

## ExploGrow™ field trial results in South Africa 2017

Click on a crop link below for the related case study

Crop	Yield increase	Brix (sugar level) increase	N-P-K reduction	Reduction in watering requirement (estimate)
<b>Soybeans</b>	<b>38%</b> 4.4 tons per hectare Only 3.5 liters of ExploGrow™ applied per hectare. There is therefore considerable scope to achieve even bigger yields than the 4.4 tons per hectare .	increase not measured	<b>N-P-K 0-0-0</b>	<b>20% - 25%</b>
<b>Sugarcane</b>	<b>33%</b> Control 86 tons/ha ExploGrow™ <b>114 tons/ha</b> (+32.5% increase) <b>NOTE: N-P-K reduced</b> -44% to 90-0-0	<b>19%</b> increase not measured	<b>minus 44%</b>	<b>20% - 25%</b>
<b>Lucerne (Alfalfa)</b>	<b>130%</b>	increase not measured	<b>minus 60%</b>	<b>20% - 25%</b>
	<i>"ExploGrow™ treated area had a very positive effect on the resistance of the plants against insects and intense drought"</i>			
<b>Grass / Grazing</b>	<b>100% +</b> + 3% higher milk production. Resistance to extreme weather conditions (treated grass survived frost).	<b>30%*</b>	<b>minus 50%</b>	<b>20% - 25%</b>
<b>Winter Wheat</b>	<b>20% *</b> Larger heads: 35 - 40 seeds per head (vs smaller sized heads: 30 - 34 seeds per head using chemical fertilizer).	increase not measured	<b>minus 50%</b>	<b>20% - 25%</b>
<b>Spinach</b>	<b>over 250% *</b> <i>"Larger, stronger &amp; tastes sweeter."</i> M. Young BSc.***		<b>minus 75% **</b>	<b>20% - 25%</b>
<b>Watermelon</b>	<b>160%</b> <i>"It is the sweetest watermelon I've ever tasted!"</i> L. Greyling, Chicory SA	<b>36%</b>	<b>minus 50%</b>	<b>20% - 25%</b>
<b>Radishes</b>	<b>45% *</b> <i>"Black frost caused untreated radishes (dry and tasteless) to bust. Treated Radishes tasted sweet and delicious!"</i>		<b>minus 50%</b>	<b>20% - 25%</b>
<b>Tomatoes</b>	<b>70% *</b> <i>"I was delighted when I discovered the Brix result. After a severe cold spell, I was expecting a major decline in the Brix levels, however, the ExploGrow™ treated tomatoes maintained its high Brix level."</i>	<b>22%</b>	<b>minus 50%</b>	<b>20% - 25%</b>
	<b>25%</b>		<b>minus 60%</b>	<b>20% - 25%</b>
<b>Pecan Nut Trees</b>	Overall net gain: US\$3,000 per hectare (Due to yield increase + top nut quality). Bigger nuts = 50 % improvement in sale price. Faster growth rate (33%) <i>"I [also] treated Pecan Nut Trees infected by Alternaria with ExploGrow™. At this stage my trees look like they are winning the battle. The dieback has stopped and new leaves are forming."</i> Crackout rate: Wichita 63%, Pawnee 61,9%, Choctaw 58,2%.			
<b>Potatoes</b>	<b>79%</b> <i>"Better Brix, bigger potatoes and higher yield!"</i>	<b>57%</b>	<b>minus 50%</b>	<b>20% - 25%</b>
<b>Spring Onions</b>	<b>over 100%</b> <i>"Production more than doubled, fewer fungal problems and almost no pest damage. Pests and diseases used to be a big issue."****</i>		<b>minus 75% **</b>	<b>20% - 25%</b>
<b>Brinjals (Aubergines)</b>	<b>100%</b> <i>"Larger, stronger &amp; tastes sweeter."</i> M. Young BSc.***	<b>100%</b>		<b>20% - 25%</b>
<b>Tobacco</b>	<b>30% *</b> <i>"The root system and recorded trunk thickness has increased dramatically with ExploGrow™."</i>		<b>minus 50%</b>	<b>20% - 25%</b>
<b>Orange tree seedlings</b>	<b>30% *</b> Stem diameter + 22%; over 100% increase in root mass; improved growth rate of 19%	<b>35%*</b>	<b>minus 50%</b>	<b>20% - 25%</b>
<b>Strawberries</b>	<b>50%*</b> Spar Supermarket strawberries: Brix 5 - 6. ExploGrow™ strawberries: Brix: 9 - 11. <i>"The biggest and most delicious tasting strawberries that I've ever produced"</i> .	<b>83%*</b>	<b>minus 50%</b>	<b>20% - 25%</b>
<b>Peppers (green)</b>	<b>100%</b> <i>"Larger, stronger &amp; tastes sweeter."</i> M. Young BSc.***	<b>100%</b>	<b>minus 75% **</b>	<b>20% - 25%</b>
<b>Peppers (colour)</b>	<b>100%</b> <i>"Larger, stronger &amp; tastes sweeter."</i> M. Young BSc.***	<b>67%</b>	<b>minus 75% **</b>	<b>20% - 25%</b>
<b>Onions (June '16)</b>	Overall net gain: US\$4,900 (ZAR 77,000) per hectare. Investment return: US\$ 63 Cents (ZAR 9.76) for every US\$ 6 Cents (ZAR 1) invested.			
	<b>89%</b>	increase not measured	-	<b>20% - 25%</b>
<b>Onions (December '17)</b>	<b>Record Onion harvest smashes average yields of 55 tons / ha with 104.2 tons / ha</b> <i>"The only change made to our normal Onion program was that we added ExploGrow™..."</i> Onion farmer, Limpopo, South Africa			

\* Partly an estimate since calculated also from preliminary tests and/or year on year comparison data

\*\* 75% reduction in foliar fertilizer (hydroponics)

\*\*\* "No Chemical Pesticide Program was used due to the formulation of ExploGrow™" M. Young BSc.

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