



**AgroGain**

**PLANT BIOSTIMULANT**

**A PRODUCT OF SEA6 ENERGY PVT. LTD.**

EFFECT OF AGROGAIN ON

# TOMATO

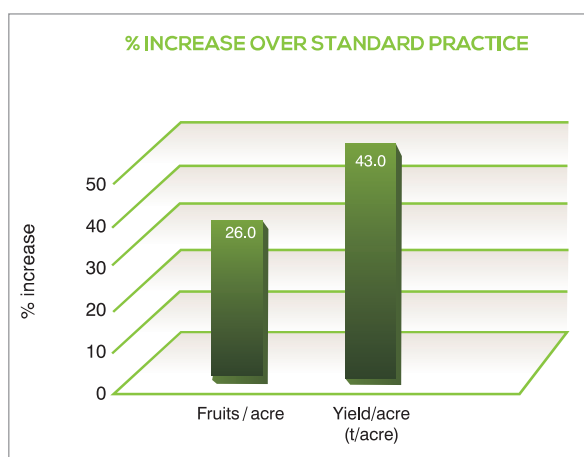
Trial Location: Quitman, Georgia - Trial Conducted by a leading research agency

Variety: Quincy

## Key Results

		AgroGain Control		% Increase over control
No. of fruits per plot	Picking 1	60.30	46.13	31%
	Picking 2	65.80	52.00	27%
	Picking 3	77.80	60.50	29%
Total no. of fruits per acre		51969	41140	26%
Total yield per acre (t/acre)		19.53	13.65	43%

**43% INCREASE**  
IN YIELD OVER CONTROL



## Conclusion

Two applications of AgroGain as a foliar spray resulted in improved vigor, flowering, fruiting and overall yield, compared to the standard grower practice.

EFFECT OF AGROGAIN ON

# RICE

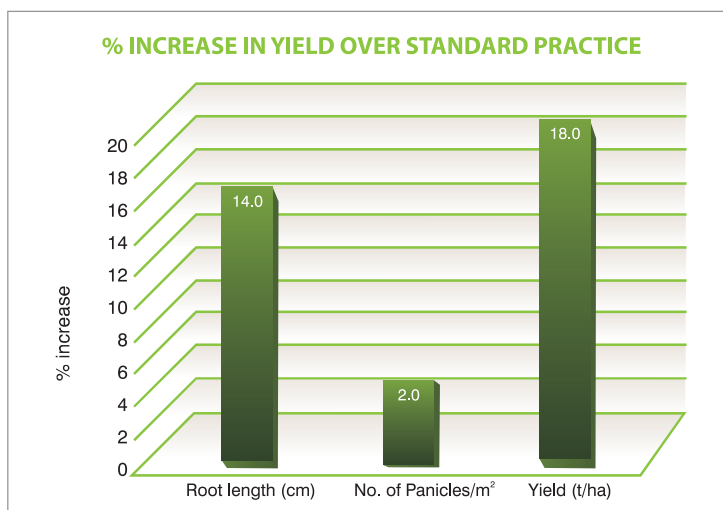
Trial Location: Suphanburi - Thailand. Trial Conducted Eurofins

Varieties: Hom Mali 105

## Key Results

	AgroGain	Control	% Increase over control
Root length (cm)	18	15.74	14.0%
No. of Panicles	11.12	10.86	2.0%
Yield (t/ha)	4.88	4.13	18.0%

**12.0%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

AgroGain showed strong positive effect on root length. Also number of panicles and panicle length were positively impacted by AgroGain. Clear increase of panicle length and number of panicles is observed in plots with the higher yield increase.

EFFECT OF AGROGAIN ON

# SUGARCANE

Trial Locations: Nakhon Sawan and Suphan Buri, Thailand - Trial conducted by Eurofins

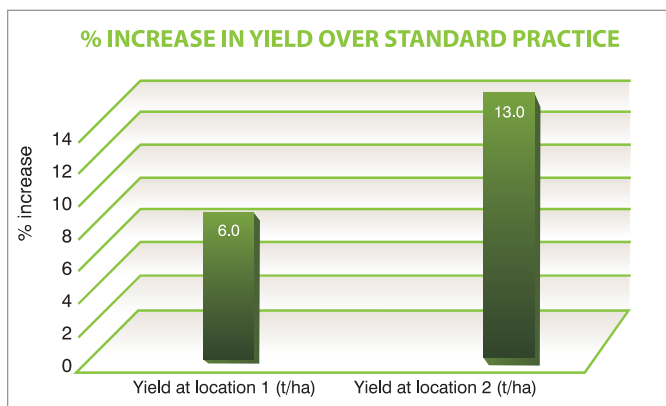
Variety: SACOF

## Key Results

Location 1 - Suphan Buri			
	AgroGain	Control	% Increase over control
Fresh weight (kg/100 m <sup>2</sup> )	875.00	825.00	6.0%
Yield (t/ha)	87.50	82.50	6.0%
Degree Brix	20.36	18.71	9.0%

