

📊 raw data (control vs treated)

		Control	Treated	difference
ASH	%	8.39	7.61	-9.3%
N	%	2.43	2.53	+4.1%
P	%	0.16	0.16	+3.9%
K	%	0.90	1.34	+48.9%
Mg	%	0.24	0.23	-4.2%
Ca	%	1.01	0.75	-25.7%
B	ppm	27.01	24.72	-8.5%
Mn	ppm	555.53	670.72	+20.7%
Cu	ppm	4.24	5.19	+22.4%
Zn	ppm	12.95	16.05	+23.9%
Fe	ppm	148.82	140.52	-5.6%

📅 12 months application · S and Cl not analysed

🔗 connecting the dots · key drivers

- K** ↑ **+48.9%** 🚚 sugar transport · fruit fill
- Mn** ↑ **+20.7%** ⚙️ photosynthetic engine
- Cu** ↑ **+22.4%** 🌱 flower conversion
- Zn** ↑ **+23.9%** 🏠 kernel filling · OER
- Ca** ↓ **-25.7%** 🌊 dilution / soil shift
- ASH** ↓ **-9.3%** 📈 more oil per mineral

📈 in-plant Brix ↑ 6.6% → 11.3% (confirmed by K surge)

✅ kernel sink rate: **75%** (treated) vs 0% 📊 OER potential: 1 **up to 30%** industry

🌱 biological narrative: from leaf to fruit

The iBioStim™ protocol acts as a metabolic catalyst. Four nutrients show dramatic, coherent shifts:

- ⚡ Photosynthesis boost** (**Mn ↑21%, Cu ↑22%**) — supercharges energy capture.
- 🚚 Sugar highway** (**K ↑49%**) — transports sucrose to developing bunches (explains Brix 6.6→11.3%).
- 🏠 Kernel & oil synthesis** (**Zn ↑24%, Cu ↑22%**) — denser kernels (75% sink) directly lift OER to 30%.
- 🌊 Soil & dilution signals** (**Ca ↓26%, Ash ↓9%**) — rapid new growth & possible soil regeneration (14-month claim).

— Hover over any metric on the right for the full interpretation. The pattern matches iBioStim™'s reported outcomes: **+1 MT FFB/ha, 30% OER, female flowering shift, and higher Brix.**