



SUSTAINABLE TECHNOLOGIES

Agriculture | Commercial | Industrial | Marine



EcoSolv Water Enhancement (Las Marismas de Lebrija S.C.A. C.A.) is a cooperative company established on September 13, 1979, in the Lower Guadalquivir. After the marshes on the left bank of the Guadalquivir river were drained to create farmable land, there was a need to create an entity that could provide services to over 14,000 hectares of farmland that began to be cultivated near Lebrija Spain.

In the summer of 2020, a test was carried out on the tomato cultivation industry. The area suffers significant water supply restrictions, the EcoSolv device adapts easily to the irrigation system of these farms.

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# RESULTS OF INPUT REDUCTION TESTS ON TOMATO PLOT

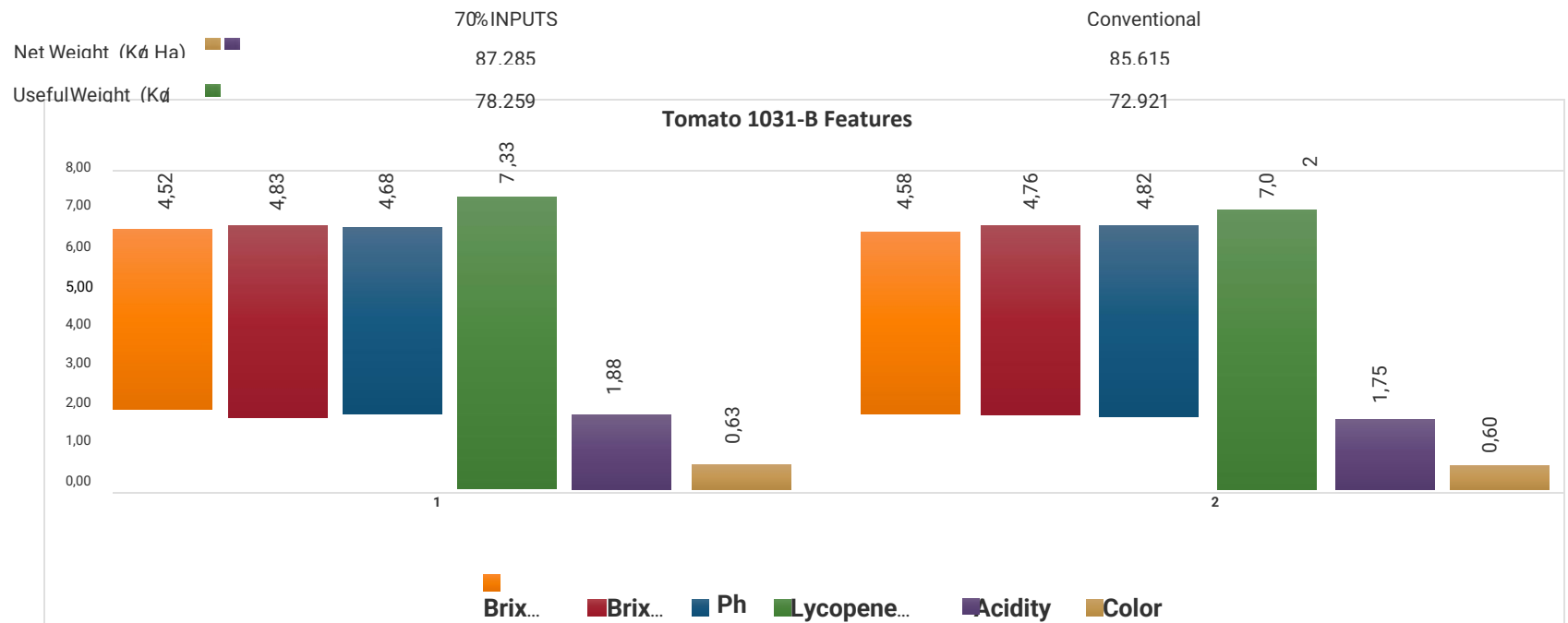
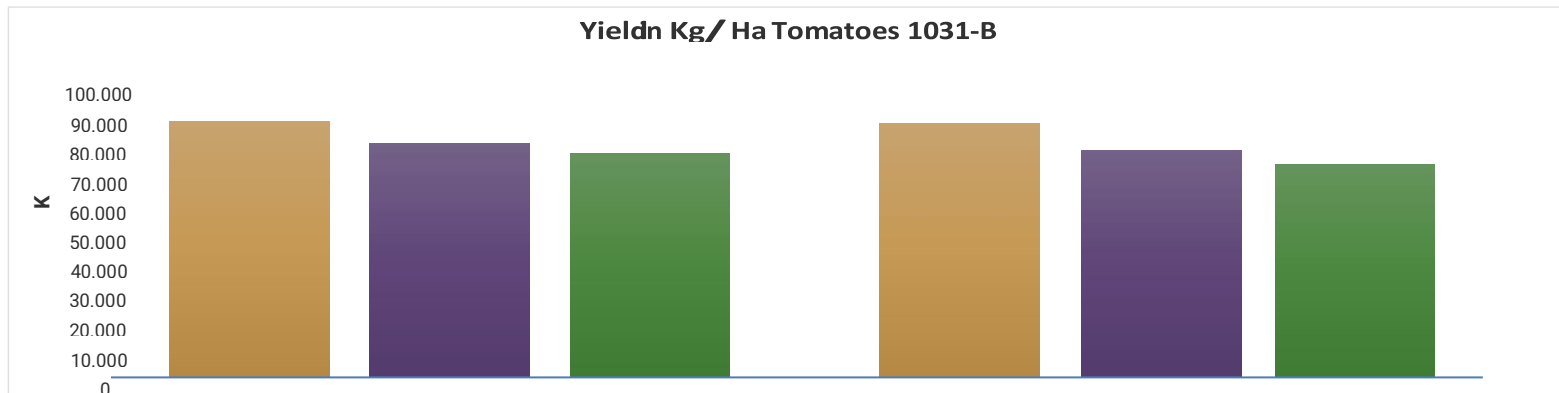
1031-B

