









Trial conducted at Solapur district of Maharashtra, India

Potential CropBioLife in Sugarcane Farmer and Sugar mill Industries

- ☐ Plant Height increased (11-15%)
- **☐** Number of Leaf (18-44)
- **☐** Number tiller (15-33%)
- **☐** Number of Cane per tiller (14-50%)
- **☐** Cane Diameter (5-20%)
- **□** Cane Length (5-43 %)
- □ BRIX % (0.84-1.30)
- ☐ Sugarcane Yield (15-30%)
- ☐ Increased sugarcane recovery (0.2-1%)
- ☐ High Level Ethanol (0.1-1%)



cane weight, BRIX content.



Recommendation of CropBioLife" on Sugarcane Crop

□ Seedling or seed treatment of Crop Bio Life (10-50 ml/100 L of water) enhance germination, trigger, defence system against biotic and abiotic stress so preventing soil born disease and increase root development. ☐ CropBioLife (1-2ml/L) or 100-120 mL/acre application during initial growth stage @ tiller development stage (1 to 3 months) enhance tillers numbers by 20-30 %. ☐ CropBioLife (1-2 ml/L) or 100-120 mL/acre application during grand growth stage (5 to 7 months after plantation) enhance cane elongation, diameter, and leaf number chlorophyll content (greenery and Rate of Photosynthesis). □ CropBioLife (1-2 ml/L) or 100-120 mL/acre application during Maturation and Ripening stage (10 to 12 months or last one to two months before harvesting enhance



What is CropBioLife and role in agriculture



☐ CropBioLife is a cutting-edge technology formulated blend of organic compounds like Bioflavonoids extracted from plants. CropBioLife CropBioLife acts on triggering the plants basic cycle of health, enhance Biological Carbon Sequestration, nutrition and drives the metabolism in plants towards perfect balance and better plant health. ☐ Plants performing at their best naturally are not reliant on synthetic chemical sprays which just produce unsustainable results. Phenolic compounds raise nutrient levels, help roots develop, help the plant protect itself against disease and environmental stress. ☐ CropBioLife will help growers meet a number of harvest-time goals (such as improved yields, better pack out ratios, higher nutrition levels, among many other benefits). ☐ CropBioLife Spray Boosted Photosynthesis Increased Root Exudation Absorption Boosted Atmospheric Carbon Biology Boosted Soil Health and Nutrient Uptake to Plant Increased Climate Resilience Increased Nutrition in Food Boosted Sustainable Cycle Created Tolerance Drought Increased.



Organic Certified Natural Solution

















- CropBioLife is focused on building plant energy and efficient use of nutrition.
- Energy comes from more effective photosynthesis
- Nutrition comes from more effective root exudates
- Farm profit is sustainable when the plant soil relationship is tuned to perfection.

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The CropBioLife balance the cycle for sustainable Health of soil, plant and ecosystem

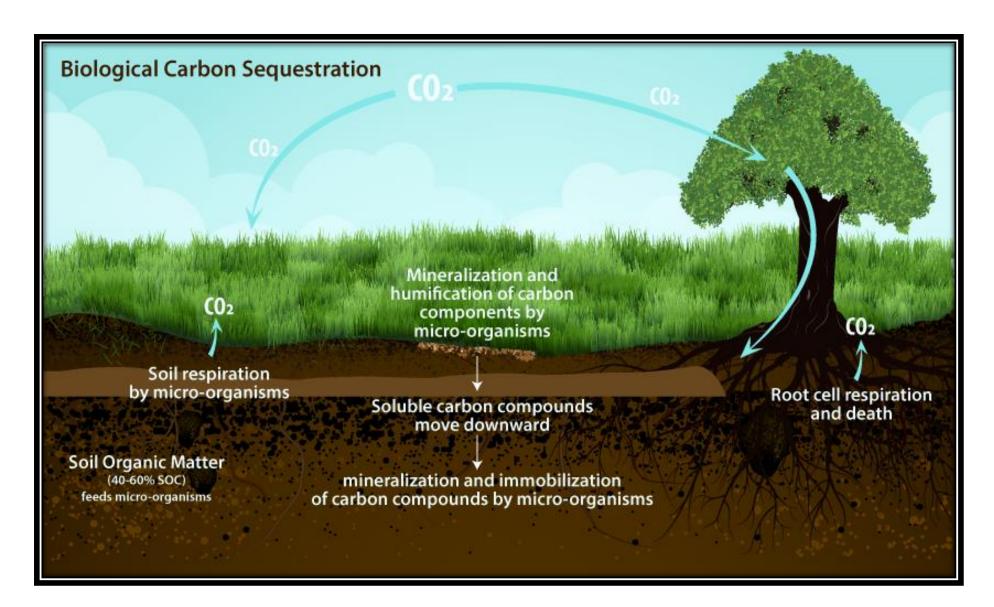






Improved Biological Carbon Sequestration process



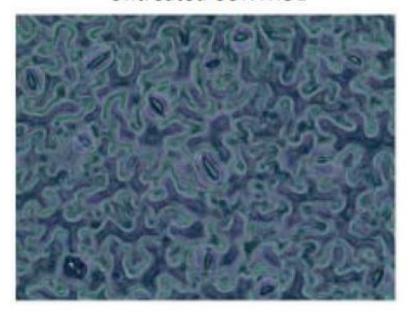




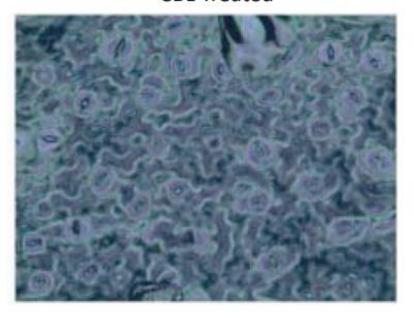
Increase number of stomata and their efficiency for CO₂ absorption and Boost Photosynthesis Process



Untreated CONTROL



CBL Treated



Mean stomata in .048mm²	Total Stomata	Stomata Open
Control	13.8+/- 0.6	5.5+/- 1.12
CBL treated	20.5+/- 1.65	12.3 +/- 1.82
Difference	48%	120%

