EcoFlora trial in Broccoli

Product: EcoFlora   **Trial setting: Field trial**
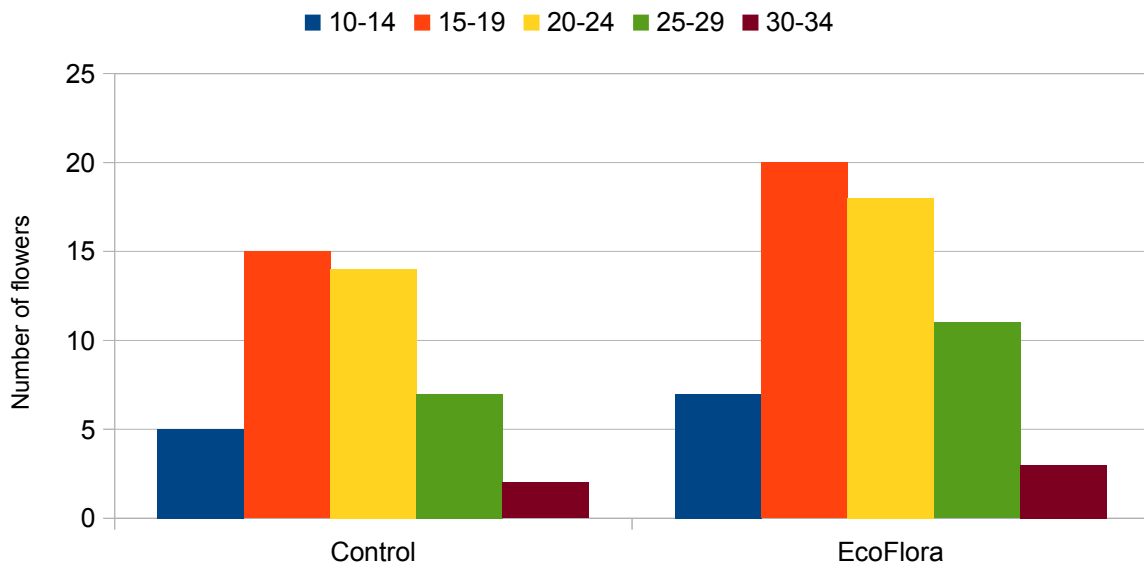**Crop: Broccoli**   **Location: Mosquera, Colombia**

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Methods

Eight beds planted with broccoli were used for a trial to evaluate the effect of EcoFlora. Four beds were treated with EcoFlora while the other four were used as controls. Commercial culture methods were used. The beds were drip irrigated throughout the crop cycle.

EcoFlora was applied at planting at a rate of 400 grams per hectare (5.7 oz/acre). On days 20 and 40 EcoFlora was applied at a dose of 200 grams per hectare (2.85 oz/acre).

Diameter of flowers in centimeters

■ 10-14   ■ 15-19   ■ 20-24   ■ 25-29   ■ 30-34

Two harvests were performed on day 80 and 95. Diameter and weight of flowers were evaluated as well as total yield at each harvest.

Results

Average weight of broccoli flowers (in pounds) in four replicate beds under both treatments

SD = Standard deviation – CV = Coefficient of variation = (SD/mean)x100

	Control	EcoFlora
Average	2.125	2.688
SD	1.108	0.625
CV	52.14%	23.25%

Average yield of broccoli (in pounds) in four replicate beds under both treatments

Control	First Harvest	Second Harvest
Average	42.5	41.25
SD	22.17	18.87
CV	52.16%	45.75%

EcoFlora	First Harvest	Second Harvest
Average	53.75	67.5
SD	12.5	15
CV	23.26%	22.22%

Conclusion

The quality of the broccoli flowers produced under the EcoFlora treatment was much better as evaluated by size and weight. Furthermore the variation in weight between flowers was reduced by more than half as determined by the coefficient of variation (from 52.14% to 23.25%).

Yield of broccoli was increased during both harvests under the EcoFlora treatment, particularly during the second harvest. Variation in production between beds was also reduced by more than half under the EcoFlora treatment.

In conclusion, better quality broccoli, more uniform in weight, higher yield and less variation between production beds resulted from the use of EcoFlora.