



Sugar beet

Aim of the trial

Increase the production and quality in sugar beet.

General information

Conditions of the trial:

Trial location: Italy - Bologna
Variety: Steffka
Sowing date: 24/04/2018
Experimental design: Plots of 15 m² x 4 replicates
In cooperation with: COPROB

Treatments

Modality 2 = Conventional

Modality 3 = Organic

Mod.	A – In the seed furrow		B – In combination with herbicides			C – In combination with anti-Cercospora treatment				
2	A	Microlan Zn 15	A+B	Chelal B 0.7 Chelal Zn 0.7	Chelal B 1 Chelal Zn 1 Hyberol 2.5					
3	A	-	B	Hyberol 1.5	Hyberol 2.5 Fructol Bio 2.5	B+C	Fructol Bio 2.5 Chelal Cu 0.7	Chelal RD NF 1 Chelal Cu 0.7	Chelal RD NF 1 Chelal Cu 0.7	Chelal RD NF 1 Chelal Cu 0.7
		24/04		14/05	24/05		12/06	26/06	10/07	24/07

The doses are expressed per hectare.

Results

Mod.	RAD Yield (t/ha)	Sugar content (POL) (%)	SACCH (t/ha)	K	Na	N	NPOL	AK Alkalinity coefficient	PSD Purity juice concentrate	PLV Gross salable weight
3BC	68.46	12.93	8.84	3.84	3.51	3.18	24.88	2.38	87.64	1315.76
3B	71.66	12.49	8.96	4.19	3.97	3.69	29.64	2.22	85.79	1305.1
2AB	69.6	12.1	8.42	4.17	4.55	3.95	32.88	2.22	84.32	1200.23
2A	64.83	12.48	8.09	4.32	3.98	4.1	33.04	2.05	85.12	1177.94
3A test	59.41	12.97	7.7	4.74	3.48	3.58	27.62	2.3	86.37	1148.24
C.V.%	6.07	5.06	5.7	3.97	16.69	10.36	14.62	5.1	2.07	7.56
LSD5	5.67	0.89	0.67	0.24	0.91	0.53	6.05	0.16	2.49	129.34

Mod.	RRAD	RPOL	RSACH	RK	RNa	RN	RNPOL	RAK	RPSD	RPLV	
3BC	105.6	103.59	109.3	88.99	88.14	77.51	75.32	116.16	102.97	111.7	A
3B	110.53	100.08	110.69	97.1	99.62	89.95	89.72	108.4	100.79	110.8	A
2AB	107.36	96.94	104.04	96.58	114.31	96.28	99.52	108.48	99.07	101.89	B
2A	100	100	100	100	100	100	100	100	100	100	B
3A test	91.64	103.91	95.18	109.85	87.38	87.26	83.6	112.53	101.47	97.48	B
C.V.%	6.07	5.06	5.7	3.97	16.69	10.36	14.62	5.1	2.07	7.56	
LSD5	8.75	7.13	8.26	5.53	22.88	13.03	18.32	7.86	2.93	10.98	