Ten chemicals were tested as foliar sprays in 8-hill plots, 4 reps, for control of twospotted spider mite and hop aphid. Effective acaricides (rates, Kg AI/ha) were: biphenthrin (0.11) and the combination of formetanate hydrochloride (0.82) + Amitraz (0.82). Oxythioquinox (1.1) tested for one season, had equally low numbers of mites and should be tested again. Of the aphicides tested: disulfoton (1.1) was superior. Others considered effective: biphenthrin (0.11), cyfluthrin (0.27 and 0.55), fluvalinate (0.18), chlorpyrifos (0.55) and endosulfan (1.1) in that order. A comparison of two formulations of propargite (Omite CR and UBI 1946) showed good performance and no difference between formulations. An aphicide RH7988 (0.073) gave excellent aphid control and superior yields of hop cones. Yield of 90.9 Kg bales/ha for 3 varieties were 17.335, 18.328 and 19.948 compared to 8.992 for the untreated check. Avermectin B1 (Abamectin) (0.011 and 0.022) had surprisingly high mite counts but gave excellent yields.

Conclusion for 1989: this was a bad aphid year on hops; mites had little influence on production.