**9.0%**  
**INCREASE**  
IN YIELD OVER CONTROL

Location 2 - Nakhon Sawan			
	AgroGain	Control	% Increase over control
Fresh weight (kg/100 m <sup>2</sup> )	785.00	692.00	13.0%
Yield (t/ha)	78.50	69.20	13.0%
Degree Brix	20.14	18.91	7.0%



## Conclusion

AgroGain has demonstrated a very strong positive effect on plant development, yield parameters and yield in sugarcane at 2 different locations under farmers' conditions.

EFFECT OF AGROGAIN ON

# CRANBERRY

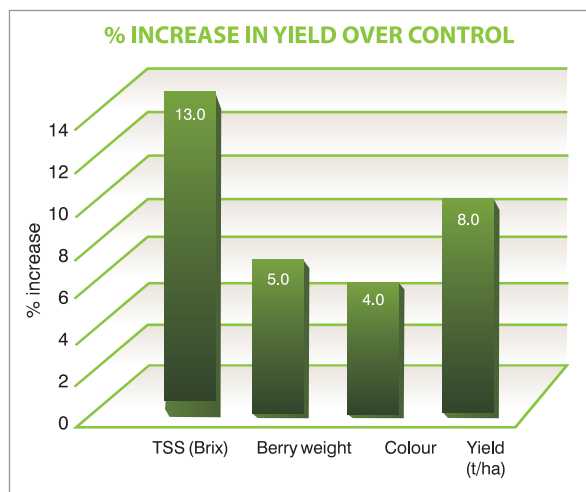
Trial Location: Oregon, USA - Conducted by CRO arm of a national distributor

Varieties: Rublo

## Key Results

	AgroGain	Control	% Increase over control
TSS (Brix)	12.525	11.125	13.0%
Berry weight	8.5	8.1	5.0%
Colour	7	6.75	4.0%
Yield (t/ha)	7.30	6.73	8.0%

8.0%  
**INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

AgroGain gives excellent results in terms of Sugar Content, Berry Weight and Color when compared with standard farmer practice.

EFFECT OF AGROGAIN ON

# MAIZE

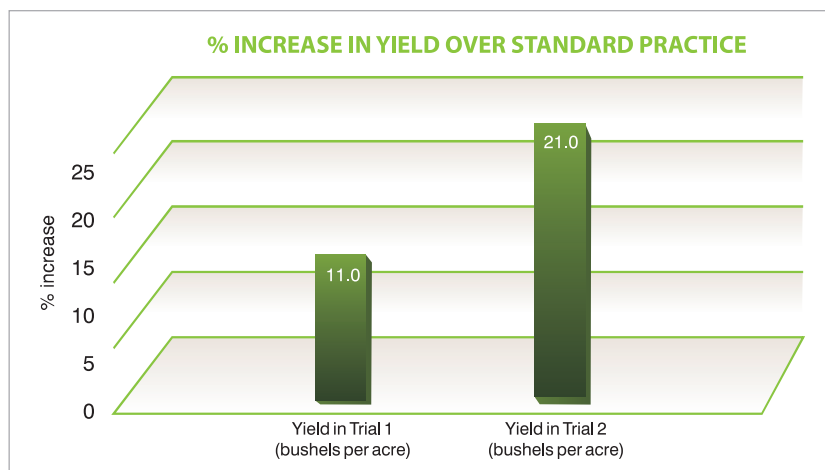
Trial Location: Multiple Locations in Ohio and Orgeon, Trials conducted by leading research agencies

Variety: DKC 9141

## Key Results

	AgroGain	Control	% Increase over control
Yield in Trial 1 (bushels per acre)	183.95	165.73	11.0%
Yield in Trial 2 (bushels per acre)	207.14	171.46	21.0%

**10%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at two crop growth stages; 6-8 leaf stage (20-25 days after sowing) and 16-18 leaf stage (50-60 days after sowing) resulted in a significant increase in wt. of cob and the final crop yield.

