
SEMSA-LATEST REPORT

Trial with foliar fertilizer iQFORTE in soybean SEMSA 107-14-17

**SUMMARY
TABLE**

Evaluated variables	Without application of Biostimulant iQForte	With application of Biostimulant iQForte	Difference
Plant height (cm)	80.7	110.8	+37.3%
Pods per plant	90	101	+12.2%
Weight of 1000 seeds (gr)	168.8	178.6	+5.8%
Yield (k.ha ⁻¹)	2447.7	2810.3	362.6 k.ha ⁻¹ +15%
Yield (qq/mz)	37.9	43.6	5.7 qq/mz

In the summary table we can see the effect of the application of the foliar biostimulant iQForte on plant height and yield components.

We can conclude that in all the 4 variables measured, a tendency to increase the values was observed when the biostimulant was applied. However, the difference in yield between the 2 treatments (without and with foliar), although it was not considerable, it would be important in an area greater than the ½ mz.

Based on this result, it would be important to validate the foliar application in an area greater than ½ mz during the second season of 2019.

The results are presented in greater detail in annexes.

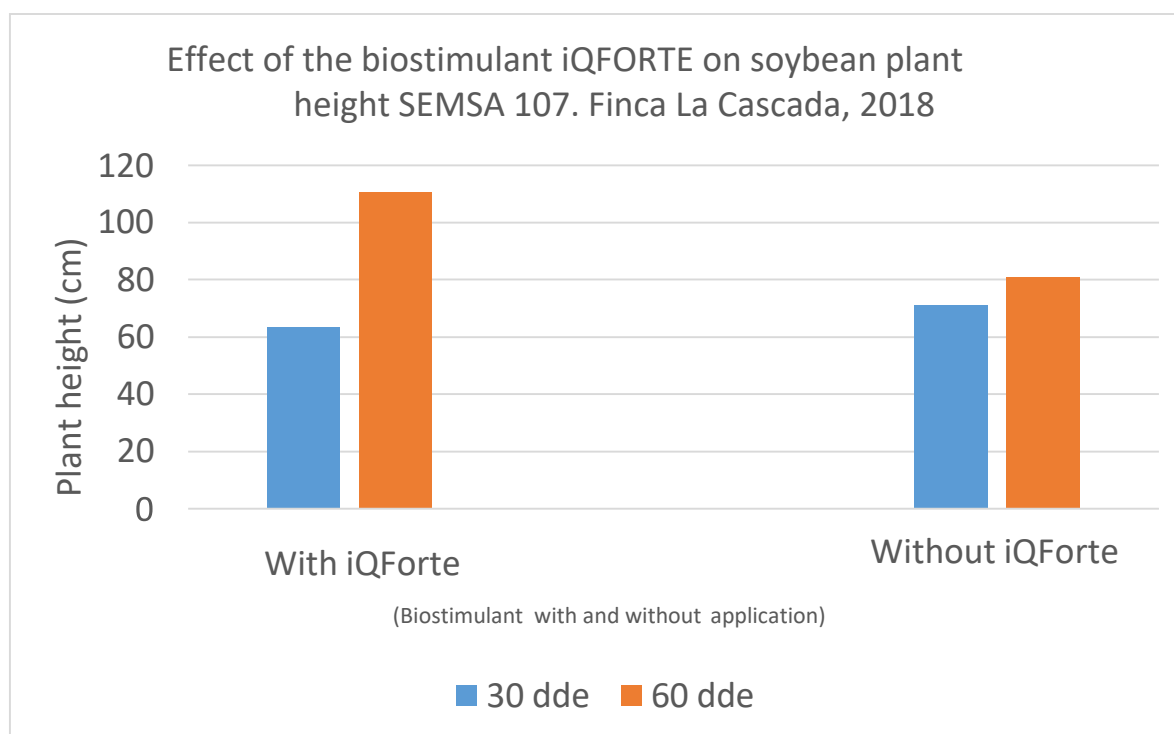
ANNEXES

Table 1 and graph 1 show the data obtained for plant height and the moment of application of the foliar biostimulant iQFORTE. At 60 days after emergence (DAE) the crop shows an increase in plant height of 47.49 cm (110.8 - 63.6) higher than the increase of 9.9 cm observed in the control (80.7 - 70.8)

Table 1. Plant height. FARM LA CASCADA, Postrera 2018

Application time	Application date	Stage of the crop	iQFORTE	CONTROL
			Height (cm)	Height (cm)
Vegetative 6 or 7 knots	September 30th (30 dde)	V6-V7	63.6	70.8
sheath formation (0.5 to 2.0cm)	30th of October (60 dde)	R3-R4	110.8	80.7
Diferencia:			47.49	9.9

Figure 1.



Likewise, graph 2 shows the difference in plant growth during crop development compared to the control.

Graph 2.

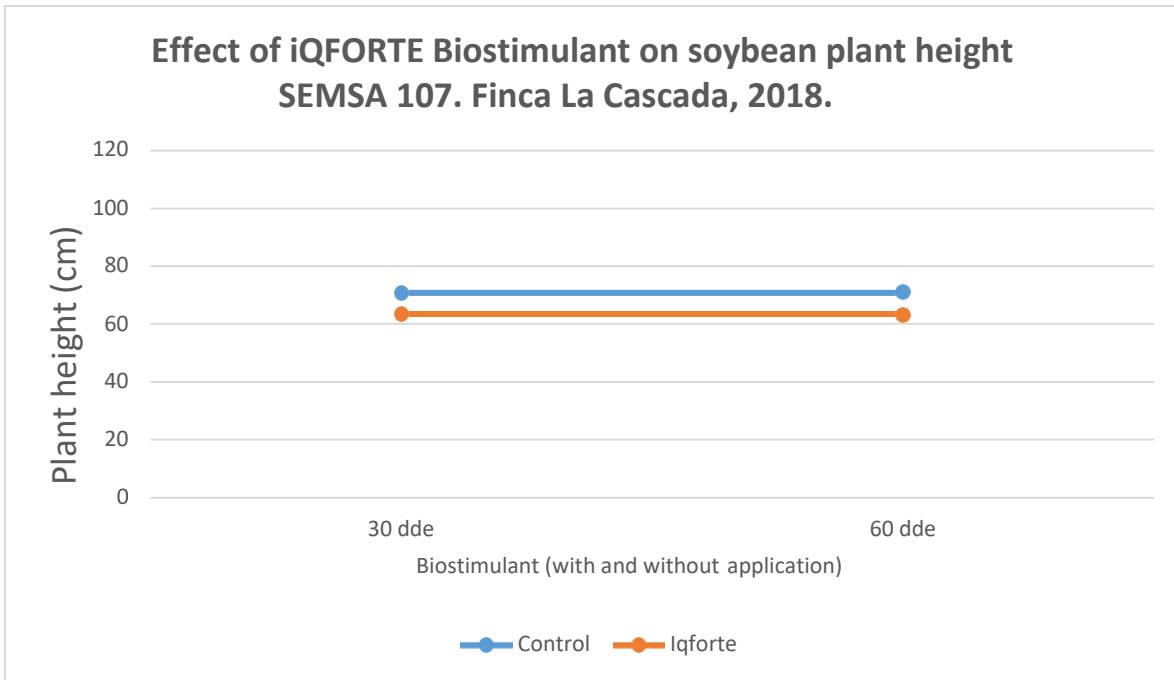


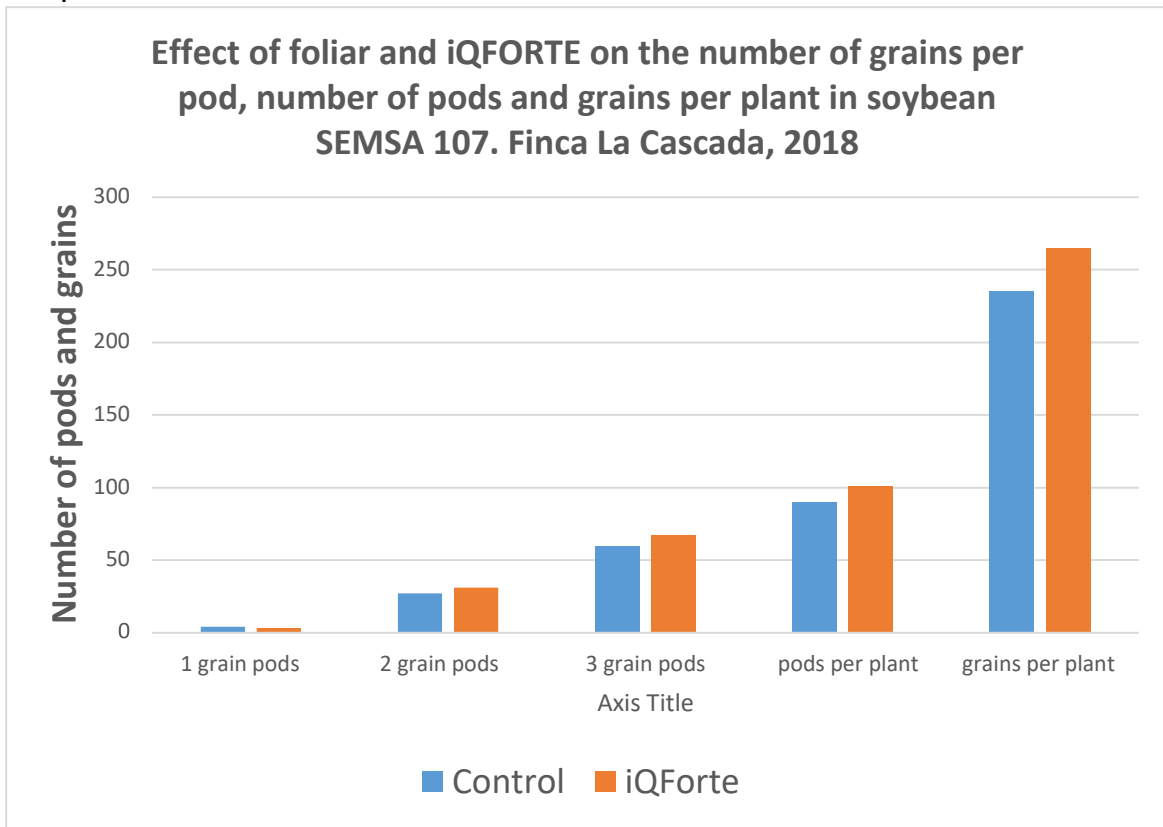
Table 2 and graph 3 show the results of the effect of the Biostimulant foliar on the number of pods with 1, 2 and 3 grain, number of pods per plant and number of grains per plant compared to the control (without biostimulant application).

We can observe that when the product iQFORTE was applied, the number of grains and pods per plant increased.

Table 2.

Treatment	Control	iQFORTE
1 grain pods	4	3
2 grain pods	27	31
3 grain pods	59	67
pods per plant	90	101
grains per plant	235	265

Graph 2.



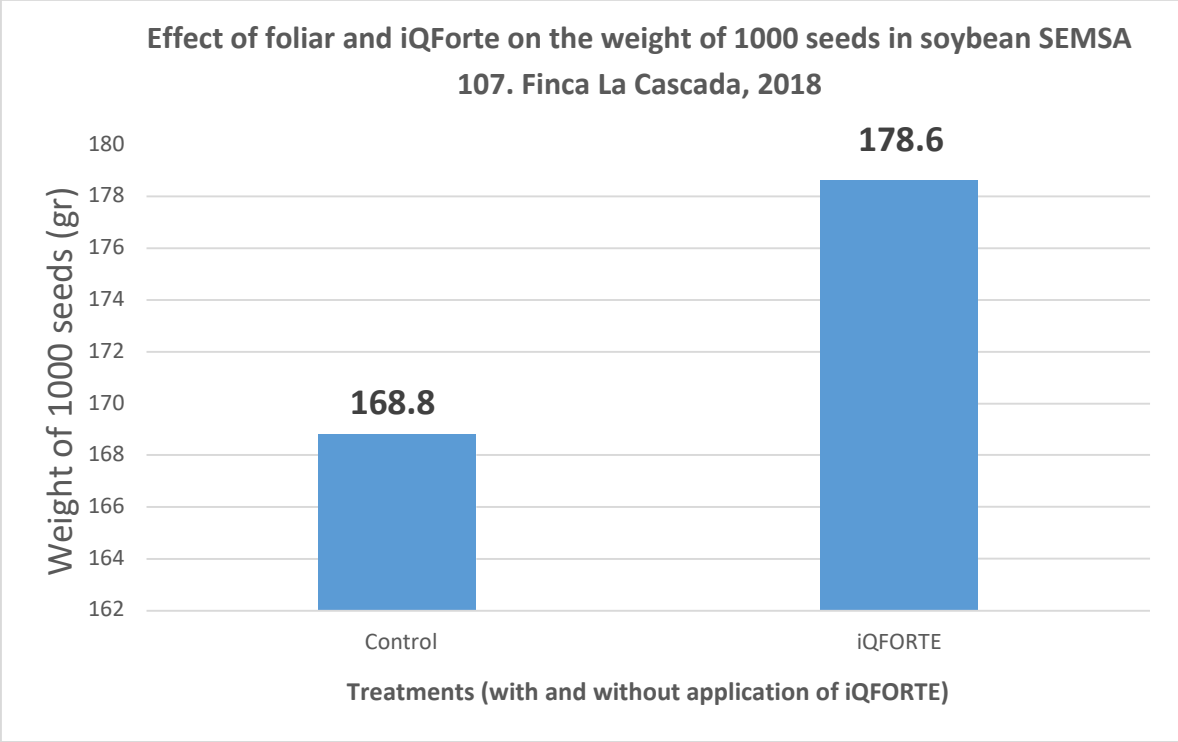
The following table 3 and graphs 4 and 5 show the results of the effect of the foliar iQFORTE on the weight of 1000 seeds and seed yield, respectively.

We can observe that when applying the biostimulant the weight of 1000 seeds is increased by 9.8 gr compared to the control and therefore the yield that shows a difference of 362.6 k.ha⁻¹ in relation to the control.

Table 3.

Treatment	weight of 1000 grain (gr)	Yield (k.ha ⁻¹)	Difference k.ha ⁻¹	Rto. qq/mz	Difference
Control	168.8	2447.7		37.93	
iQFORTE	178.6	2810.3	362.6	43.56	5.63 qq/mz

Graph 2.



Graph 5.