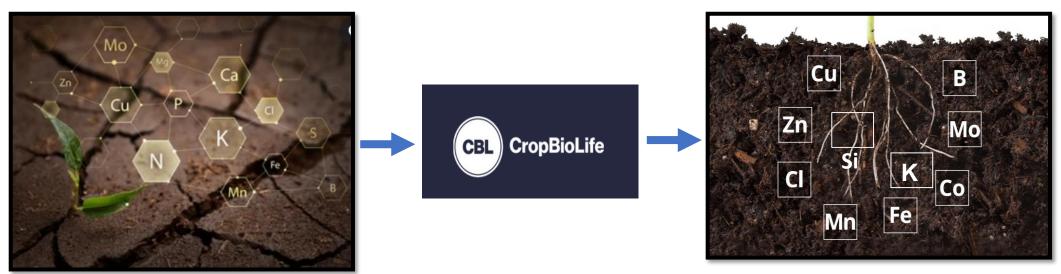




CBL working on Soil Biology and Soil Fertility







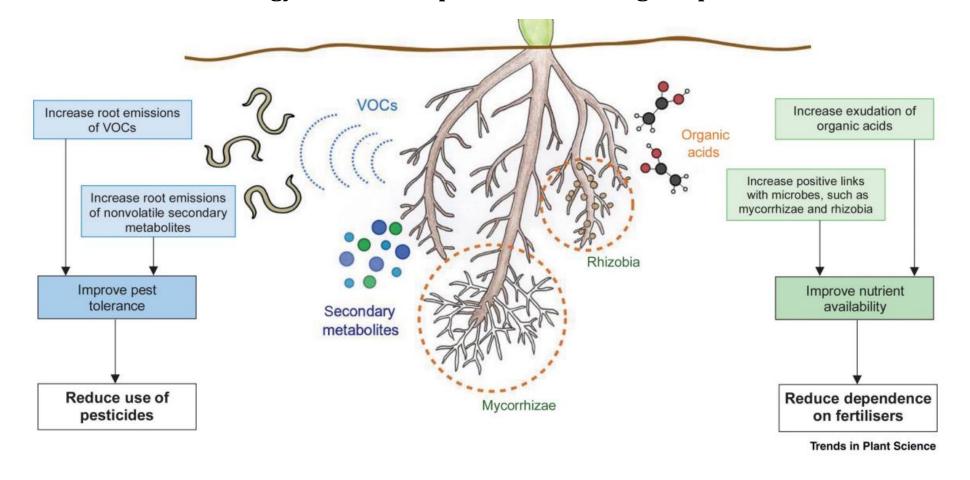
- ☐ It Helps to improve soil microbial, increases total microbial count especially mycorrhiza in soil
- Better white root growth which stimulates uptake of Si, K, P, Zn, Mg, Ca, B, and N which accelerates metabolic reactions even in abiotic condition
- ☐ Solution for better absorption of micronutrients, it help plant to tolerate stress condition



Enhances soil microbial activity symbiotic, non symbiotic relationship between plant and microbe



CBL enhance metabolism in plants, leads to more available carbohydrates means the plant can better nurture the biology in the rhizosphere soil it through improved root exudation







Increased the mycorrhizal colonization in root of CropBioLife treated plant

Microscopic photos and comments from SoilFoodweb NZ advisor.

"Massive difference in root health - much more mycorrhizae on CropBioLife roots"







Details of Sugarcane plots selected for trial conducted at Solapur District

Plot No.	Taluka_Village	Farmer Name	Sugarcane Variety Date of Plantation		Date of Application			Date of	Farmer Testimonial
Tiot No.	i aiuka_viiiage	raimei Name		1	2	3	Observation	video	
1	North Solapur_Sirapur	Pankaj Nagnath Natake	265	15-Jul-2022	17-Sep-2022	27-0ct-2022	16-Mar- 2023	16-Mar-2023 and 16 July 2023	Available
2	South Solapur_Bhandhar Kavthe	Shridamm Balgavkar	265	28-Jul-2022	16-Sep-2022	28-0ct-2022		18-Mar-2023 and 15 July 2023	Available
3	North Solapur _Lamboti	Ramchandra Waghmode	265	15-Jul-2022	18-Sep-2022	20-Oct-2022		16-Mar-2023	Available
4	North Solapur _Wirewade	Sudarshan Saka	265	25-Jun-2022	18-Sep-2022	21-Oct-2022		17-Mar-2023	Available
5	North Solapur _Lamboti	Rajesh Waghmode	265	15-Jul-2022	18-Sep-2022	20-Oct-2022		17-Mar-2023	Available
6	North Solapur _ Sawaleshwar	Santosh Aamle	265	25-Jun-2022	18-Sep-2022	21-0ct-2022		17-Mar-2023	Available
7	North Solapur _ Sawaleshwar	Dhanajay Chavan	265	15-Jul-2022	18-Sep-2022	19-0ct-2022		16-Mar-2023	Available
8	North Solapur _ Bhandhar Kavthe	Shivappa Bijrangi	265	6-May-2022	16-Sep-2022	28-0ct-2022		18-Mar-2023	farmer not available



