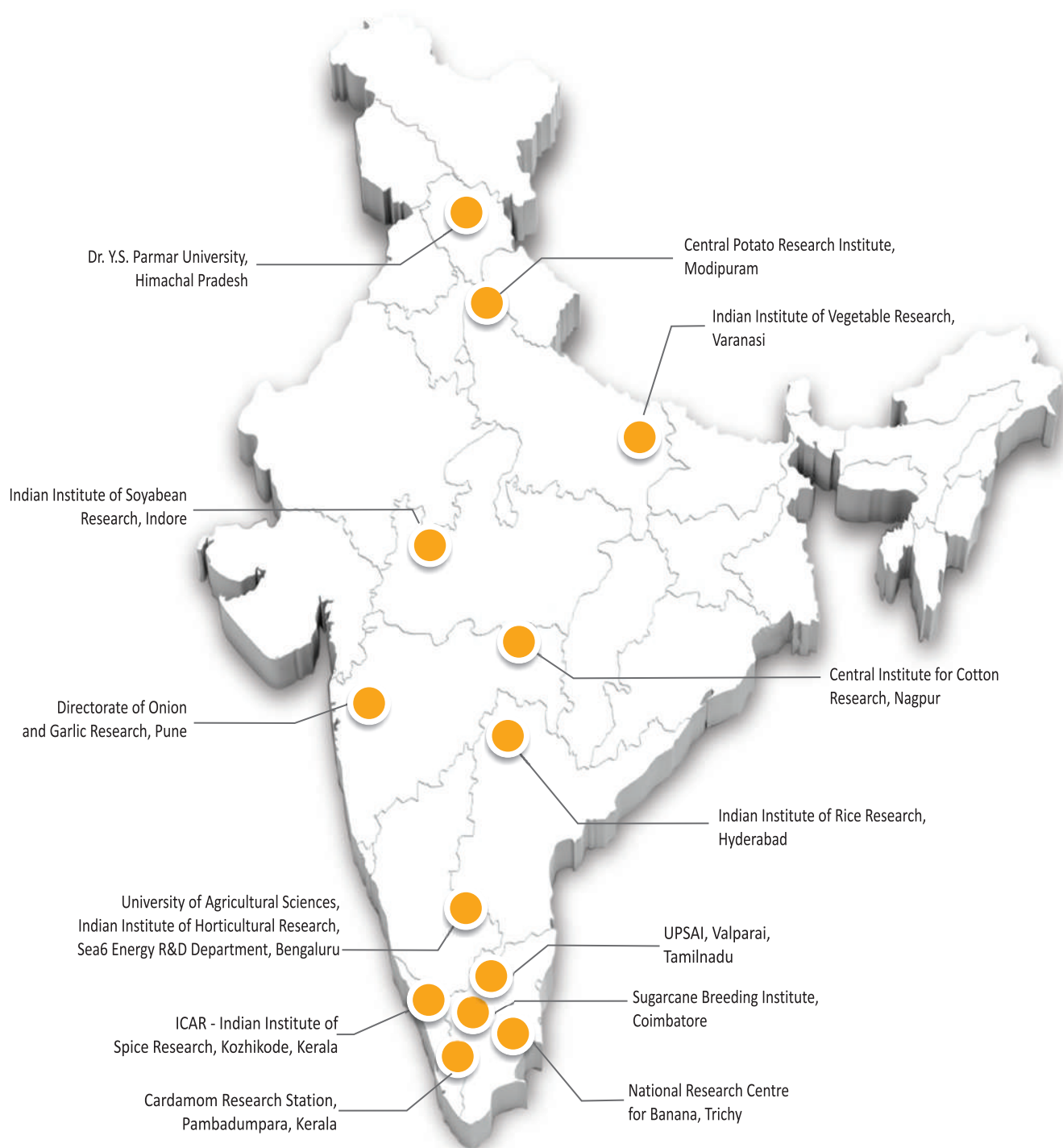




A PRODUCT OF SEA6 ENERGY PVT. LTD.

