Best Application Window Approaching

According to the growing degree day (GDD) model, the best application timing for in-season control of mint root borer (MRB) and variegated cutworm (VC) is July 11-18th in the Madras/Culver area. Powell Butte is a week behind.

OSU research has shown the optimal timing of Coragen® for MRB control is at peak moth catch (July 11 & 16), but adequate control should continue through peak egg laying. If needed, Coragen® label recommends 5fl oz/ac between 900-1250 GDDs: http://www.cdms.net/ldat/ld8KF036.pdf

Optimal application timing of Coragen® or Orthene® to control VC is at 3rd instar. In Madras, VC in mint are entering 3rd instar now and estimated to peak by July 13th. Treatment threshold is 0.6 larva/sweep or 1.3 larvae/sq ft.
Mint Root Borer (MRB) Insect Development – Culver & Madras

- Peak moth (910 GDD) predicted July 11<sup>th</sup> – optimal app timing
- Adequate control w/ Coragen expected through egg laying
  - 1130 GDD, predicted to be July 21<sup>st</sup>

Variegated Cutworm (VC) Development – Culver & Madras

- VC best controlled by 3<sup>rd</sup> instar (peak predicted July 13<sup>th</sup>)
- July 11-18<sup>th</sup> optimal timing to control both MRB and VC
MRB Development – Prineville & Powell Butte

✧ Peak moth catch predicted to be July 16th
  ➢ Optimal application timing of Coragen for MRB

VC Development – Prineville & Powell Butte

✧ Peak 1st instar larvae was predicted to be July 6th
✧ VC best controlled by 3rd instar (predicted to be July 18th)