Observation summary of Sugarcane Plot

Date of observation: 16-18th March 2023



C					Par	ameters			
Sugarcane Plot	e Treatment	Plant Height (Ft)	Number of Tillers per seedlings	Number of Leaf per tiller	Number of cane per tiller	Average cane diameter (cm)	Cane length (Internode distance) cm	BRIX %	Average weight of single cane (g)
	CBL treated	11.5	12.0	14.0	13.0	4.50	10.6	16.67	81.97
1	Untreated Control	10	9.0	11.0	11.0	3.90	7.4	15.48	106.4
	Percent increased in CBL Plot	<mark>15.0</mark>	33.33	<mark>27.27</mark>	<mark>18.18</mark>	<mark>15.38</mark>	<mark>43.24</mark>	<mark>1.19</mark>	<mark>29.81</mark>
	CBL treated	8.5	12.0	13.0	13.0	12.0	11.3	14.66	83.43
2	Untreated Control	8.0	10.0	11.0	10.0	10.5	10.0	13.66	101.47
	Percent increased in CBL Plot	<mark>6.25</mark>	20.0	<mark>18.18</mark>	30.0	<mark>14.29</mark>	13.0	1.00	<mark>21.61</mark>
	CBL treated	8.5	32.0	12.0	15.0	11.0	9.5	17.0	NR (Not harvested)
3	Untreated Control	7.5	27.0	10.0	11.0	10.0	8.5	16.0	NR (Not harvested)
	Percent increased in CBL Plot	13.33	<mark>18.52</mark>	20.0	<mark>36.36</mark>	10.0	<mark>11.76</mark>	1.00	NR (Not harvested)
	CBL treated	9.3	19.0	12.0	14.0	10.5	8.0	18.0	NR (Not harvested)
4	Untreated Control	8.0	15.0	9.0	11.0	9.8	6.9	17.16	NR (Not harvested)
	Percent increased in CBL Plot	16.25	<mark>26.67</mark>	<mark>33.33</mark>	<mark>27.27</mark>	<mark>7.14</mark>	<mark>15.94</mark>	<mark>0.84</mark>	NR (Not harvested)
	CBL treated	9.5	22.0	12.0	14.0	10.2	9.0	19.3	NR (Not harvested)
5	Untreated Control	8.5	17.0	9.0	10.0	9.5	8.0	18.0	NR (Not harvested)
	Percent increased in CBL Plot	11.76	<mark>29.41</mark>	33.33	<mark>40.0</mark>	<mark>7.37</mark>	<mark>12.5</mark>	1.30	NR (Not harvested)
	CBL treated	11.0	32.0	14.0	16.0	10.5	9.5	17.5	NR (Not harvested)
6	Untreated Control	9.50	25.0	12.0	14.0	9.5	9.0	16.3	NR (Not harvested)
	Percent increased in CBL Plot	15.79	28.0	<mark>16.67</mark>	<mark>14.29</mark>	<mark>10.53</mark>	<mark>5.56</mark>	1.20	NR (Not harvested)
	CBL treated	8.0	23.0	13.0	12.0	10.0	8.0	19.0	NR (Not harvested)
7	Untreated Control	7.0	20.0	10.0	8.0	9.5	7.5	18.0	NR (Not harvested)
	Percent increased in CBL Plot	<mark>14.29</mark>	15.0	<mark>30.0</mark>	<mark>50.0</mark>	<mark>5.26</mark>	<mark>6.67</mark>	1.00	NR (Not harvested)
	CBL treated	8.5	25.0	13.0	12.0	12.0	8.5	16.00	NR (Not harvested)
8	Untreated Control	7.0	20.0	9.0	9.0	10.0	6.5	15.00	NR (Not harvested)
Ü	Percent increased in CBL Plot	21.43	<mark>25.0</mark>	<mark>44.44</mark>	33.33	20.0	30.77	<mark>1.00</mark>	NR (Not harvested)





Seedling treatment enhance germination, increase immunity against pest and Pathogen, increases root development





Increased size and number of tillers





Untreated Control



CBL treated Plot







Increased number cane diameter and length

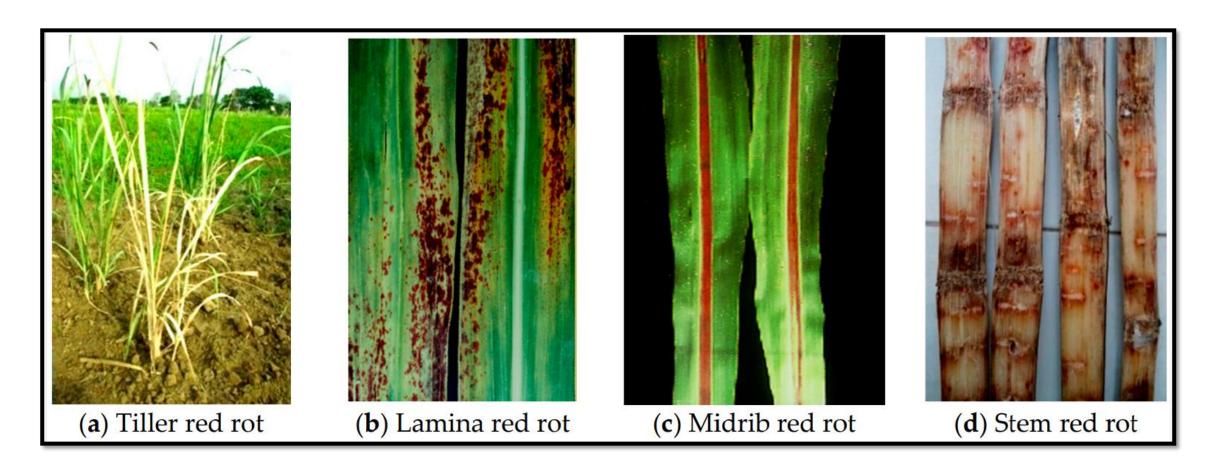








Development of immunity against plant pathogen







Control plot more susceptible to disease and Pest attack













Increased BRIX content in CBL treated sugarcane by 0.4-3%







Sugarcane Plot 1

FARMER NAME	Pankaj Netake, Contact number: Mob: 9765887122			
and	At Post: Shirapur, Taluka North Solapur, District Solapur,			
Address	Maharashtra, India.			
	Lat: 17.7	797028, Long: 75.750393		
CROP	SUGARCANE	Area of Plan	tation	
VARIETY	265	2 Acre		
Date of Plantation	15 th July 2022			
Application	1 st	2 nd	$3^{\rm rd}$	
Date of Application	17 th September 2022	27 th October 2022	16 th March 2023	
Mantha often plantation 2 month often plantation		Between 3 to 4 month after	Between 8 to 9 day	
Month after plantation 2 month after plantation		plantation	after plantation	
Date of Observation	16 th July 2023			
Age of Plot	12 month			