AGROGAIN TESTED IN VARIOUS RESEARCH CENTRES ACROSS INDIA



EFFECT OF AGROGAIN ON RICE

Trial Location: 12 locations across 10 states of India

Varieties: Pusa 1121, C051, Jyothy, Shreyas,
PB 1121, HKR-47

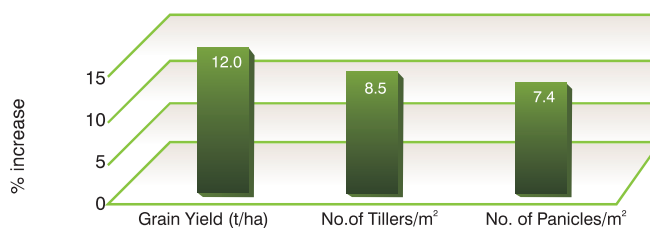


Key Results

	AgroGain	POP	% Increase
Grain Yield (t/ha)	5.6	5.0	12.0%
No. of Tillers/m ²	472	435	8.5%
No. of Panicles/m ²	248	231	7.4%
Panicle weight (g)	3.41	3.19	6.9%
Total Seed wt. (g)/panicle	3.03	2.8	8.2%
Chaffy seed wt. (g)/panicle	0.16	0.2	-20.0%

**12.0%
INCREASE**
IN YIELD OVER POP

% INCREASE IN YIELD OVER POP



Conclusion

With foliar application of AgroGain at 1ml/L at tiller initiation stage and panicle emergence stage resulted in a significant increase in morphological parameters such as plant height, no. of tillers/m², no. of panicles/m² and yield attributes such as grain yield, straw yield, test weight was observed.

Summarized from: Progress Report, All India Co-ordinated Rice Improvement Programme 2016, IIRR, Hyderabad, Telangana

EFFECT OF AGROGAIN ON

MAIZE

Trial Location: University of Agricultural Sciences, Bengaluru, Karnataka

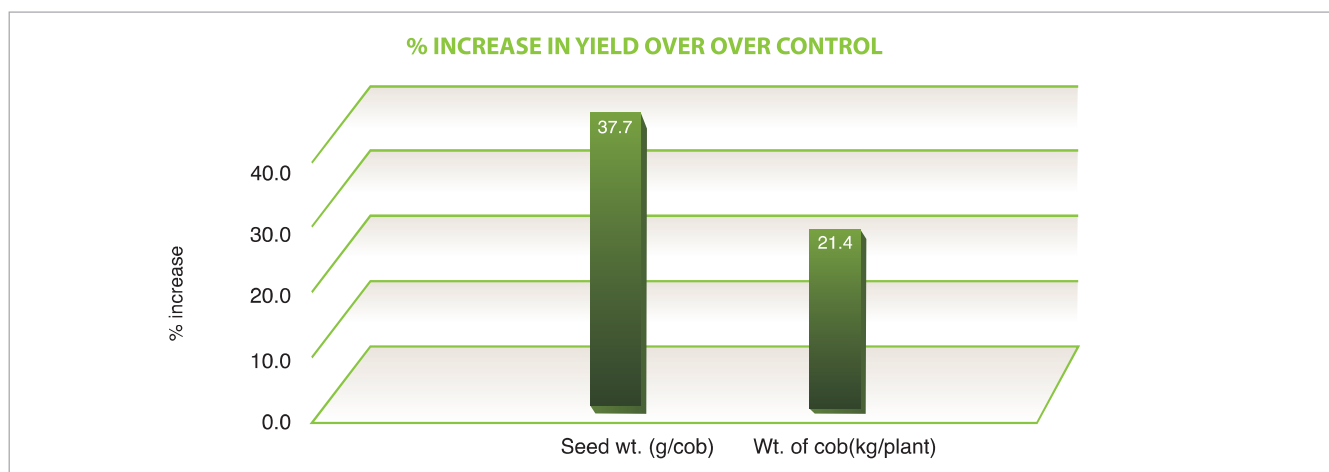
Variety: DKC 9141



Key Results

	AgroGain	Control	% Increase
Seed wt. (g/cob)	182.5	132.5	37.7%
Wt. of cob (kg/plant)	0.34	0.28	21.4%

**37.7%
INCREASE**
IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L 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.

