## Carmen Cain IS 733 01 February 24 2025

## entropy for temperature

## entropy for humidity

## entropy for windy

Y N

TRUE 3 3 entropy = 1

FALSE 6 2 entropy = -( $6/8\log 2(6/8)+2/8\log 2(2/8) = 0.81$ entropy(windy) = 6/14\*1+8/14\*.81=0.89IG(S,windy)=E(S)-E(windy)=.94-.89=.05