EFFECT OF AGROGAIN ON

# GRAPES

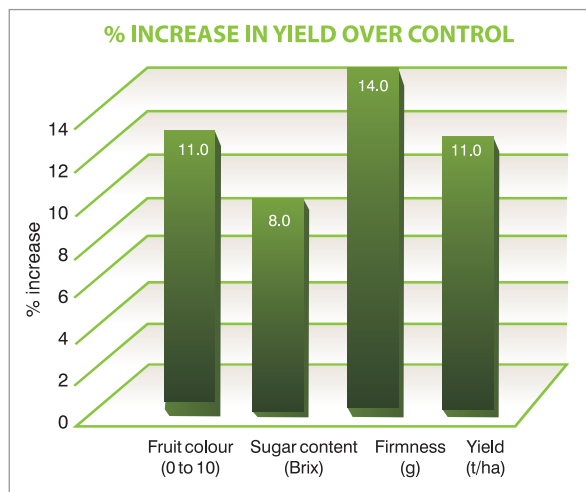
Trial Location: Ivanhoe, California, Conducted by CRO Arm of a Large National Distributor

Variety: Scarlet Royal

## Key Results

	AgroGain	Control	% Increase over control
Fruit colour (0 to 10)	7	6.3	11%
Sugar content (Brix)	20	18.5	8%
Fruit Firmness (g)	316.3	278.2	14%
Yield (t/acre)	30.8	27.8	11%

**11% INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

When approaching harvest, it was observed that plots treated with Sea6 had better uniformity of color and therefore the harvestability at picking time was greatly improved. Similarly, applications with AgroGain resulted in an increase in individual berry weight, berry size, firmness and degrees brix compared to grower standard treatment.

EFFECT OF AGROGAIN ON

# TABLE GRAPES

Trial Location: Llay Llay, Chile, Trial conducted by a leading advisor in Chile

Variety: Autumn Royal

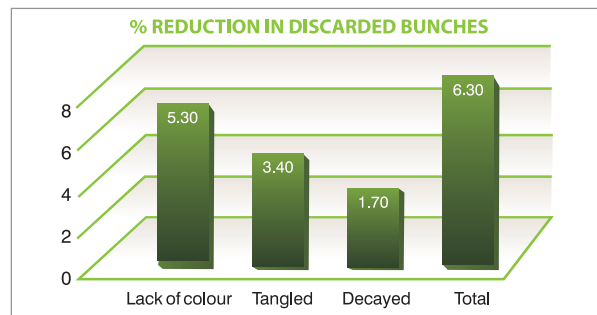
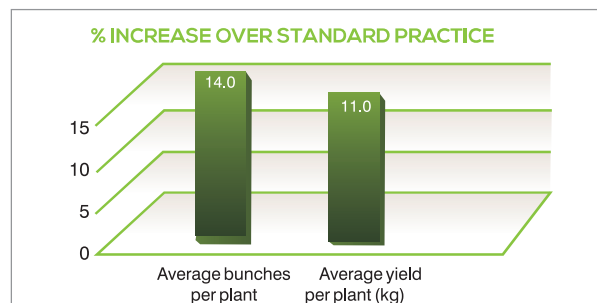
## Key Results

	AgroGain	Commercial program	% Increase over commercial program
Average bunches per plant	40.3	35.3	14%
Average yield per plant (kg)	21.5	19.3	11%

	AgroGain	Commercial program	% reduction in discarded bunches
Lack of colour	4.10	5.30	5.30%
Tangled	0.70	4.10	3.40%
Decayed	3.20	4.90	1.70%
Total	8	14.30	6.30%

# 11% INCREASE

IN YIELD OVER THE COMMERCIAL PROGRAM



## Conclusion

Vines treated with AgroGain presented a greater number of clusters classified in the larger caliber range. This trend of higher caliber of berries, was also observed in the variable uniformity of caliber of the berries of the bunches. The treatment of AgroGain resulted in better yield and reduced the number of bunches discarded by reducing bunches with lack of colour, tangled bunches and decayed bunches.



