Soil applications of Temik 15G applied 15-30 June 1981 controlled mites and aphids for the season. Split applications of 46.5 lbs and 46.5 lbs of granules provided control approximately equal to a single application of 93 lbs of granules. Average yield increase was about 2 bales/acre in Temik treated yards over non-Temik yards.

HOP PEST MANAGEMENT PROGRAM

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In 1981, the second year of the hop pest management program, 22 growers participated. The program was partially funded by the Washington State Hop Commission. Fields were monitored weekly and recorded information left with the grower. About half the growers used the monitoring data when applying insecticides and miticides while about half relied on calendar sprays.

Two-spotted spider mites and hop aphids were monitored using leaf samples. We now have a fairly good idea of the economic injury level for hop aphids. When aphid numbers average 8 to 10 per leaf, a chemical control should be applied. Aphids, often tend to build up on yard borders and border sprays are effective. Based on the data from the monitoring about 63% of the aphidicide applications were probably not economically justifiable. The economic injury level for mites varies during the season. Hops are able to tolerate high mite populations, an average of 30 to 40 per leaf, for short periods if they are effectively controlled during mid-late season. Based on data from the monitoring about 61% of the miticide applications were probably not economically justifiable.

Yellow sticky traps for monitoring aphid populations were not effective. Sweep nets were evaluated for monitoring insects and were only somewhat effective.