Summarized by: Dr. Nagaraju, University of Agricultural Sciences, Bengaluru, Karnataka

EFFECT OF AGROGAIN ON

SOYBEAN

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

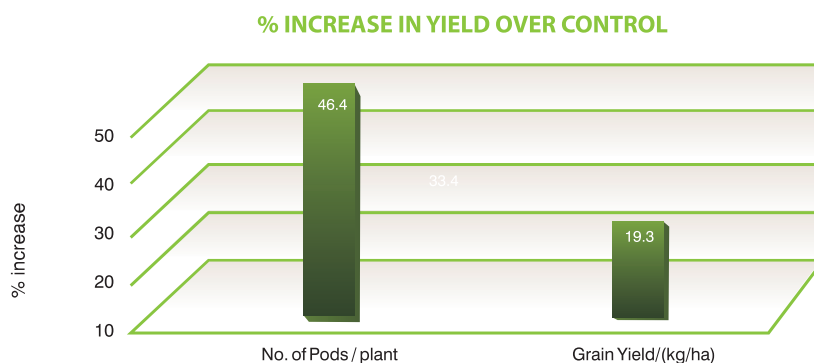
Variety: JS 20 - 98



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 YIELD OVER CONTROL



Conclusion

With foliar spray of .AgroGain at 1 ml/L 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)

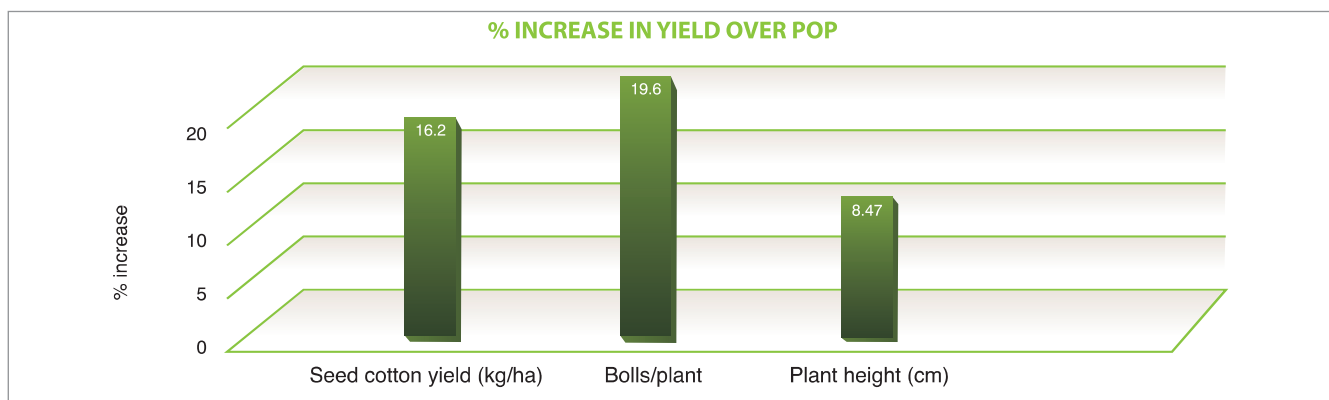
Variety: BT Hybrids



Key Results

	AgroGain	POP	% 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 YIELD OVER POP



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

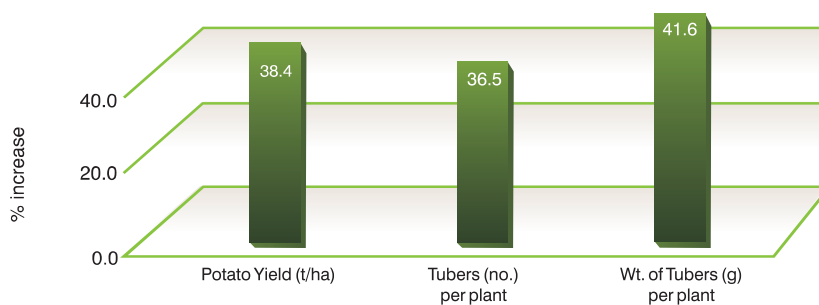


Key Results

	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 CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

