

Integrate™ SAVES Water and INCREASES Yield



Tomas Perez Garcia

Integrate is a non-ionic, soil surfactant that can significantly reduce the amount of water required to maintain crop quality and yield. This concept intrigued one of the leading growers of Casi* , Tomas Perez Garcia. Due to the high salinity of the local water (above 4000mS/cm) irrigation water is run through a reverse osmosis system making the water expensive by the time it reaches the crop.

In an effort to control costs, minimize water waste, and optimize rootzone water levels and nutrients, all irrigation is controlled by tensiometers. The tensiometers measure the moisture content of the soil and trigger irrigation via a double line drip tape spaced approximately every 4 feet.

A trial began in the spring of 2014 on approximately 5 acres of a commercial melon crop. Integrate 80 was applied at the following rates and intervals.

- 32 oz per acre after planting
- 16 oz per acre two weeks after planting
- 16 oz per acre four weeks after planting

After just 4 weeks tensiometer readings detected sufficient moisture levels and irrigation on the Integrate treated area was stopped for nine days. After that, irrigation intervals were reduced from 1.5 hours per day to 20 minutes per day.

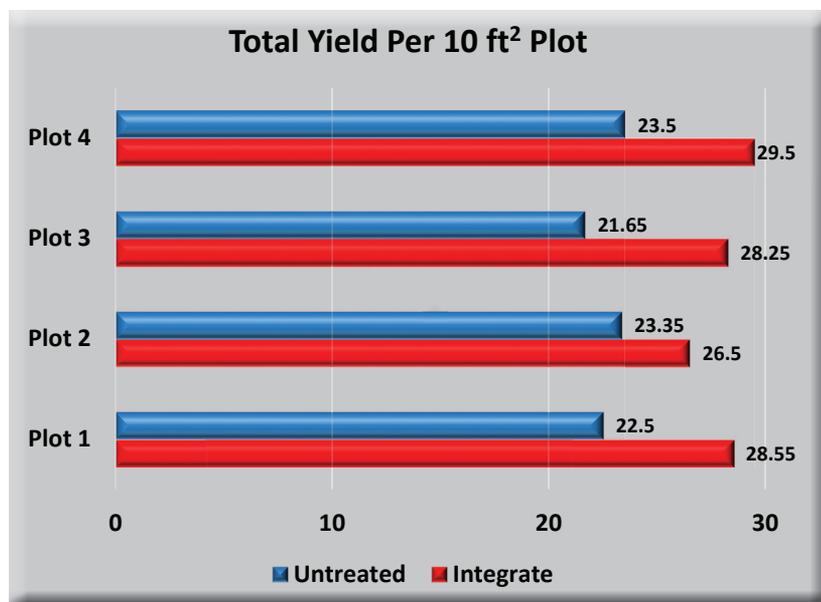
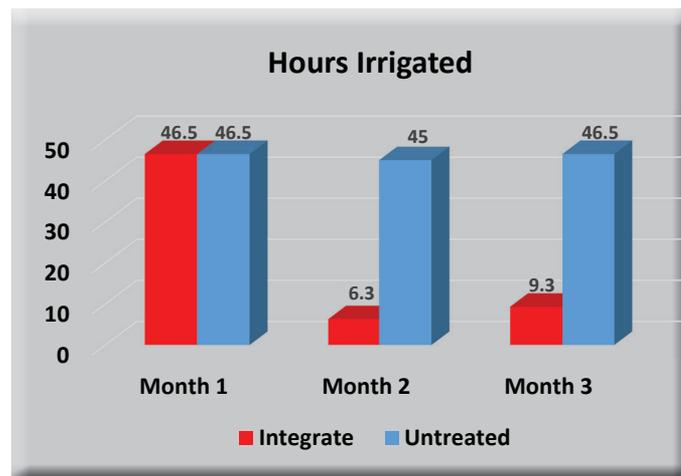
From that point until harvest only 20 minutes per day of irrigation was required to grow the crop!



See Irrigation and Yield Data on Reverse Side

Saved Irrigation Water

Hours irrigated is especially low for Integrate treated acres in month two as there were nine days that tensiometer readings detected adequate moisture levels. It is important to note that the growers standard nutrient program was being injected at the same time as irrigation.



Increased Yield

Historically the average yield for cantaloupe melons in this field is 4.5 per 10 ft². The data illustrates the numbers of melons harvested from four Integrate treated and four untreated 10 ft² plots.

The graph clearly shows both crops performed well, however, Integrate increased the availability of water and nutrients improving the yield of the melon crop.

** Integrate is available in a 20% and 80% active ingredient formulation.
1 gal of Integrate 20 = 1 qt (32 oz) of Integrate 80.*

Always read product label for complete use instructions.

In California, Integrate 20 and Integrate 80 have only been registered for use as an auxiliary soil and plant substance, and therefore are not approved or intended to be used in California with a pesticide product or pesticide spray mixture