PLOT NO 1

Farmer Name: Nagnath Natake

Village: Sirapur

District : Solapur, Maharashtra. Contact : 9765887122

First application: 17/09/2022 Second Application: 27/10/2022 Third application: 16/03/2023

CBL Dose: 100-120 ml per acre or 1-2 ml/L











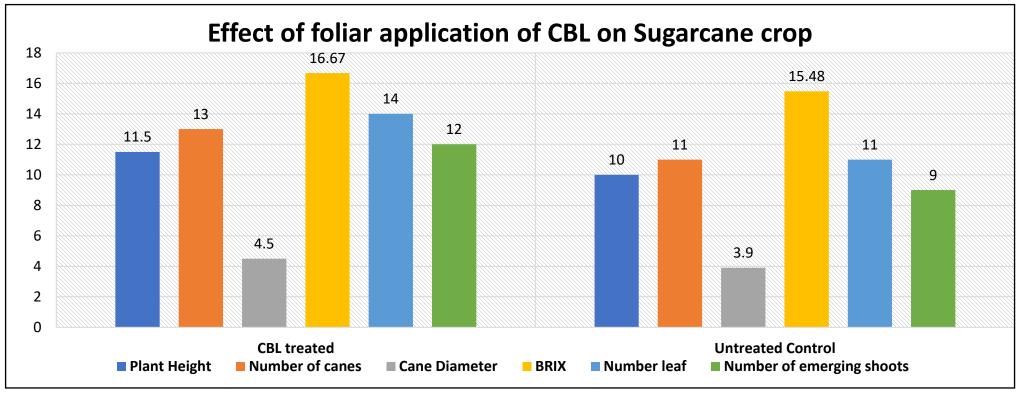
Farmer Practice

CBL treated









Parameters	CBL treated	Untreated Control
Plant Height	11.5	10
Number of canes	13	11
Cane Diameter	4.5	3.9
BRIX	16.67	15.48
Number leaf	14	11
Number of emerging shoots	12	9

Date of Observation 2nd March 2023







Date of Observation 16th July 2023







Date of Observation 16th July 2023



30 node cane weight in gram (3x 10=30 node)Three sugarcane having 10 node from base of cane











Farmer Testimonial Video



Aussan employee: What is your name?

Farmer: My name Pankaj Natake

Aussan employee: From which village you are?

Farmer: Sirapur

Aussan employee: you have cultivated sugarcane? And which variety

Farmer: Yes, variety is 265

Aussan employee: when sugarcane is transplanted?

Farmer: In June

Aussan employee: Lokmangal company has given you the product Cropbiolife

of Aussan laboratories . How many sprays it took?

Farmer: I took two spray.

Aussan employee: what difference makes due to two spray?

Farmer: In treated plot, Number of shoots, Height of plant, Numbers of canes

and the length of canes is increased The diameter of cane (thickness) is greater. There are 12-13 number of canes within 7 months. There are 13

number of shoots are developed.

Aussan employee: what is the situation of unsprayed plot?

Farmer: There are only 8-10 number of shoots and no of canes is 8.

Aussan employee: Which plot is better?

Farmer - A sprayed plot is good. In untreated plot, there is no growth of plants.





Sugarcane Plot 2

FARMER NAME and Address	SHRIDAMM BALKAVKAR, Contact Number: Mob 9588421007 At Post: Bhandar Kavathe, Taluka South Solapur, District Solapur, Maharashtra, India. Lat: 17.441026, Long: 75.704983		
CROP	SUGARCANE	Area of Plantation	
VARIETY	265	2 Acre	
Date of Plantation	28 th July 2022		
Date of Application	16 th September 2022	28 th October 2022	
Month after plantation	Between 1-2 month	3 month	
Date of Observation	15 th July 2023		
Duration of crop	11 month 15 days		



PLOT NO 3

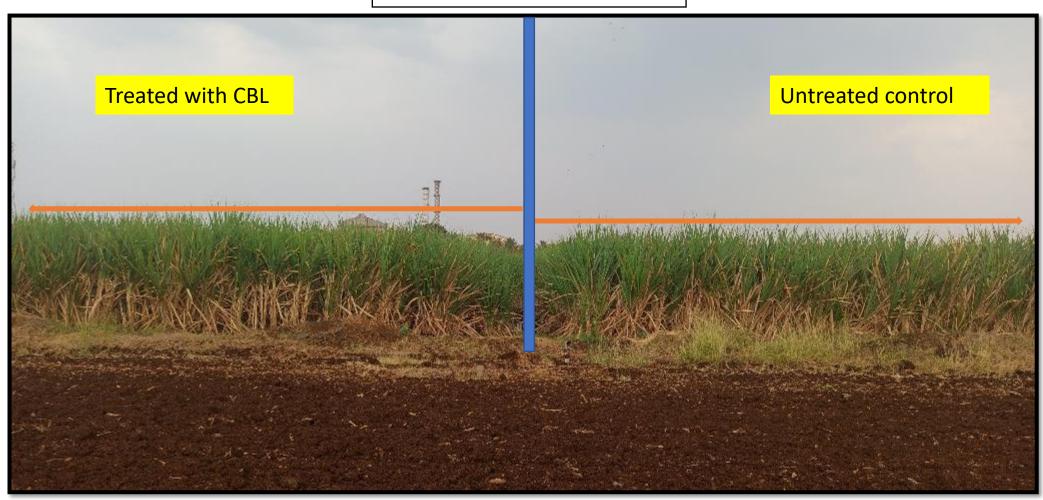
Farmer Name : Shridamm Balgavkar

Village : Bhandhar kavathe District : Solapur, Maharashtra.