EFFECT OF AGROGAIN ON

# TABLE GRAPES

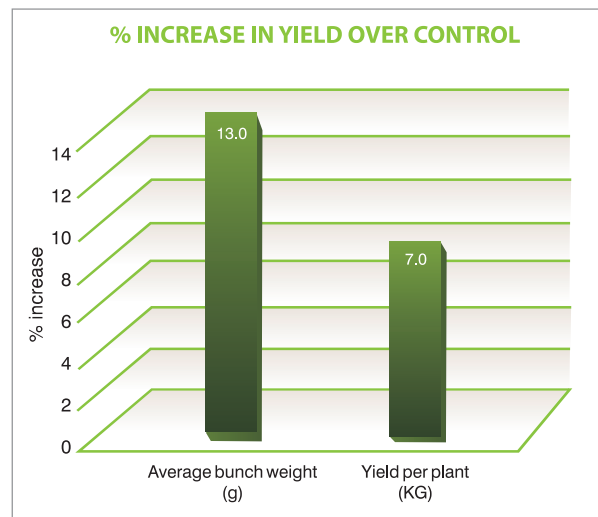
Trial Location: Piura, Chile. Trial conducted by a leading advisor in Chile

Variety: Crimson Seedless

## Key Results

	AgroGain	Commercial program	% Increase over commercial program
Average bunch weight (g)	642.19	567.41	13%
Yield per plant (KG)	21.9	20.4	7%

**7% INCREASE**  
IN YIELD OVER COMMERCIAL PROGRAM



## Conclusion

Based on what was observed in the present trial, it can be concluded that AgroGain managed to obtain significant differences in addition to the commercial standard treatment.

EFFECT OF AGROGAIN ON

# WINE GRAPES

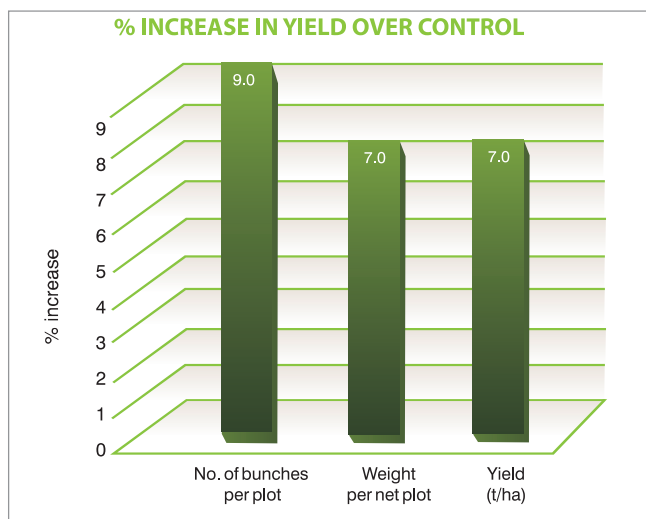
Trial Location: Lys-Haut-Layon, France. Trial conducted by Eurofins.

Variety: Cabernet Sauvignon

## Key Results

	AgroGain	Control	% Increase over control
No. of bunches per plot	222.83	205	9%
Weight / net plot	19.265	18.013	7%
Yield (t/ha)	13.38	12.51	7%

**7% INCREASE**  
IN YIELD OVER CONTROL



## Conclusion

In conclusion, positive effects of the biostimulant AgroGain were visible, and resulted in better yield over the control.

EFFECT OF AGROGAIN ON

# SOYBEAN

Trial Location: Indian Institute of Soybean Research, Indore, Madhya Pradesh

Variety: Agrigold and Dekalb 63-33

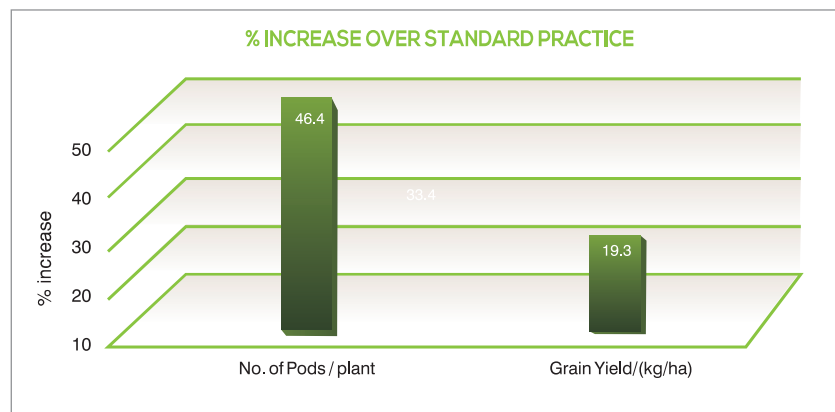


## Key Results

	AgroGain	Control	% Increase
Plant Height	60.8	53.3	14.1%
Branches/plant	7.2	5.67	27.0%
No. of Pods/plant	72.3	49.4	46.4%
Grain Yield (kg)/ha	3216	2696	19.3%

# 19.3% INCREASE

IN SOYBEAN YIELD OVER STANDARD PRACTICE



## Conclusion

With foliar spray of AgroGain at 30 days and 60 days after sowing, a significant increase in pods/plant and grain yield/plant were recorded.

