



POLLINATION ENHANCEMENT

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Pollen Applied with Beehive Dispensers Benefits Orchard Pollination in Three Ways:

- I. Bees will be carrying *more* pollen than under natural conditions.**
Bees foraging for nectar or pollen will load pollen onto their bodies only through brushing against dehisced anthers in their blossoms.
Bees leaving the hive through a beehive dispenser will carry many times this amount.
- II. Bees will be carrying *better* pollen than under natural conditions.**
As soon as the flower opens in the orchard, UV radiation from the sun as well as ambient moisture and unfavorable temperatures contribute to the steady decline of pollen quality. Average pollen viability of around 30% and lower can result in these conditions.
Pollen dispensed through beehive pollen dispensers has much higher viability and, therefore, a much better chance of setting fruit or nuts.
- III. Bees will be carrying pollen *cross-compatible* with all varieties in the orchard.**
Since we are able to choose the variety of pollen we apply to any given orchard, we can be sure that the pollen we apply is cross-compatible. In this way, no matter what pattern of flight the bees take, each visit to a flower will more likely result in successful pollination and fertilization.

Pollen Applied in Conjunction with **Vericet Benefits Pollination Even Further:**

Once a pollen grain has grown a tube down the style and deposited its nuclei in the ova, its job is finished. Right? Right. But this task is not without challenges. As soon as the pollen alights on the surface of the stigma, it is beset by certain limiting factors hampering its ability to achieve successful fertilization.

- **Low Temperature** can limit the rate of pollen tube growth and prevent fertilization from taking place. For crops in which pollination occurs during early spring or in cooler climates, this can be particularly problematic.
- **Insufficient levels of certain key nutrients** necessary for vigorous and accurate pollen tube growth can also result in failure of the pollen tube to successfully reach the ova and complete fertilization.

Vericet can overcome these limiting factors.

Once the pollen has alighted on the stigma, **Vericet** provides germinating pollen with key nutrients, specially composed to enhance its ability to grow rapidly and accurately down the style and complete fertilization. Even at lower than optimum temperatures, pollen tubes will grow faster with **Vericet** than without it. This could mean the difference between setting a crop and not setting one.

Vericet can be used as an additive to pollen applied both with bees or with ‘blow-on’ applicators.

Used with pollen applied in beehive dispensers, **Vericet** is mixed with the pollen before being placed in the dispenser. Not only will it enhance pollen tube growth, but various field trials have shown that it enhances bee activity too.

In **blower applicators**, **Vericet** can be used as the carrier agent, replacing old-fashioned, inert carriers (used primarily to account for imperfect machinery calibration), while supplying a rich source of energy and key nutrients applied at just the right time and place to get maximal impact in this all-important process.

“Serving the Agricultural Community Since 1929”