CONTROL OF TWO-SPOTTED SPIDER MITE WITH COMITE, JOHNSTOWN, CO, 1984: Three adjacent fields of corn (5, 7 and 17 acres) were divided and 0.5 of each was treated aerially with Conite + nonemulsifiable soy oil + water and the other 0.5 was treated with Comite in water. The aircraft was a Weatherly 620 with a 46 ft wingspan and a 43 ft boom. All work was 2 gpa applied with D-6 nozzles at 35 psi, 112 mph, and a 60 ft swath. Treatments were applied 24 Jul '84 when the crop was within 7–10 days of tasseling. The fields were furrow irrigated. All 3 had been planted to corn the previous year and had been treated at planting time with Counter 15G to control western corn rootworms. Four ear leaves were marked in each plot and one mite colony (ca. 1 sq inch) was marked on each marked leaf. The mites in the colony were counted at the time of application and the mites within the same area were counted at each subsequent sample date.

Comite treatments applied in water were statistically superior to the check after 1 mo of observation. There was no statistical benefit to the addition of nonemulsifiable oil at any of the sample dates. No phytotoxicity was observed.

CONTROL OF TWO-SPOTTED SPIDER MITE ON CORN, JOHNSTOWN, CO, 1984: Plots were two 50-foot rows separated by a single buffer row, arranged in a randomized complete block design. The corn was furrow irrigated and had been treated with Counter 15G at planting time for control of western corn rootworms. Treatments were applied 15 Aug '84 with a CO2 sprayer with 2 nozzles on a 30 inch boom calibrated to deliver 22 gpa at 30 psi. Four ear leaves were marked in each plot and a colony ca. 1 sq inch was marked on each leaf. These colonies were counted at the time of application and the mites within the same areas were counted at each subsequent sample. Apparent % control = 1 – (postcount/precount) * 100. Adjusted % control = 1 – ((trt postcount/trt precount) * (check precount/check postcount)) * 100 (Henderson and Tilton method).

Mite populations in the experimental area were completely two-spotted spider mite, although some Banks grass mites were present in the edges of the field. There were no significant differences among treatments at 5%. There was some evidence of synergy between Galecron 2E and both Capture 2E and Danitol 2.5E.