



Effect of foliar application of Aussan CropBioLife on sugarcane crop trial conducted at Solapur district of Maharashtra, India

Collaboration with LokMangal Agro Industries

Details of Sugarcane plots selected for trial

| Plot No. | Taluka_Village | Sugarcane Variety | Date of Plantation | Date of Application | | Date of Observation | | | | Farmer Name | Contact No | Farmer Testimonial video |
|----------|---------------------------------|-------------------|--------------------|---------------------|-------------|---------------------|-------------|------------|-------------|----------------------|------------|---|
| | | | | 1 | 2 | 1 | 2 | 3 | 4 | | | |
| 1 | North Solapur _Sirapur | 265 | 15-Jul-2022 | 17-Sep-2022 | 27-Oct-2022 | 30-Sep-2022 | 27-Oct-2022 | 6-Dec-2022 | 2-Mar-2023 | Nagnath Natake | 9765887122 | Available |
| 2 | North Solapur _Lamboti | 265 | 15-Jul-2022 | 18-Sep-2022 | 20-Oct-2022 | 30-Sep-2022 | 20-Oct-2022 | 7-Dec-2022 | 16-Mar-2023 | Ramchandra Waghmode | 9922408576 | Available |
| 3 | South Solapur _ Bhandhar kavthe | 265 | 28-Jul-2022 | 16-Sep-2022 | 28-Oct-2022 | 1-Oct-2022 | 28-Oct-2022 | 8-Dec-2022 | 18-Mar-2023 | Shridamm Balgavkar | 9588421007 | Available |
| 4 | North Solapur _Wirewade | 265 | 25-Jun-2022 | 18-Sep-2022 | 21-Oct-2022 | 30-Sep-2022 | 20-Oct-2022 | 6-Dec-2022 | 17-Mar-2023 | Sudarshan Saka | 9359040583 | Available |
| 5 | North Solapur _Lamboti | 265 | 15-Jul-2022 | 18-Sep-2022 | 20-Oct-2022 | 30-Sep-2022 | 20-Oct-2022 | 7-Dec-2022 | 17-Mar-2023 | Rajesh Waghmode | 8459247474 | Available |
| 6 | North Solapur _ Sawaleshwar | 265 | 25-Jun-2022 | 18-Sep-2022 | 21-Oct-2022 | 30-Sep-2022 | 21-Oct-2022 | 6-Dec-2022 | 17-Mar-2023 | Santosh Aamle | 7028160441 | Available |
| 7 | North Solapur _ Sawaleshwar | 265 | 15-Jul-2022 | 18-Sep-2022 | 19-Oct-2022 | 30-Sep-2022 | 19-Oct-2022 | 7-Dec-2022 | 16-Mar-2023 | Dhanajay Chavan | 8007867225 | Available |
| 8 | North Solapur _ Bhandhar Kavthe | 265 | 6-May-2022 | 16-Sep-2022 | 28-Oct-2022 | 1-Oct-2022 | 28-Oct-2022 | 8-Dec-2022 | 18-Mar-2023 | Shivappa Bijrangi | 9049545126 | farmer not available |
| 9 | North solapur _ Bibidarphal | 265 | 15-Jul-2022 | 17-Sep-2022 | 27-Oct-2022 | 30-Sep-2022 | 27-Oct-2022 | 6-Dec-2022 | | Parikshit Deshmukh | 9158544890 | farmer not available |
| 10 | North solapur _Bibidarphal | 265 | 8-Jun-2022 | 18-Sep-2022 | | 30-Sep-2022 | 20-Oct-2022 | 7-Dec-2022 | | Rifik Tamboli | 9764755617 | No control plot |
| 11 | North solapur _Sirapur | 265 | 15-Jul-2022 | 17-Sep-2022 | | 30-Sep-2022 | 21-Oct-2022 | 7-Dec-2022 | | Krushnant Gavali | 9923404629 | Only 1 spray done |
| 12 | North solapur _Kundegaon | 265 | 21-Jul-2022 | 20-Sep-2022 | | 30-Sep-2022 | 20-Oct-2022 | 7-Dec-2022 | | Ravindra Waghmode | 9881464116 | Only 1 spray done |
| 13 | North Solapur _Vinchur | 265 | 7-May-2022 | 16-Sep-2022 | 29-Oct-2022 | 1-Oct-2022 | 29-Oct-2022 | 8-Dec-2022 | | Dagdu Fadatare | 7020156667 | Harvesting |
| 14 | North Solapur _Vinchur | 265 | 7-Jun-2022 | 16-Sep-2022 | 29-Oct-2022 | 1-Oct-2022 | 29-Oct-2022 | 8-Dec-2022 | | Chandrakant Fadatare | 9112897403 | Harvesting |
| 15 | North Solapur _Lamboti | 265 | 8-Mar-2022 | 18-Sep-2022 | 19-Oct-2022 | 30-Sep-2022 | 19-Oct-2022 | 7-Dec-2022 | | Deepak Waghmere | 7972842255 | No control plot |
| 16 | North Solapur _Lamboti | 265 | 15-Jul-2022 | 18-Sep-2022 | 20-Oct-2022 | 30-Sep-2022 | 20-Oct-2022 | 7-Dec-2022 | | Aambadas Waghmere | 9356598658 | Treated and untreated plot variety is different |