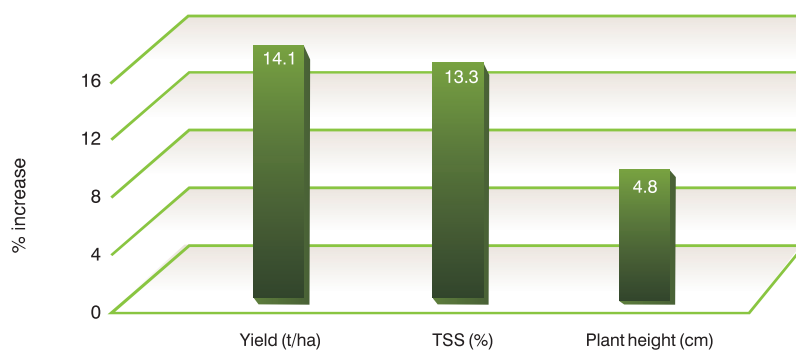


Key Results

	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 CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 0.5 ml/L 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

TOMATO

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

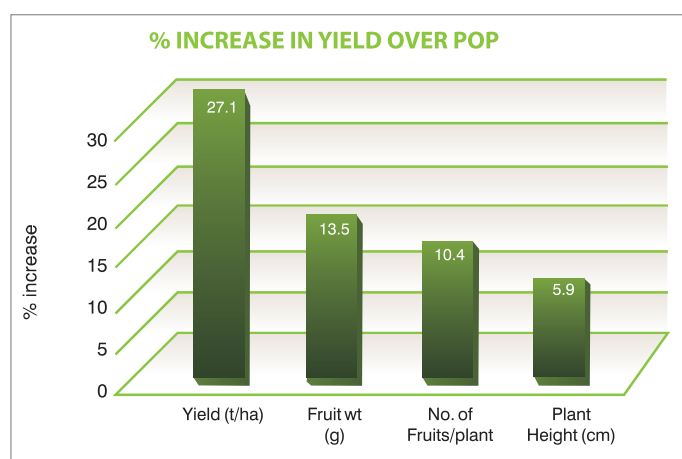
Variety: Arka Rakshak



Key Results

	AgroGain	POP	% Increase
Yield (t/ha)	97.67	76.84	27.11%
Fruit weight (g)	71.31	62.79	13.57%
50% flowering (days)	33.50	36.00	-6.94%
No. of fruits/plant	132.00	119.50	10.46%
TSS (°Bx)	4.780	4.165	14.77%
No. of branches/plant	17.72	13.13	34.96%
Plant Height (cm)	127.15	120.01	5.95%

**27.1%
INCREASE**
IN YIELD OVER POP



Conclusion

Foliar spray of AgroGain at 1 ml/L at 15 days and 30 days after transplantation effectively increased no. of branches per plant and no. of fruits per plant. It also improved size and weight 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

