

COMPUTATION OF WET BULB

Dry Bulb zero and above

$$TW = T - (.034N - .00072N [N - 1]) (T + Tdp - 2P + 108)$$

If temperature is less than 100°

$$TW \text{ Rounded} = TW + .9 \text{ if col. 48 is 0, 1, 2}$$

$$TW + [.9 - .01 (T + .9)] \text{ if col. 48 is 3, 4}$$

$$TW + .4 \text{ if col. 48 is 5 through 9}$$

If temperature is 100° or greater:

$$TW \text{ Rounded} = TW + .9.$$

for Dry Bulb temperature less than zero:

$$TW = T - (.034N - .006N^2) (.6 [T + Tdp] - 2P + 108)$$

$$TW \text{ Rounded} = TW - .01Tdp$$

T = dry bulb temperature in °F

TW = wet bulb in °F

Tdp = dew point in °F

$$N = \frac{T - Tdp}{10}$$

P = Station pressure measured in inches of mercury

In all cases TW should be computed to at least two decimal places prior to applying the rounding factor.