Summarized from: Dr. R. K. Verma, Indian Institute of Soybean Research, Indore, Madhya Pradesh

EFFECT OF AGROGAIN ON

# COTTON

Trial Location: Central Institute for Cotton Research, Nagpur (Banswara, Akola, Bhatindan & Faridkot Research Stations)

Variety: BT Hybrids

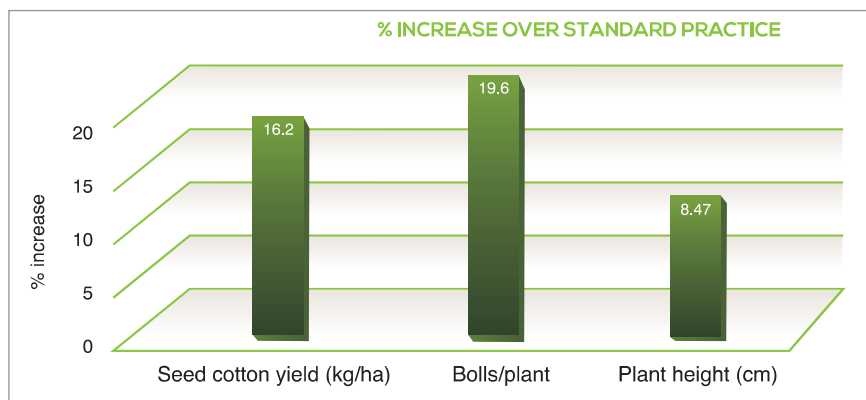


## Key Results

	AgroGain	Control	% Increase
Seed cotton yield (kg/ha)	2444.5	2839.5	16.16%
Bolls per plant	33.9	40.5	19.64%
Plant height (cm)	126.3	137.0	8.47%

# 16.2% INCREASE

IN SEED COTTON YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at 25 days and 55 days after showing indicated a significant increase in yield per plant and per ha, no. of bolls/plant, and height of the plant.

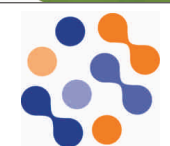
Summarized from: ICAR - All India Coordinated Research Project on Cotton report 2016-17

EFFECT OF AGROGAIN ON

# POTATO

Trial location: Farmer field in Bisauli, Uttar Pradesh

Crop Variety – Chipsona 1

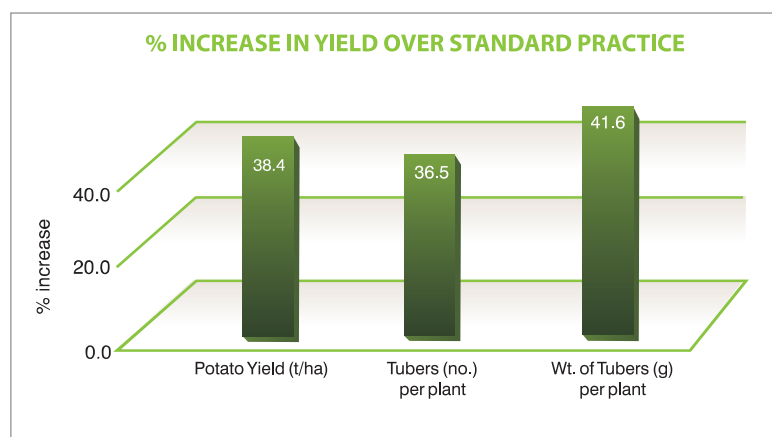


eurofins

## Key Results

	AgroGain	Control	% Increase
Yield (t/ha)	29.2	21.1	38.4%
Tubers (no.) / plant	10.1	7.4	36.5%
Wt. of tubers (g) / plant	330.8	233.6	41.6%

**38.4%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at two crop growth stages; stolon formation stage (30 days after planting) and tuber initiation stage (45 days after planting) resulted in an increase in no. of tubers per plants, average wt. of tubers and final crop yield.