BRINJAL

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

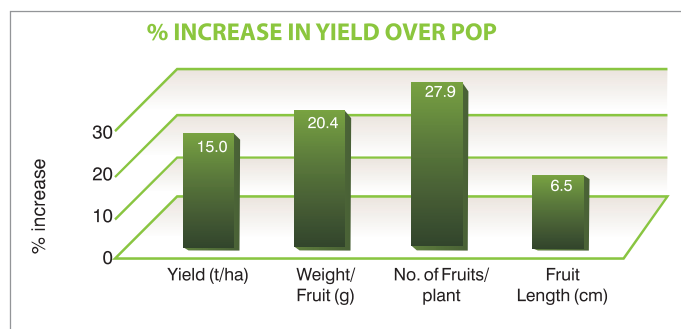
Variety: Arka Anand



Key Results

	AgroGain	POP	% 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 POP



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

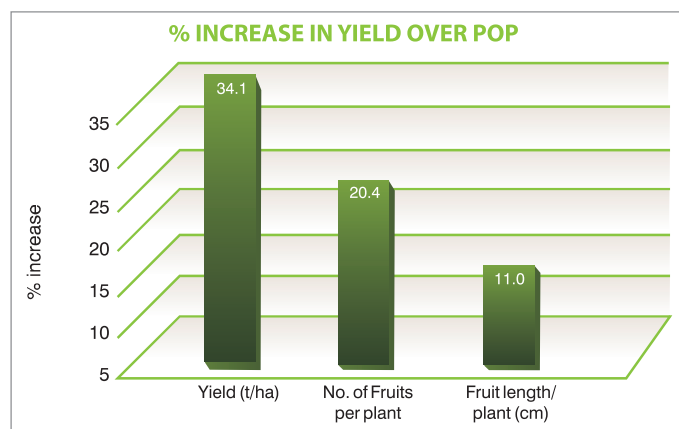
Variety: Arka Meghana



Key Results

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

**34.2%
INCREASE**
IN YIELD OVER POP



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

SEA6
ENERGY

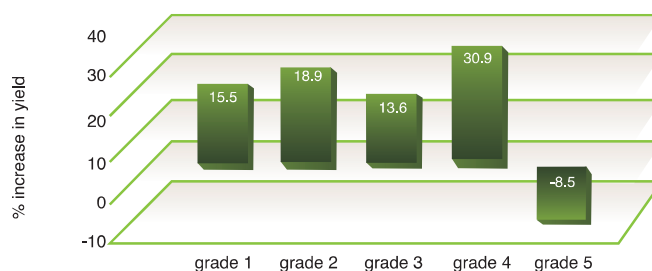
R&D
DEPARTMENT

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 CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

With foliar spray of AgroGain at 1 ml/L 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

GRAPES

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

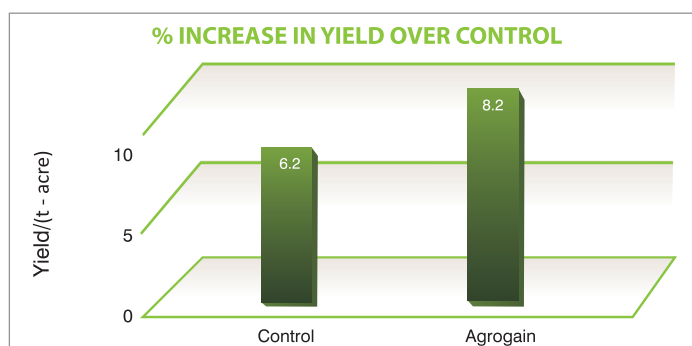
Variety: Flame Seedless



Key Results

	AgroGain	Control	% Increase
No. of Bunches/vine	23.66	22.66	4.4%
Bunch Volume (cm ³)	571.66	546.66	4.5%
Bunch Weight (g)	418.34	388.63	7.6%
Yield/vine (kg)	12.08	8.51	41.95%
Yield (t/acre)	8.23	6.17	33.38%
Pedicle Thickness (mm)	3.03	2.66	13.9%

**33.4%
INCREASE**
IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L at 15 days after pruning, cap formation stage, followed by three additions sprays at 4mm and 8mm berry size stage and veraison stage lead to a significant increase in yield and berry quality parameters.

Summarized from: Dr. J. Satisha, Principal Scientist, IIHR Bengaluru, Karnataka

EFFECT OF AGROGAIN ON

CITRUS

Trial Location: Farmer Field in Amravati, Maharashtra

Variety: Nagpur Mandarin

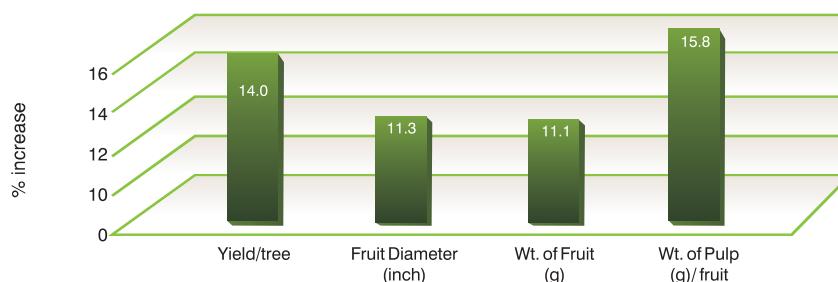


Key Results

	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 YIELD OVER CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

