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POMOLOGY: CROSS-COMMODITY CULTURE AND
MANAGEMENT

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THE INFLUENCE OF CALCIUM CHLORIDE (CaCl_2) ON APPLE COVER SPRAY EFFICACY AND THE pH OF PESTICIDE SUSPENSIONS.

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Commercial (77-80%) CaCl_2 was mixed to apply 0, 26 and 79 kg/ha/yr in 8 alternate row-middle cover sprays. Pesticides used and rate/ha/half spray were: metiram 80W (1.1 kg), encapsulated methyl parathion 2F (291 ml) and phosalone 3EC (585 ml). All spray mixtures were applied at 0, 2 and 4 hrs. after mixing. The control of tufted apple budmoth, sooty blotch, fly speck and scab was not significantly influenced at the 5% level of probability.

The addition of formethanate hydrochloride to 2 half sprays to supply 0.4 kg/ha in each spray controlled European red mites and its efficacy was not influenced by the CaCl_2 .

Calcium chloride at 4 rates was mixed with 3 fungicides, 4 insecticides and 3 miticides. The pH of water was 9.1. After 4 hours in suspension, there was not a consistent influence of CaCl_2 concentration on pH. The highest and lowest pH's recorded were as follows: fungicides 7.3-8.6; insecticides 4.6-10.0; miticides 6.2-10.4; and CaCl_2 alone 9.1-10.4.