Observation summary of Sugarcane Plot

| Sugarcane Plot | Treatment | Parameters | | | | | | |
|----------------|-------------------|-------------------|-----------------|---------------|-------------|-------|-------------|---------------------------|
| | | Plant Height (ft) | Number of Canes | Cane Diameter | Cane Length | BRIX | Number leaf | Number of emerging shoots |
| 1 | CBL treated | 11.50 | 13.00 | 4.50 | NR | 16.67 | 14.00 | 12.00 |
| | Untreated Control | 10.00 | 11.00 | 3.90 | NR | 15.48 | 11.00 | 9.00 |
| 2 | CBL treated | 8.50 | 15.00 | 11.00 | 9.50 | 17.00 | 12.00 | 32.00 |
| | Untreated Control | 7.50 | 11.00 | 10.00 | 8.5 | 16.00 | 10.00 | 27.00 |
| 3 | CBL treated | 8.50 | 13.00 | 12.00 | 11.30 | 14.66 | 13.00 | 12.00 |
| | Untreated Control | 8.00 | 10.00 | 10.50 | 10.00 | 13.66 | 11.00 | 10.00 |
| 4 | CBL treated | 9.30 | 14.00 | 10.50 | 8.00 | 18.00 | 12.00 | 19.00 |
| | Untreated Control | 8.00 | 11.00 | 9.80 | 6.90 | 17.16 | 9.00 | 15.00 |
| 5 | CBL treated | 9.50 | 14.00 | 10.20 | 9.00 | 19.30 | 12.00 | 22.00 |
| | Untreated Control | 8.50 | 10.00 | 9.50 | 8.00 | 18.00 | 9.00 | 17.00 |
| 6 | CBL treated | 11.00 | 16.00 | 10.50 | 9.50 | 17.50 | 14.00 | 32.00 |
| | Untreated Control | 9.50 | 14.00 | 9.50 | 9.00 | 16.30 | 12.00 | 25.00 |
| 7 | CBL treated | 8.00 | 12.00 | 10.00 | 8.00 | 19.00 | 13.00 | 23.00 |
| | Untreated Control | 7.00 | 8.00 | 9.50 | 7.50 | 18.00 | 10.00 | 20.00 |
| 8 | CBL treated | 8.50 | 12.00 | 12.00 | 8.50 | 16.00 | 13.00 | 25.00 |
| | Untreated Control | 7.00 | 9.00 | 10.00 | 6.50 | 15.00 | 9.00 | 20.00 |

PLOT NO 1

Farmer Name: Nagnath Natake
Village: Sirapur
District : Solapur, Maharashtra.
Contact : 9765887122
First application : 17/09/2022
Second Application : 27/10/2022
CBL Dose : 2 ml/L

