

Pesticide Information Request Response
Arid Southwest IPM Network
Arizona Response to DDVP (Dichlorovos) Information Request
July 27, 2007

Active Ingredients:
DDVP (Dichlorovos)

Crops/Target sites:
Livestock—direct treatment, premises treatment, and manure treatment.

Extent of Response / Data Sources:

This information request was forwarded from the Arizona Pest Management Center to key contacts in Arizona, New Mexico, Nevada, and the low desert regions of Southeastern California. However, responses represented and are *limited to Arizona*, as we received no specific feedback from the other states. Our data sources for this response include communication with several Extension personnel specializing in livestock management and their communications with clientele and pest management service professionals.

Comments on Product Use:

- Ray Peterson (623-680-1458), Automated Fly Control Company, provided the most detailed information on the use of DDVP. It is the active ingredient in Vapona, a product that is very important to their industry. The primary use is through a mist blower. The applicator is inside the cab and isn't exposed to the chemical, except possibly during mixing. They use this product for direct treatment of dairy cattle, and for facility and manure treatment. This is currently the only labeled product they can spray over lactating cattle to control flies, and it is the only organophosphate that they can rotate with pyrethrins. This chemical rotation is very important, since fly species are growing resistant to the pyrethrins. It is important for milk production, for animal health and for employee health. Mr. Peterson invites EPA personnel to contact him if more detailed information is needed.
- Dr. Dave Schafer, Resident Director of the V-Bar-V Ranch, a University of Arizona livestock research facility, is not familiar with this product and doesn't believe it is being used to treat their livestock, manure, or facilities.
- According to Jim Sprinkle, lead UA Area Extension Agent specializing in livestock management, "Not much of this would be used with my clientele except perhaps around barnlots for a few. A few may have cattle rollers that would have the insecticide in it. Not many would be spraying cattle. I'm not sure about foggers with dairy barns. Some of our 4-H youth use fly baits and some of those may have the chemical in it."
- Dr. Todd Bilby, Dairy Extension Specialist with UA, contacted two large suppliers of fly sprays to the dairies, United Dairymen of Arizona's Farm supply and Automated Fly Control. One of the very popular fly sprays has dichlorvos in it and most of the fly sprays on dairies are applied with power sprayers for the barns and cattle. The other company

that sells fly spray and goes to the dairy and sprays for flies said they only use dichlorvos about once or twice a year.

Questions

In the short turn-around time provided, I was not able to collect detailed information on percent of product usage or many of the other questions included in this request. The product appears to be important to the dairy cattle industry, at least for some sectors, for all three areas of use mentioned in this request, particularly as this is the only active ingredient for some uses besides pyrethrins, for which resistance development has been an issue.

Contact Information:

- Ray Peterson, Automated Fly Control, 623-680-1458
- Jim Sprinkle, Area Extension Agent, Animal Science, Gila County Cooperative Extension Director, P. O. Box 2844, Payson, Arizona 85547, 928-474-4160 phone, 928-468-8289 fax, sprinkle@ag.arizona.edu
- Todd R. Bilby, Ph.D., *Dairy Extension Specialist, Assistant Professor*, 1177 E. Fourth Street, Rm 228, P.O. Box 210038, Tucson, AZ 85721-0038, Office: (520) 626-9383, Cell: (520) 609-9393, Fax: (520) 621-9435, trbilby@ag.arizona.edu
- David W. Schafer, PhD., Resident Director, University of Arizona, V Bar V Ranch, 2657 Village Drive, Cottonwood, AZ 86326, Office: 928-646-9113 x 11, Cell: 928-821-3045, Fax: 928-646-9108, dschafer@Ag.arizona.edu