Contact: 9588421007 First application: 16/09/2022 Second Application: 28/10/2022

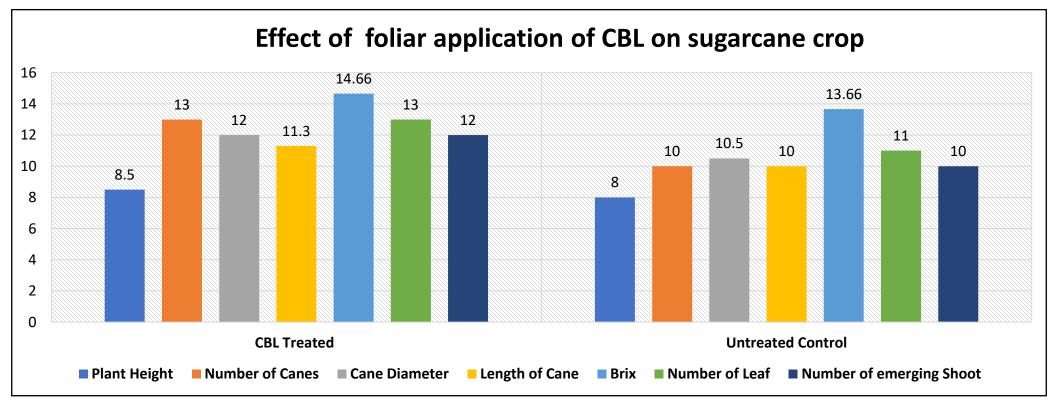
CBL Dose : 2 ml/L











Parameters	CBL treated	Untreated Control
Plant Height (ft)	8.5	8
Number of canes	13	10
Cane Diameter	12	10.5
Length of Cane	11.3	10
BRIX	14.66	13.66
Number leaf	13	11
Number of emerging shoots	12	10

Date of observation 18 March 2023















Farmer Testimonial Video



Aussan employee: Hello ,Ashwini kadam from Aussan laboratories.

what is your name?

Farmer: My name Gajanan Pujari.

Aussan employee: you have cultivated sugarcane .when sugarcane is transplanted?

And which variety.

Farmer: Yes, in June and variety is 265.

Aussan employee: It has been 7-8 months Lokmangal Sugar Industry has given you

the product CropBioLife of Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: what difference makes due to two spray?

Farmer: There are less number of canes than sprayed plot. It means 2-3 more

number of canes in the sprayed plot. There are more number of canes.

Aussan employee: How many number of shoots?

Farmer: In treated plot, 12-13 number of shoot and In untreated plot, 7-8 no of

shoots.

Aussan employee: Which plot is better?

Farmer: A Sprayed plot is better.

Aussan employee: Is should this product be used by other farmers?

Farmer: This product should be used.

Aussan employee: Is this product beneficial or not?

Farmer: I t is beneficial.

Aussan employee: Thank you!



PLOT NO 3

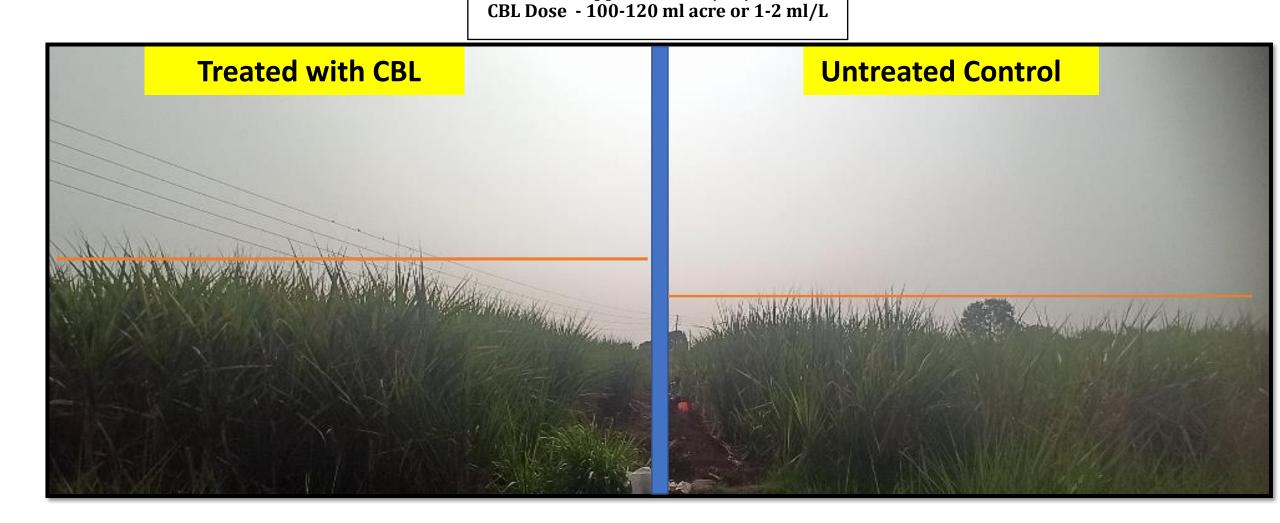
Farmer Name: Ramchandra Waghmode

Village: Lamboti

District: Solapur, Maharashtra.

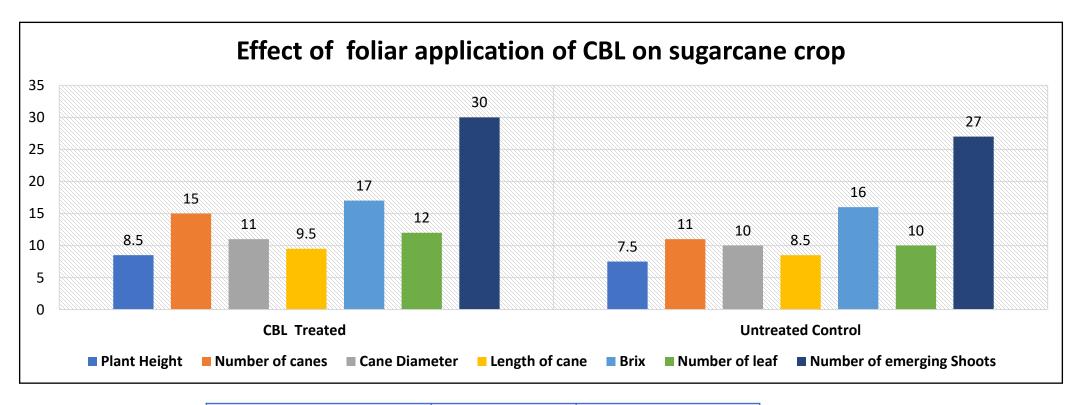
Contact: 9922408576 First application: 18/9/2022 Second Application: 20/10/2022











