

January 30, 2014

**REPORT ON A LETTUCE (*Lactuca sativa*, Iceberg variety),
PLANTATION UNDER THE INFLUENCE OF TERRABELLA®.
*WINTER HARVEST***

I. Introduction

In 2013, two trials of TerraBella® on the lettuce crops of Korin Arad farms were conducted – one harvested in August, the other in November. The August harvest showed yield increases of 21% in weight and 10% the number of heads. The November harvest showed increases of 24% in weight and 18% in the number of heads. The winter 2014 trial was conducted to determine any variability in results in lower temperatures and longer growing season.

II. Test Process

Treated Area: 4 dunam, or .4 hectares

Amount of TerraBella®: 750 ml

Applications	Date	Amount
#1	November 13, 2013	375 ml
#2	November 23, 2013	375 ml

Harvest: January 28, 2014

Notes

- The test involved *two* applications of **TerraBella®**, not *three* as recommended for full effectiveness.
- Four plots of 4mts long were marked on the lettuces beds for the **TerraBella®** treated as well as for the control plots.
- Besides the workers in charge of the collection, on site were Mr. Nissim Barnea and Shimon Ben Haim from **TerraBella®** Israel.
- The collection process followed commercial standards employed on Korin Arad farms. Lettuce heads were stored in proper crates.
- The measurement process replicated that used in August and November, with the same person in charge and the same measurement tools. Weight was measured and heads were counted.



III. Results

Table 1: Summary

Mean weight per Head (grams)	Count (Heads)	Weight (Kg)	
490	228	112	TerraBella®
461	180	83	Control
+6%	+27%	+35%	Difference

Table 2: Details - Lots treated with **TerraBella®**

	Lot 1	Lot 2	Lot 3	Lot 4
Overall Weight	21 Kg	32 Kg	28 Kg	31 Kg
Number of Units	48	60	60	60
Mean Weigh/Unit	0.44Kg	0.53Kg	0.47Kg	0.52kg
Total Weight	112Kg	Total Units 228	Mean Weight/Unit	490 gr



Table 3: Details - Control

	Lot 1	Lot 2	Lot 3	Lot 4
Overall Weight	26 Kg	15 Kg	23 Kg	19 Kg
Number of Units	48	36	48	48
Mean Weigh/Unit	0.54	0.42	0.48	0.40
Total Weight		83Kg	Total Units 180	Weight/Unit 461gr

IV. Conclusion

- The results show the effectiveness of **TerraBella®** during the winter – as well as the summer and fall. With winter’s longer growing period and lower temperatures, yields increased 27% in the number of heads and 35% in total weight, versus the control area. The increase in weight per head rose a more modest but still significant 6%.
- The **return on investment** for the farmer is central to the decision to use **TerraBella®**. For this harvest, considering the cost of the **TerraBella®** and the per-head revenue, the 27% increase in per-head yield generated an **ROI of 3,181%**.

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.