Summarised by: Dr. G. Krishnamohan, Study Director, Eurofins India

EFFECT OF AGROGAIN ON

# ONION

Trial location: Directorate of Onion and Garlic Research, Pune, Maharashtra

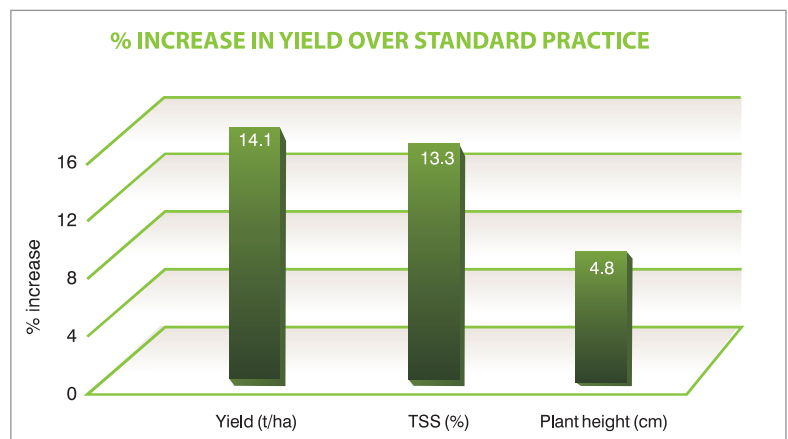
Variety: Bhima Kiran



## Key Results

	AgroGain	Control	% Increase
Yield (t/ha)	22.7	19.9	14.1%
TSS (%)	17	15	13.3%
Plant height (cm)	53.19	50.73	4.8%

**14.1%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at two crop growth stages; 2 true leaf stage (40-50 days after planting) and 5-7 true leaf stage (50-70 days after planting) resulted in a significant increase in yield per ha and TSS%.

*Summarized from: Dr. Pranjali Ghodke, Directorate of Onion & Garlic Research, Pune, Maharashtra*

EFFECT OF AGROGAIN ON

# BRINJAL

Trial Location: Indian Institute of Horticultural Research, Bengaluru, Karnataka

Variety: Arka Anand

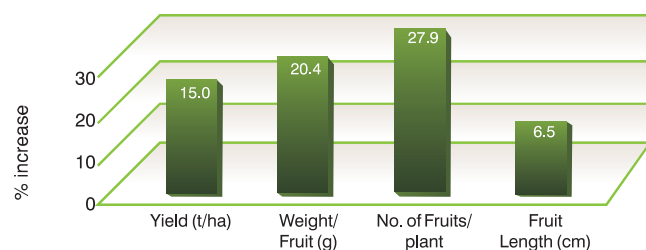


## Key Results

	AgroGain	Control	% Increase
Yield (t/ha)	58.50	50.84	15.0%
Wt. of fruit (g)	52.69	43.74	20.46%
50% flowering (days)	44.50	47.25	-5.82%
No. of fruits/plant	63.65	49.76	27.91%
Fruit Length (cm)	22.32	20.95	6.54%
Plant height (cm)	140.30	131.99	6.30%

**15.0%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE

% INCREASE IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at 15 days and 30 days after transplantation effectively increased no. of fruits per plant. It also improved size and wt. of the fruits, resulting in a significant increase in crop yield.

Summarized by: Dr. Anil Kumar Nair, Principal Scientist, IIHR, Bengaluru, Karnataka

EFFECT OF AGROGAIN ON

# CHILLI

Trial Location: Indian Institute of Horticultural Research, Bengaluru, Karnataka

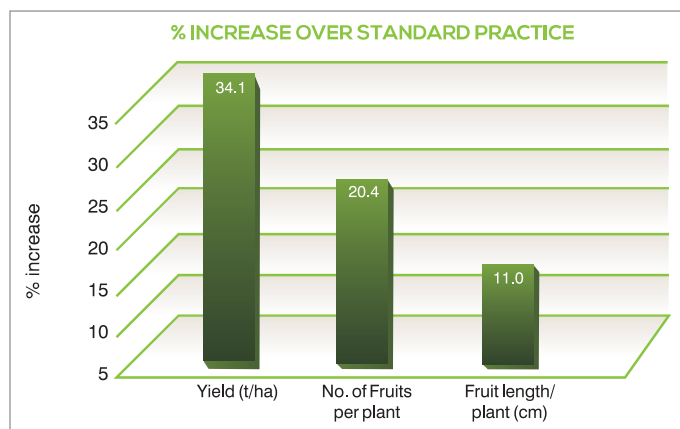
Variety: Arka Meghana



## Key Results

	AgroGain	Control	% Increase
Yield (t/ha)	33.56	25.01	<b>34.2%</b>
50% flowering (days)	48.00	50.00	<b>-4.0%</b>
No. of fruits/plant	227.00	188.50	<b>20.4%</b>
Fruit Length (cm)	9.74	8.78	<b>11.0%</b>
Plant Height (cm)	96.50	91.38	<b>5.6%</b>
No. of branches per plant	15.80	13.64	<b>15.8%</b>

**34.2%**  
**INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at 15 days and 30 days after transplantation effectively increased no. of branches and no. of fruits per plant. It also improved size of the fruits, resulting in a significant increase in crop yield.