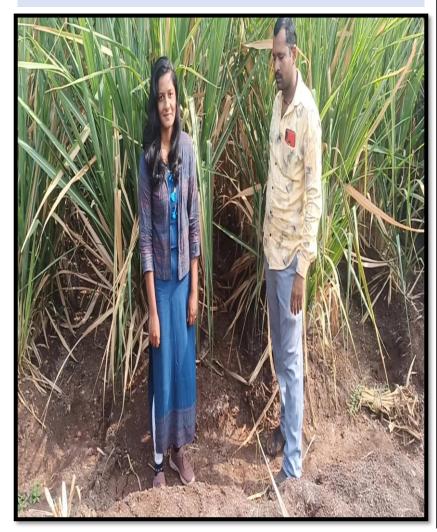
Parameters	CBL treated	Untreated Control
Plant Height (ft)	8.5	7.5
Number of canes	15	11
Cane Diameter	11	10
Length of Cane	9.5	8 .5
BRIX	17	16
Number leaf	12	10
Number of emerging shoots (5ft)	32	27

Date of observation 16-Mar-2023





Farmer Testimonial Video



Aussan employee: Hello, Ashwini Kadam from Aussan laboratories.

what is your name?

Farmer: My name Ramchandra Waghmode

Aussan employee: you have cultivated sugarcane .when sugarcane is

transplanted? And which variety.

Farmer: yes, in July and variety is 265,

Aussan employee: Lokmangal company has given you the product CropBioLife

of Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: what difference makes due to two spray?

Farmer: In treated plot, Number of shoots, Height of plant, Numbers of

canes $\,$ and the Thickness of canes $\,$ is increased . In sprayed plot, there are 14

number of canes and in unsprayed plot, there are 10 number of canes.

Aussan employee: How many number of shoots?

Farmer: 30-31 .. And in untreated plot there are 18-20.

Aussan employee: Which plot is better?

Farmer: A sprayed plot is better. This product should be used by other

farmer. It may be increasing yield, I think

Aussan employee : Is this product beneficial or not?

Farmer: It is beneficial.

Aussan employee: Thank you!



Farmer Name : Sudarshan Saka

Village: Wirewade

District : Solapur, Maharashtra.

Contact: 9359040583

First application: 18/09/2022 Second Application: 21/10/2022

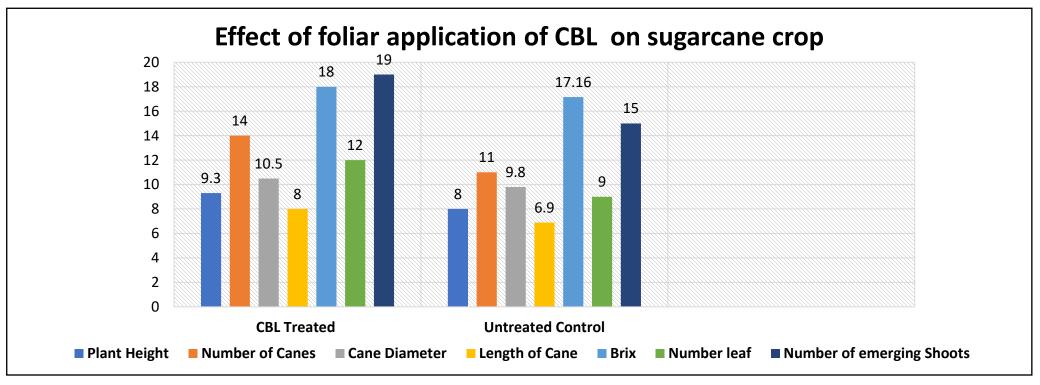
CBL Dose: 2 ml/L











Parameters	CBL treated	Untreated Control
Plant Height (ft)	9.3	8
Number of canes	14	11
Cane Diameter	10.5	9.8
Length of Cane	8	6.9
BRIX	18	17.16
Number leaf	12	9
Number of emerging shoots (5ft)	19	15

Date of observation 17 March 2023







Aussan Laboratories Employee: Hello, Ashwini Kadam from Aussan laboratories, what is your name?

Farmer: My name Mahesh Bhore.

Aussan employee: You have cultivated sugarcane, when sugarcane is transplanted? and which

variety.

Farmer: Yes, in June and variety is 265.

Aussan employee: It has been 8-9 months. Lokmangal company has given you the product

CropBioLife of Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: What difference makes due to two spray?

Farmer: In treated plot, number of shoots, height of plant, numbers of canes and the thickness of

canes is increased.

Aussan employee: How many number of shoots?

Farmer: 20.

Aussan employee: and number of canes?

Farmer: 14-15.

Aussan employee: What is the situation of unsprayed plot?

Farmer: There are 10 number of shoots and 10-11 number of cane

Aussan employee: Which plot is better?

Farmer: A sprayed plot is good.

Aussan employee: Is Should this product be used by other farmers?

Farmer: This product should be used.

Aussan employee: Is this product beneficial or not?

Farmer: It is beneficial.