CropBioLife treated



Untreated Control



Farmer Practice



CBL treated



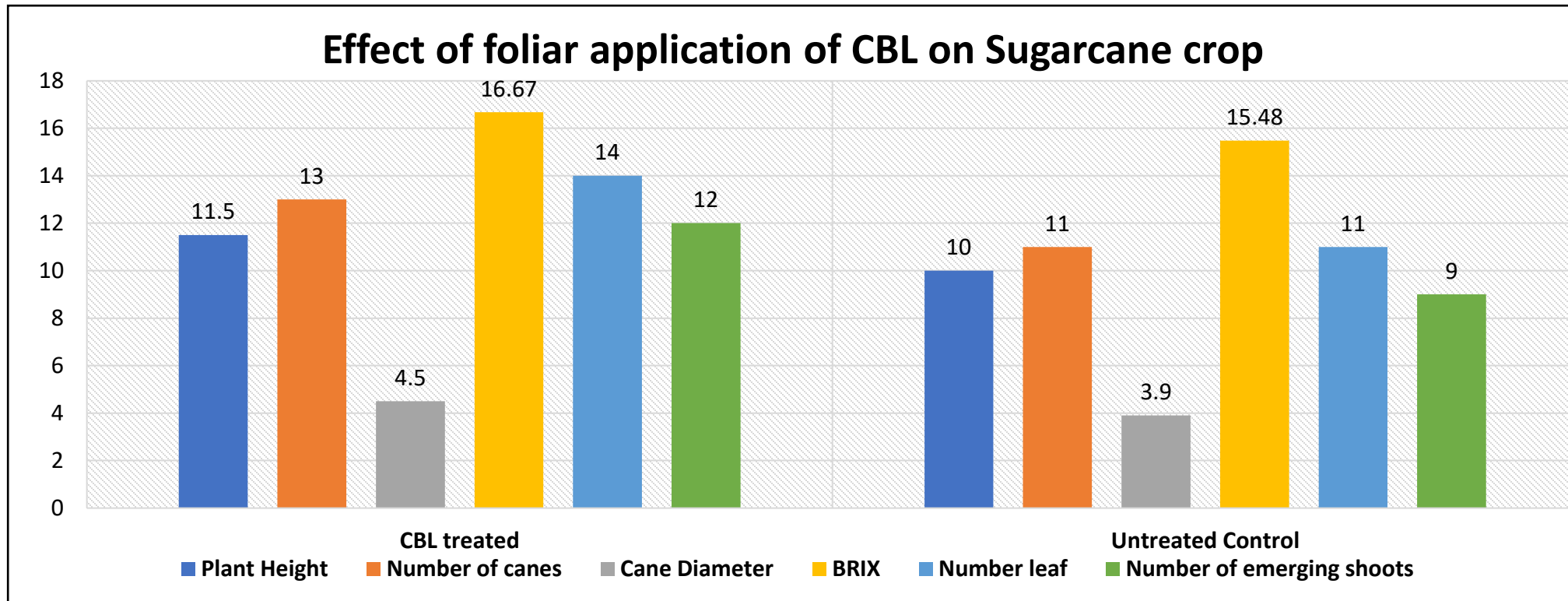
Solapur, Maharashtra, India

Unnamed Road, Maharashtra 413213, India

Lat 17.79048°

Long 75.721339°

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| 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 |

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?

