

SUMMARY OF RESEARCH AND RESULTS OF MORINGA GROWTH EXTRACTS

Crop	Author	Results	Comments	Institute
Radish (Raphanus sativus)	Edward Berkelaar PhD	94% yield increase	Increase in yield is due to heavier root mass.	North Fort Meyers, Florida, USA
Bush Bean (Paseolus vulgaris)	Edward Berkelaar PhD	65% yield increase	Increase in yield due to higher number of beans per plant	North Fort Meyers, Florida, USA
Peanuts (floor runner)	Nikolaus Foidl	27% yield increase	Larger flowers, increased dry matter, greater yield and higher quality nuts.	University of Hohenheim, Austria.
Soya Bean (CEA-CH 86)	Nikolaus Foidl	37% yield increase	Larger flowers, increased dry matter, greater yield.	University of Hohenheim, Austria.
Cantalope	Nikolaus Foidl	31% yield increase	Fewer loss of flowers after pollination, higher percentage of sugars and minerals.	University of Hohenheim, Austria.
Bell pepper	Nikolaus Foidl	47% yield increase	Increased dry matter.	University of Hohenheim, Austria.
Coffee	Nikolaus Foidl	19% yield increase	Larger bean size, higher quality bean formation.	University of Hohenheim, Austria.

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Penguin Gourd (Calabash Pumpkins)	AgriDevelopment	67% yield increase	Earlier harvest, greater number of fruit.	Levubu Settlement, Limpopo.
Rocket	Mona Abdalla	68% yield increase	Increased dry matter, increased proteins and sugars, increased macro and micro elements in crop plants.	Ain Shams University, Cairo, Egypt.
Tomato	Mvumi et al.	43% yield increase	Stronger plants, more stems per plant, increased fruit weight, increased number of fruit.	Africa University
Wheat (Triticum aestivum)	Manzoor et al.	36% yield increase	Reduction of wheat aphid infestation at milk, booting and heading stages of wheat plant, increased dry matter content, increased growth rate, increased leaf area duration.	Journal of Bio Pesticides
Eggplant/Aubergine (Solanum Melongena)	Anyeagbu et al.	35% yield increase	Increased plant height, increased fruit size, increased number of fruit.	University of Abuja, Nigeria.
Maize	Mvumi et al.	35% yield increase	Increased dry matter, increased plant height.	Greener Journal of Agricultural Sciences
Beans	Mvumi et al.	90% yield increase	Increased dry matter, increased plant height, increased root weight.	Greener Journal of Agricultural Sciences

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Citrus (Citrus nobilis L. X Citrus deliciosa T.)	Nasir et al.	51% yield increase	<p>Significantly increased leaf nutrients:</p> <ul style="list-style-type: none"> - 35% increase in leaf N content - 9% increase in leaf P content - 52% increase in leaf K content - 14% increase in leaf Zn content - 33% increase in leaf Ascorbic acid content <p>Increased yield:</p> <ul style="list-style-type: none"> - 29% increase in fruit set. - significant reduction in fruit drop - increase in number of fruit - increase in number of marketable fruit - increased fruit weight - 20% increase in fruit pulp weight - 36% increase in fruit juice weight <p>Improved fruit quality:</p> <ul style="list-style-type: none"> - 12% increase in fruit soluble solid contents (SSC) - 15% increase in Vit C content - 15% increase in Total Sugars - 29% increase in Total phenolics content and Total antioxidants 	Published in Scientia Horticulturae, conducted by Department of Agronomy and Institute of Horticultural Sciences, University of Agriculture, Pakistan.

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Pear (Pyrus communis X Pyrus serotina)	El-Hamied and El-Amary	95% yield increase	<p>Increased leaf nutrients:</p> <ul style="list-style-type: none"> - Increase in leaf area and total leaf chlorophyll - Increase shoot length and shoot diameter - Increased leaf mineral content (N,P and K) <p>Increased yield:</p> <ul style="list-style-type: none"> - Significant increase in fruit weight per tree (kg/tree) - Increased number of fruit per tree. <p>Improved fruit quality:</p> <ul style="list-style-type: none"> - increased fruit length, diameter, weight and volume - increase in Total Soluble Solids in fruit - increase in Total Sugars. - increase in Vitamin - decrease in acidity of fruit 	Published in Journal of Agriculture and Veterinary Science, conducted at Desert Research Centre, Cairo, Egypt