

CONTROL OF WEEDS IN CERTIFIED ORGANIC FARMING SYSTEMS

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Two applications of OMRI approved weed control materials and methods were made on certified fava beans, *Vicia faba L.* Vetch. *Luguminosae*. Two types of propane powered flammers, an Eco Weeder radiant burner and a conventional flame burner were compared against Matran-2, Xpress and horticultural vinegar liquid sprays. A hand weeded plot and an untreated control were also included. Weeds present during the trials were annual bluegrass, *Poa annua L.* Bluegrass. *Gramineae* and burning nettle, *Urtica urens L.* Nettle. *Urticaeae*. The first application was made on Nov 25th, 200, when the first true leaves were present on burning nettle, *Urtica urens*. Liquid sprays at 50 GPA volume were applied using an 8003VS Flat Fan Nozzle @ 25 PSI. Materials were as follows: Matran-2 - 45.6% Clove Oil @ 5 GPA Product (10% Product), Matran-2 - 45.6% @ 5 GPA (10% Product) + NuFilm 17@ 16oz/ac, Express - 20.5% Clove & Thyme Oils @7.5 GPA (15% Product), Bradford Horticultural Vinegar - 20% Acetic Acid @15 GPA 7% final concentration. Control of weeds following the first application was most effective using the standard flame burner, Matran-2, and hand weeding. Control of weeds following the second application indicated that the standard flame burner, Matran-2 and the higher rate of the vinegar were effective in controlling weeds.

Percent Control of Weeds Following Spring Applications of Contact Herbicides