Farmer Name: Rajesh Waghmode

Village: Lamboti

District Solapur, Maharashtra. Contact: 8459247474

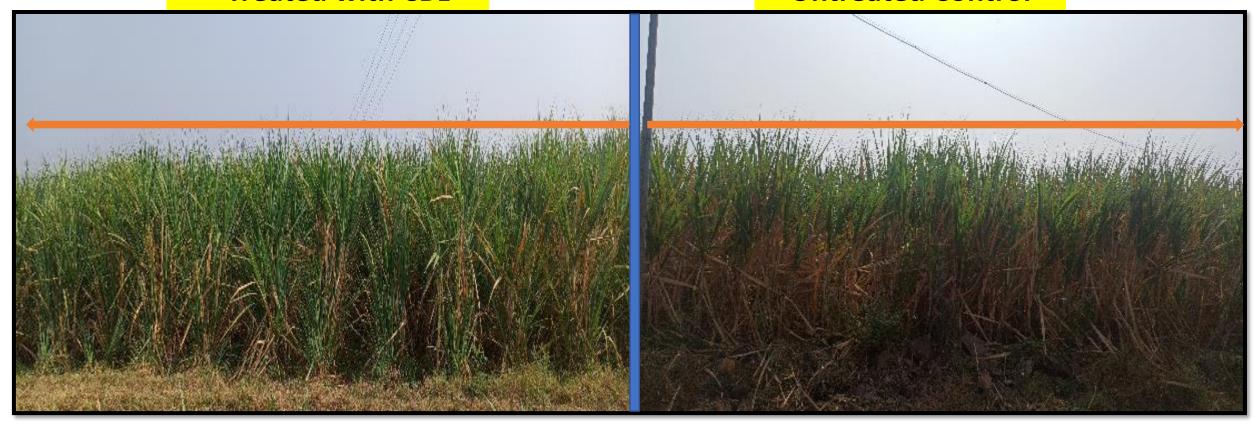
First application: 18/09/2022

Second Application: 20/10/2022

CBL Dose: 2 ml/L

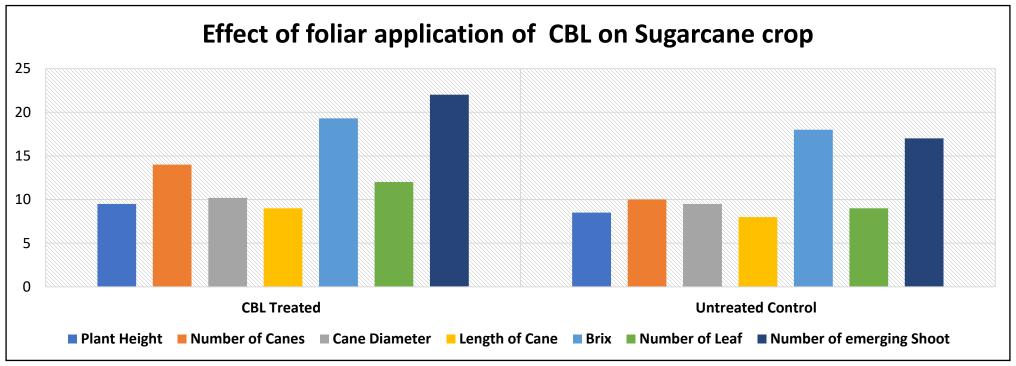


Treated with CBL









Parameters	CBL treated	Untreated Control
Plant Height (ft)	9.5	8.5
Number of canes	14	10
Cane Diameter	10.2	9.5
Length of Cane	9	8
BRIX	19.3	18
Number leaf	12	9
Number of emerging shoots (5ft)	22	17

Date of observation 17 March 2023







Aussan employee: Hello, Ashwini kadam from Aussan laboratories.

what is your name?

Farmer: My name Rajesh Waghmode.

Aussan employee: You have cultivated sugarcane .when sugarcane is transplanted? And

which variety

Farmer: Yes, in June and variety is 265.

Aussan employee: Lokmangal company has given you the product CropBiolife of Aussan

laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: What difference makes due to two spray?

Farmer: In treated plot, number of shoots, height of plant, numbers of canes and the

thickness of canes is increased.

Aussan employee: How many number of shoots?

Farmer: 20-22.

Aussan employee: And Number of canes?

Farmer: 10-12.

Aussan employee: What is the situation of unsprayed plot?

Farmer: There are 7-8 number of shoots and 5-6 Number of cane.

Aussan employee: Is should this product be used by other farmers?

Farmer: This product should be used.

Aussan employee: Is this product beneficial or not?

Farmer: It is beneficial.



Farmer Name : Santosh Aamle Village : Sawaleshwar District : Solapur, Maharashtra.

Contact: 7028160441 First application: 18/09/2022 Second Application: 21/10/2022

CBL Dose: 2 ml/L

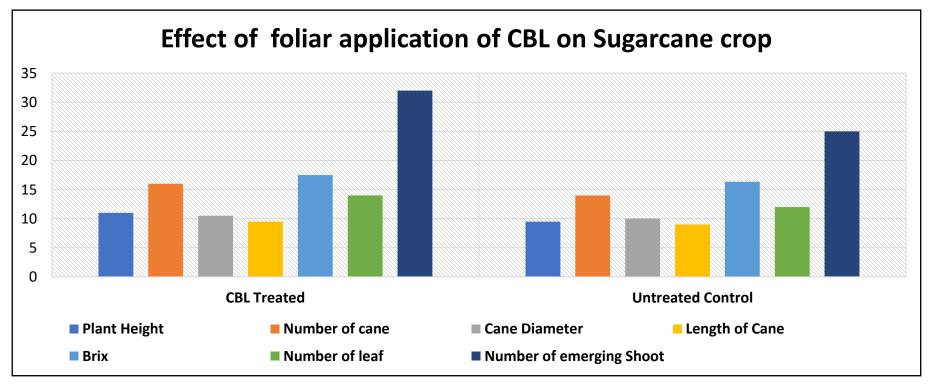


Treated with CBL









Parameters	CBL treated	Untreated Control
Plant Height (ft)	11	9.5
Number of canes	16	14
Cane Diameter	10.5	9.5
Length of Cane	9.5	9
BRIX	17.5	16.3
Number leaf	14	12
Number of emerging shoots (5ft)	32	25

Date of observation 17 March 2023







Aussan employee: Hello, Ashwini kadam from Aussan laboratories.

what is your name?

Farmer: My name Santosh Aamle.

Aussan employee: you have cultivated sugarcane, when sugarcane is transplanted? And which

variety.

Farmer: Yes, in August and variety is 265.