MANGO

Trial Location: University of Agricultural Sciences, Bengaluru, Karnataka

Variety: Alphonso

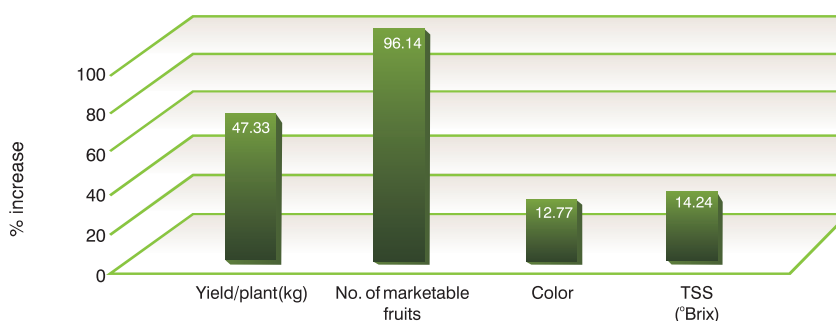


Key Results

	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

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1.5 ml/L 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

EFFECT OF AGROGAIN ON

APPLE

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

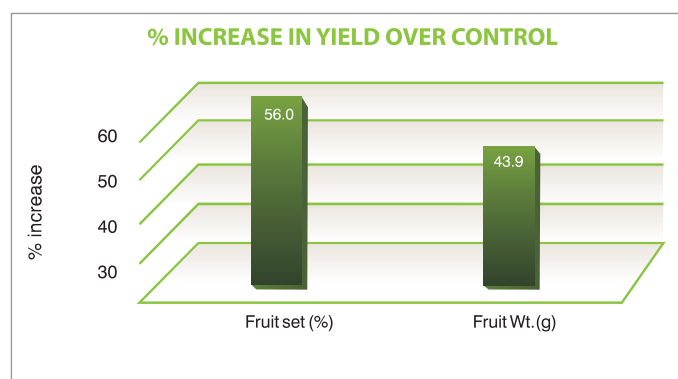
Variety: Red Chief



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 ²)	5.97	4.73	26.2%
TSS (B)	13.98	12.92	8.2%

61.0%
INCREASE
IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

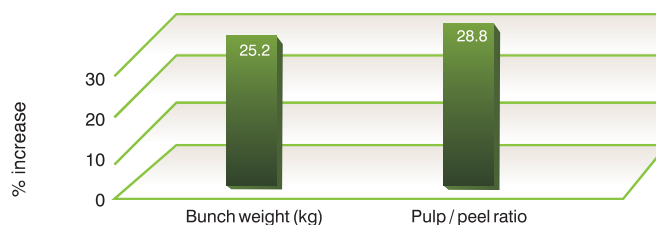


Key Results

	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 CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L 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

SUGARCANE

Trial Location: Sugarcane Breeding Institute, Coimbatore, Tamilnadu

Variety: Co 86032

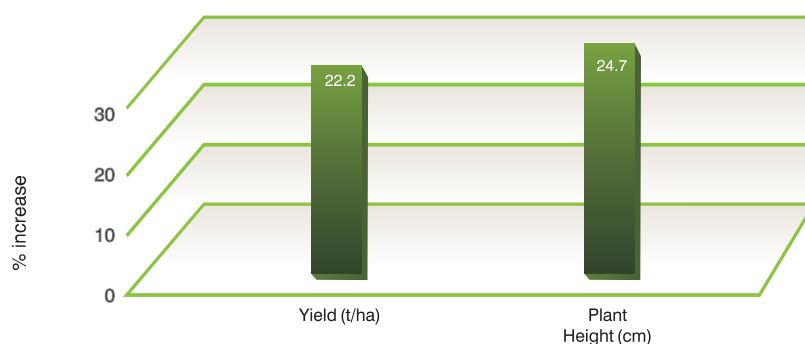


Key Results

	Treated	Control	% Increase
Plant Height (cm)	251.3	201.5	24.7%
Cane Yield (t/ha)	161	131.7	22.2%
% Sucrose	18.9	17.8	6.2%
Total Commercial Cane Sugar	13	12.2	6.6%

**22.2%
INCREASE**
IN YIELD OVER CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L at germination stage (30 days after planting), followed by two application in formative stage at 60 and 90 days indicated a significant increase in plant height and cane yield.

