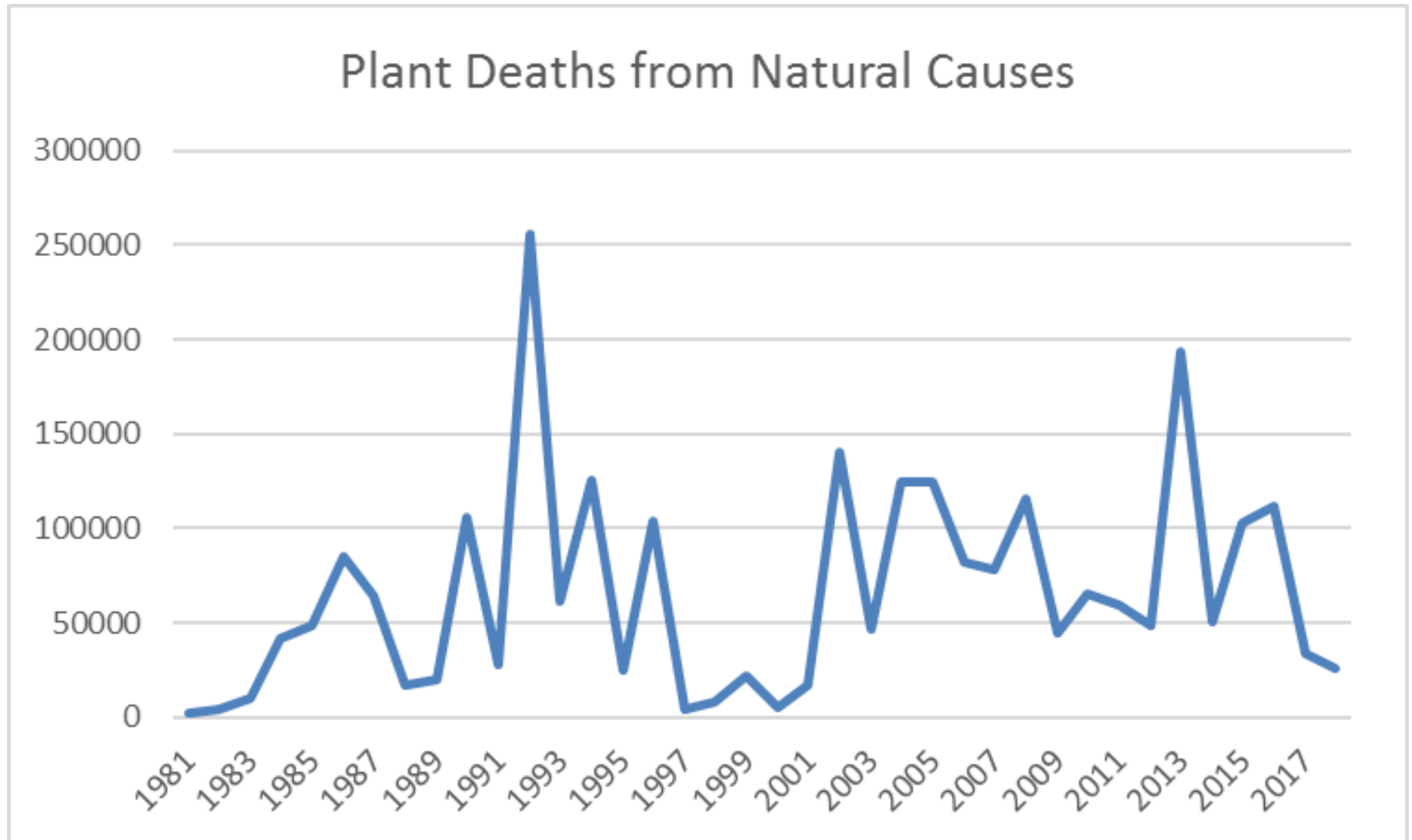
PRECIPITATION BELOW AND ABOVE NORMS



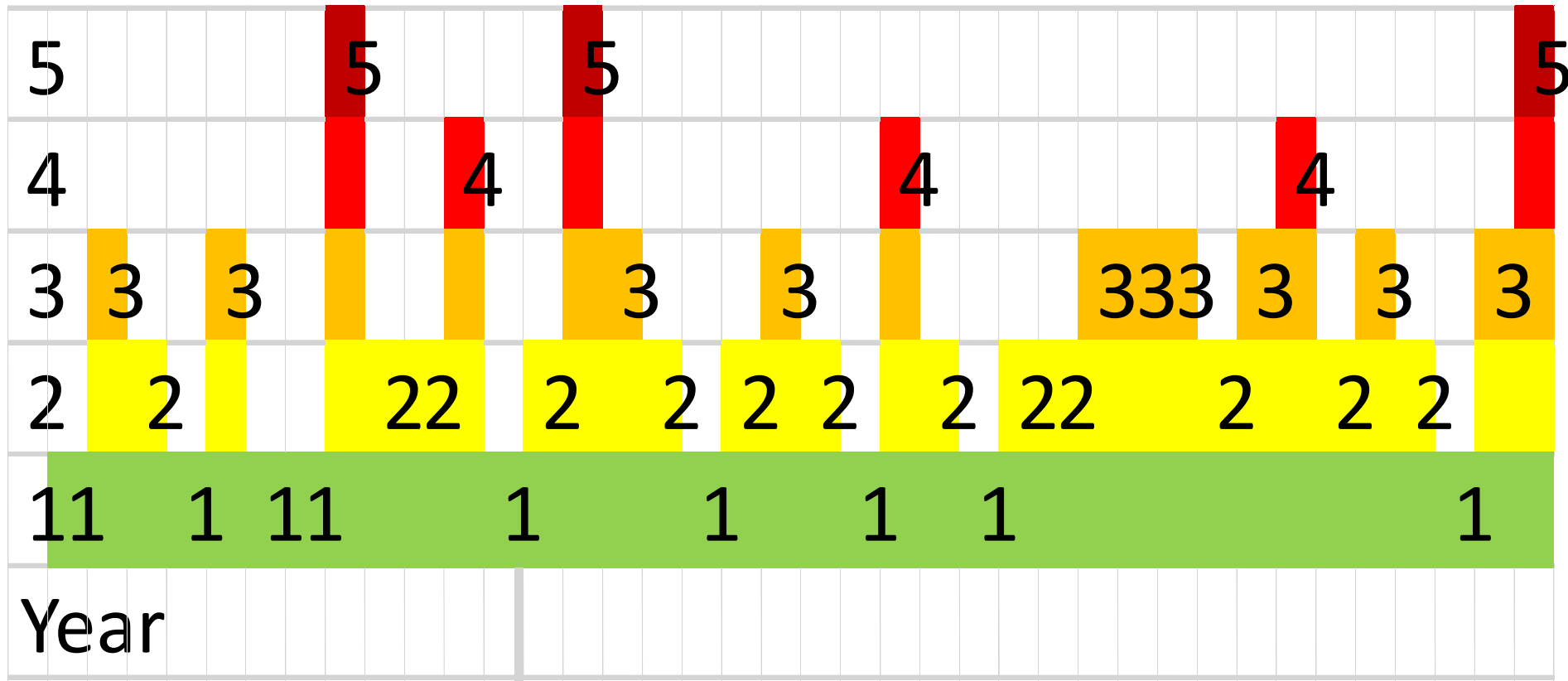
Animals



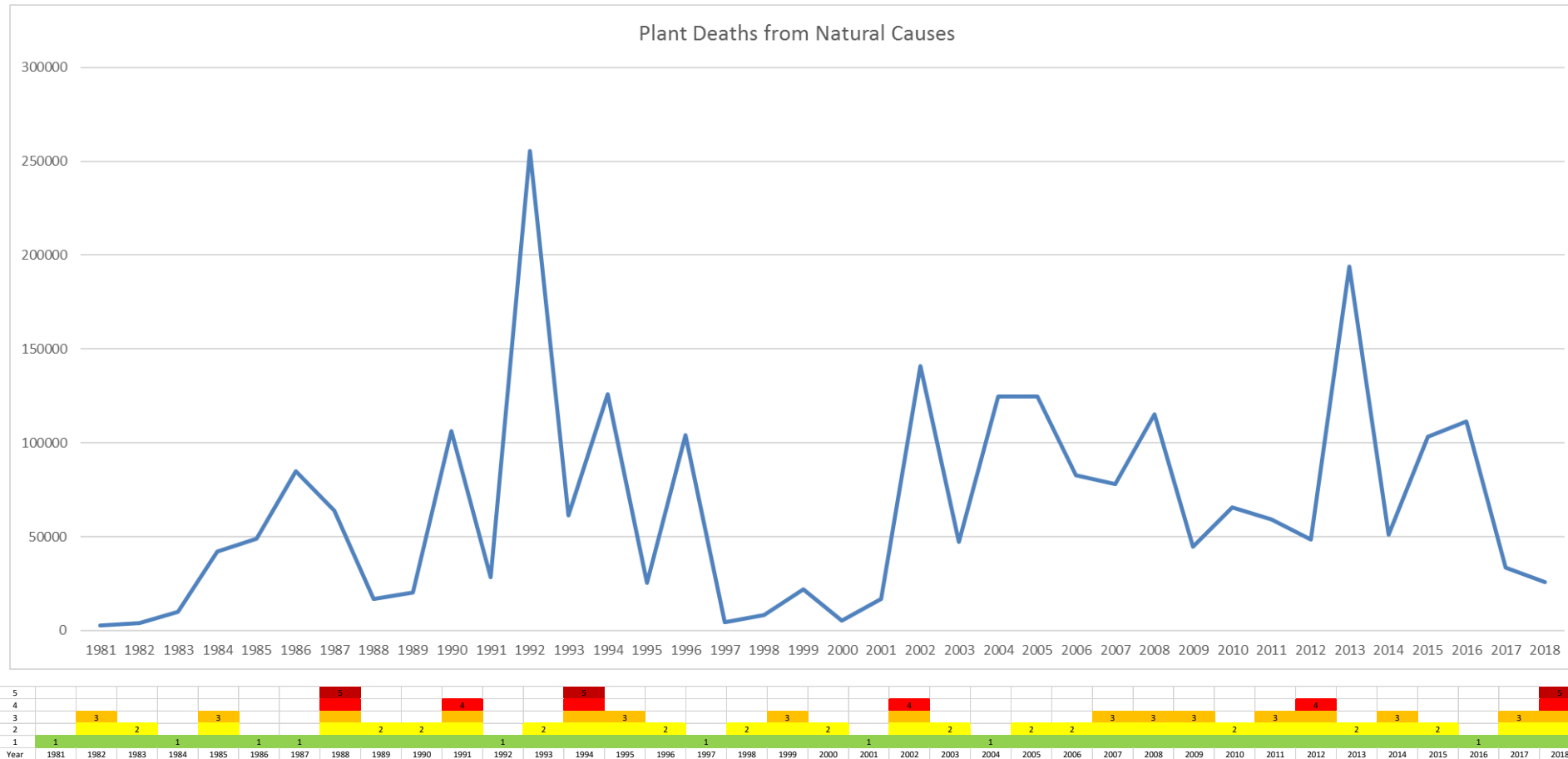
62,856 Reports of Dead Plants



Environmental Extremes



Plant Deaths compared to Number of Significant Weather Events



Thank You

- Are there any questions?

