

BLUEBERRY

Increased vegetative development and quality



PLACE

Test location:	Comuna de Máfil – XIV Región (Los Ríos)
Person in charge:	Sociedad Raíces Limitada, ECR Ltda
Number of thesis:	4
Type of cultivation:	Open field
Technique of distribution:	Soil application + Fertigation
Period:	26/10/2020 – 10/06/2021
Variety:	Legacy (Year 2007, 5128 plants/ha)
Tested products:	FERTIL, ILSADRIP FORTE



OBJECTIVE

To evaluate the effect of the application of Ilsadrip Forte and Fertil on the availability of nitrogen, on vegetative growth and on the quality of blueberry fruits in organic farming.

FRUIT TREES



RESULTS ACHIEVED

Tests were carried out on blueberries to evaluate the best combination of the products Fertil (100% Agrogel®) and Ilsadrip Forte (100% Gelamin®) on the improvement of vegetative and quality parameters. Different thesis were adopted: the first one received only one application of Fertil in the soil, the second one received only Ilsadrip Forte with three interventions in fertigation, while the third one received both products combined.

All the thesis gave superior results compared to the untreated thesis, both in terms of foliar nitrogen content, dry weight of the roots and shoot development, and in terms of fruit firmness and dry matter values, which are very important quality parameters in Chile for blueberries, since most of the fruit is exported.

It should be noted that fertigation applications alone with Ilsadrip Forte are particularly effective in promoting foliar nitrogen uptake and in increasing the dry matter of the fruits. On the other hand, soil application of Fertil, with more units of organic nitrogen delivered to the soil, is more effective, either alone or in combination with Ilsadrip Forte, in increasing the vegetative development of the shoots, the volume explored by the roots and the firmness of the fruit.

From the overall comparison, it can be concluded that both products, even when applied individually, give better results than the untreated thesis, but the combination of the two products, i.e. adding Agrogel® to the soil and Gelamin® in fertigation, is optimal for improving the vegetative and quality parameters of blueberry plants grown in organic farming.

TEST PROTOCOL

	ILSA thesis 01	ILSA thesis 02	ILSA thesis 03	Control thesis
26/10/2020	Fertil: 600 kg/ha	/	Fertil: 600 kg/ha	/
02/11/2020	/	Ilsadrip Forte: 10 kg/ha	Ilsadrip Forte: 10 kg/ha	/
09/11/2020	/	Ilsadrip Forte: 10 kg/ha	Ilsadrip Forte: 10 kg/ha	/
16/11/2020	/	Ilsadrip Forte: 10 kg/ha	Ilsadrip Forte: 10 kg/ha	/

The other treatments, fertilisation and plant protection, were similar for all thesis, as per company practice.

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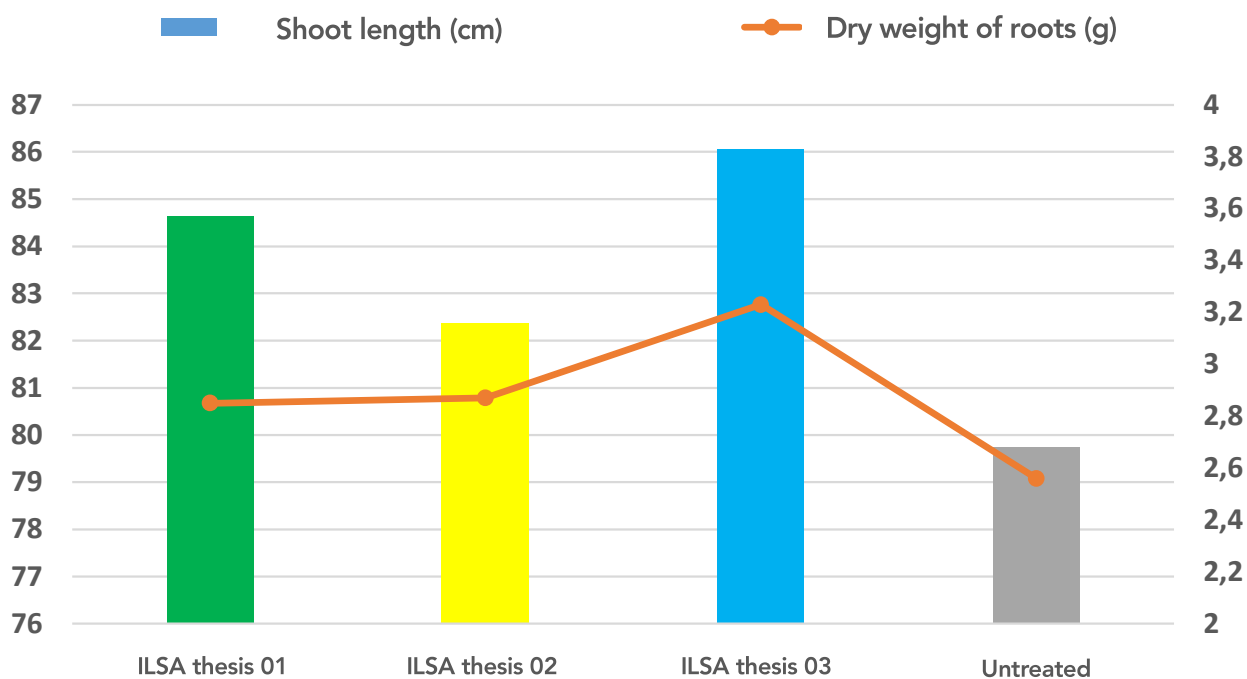