Variety	Code	Loins	Net Weight (Kg)	Net Weight (Kg / Ha)	% Witness (Net Weight)	Useful Weight (Kg)	Useful Weight (Kg / Ha)	% Witness (Useful)
70% INPUTS	2	36	116.380	87.285	102%	104.345	78.259	107%
Conventional	1	33	104.640	85.615	100%	89.126	72.921	100%

69

Weight Fixed (Kg)	Weight Corrected (Kg / Ha)	% Witness (Weight Corrected )	Brix (Scale)	Brix (Laboratory)	Ph	Lycopene (mg%)	Color	Acidity
97.264	72.948	106%	4,52	4,83	4,68	7,33	1,88	0,63
84.200	68.891	100%	4,58	4,76	4,82	7,02	1,75	0,60

# RESULTS OF INPUT REDUCTION TESTS ON TOMATO PLOT 1031- B



## RESULTS OF INPUT REDUCTION TESTS ON TOMATO PLOT 1031-B

Variety	Code	Loins	Surface (Ha)	CONSUMPTION M3 TOTAL WATER	Consumpti on M3/Ha	Price Total	PRICE/Ha
70% INPUTS	2	36	1,33	6.706	5.030	€156.92	€117.69
Conventional	1	33	1,22	8.317	6.805	€194.61	€159.23

Total CONSUMPTION 15121,50 M3 2,56 15.023

Saving:	€37.69	€41.54
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RESULTS OF INPUT REDUCTION TESTS ON TOMATO PLOT 1031-B					
Variety	Code	Loins	SUPERFIC IE (Ha)	NO PEONADAS WORKER CLEAN DROPPERS	COST PAWNS/H A
70% INPUTS	2	36	1,33	0,00	€0.00
Conventional	1	33	1,22	2,00	€100.00
Total SAVINGS:					€100.00

Date	Document No.	Product	Amount	AMOUNT WITH VAT	Total
10/3/20	SU20002542	N and S	1025	€0.55	€567.85
7/5/20	SU20006384	stimulant root	1	€59.60	€59.60
20/5/20	SU20007146	Ammonium nitrate 34.5%	50	€0.30	€15.10
29/5/20	SU20007805	sun. NITR 30%	1300	€0.22	€282.10
29/5/20	SU20007853	Phosphoric acid	2	€18.40	€36.80
5/6/20	SU20008424	herbicide pre-emergency	2	€11.75	€23.50
10/6/20	SU20008703	phosphoric acid 52%	2	€13.40	€26.80
19/6/20	SU20009600	stimulating growth	1	€54.50	€54.50
22/6/20	SU20009763	calcium	2	€65.95	€131.90
22/6/20	SU20009763	magnesium sulfate	3	€9.00	€27.00
22/6/20	SU20009763	phosphoric acid 52%	2	€18.40	€36.80
29/6/20	SU20010348	sun. NPK L200	1370	€0.35	€484.98
29/6/20	SU20010363	phosphoric acid 52%	2	€18.40	€36.80
29/6/20	SU20010363	Herbicide	2	€11.75	€23.50
17/7/20	SU20012121	Herbicide	2	€11.75	€23.50
27/7/20	SU20012758	Phosphoric acid	2	€18.40	€36.80
4/8/20	SU20013389	N S PHC	20	€2.35	€47.00
20/8/20	SU20014058	roxido & acid disinfects	1	€68.22	€68.22

**SAVINGS/HA €232.76**

**Total: €1,982.75**

**TOMATO INPUT REDUCTION TEST RESULTS**

Variety	Code	Loins	Surface (Ha)	TOTAL SUBSCRIPTION COST	Cost ABONO/Ha
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70% INPUTS	2	36	1,33	€879.31	€659.48
ONVENCIONA	1	33	1,22	€1,090.51	€892.24

Eu/ha		Savings	
		%	savings%
1151,47	total cost	67,4937254	32,5062746
777,17	with wd		

A unit like the one tested is enough to water a surface area of 12 ha (hectare). We assume that the amount of water needed for the tomato is about 6800 m3 per ha. This is about 81,600 m3 in 12 ha of tomato.

**30% water savings are inferred from the test data, i.e. 24,480 h3. With these savings, you could water 3.6 ha more.**

The release of resources, therefore, represents an increase in production WITHOUT additional water of approximately 400 ha (This calculation is based on average production of 1400 ha dedicated to tomato in a normal campaign.)

The significant reduction in direct costs frees up financial resources if the total direct cost represents about 375 euros of savings per ha, and the total direct cost of the witness is 1,151 euros we will have freed up resources to plant 0.33 ha for each conventional ha.

This means with a single team for 12ha, 3.96 ha more.

In the case of planting 1400 ha, the total savings can be estimated at 525,000 Euros. That is to say about 675 ha more with savings units or 456 has conventional

Each unit costs approximately 8000 euros. About 670 euros per ha. It is paid in 1.78 years if only used in one crop.

Corporate Information



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SUSTAINABLE TECHNOLOGIES

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