

NOVAHIPEAK™

Trial results

Apples (*Malus domestica*) on a loam soil

High purity, fully soluble Nova HiPeak is our most highly concentrated phosphorus and potassium fertilizer in the Nova water-soluble straight portfolio

- Flexible application options
- Crystalline, dust-free physical form keeps the fertilizer free-flowing
- Safe to use, nonhazardous for you and your crop
- Chloride and sodium free, ideal for the most delicate crops
- Quick dissolving in water, in the field, even at low temperatures
- The high concentration of PK provides savings on the number of applications, transport, and storage costs



N	0
P ₂ O ₅	44%
K ₂ O	44%



When

Orchard Age:
7th Leaf
Harvest Date:
September 2022



Where

LTI Ag Research
Kent City, Michigan,
USA



Crop

'Gale Gala' apple on
G11 rootstock
(*Malus domestica*
'Gale Gala')



Soil type

Loam



Measurements

Fruit size and yield
per acre

Objective

To evaluate the effect of foliar application of Nova HiPeak (0-44-44) on apple yield, and to compare its performance at different application rates against a standard grower practice.

Treatments

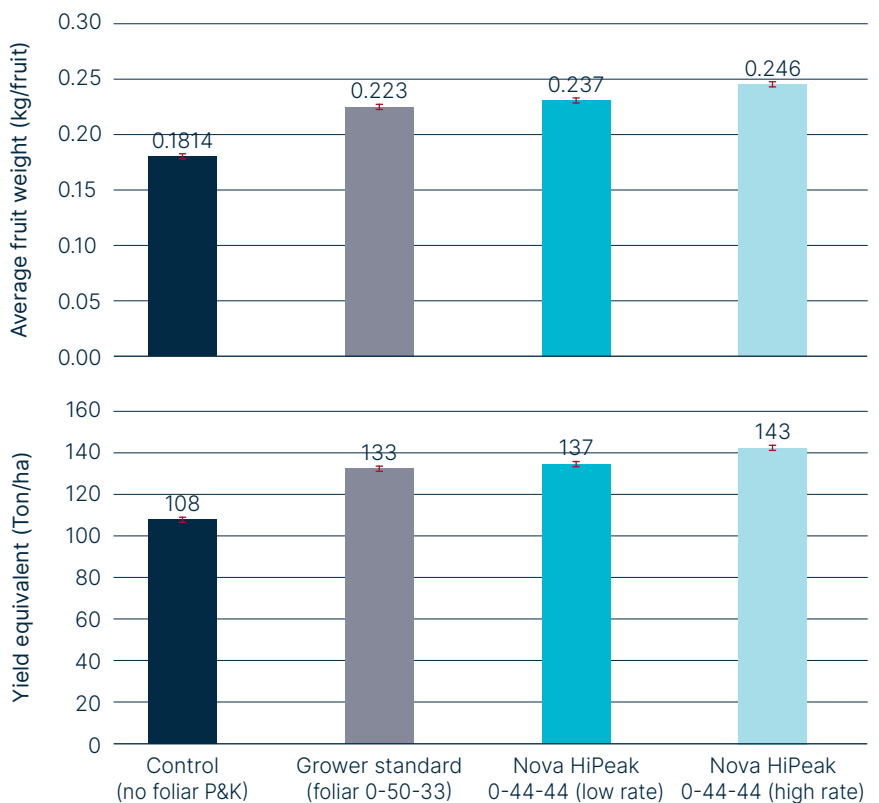
All treatments received a grower standard dry granular N-P-K blend in the spring as well as cover sprays of insecticides, fungicides, and growth regulators according to local recommendations. Each treatment was replicated four times and there were 10 harvested trees within each treatment replicate.

Treatment	Description	Rate (kg/ha)	P ₂ O ₅ (kg/ha)	K ₂ O (kg/ha)
Untreated control	No fertilizer applied	0	0	0
Grower standard	0-50-33 foliar application	2.8	1.4	0.924
Nova HiPeak- Low	0-44-44 foliar application	2.1	0.924	0.924
Nova HiPeak- High	0-44-44 foliar application	8.66	3.81	3.81

Results

- There was no effect of treatment on fruit number per tree.
- On average, foliar nutrition increased individual fruit weight by nearly 30% compared to the untreated control.
- Foliar application increased yield in the grower standard, Nova HiPeak Low and Nova HiPeak High treatments by 24%, 28%, and 33% respectively, compared to the untreated control.
- Foliar application of Nova HiPeak high rate trended higher in yield compared to both 0-50-33 and the low-rate HiPeak treatment.

Effect of foliar Nova HiPeak (0-44-44) on yield of Gala apples



Means presented +/- the standard error of the mean (n=40).

Conclusion

It is recommended to apply 8-10 kg/ha of Nova HiPeak on Gala apples to improve fruit quality and yield performance.



For more information visit

[in](https://www.linkedin.com/company/icl-growing-solutions/) company/icl-growing-solutions/

[@iclgrowingsolutions](https://www.instagram.com/iclgrowingsolutions/)

[f](https://www.facebook.com/ICLgrowingSolutions/) ICLgrowingSolutions

www.icl-growing-solutions.com