

# **APPLES - FRUIT RUSSETT SUPPRESSION**

## General Information

### APPLICATION DIRECTIONS

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. Do not apply this product through any type of irrigation system.

### Use Instructions

ProVide 10 SG is a plant growth regulator developed for use in apples. The active ingredient in ProVide 10 SG is a mixture of the Gibberellins A4 and A7. Gibberellins are naturally occurring compounds found in most plants. ProVide 10 SG is formulated as a water soluble granule (SG) at a 10.0% w/w concentration. The following are the commercial uses for ProVide 10 SG.

### Limitations, Restrictions, and Exceptions

## APPLES

### Fruit Russet Suppression in Apples

ProVide 10 SG reduces physiological skin russetting when applied in a post-bloom spray program. Physiological skin russetting is generally associated with high humidity conditions and the presence of water on the fruit surface during the first 30 to 40 days of fruit development. Russet severity at a given location and season is therefore specifically influenced by the weather conditions during and following the bloom period. The key conditions influencing russet include precipitation, humidity and temperature.

ProVide 10 SG will not reduce damage associated with mechanical forces such as limb or pedicel rub, insect damage, or russet produced by certain pesticides.

Since the active ingredient in ProVide 10 SG (gibberellins) is a very effective growth promotant, fruit growth enhancement and higher percentage of large fruit will be expected from the ProVide 10 SG applications in addition to improved finish and packout.

### Application Rate and Timing

Make 2 to 4 applications of 2.1 to 3.5 oz. (60-100 grams) of ProVide 10 SG per acre in 100 gallons of water per application (15-25 ppm). Always make the first spray at the beginning of petal fall, and continue at 7 to 10 day intervals.

### Water Volume

Use sufficient water to achieve adequate coverage of the tree canopy without excessive runoff or dilution of the material. For most modern orchards, 100 gallons of spray solution per acre will produce adequate coverage.

### Application Information

1. Number and rate of applications will be based on local weather conditions. In general, with very humid weather during and after bloom (rain, fog and heavy dew) the number of applications and the rate of each application will be increased. Under conditions prone to russet development, best russet control will be seen with four-3.5 oz. (100 grams) per acre applications of ProVide 10 SG.
2. The use of spray additives is not required. Some spray additives have been shown to induce russet.
3. Do not use excessive spray volume since excess moisture has been shown to induce russet.
4. Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and fruitlets.
5. Direct 85% of the spray volume to the upper two-thirds of the tree.
6. Minimize excessive spray drift by applying when air is calm.

7. Rainfall within six hours after spraying has been seen to reduce the activity of ProVide 10 SG.

8. Compatibility: Limited data are available on the use of ProVide 10 SG with other pesticides. Some pesticides have been shown to cause russet when applied during the early stages of fruit growth. Do not tank mix ProVide 10 SG with other pesticides unless you have personal experience with the mixture.

Method

[Spray](#)

Rates

[field\\_rates 0](#)

[field\\_rates 1](#)

[field\\_rates 2](#)

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Restricted Entry Interval

12 hours

Timings

[At the beginning of petal fall.](#)