

Biochar preliminary results

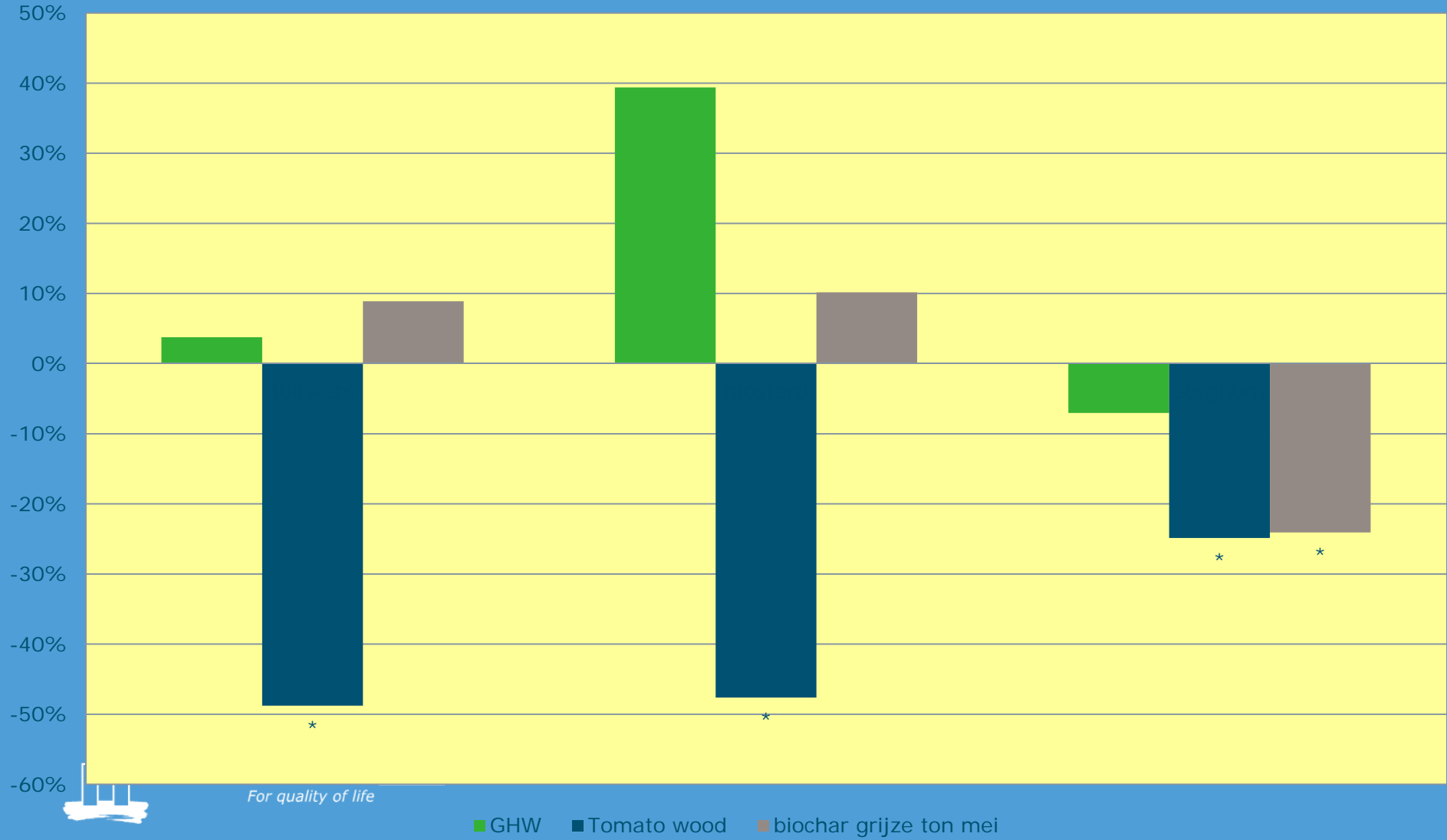
Meeting of project group CN Petten 2015 08 27

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Overview

wortel lengte



For quality of life

■ GHW ■ Tomato wood ■ biochar grijze ton mei

Overview

spruit lengte



For quality of life

GHW Tomato wood biochar grijze ton mei

	Beech- Tom	Wood- Tom	Papir. 670	Papir. 750	100 %W ood- batc h 1	100 %W ood- batc h 2
pH (-)	11	12	12	12	9.4	9.9
EC (mS/cm)	6.8	13	9.6	11	0.53	0.61
NH ₄ (mmol/l)	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1
K (mmol/l)	49.1	94.3	61	84.3	3.6	3.6
Na (mmol/l)	0.5	1	5.1	7.4	0.2	0.2
Ca (mmol/l)	0.3	3	0.3	0.5	0.2	0.3
Mg (mmol/l)	0.1	< 0.1	0.2	0.1	0.2	0.2
Si (mmol/l)	0.3	0.3	0.1	0.2	< 0.1	< 0.1
NO ₃ (mmol/l)	< 0.1	0.2	0.1	0.1	< 0.1	0.1
Cl (mmol/l)	23.6	48.5	47.8	65.2	0.2	0.4
SO ₄ (mmol/l)	10.8	21.4	4.1	4.3	0.4	0.2
HCO ₃ (mmol/l)	3.3	7.2	18.9	19.5	3.2	3.7
P (mmol/l)	< 0.05	< 0.05	< 0.05	< 0.05	0.1	< 0.05
Fe (µmol/l)	0.4	0.9	< 0.4	< 0.4	0.5	0.6
Mn (µmol/l)	0.2	< 0.1	< 0.1	< 0.1	2.2	0.7
Zn (µmol/l)	0.1	0.1	< 0.1	< 0.1	0.2	0.1
B (µmol/l)	13	9	28	35	8	7
Cu (µmol/l)	0.1	5	0.2	0.1	< 0.1	< 0.1
Mo (µmol/l)	0.5	0.9	< 0.1	< 0.1	< 0.1	0.10
WHC (% w/w)	171	210	284	234	217	

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Bulk density (kg/m ³)	131	113	104	129	102	
SSA (m ² /g d.s)	59	81	39	29	119	
As content (% w/w d.s.)	19	28	35	34	13	
total carbon (% w/w d.s.)	77	68	59	59	82	
hydrogen (% w/w d.s.)	1.3	1.4	1.2	1.3	1.5	
nitrogen (% w/w d.s.)	0.7	1.0	0.8	0.9	0.8	
salt content (g/kg d.s)	17	26	32	68	1.6	



Overview

1. BASICS: EC, pH, carbonate, sodium, NH_4/NO_3
2. NUTRITION
3. COIR: specifics
4. BIO FERTILISERS
5. WORLD WIDE TRENDS



End

Thanks!



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