RESULTS ACHIEVED

	ILSA thesis 01	ILSA thesis 02	ILSA thesis 03	Untreated
Foliar N content (%) *	2.09	2.33	2.09	1.86
Dry weight of roots (g)	2.85	2.87	3.23	2.56
Shoot length (cm) (21/12/2020)	84.62	82.36	86.04	79.73
Dry matter of Fruit (%)	20.39	20.72	19.90	19.70
Fruit firmness (N m) **	636.95	632.17	636.19	629.14

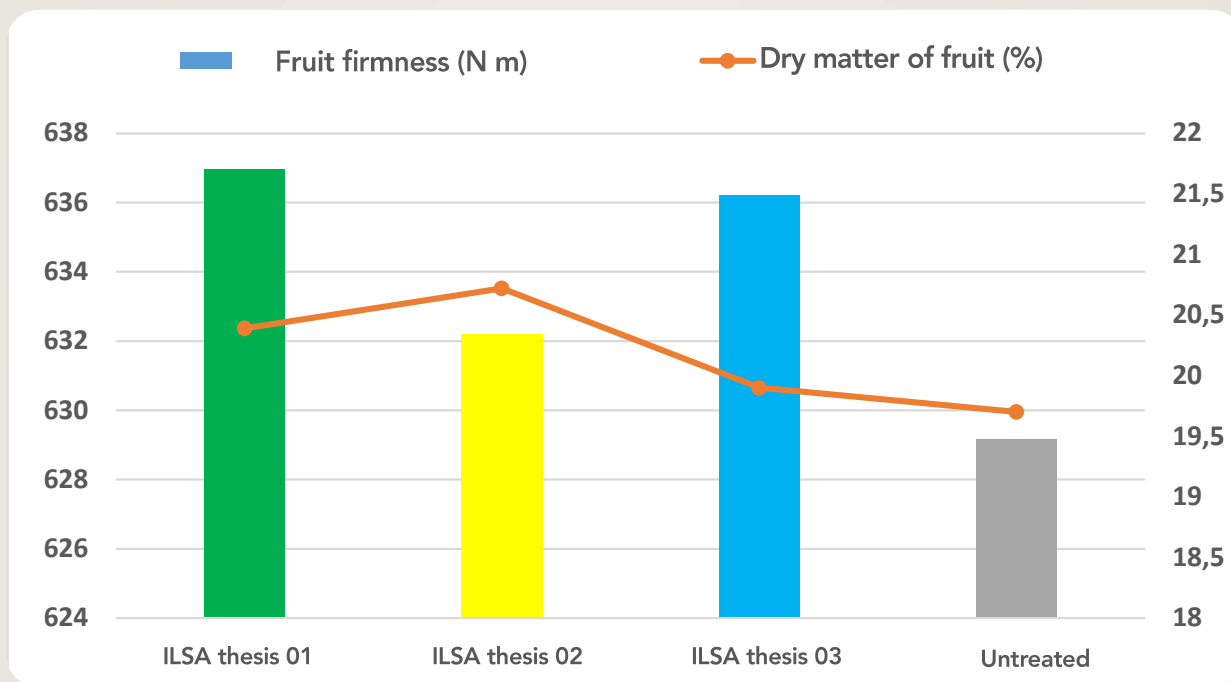
* The initial value of foliar N, before the applications, was 1.92%.

** The firmness of the fruits was measured on five fruits per replicate of each sample, using a "Texturometer Brookfield QTS 25" and expressed in Newton metre (N m)





FRUIT TREES



Overview of the blueberry field, var. Legacy, tested.

