**FAW Degree day model Description**

# **Model description**

This model based on degree day approach, aims to target the right time for eggs hatching for proper implementation of pest management strategy.

The Growing degree day (GDD), which correspond to the daily thermal time (DTT) is calculated as follow.

GDD = ; where  and

Where we have

**:** hourly temperature. This is obtained from the weather data station and represents the temperature of the location of concern.

**:** Base temperature for insect development (FAW in this case)

**:** upper temperature for insect development

**:** Optimum temperature for insect development

**Algorithmic description**

Begin

Input

= 13 ; ; ; FAW.Egg.DD.Req =35,7; = 0; HTT = 0

While ( < **FAW.Egg.DD.Req**)

For every day (d)

For each hour(h) estimate

Estimate HTT (using the giving formula)

Estimate

= +

End day (d)

End\_While

End