





# Technical Bulletin for: Douglas-Fir Cone Gall Midge

*Contarinia oregonensis* (Linnaeus) • Diptera, Cecidomyiidae • CONORE



|                     |                                                                                                                                                                                                                                                                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISTRIBUTION</b> | Throughout the range of Douglas fir- from British Columbia to central Mexico.                                                                                                                                                                                                                                                           |
| <b>HOSTS</b>        | Douglas-Fir                                                                                                                                                                                                                                                                                                                             |
| <b>DESCRIPTION</b>  |                                                                                                                                                                                                                                                                                                                                         |
| <b>ADULT</b>        | Bright orange abdomens, 2.3 to 2.8 mm in length.                                                                                                                                                                                                                                                                                        |
| <b>LARVAE</b>       | Orange, about 2 mm in length.                                                                                                                                                                                                                                                                                                           |
| <b>EGGS</b>         | Whitish, translucent and cylindrical, about 0.3 mm x 0.1 mm.                                                                                                                                                                                                                                                                            |
| <b>LIFE HISTORY</b> | Larvae overwinter in ground litter and pupate in early spring. There is one generation a year, but diapause for one or more years is common. Adults lay eggs during the brief period they are open for pollination in the spring. Larvae feed in the seeds until fall and when cones become wet, they drop to the ground to overwinter. |

## MONITORING INFORMATION

|                                                            |                                                                                                                       |                                                                                       |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b> | ZZ-4,7-13Ac on a Gray Rubber Septum. Field life: Thirty (30) days.                                                    |  |
| <b>TRAP TO USE</b>                                         | Red Paper or Plastic Delta Trap or Wing Trap                                                                          |   |
| <b>MONITORING STRATEGY</b>                                 | Check with Cooperative Extension or Master Gardener for local information and recommendations.                        |                                                                                       |
| <b>CULTURAL &amp; PHYSICAL CONTROL</b>                     | Simple sanitation may prove useful in reducing populations by removing infested-aborted cones from the orchard floor. |                                                                                       |

**Alpha Scents, Inc.**  
insect monitoring systems

Alpha Scents, Inc., 360 S. Sequoia Pkwy. Canby, OR 97013  
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com