Section VIII Mites & Sap-Sucking Pests

Chemical Control of McDaniel Mite *Tetranychus mcdanieli* Koch in Timothy Hay.

Waters, T. D., H. J. Ferguson, R. P Wight, and D. B. Walsh
Washington State University, IAREC
24106 N. Bunn Rd.
Prosser, WA 99350

Acaricides were screened for ability to control McDaniel spider mite on timothy grass hay *(Phleum pratense* L.). On April 22, 2004, field plots were established near Ellensburg, Washington State, USA. Plots were 5 ft. wide and 20 ft. long and were replicated four times in a complete random block design. Acaricide applications were made on April 22, 2004 using a backpack mounted boom sprayer. Ten grass blades per plot were collected weekly and transported to the laboratory where mites were counted under a stereoscope.

The first week after treatment all compounds tested, with the exception of the .125 lb. a.i./acre Onager treatment and the JMS Stylet Oil, controlled mites significantly better than the untreated check. The second week post-treatment, predatory mites reduced the McDaniel spider mite population to a density that an acaricide treatment effect was no longer detectable.

Trade name	Active Ingredient	Rate	Mean mites per leaf 22 April	Mean mites per leaf 5 May	Mean mites per leaf 13 May
Untreated check			6.000a	6.400a	1.050a
Agrimek w/oil	abamectin	0.019 lb ai/A	11.480a	1.950b	0.300a
Acramite 4SC[2]	bifenazate	0.75 lb ai/A	5.600a	0.200b	2.00a
Acramite 50WS[2]	bifenazate	0.50 lb ai/A	6.433a	0.900b	0.250a
Capture 2EC	bifenthrin	0.100 lb ai/A	7.440a	0.050b	0.050a
Secure	etoxazole	0.135 lb ai/A	7.300a	1.600b	5.100b
Fujimite	fenpyroximate	0.15 lb ai/A	8.350a	0.550b	0.550a
Onager 1E/oil	hexathiozox hi	0.125 lb ai/A	10.560a	7.053a	0.800a
Onager 1E/oil	hexathiozox lo	0.094 lb ai/A	9.633a	0.050b	1.200a
Supracide 2E	methidathion	3 pt/A	6.920a	0.850b	0.150a
JMS Stylet Oil	oil	2% sol.	11.560a	3.800a	1.350a
Comite	propargite	1.00 lb ai/A	11.160a	1.800b	3.050a

[2] = Ad-Wet adjuvant was added to the solution at label rate