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## SPINOSAD AND METHOXYFENOZIDE: IPM TOOLS FOR INSECT MANAGEMENT

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Spinosad, is derived from the fermentation of the actinomycete *Sacharoployspora spinosa* and is the active ingredient in Tracer\*, SpinTor\*, Success\* and other products for insect control. It has a rapid mode of action and efficacy activity similar to synthetic products on Lepidoptera, Thynsanoptera and select Diptera and Coleoptera. It has no activity on many insects which results in a high degree of selectivity. Methoxyfenozide, is a second-generation MAC (molt accelerating compound) insecticide that mimics ecdysone activity in Lepidoptera insects. It is marketed under the trade name Intrepid\* Lepidopteran insects become affected faster than with other insect growth regulators. Methoxyfenozide is even more selective than spinosad with activity limited to only Lepidoptera. The rapid activity of these compounds permits the crop advisor to wait until economic thresholds have been exceeded, which is not the case with many selective products. The preservation of the beneficial arthropods keeps secondary pests in check and extend retreatment intervals. The MACs and spinosad both won the EPA Presidential Green Chemistry Challenge for overall environmental favorable properties including these IPM attributes. An overview of new labeling initiatives including organic formulations will be provided.

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