

Fyllo: Impact report after one season of usage in tomato

Introduction:

Fyllo was installed at tomato plot on August 28,2020. Harvesting of the crop stated in phases on October 8, 2020.



Following are the details about crop and plot:

Crop Name: Tomato **Variety:** Clouse 225 **Plantation Date:** 21 July 2020

Harvesting Start Date: October 8 2020 **Installation Date:** August 28, 2020

Area: 0.5 Acres **Soil Type:** Loam with 73% WHC **No. of Plants:** 3800

Planting Distance: 9ft

Practices Followed before Fyllo:

Our system provides farmers with decision support system on irrigation, fertigation, disease and pest predictions based on real time farm data.

Before Fyllo was installed, Farmers used to take decisions based on their experience.

Following are the data points about practices before Fyllo:

Average days/irrigation: 6

Water usage: 25600 litres/acre/day

Total water usage: $180 \times 25600 = 4608000$ litres /acre

Fertigation: In half irrigations – 15 totals

Data points about package of practices after Fyllo:

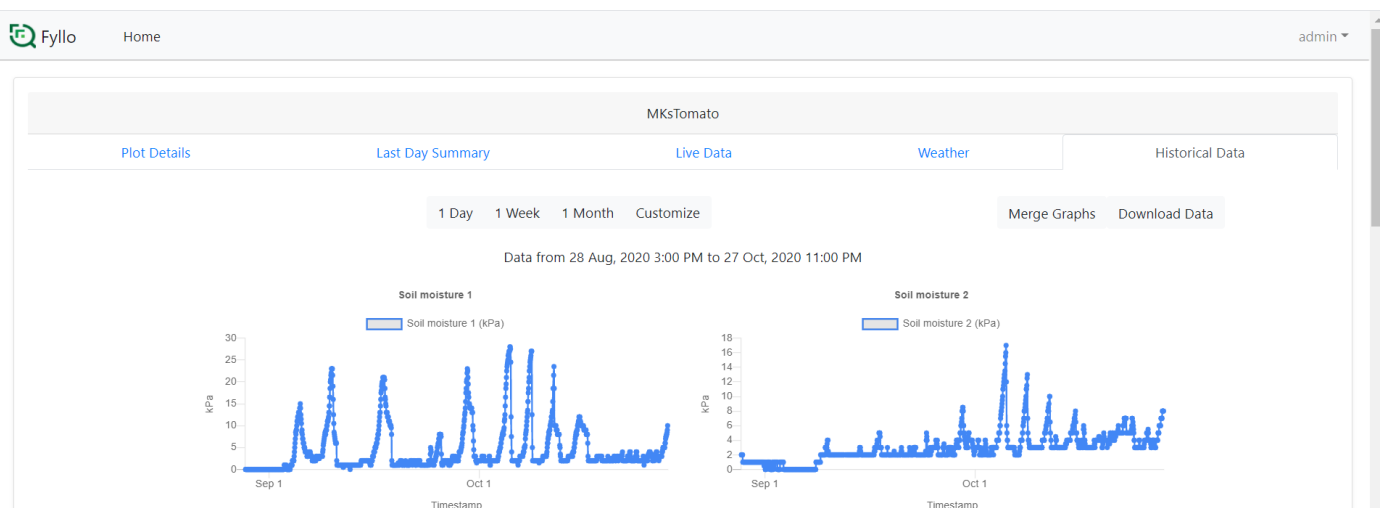
Average Irrigation – 7 days

Water usage: 21000 litres/acre/day

Total water usage: $21000 \times 180 = 780000$ litres/acre

Fertigation: Per irrigation – 12 totals

Irrigation Data:



Note:

1. All the peaks are irrigation points.
2. Initially, there used to be more difference between primary and secondary root zone moisture that reduced gradually showing strengthening of root zone

Results after using for one season:

Picking of the plot started on 10th October 2020. Following is the data collected at the time of harvesting:

Average Weight per fruit: 160gm

Per plant bunch weight – 9.21 kg/plant

Total production: 35000 kg

Exported Production: 22000 kg

Locally sold production: 13000 kg

Export Rate: Rs. 35/kg

Local Rate: Rs 25 /kg

Total: $35 \times 22000 + 25 \times 13000 = 10,95000$

Note:

1. The quality, stiffness was maintained on the fruit even after three harvests.
2. No spot or any other disease spots were seen on fruit.
3. All the exported produce was sold into Dubai market.
4. Bunch Size varied from 120g to 200g
5. All the sprays were taken preventive based on data
6. All the leaves are intact even after 3 time picking of tomato fruit.

Harvesting Photos:



