



The use of controlled released fertilizer in blueberries

Gondy Heijerman
g.heijerman@delphy.nl



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1

Content

- ✦ Trial goal
- ✦ Trial set up
- ✦ First results






2

Goal of the trial


- ✦ Nutrition in blueberries with NPK fertilization: it is important that the K (and N) become the last available for the plant for flower bud formation. After planting, there is a small need for P for rooting.
- ✦ The use of CRF's:
 - Easy to use by only applying it one time
 - Efficient way of use of minerals



3

Trial set up

- ✦ Trial location: Blueberry Giant, Weeze
- ✦ Planting date: 1 March 2019,
- ✦ 1-year-old plants "Topshelf", 1.6 liter pots
- ✦ Rows of 132 meters
- ✦ Planting distance in the row of 90 cm
- ✦ A separate tap section: the plants receive only clear irrigation water



4

Trial set up

- ✦ Planted in ridges of pure white peat
- ✦ Black plastic for weed control
- ✦ Trial objects (composition of the products is formulated by the manufacturers themselves):
 1. ICL
 2. PHC
 3. Ekompany
 4. Mivena 1
 5. Mivena 2
 6. Standard (fertigation)








5






23 July 2019
10 September 2019
12 December 2019



6

Observations


- ✦ Differences in type of growing:
 - Leaf color
 - Amount of new branches
 - Length of new branches
 - Vitality



7

Leaf analysis 12 september 2019

	Target value	A	B	C	D	E	F
Dry matter		44	41,6	37,9	42,7	41,3	40,8
K	150-200	194	189	156	184	169	189
Ca	100-150	85	90	65	87	75	80
Mg	60-100	49,4	49,4	32,9	45,2	37	41,1
N-total	1200-1800	810	850	1000	860	1000	980
Chl		79	68	59	68	65	65
S		34,3	28,1	34,4	34,3	40,5	37,4
P	40-60	38,7	38,7	38,7	38,7	45,2	42
Fe	1,0-2,0	1,1	0,8	0,8	0,9	0,8	1,1
Mn	1,5-4,0	2,38	2,8	2,51	2,8	2,38	2,31
Zn	0,3-0,8	0,199	0,168	0,138	0,168	0,138	0,199
Bo	2,0-5,0	3,06	2,68	2,27	2,86	2,56	2,54
Cu	80	25,2	34,6	29,9	31,5	33	45,6



8

Conclusions

- ✦ No conclusions after only one growing season.
- ✦ Coming growing season new observations:
 - Growing / vitality
 - Yield

- ✦ Unfortunately not possible to visit the trial location during the fieldtrip as it is too wet.



9



Knowledge Development & Implementation

Thank you for your attention!



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10