Plant growth regulators used in thinning programs include carbaryl insect cide, auxin hormones (napthalene acet c acid or napthalene acet mide), and cytokinin hormones (6-benzaldehyde). Organic growers somet mes use liquid lime sulfur and/or f sh or mineral oil products labeled for fungicide and insect cide uses, respect vely, that also exhibit some thinning effect when used at petal fall to 10-12 mm fruit size. Specific thinning programs should rely on grower experience and informat on from the latest New England Tree Fruit Management guide, available from the Cooperative Extension Service of each New England state.

In the photo below, the fruit cluster on the lef was not chemically thinned. The single-fruit clusters in the photo on the right were from trees treated with carbaryl and 6-BA fourteen days prior.

Apple trees, both thinned and unthinned, will exhibit a 'June drop' roughly 4 weeks af er petal fall. During this period, the tree will abscise naturally many fruit that did not compete for limited resources in the tree. Thinned trees will also shed their remaining uncompet t ve fruit during this period. Growers should not be alarmed at seeing fruit on the ground at this t me, but rather focus on the fruit remaining in the tree. A target on one fruit per blossom cluster on every other cluster born on the tree is considered a target for a good crop load.

<u>Pollinat on and Fruit Set of Fruit Crops</u> - Cornell Cooperat ve Extension Service Informat on Bullet n 237 <u>Insect Pollinat on of Cult vated Crop Plants</u> - 1976/2009 USDA ARS Bullet n <u>Plant Growth Regulator Uses in Apples</u> - A Guide to their use in Wisconsin

CULTIVATING HEALTHY COMMUNITIES