Greenhouse Experiments -- *Michigan State University*

SumaGrow was evaluated in greenhouse experiments to determine its efficacy. The initial greenhouse experiment consisted of SumaGrow carried by 12% humic acid compared to 12% humic acid only.

- Baccto premium potting soil was used for growing the selected test plants in the greenhouse experiments.
- For each 12"x12"x12" pot, two split applications of each liquid formula were giving during the crop period
  - 1st application – given as soil treatment at the time of sowing
  - 2nd application – given at the base of the plant one month after the first application
- No fertilizers or pesticides were added during the crop period
- Plant minerals (minus nitrogen) were added to each treatment 15 days after germination
- A broad spectrum of crops were included in the evaluation:
  - Cereals
  - Vegetables Crops
  - Legumes
  - Forage Grasses
  - Biofuel Grasses

Crop	Plant Height [cm]		Yield [g]	
	SumaGrow	Control	**SumaGrow**	Control
Rice	65	55	30.85	5.2
Tomato	77	66	1900	380
Soybeans	167.7	98	11.58	5.1
Pea	45	33	13.99	7.52
Okra	130	98	138.7	38.7
Peanut	42	35	21.62	6.48
Pea purple hull	60.96	40.64	14.75	10.75
Garden beans	135	102	48.6	23.5
Wonder bush beans	88.9	63.5	72.9	35.6
Squash	57	36	650	0