Summarized by: Dr. Gomathi, Principal Scientist, SBI, Coimbatore, Tamilnadu

EFFECT OF AGROGAIN ON

GINGER

Trial Location: ICAR-Indian Institute of Spices Research

Variety: IISR Varada



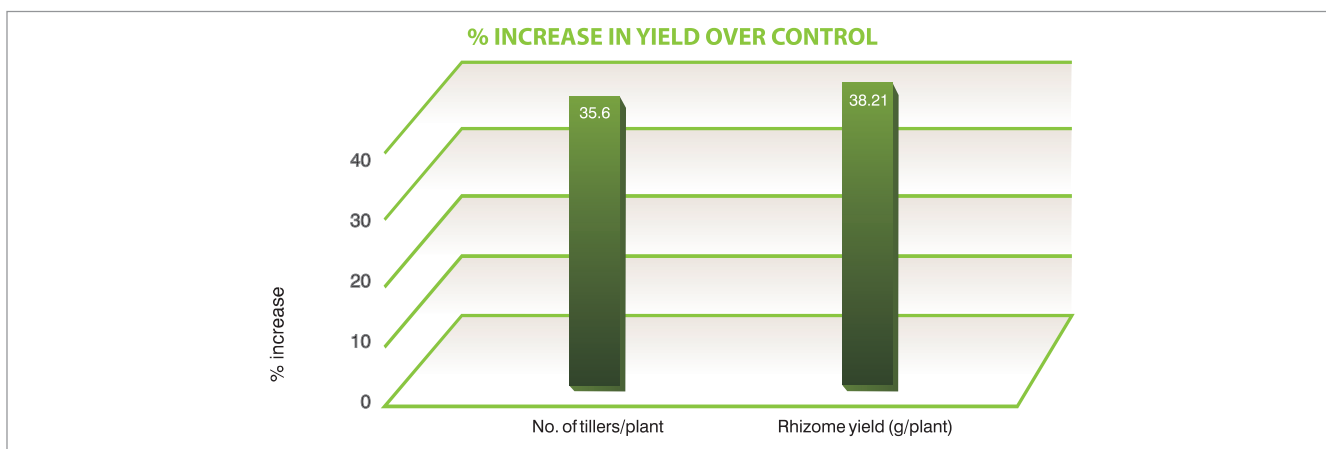
ICAR-Indian Institute of Spices Research
(Indian Council of Agricultural Research)
Kozhikode-673012, Kerala, India



Key Results

	AgroGain	Control	% Increase
No. of tillers/plant	16	11.8	35.6%
Rhizome yield (g/plant)	264	191	38.21%

**38.21%
INCREASE**
IN RHIZOME YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L at 75 days after planting ,105 days after planting and 135 days after planting has resulted in higher rhizome yield, no. of tillers and other quality parameters compared to untreated control leading to improved growth and yield on ginger

Summarized by: Dr. K.S. Krishnamurthy, Principal Scientist (Plant Physiology), ICAR-IISR, Kozhikode.

EFFECT OF AGROGAIN ON

TURMERIC

Trial Location: ICAR-Indian Institute of Spices Research

Variety: IISR Pragati



ICAR-Indian Institute of Spices Research
(Indian Council of Agricultural Research)
Kozhikode-673012, Kerala, India

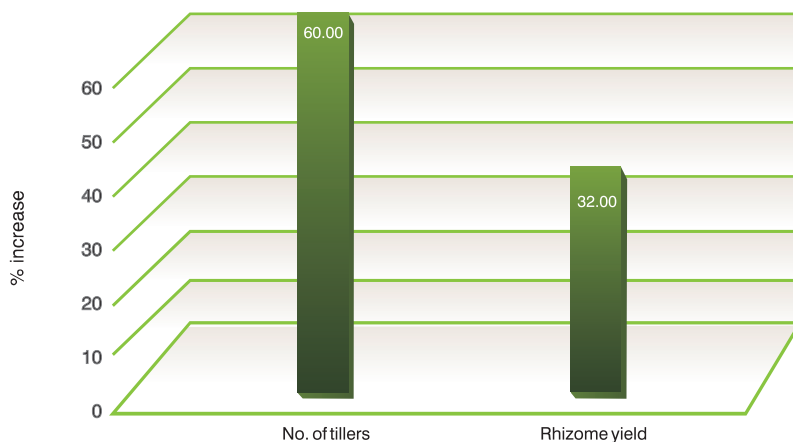


Key Results

	AgroGain	Control	% Increase
No. of tillers/plant	2.67	1.67	60%
Rhizome yield(g/plant)	392	297	32%

