

Showalter Index

From the user, an environmental temperature (T_{env}) and a parcel temperature (T_{parcel}) in degrees Celsius ($^{\circ}C$). If the user needs to convert the temperatures from degrees Fahrenheit ($^{\circ}F$), see the link below:

<http://www.wrh.noaa.gov/Saltlake/projects/wxcalc/formulas/tempConvert.pdf>

Then, the Showalter Index ($Index_{Showalter}$) can be calculated using the formula below:

$$Index_{Showalter} = T_{env} - T_{parcel}$$