Summarized by: Dr. Anil Kumar Nair, Principal Scientist, IIHR, Bengaluru, Karnataka



EFFECT OF AGROGAIN ON

# GHERKIN

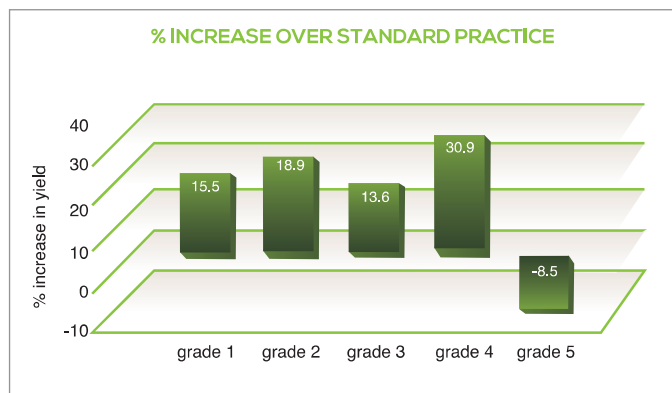
Trial location: Mekerahalli, Karnataka



## Key Results

	AgroGain	Control	% Increase
Grade 1	372	322	15.5%
Grade 2	151	127	18.9%
Grade 3	75	66	13.6%
Grade 4	106	81	30.9%
Grade 5	22	24	-8.3%
TOTAL	726	620	17.1%

**17%**  
**INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

With foliar spray of AgroGain at 15 and 30 days after transplantation, a significant increase in no. of branches, leaves, early flowering and yield per ha were recorded.

EFFECT OF AGROGAIN ON

# CITRUS

Trial Location: Farmer Field in Amravati, Maharashtra

Variety: Nagpur Mandarin

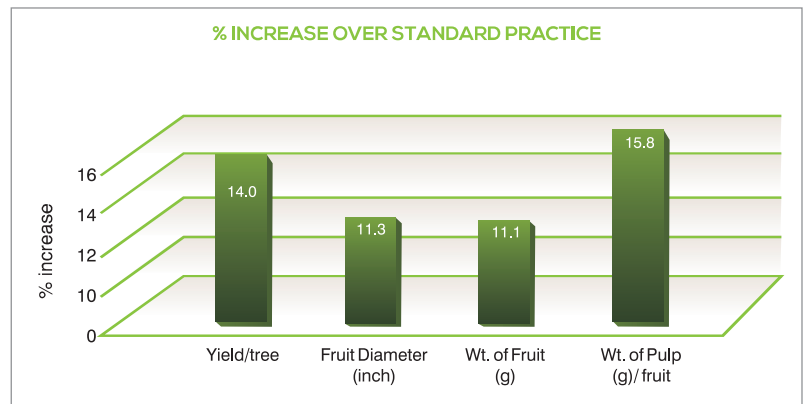


## Key Results

	AgroGain	Control	% Increase
Yield / plant	123	105.78	14.0%
Fruit Diameter (inch)	11.57	10.6	11.32%
Wt. of Fruit (g)	200.67	178.4	11.1%
Wt. of pulp (g)/fruit	141.33	118.9	15.8%

# 14% INCREASE

IN CITRUS YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at pre-bloom, petal fall, fruitlet stage and fruit development stages of walnut and sapota stage resulted in significant improvement in fruit size and crop yield.

# EFFECT OF AGROGAIN ON APPLE

Trial Location: Dr. Y. S. Parmar University, Himachal Pradesh

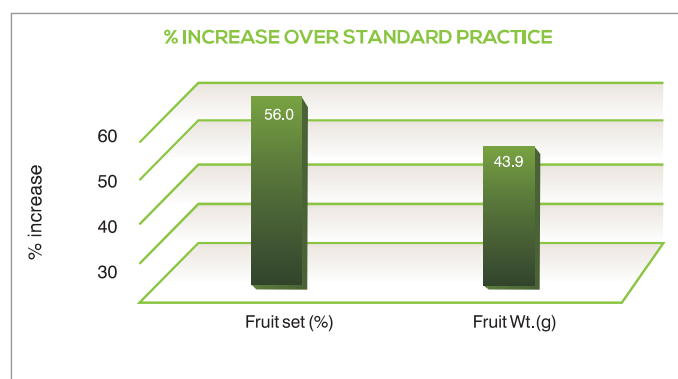
Variety: Red Chief



## Key Results

	AgroGain	Control	% Increase
Fruit set (%)	29.3	18.78	56.0%
Yield (t/ha)	70.6	43.88	60.9%
Fruit Length (cm)	7.67	5.66	35.5%
Fruit Diameter (cm)	7.42	6.11	21.4%
Fruit Weight (g)	183.89	127.78	43.9%
Fruit firmness (kg/cm <sup>2</sup> )	5.97	4.73	26.2%
TSS (B)	13.98	12.92	8.2%

