



# CASE STUDY: REPORT ON THE BAHAVIOR OF A POMEGRANATE ORCHARD UNDER THE INFLUENCE OF TERRABELLA®

#### I. Introduction

A test of the effectiveness of TerraBella® was conducted in 2013 in the pomegranate orchard of Mr. Mashali in MoshavArugot, Israel.

### **II. Test Process**

Total Test Area: 10 tree Treated Area: Lines 3, 4, Control: Lines 1-2, 5-9

lines in 2,000<sup>2</sup> meters, or and 10

2 dunam

Amount of TerraBella®: .5 liters

<u>Applications</u>	<u>Date</u>	<u>Amount</u>	
#1	April 2013	250 ml	
#2	May 2013	125 ml	
#3	June 2013	125 ml	

Harvest: October 1, 2013

#### Notes

- It should be noted that the first application,was done while the trees were already flowering. (Optimal results from TerraBella® are realized when the first application occurs before flowering.) TerraBella® was applied to the soil at the base of the trees.
- Present at harvest time were Mr. Mashali, his partner, Mr. Shim'on and Mr. Nissim Barnea and Shim'on Ben Haim representing TerraBella Israel. The owners oversaw the harvest; confirmed that all mature fruit was picked; ensured treated and untreated pomegranates were placed in separate boxes one box per tree; and supervised the counting and weighing.
- At harvest, three trees from lines 3 and 10 (treated) and three trees from lines 5 and 8 (untreated) were randomly selected for counting and weighing of mature fruit.





## III. RESULTS

Table 1: Summary

Mean Weight per Fruit			
(grams)	Count	Weight (Kg)	
652	352	229.5	TerraBella®
549	314	172.5	Control
+19%	+12%	+33%	Difference



## Table 2 – Detail: 3 Trees Treated With TerraBella®

	Description	
1	Overall weight of fruit in box from trees in line 10	97Kg
2	Overall # units of fruit in box from trees in line 10	130
3	Mean weight of fruit in box from trees in line 10	746gr
4	Overall weight of fruit in box from trees in line 3	132,5Kg
5	Overall # units of fruit in box from trees in line 3	222
6	Mean weight of fruit in box from trees in line 3	596gr
7	Overall weight of fruit in box from treated trees	229,5Kg
8	Overall # units of fruit in box from treated trees	<u>352</u>
9	Mean weight of fruit in box from treated trees	652gr



Weighing the Pomegranates



Table 3 – Detail: 3 Control Trees

	Description	
1	Overall weight of fruit in box from trees in line 8	60Kg
2	Overall # units of fruit in box from trees in line 8	103
3	Mean weight of fruit in box from trees in line 8	582gr
4	Overall weight of fruit in box from trees in line 5	112,5Kg
5	Overall # units of fruit in box from trees in line 5	211
6	Mean weight of fruit in box from trees in line 5	533gr
7	Overall weight of fruit in box from un treated trees	172,5Kg
8	Overall # units of fruit in box from treated trees	<u>314</u>
9	Mean weight of fruit in box from treated trees	549gr

#### **IV.Conclusion**

Even though TerraBella® was applied later than recommended, namely after the flowering, the results show its effectiveness promoting the healthy development of the fruit and trees. Also observed was an accelerated maturation of the fruit, allowing the farmer to get to the market earlier and capture higher price per gram with larger and more fruit.

The **return on investment** for the farmer is central to the decision to use **TerraBella**<sup>®</sup>. For this harvest, considering the cost of the **TerraBella**<sup>®</sup> and revenue per unit, the **33% yield increase** generated an **ROI of 2,461%**.

TerraBella® has shown that it generates a high ROI, while contributing to a more biologically balanced soil, with correct root development and better absorption of nutrients from the soil.



For more information about TerraBella® or this case study, please call Aquabella Organic Solutions at 1-707-829-3347 or email info@aquabellaorganics.com.