**32%
INCREASE**
IN RHIZOME YIELD OVER CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1 ml/L at 75 days after planting, 105 days after planting and 135 days after planting has resulted in higher rhizome yield, no. of tillers and other quality parameters compared to untreated control leading to improved growth and yield on turmeric

Summarized by: Dr. K.S. Krishnamurthy, Principal Scientist (Plant Physiology), ICAR-IISR, Kozhikode



EFFECT OF AGROGAIN ON

CARDAMOM

Trial Location: Cardamom Research Station, Pambadumpara, Kerala Agricultural University

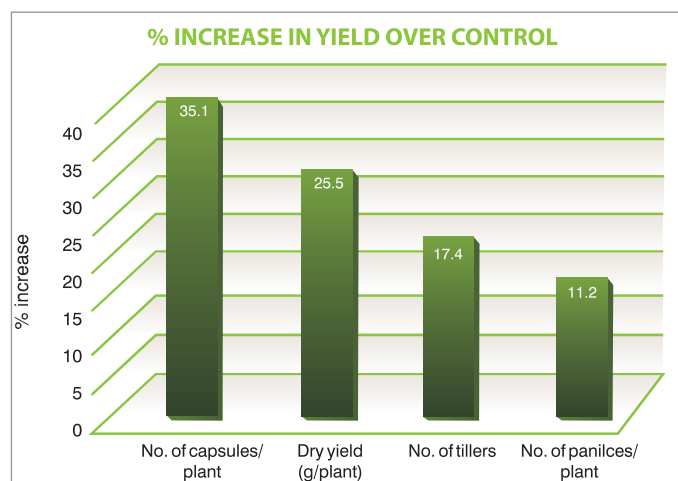
Variety: Njallani (Vazhukka-type)



Key Results

	AgroGain	Control	% Increase
No. of capsules/plant	3961.7	2932	35.1%
Dry Yield (g/plant)	690	550	25.5%
No. of tillers	40.4	34.4	17.4%
No. of panicles/plant	42.5	38.2	11.2%

**25.5%
INCREASE**
IN YIELD OVER CONTROL



Conclusion

Foliar spray of AgroGain at 1ml/L in Flowering/fruit setting stage (July), Fruit formation/maturity stage (September) and Tillering stage (February) has effectively increased Dry and fresh yield, number of tillers, number of capsules and panicles per plant. There has been a significant improvement in physiological parameters leading to better growth and yield.

Summarized by: Prof. Muthusamy Murugan, Head, Cardamom Research Station, Kerala Agricultural University, Pambadumpara, Idukki, Kerala

EFFECT OF AGROGAIN ON

TEA

Trial location: United Planters' Association of Southern India, Valparai, Tamilnadu



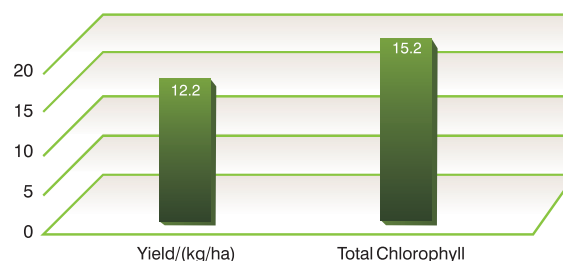
Key Results

	AgroGain	Control	% Increase
Yield (kg/ha)	2745	2446	12.2
Banji	72.6	74.3	2.3
Pigments in tea leaves			
Total chlorophyll (mg/g leaves)	3.27	2.84	15.2
Carotenoids (mg/g leaves)	1.12	0.99	13.2
Green leaf constituents			
Polyphenol (%)	25.75	24.67	4.4
Catechin (%)	16.7	15.83	5.5
Amino acid (%)	4.64	3.84	20.8

12.2% INCREASE

IN TEA YIELD OVER CONTROL

% INCREASE IN YIELD OVER CONTROL



Conclusion

Application of AgroGain @1.4 L/ ha with a spray volume of 200 L of water during crop seasons resulted in significant improvement in yield. Photosynthetic rate monitored in the present study also substantiated the improvement in crop production. Polyphenols and amino acids showed significant improvement while catechins of green leaves increased marginally where the tea bushes received foliar application of AgroGain.

Summarised from Dr. Raj Kumar, Asst. Director & HOD, UPASI