**61.0%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at pink bud, petal fall and walnut stages of growth resulted in a significant increase in fruit set, fruit size, yield and weight of apple.

Summarized by: Dr. N. C. Sharma, Dr. Y S Parmar University, Himachal Pradesh

EFFECT OF AGROGAIN ON

# BANANA

Trial Location: National Research Centre for Banana, Trichy, Tamilnadu

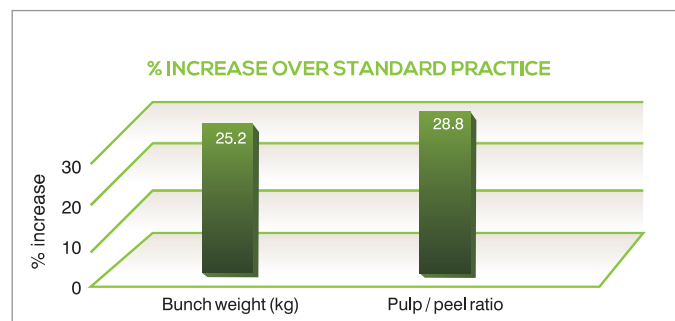
Crop Variety – Grand Nain



## Key Results

	AgroGain	Control	% Increase
Bunch weight (kg)	23.22	18.54	25.2%
No. of hands/ bunch	9.33	8.82	5.8%
No. of fingers / bunch	158.33	148.44	6.7%
Hand weight (kg)	3.10	2.70	14.8%
Fruit weight (g)	159.7	147.8	8.1%
Pulp/peel ratio	1.79	1.39	28.8%

**25.2%  
INCREASE**  
IN YIELD OVER STANDARD PRACTICE



## Conclusion

Foliar spray of AgroGain at 60, 90 and 120 days after planting and an additional spray at flower initiation stage indicated a significant increase in bunch weight, no. of hands / bunch, no. of fingers / bunch, finger length and pulp to peel ratio.

Summarized by: Dr. I. Ravi, National Research Centre for Banana, Trichy, Tamilnadu

EFFECT OF AGROGAIN ON

# MANGO

Trial Location: University of Agricultural Sciences, Bengaluru, Karnataka

Variety: Alphonso

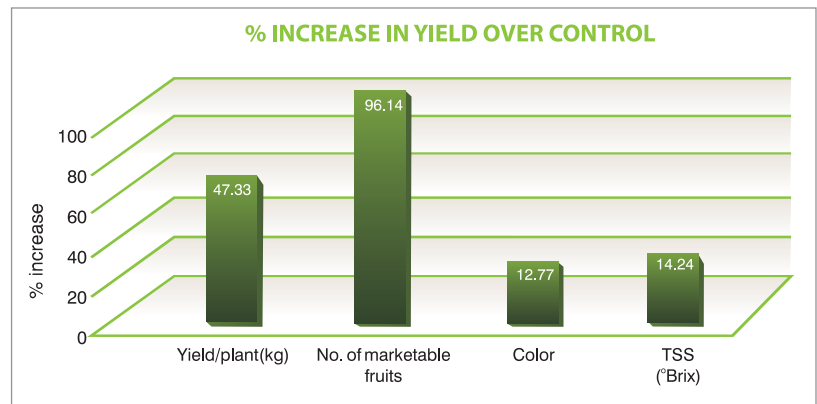


## Key Results

	AgroGain	Control	% Increase
Yield / plant (kg)	22.63	15.36	47.33%
No. of marketable fruits	118.33	60.33	96.14%
Color	7.95	7.05	12.77%
TSS (°Brix)	17.97	15.73	14.24%

47.33%  
INCREASE

IN YIELD OVER CONTROL



## Conclusion

Foliar spray of AgroGain at full bloom stage and peanut stage effectively increased yield / plant (kg). It also improved number of marketable fruits, colour and TSS of the fruits

Summarized by: Dr. A.P. Mallikarjuna Gowda, Sr. Scientist & Head, KVK, Hadonahalli