Aussan employee: Lok Mangal company has given you the product CropBioLife of Aussan

laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: What is difference between sprayed and not sprayed plot?

Farmer: Number of cane is increased the diameter of cane (thickness) is greater. Difference in

growth.

Aussan employee: How many number of shoots?

Farmer: In treated plot, there are 30-32 number of shoot. In untreated plot, 25-27 No of shoot.

Aussan employee: And Number of canes?

Farmer: In Treated plot, there are 16-17 number of canes. In untreated plot, 14 number of canes.

Aussan employee: Which plot is better?

Farmer: A sprayed plot is good.

Aussan employee: Is this product beneficial or not?. Should this product be used by other farmers?

Farmer: It is beneficial. This product should be used.



âussan

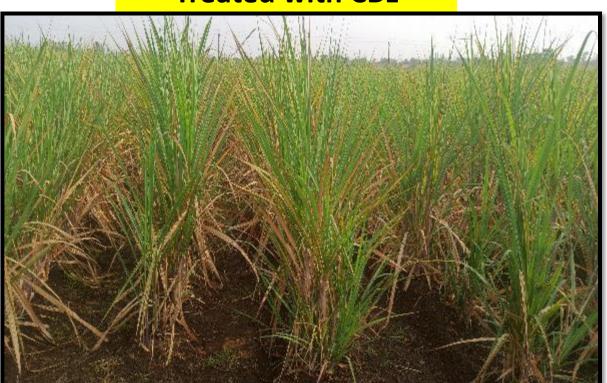
Farmer Name: Dhananjay Chavan

Village: Sawaleshwar District: Solapur, Maharashtra.

Contact: 8007867225
First application: 18/09/2022
Second Application: 19 /10/2022

CBL Dose: 2 ml/L

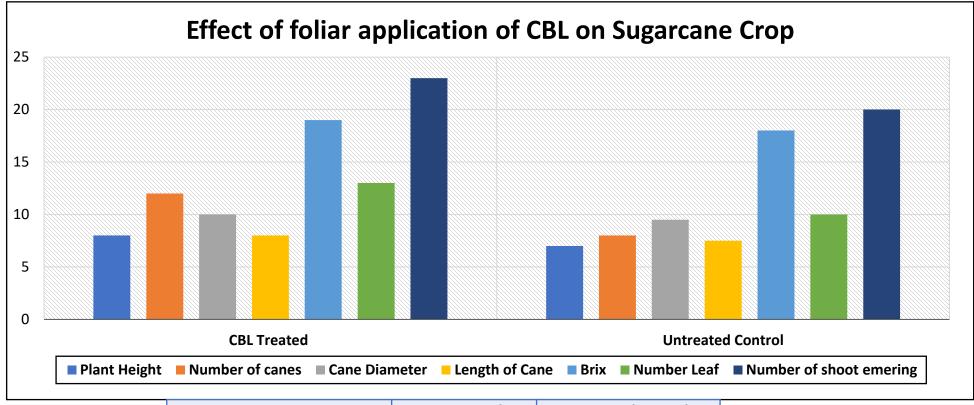
Treated with CBL











Parameters	CBL treated	Untreated Control
Plant Height (ft)	8	7
Number of canes	12	8
Cane Diameter	10	9.5
Length of Cane	8	7.5
BRIX	19	18
Number leaf	13	10
Number of emerging shoots (5ft)	23	20

Date of observation 16 March 2023







Aussan employee: Hello, Ashwini kadam from Aussan laboratories.

what is your name?

Farmer: My name Dhananjay Chavan from Sawaleshwar.

Aussan employee: you have cultivated sugarcane .when sugarcane is

transplanted? And which variety.

Farmer: Yes, in August and variety is 265, 86032. I took two spray on both of

variety.

Aussan employee: Lokmangal company has given you the product CropBioLife of

Aussan laboratories. How many sprays it took?

Farmer: Yes, I took two spray.

Aussan employee: what is difference between sprayed and not sprayed plot?

Farmer: In Treated plot, There are 12-14 number of canes and in Untreated plot, there are 9-10 number of canes. And number of shoot is higher than not sprayed plot. There are 20-23 number of shoots are developed, and in untreated plot, there are 14-15 number of shoots.

Aussan employee: Is this product beneficial or not? Should this product be used

by other farmers?

Farmer: It is beneficial. This product should be used.



Farmer Name: Shivappa Bijrangi Village: Bhandhar kavathe District: Solapur, Maharashtra. Contact: 7028160441 First application: 16/09/2022 Second Application: 28/10/2022

CBL Dose: 2 ml/L



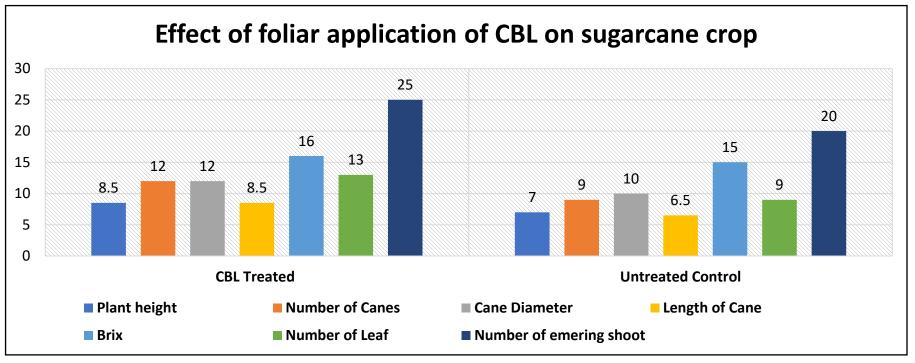
Treated with CBL











Parameters	CBL treated	Untreated Control
Plant Height (ft)	8.5	7
Number of canes	12	9
Cane Diameter	12	10
Length of Cane	8.5	6.5
BRIX	16	15
Number leaf	13	9
Number of emerging		
shoots (5ft)	25	20

Date of observation 18 March 2023

Note: Farmer is not available. So review is not recorded.