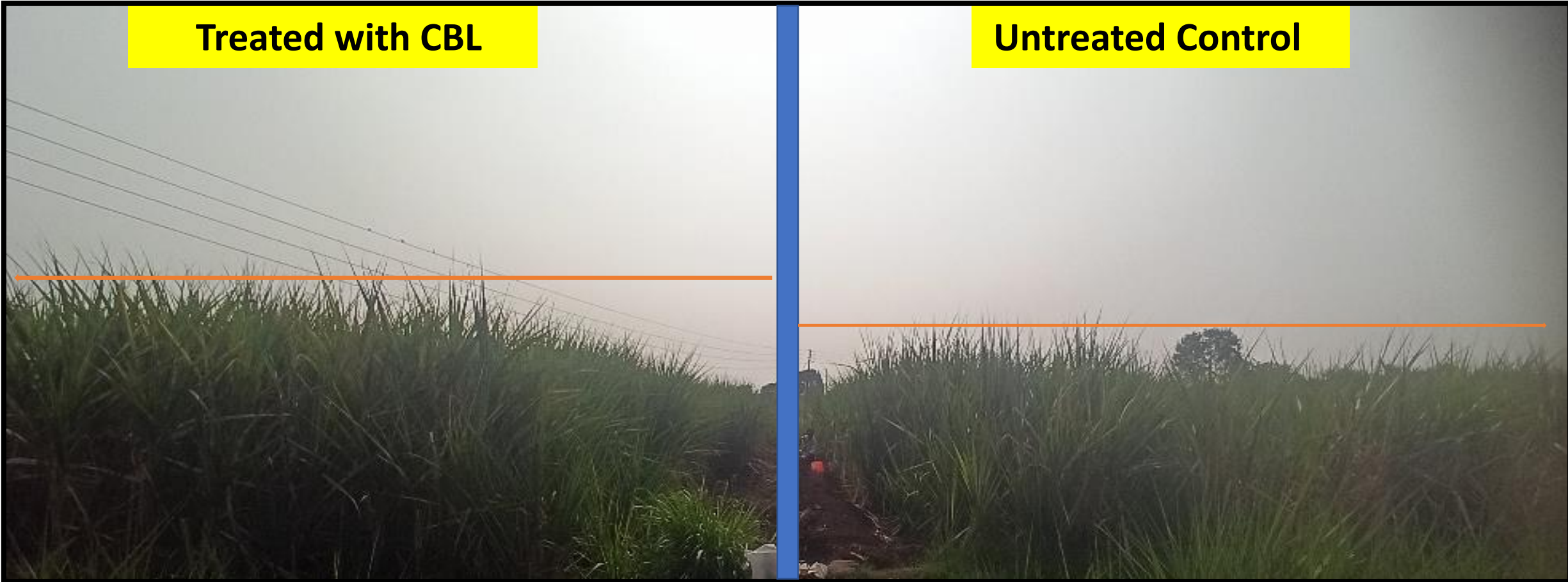
Farmer – A sprayed plot is good. In untreated plot, there is no growth of plants.

PLOT NO 2

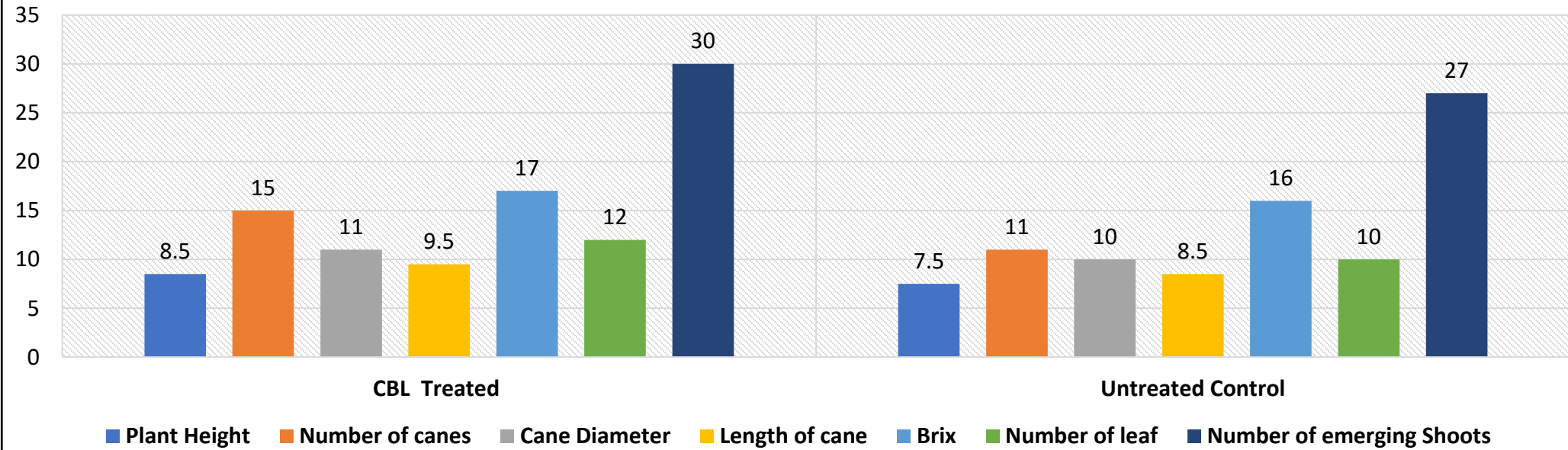
Farmer Name: Ramchandra Waghmode
Village: Lamboti
District : Solapur, Maharashtra.
Contact: 9922408576
First application: 18/9/2022
Second Application: 20/10/2022
CBL Dose - 2 ml/L

Treated with CBL

Untreated Control



Effect of foliar application of CBL on sugarcane crop



| 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 |

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

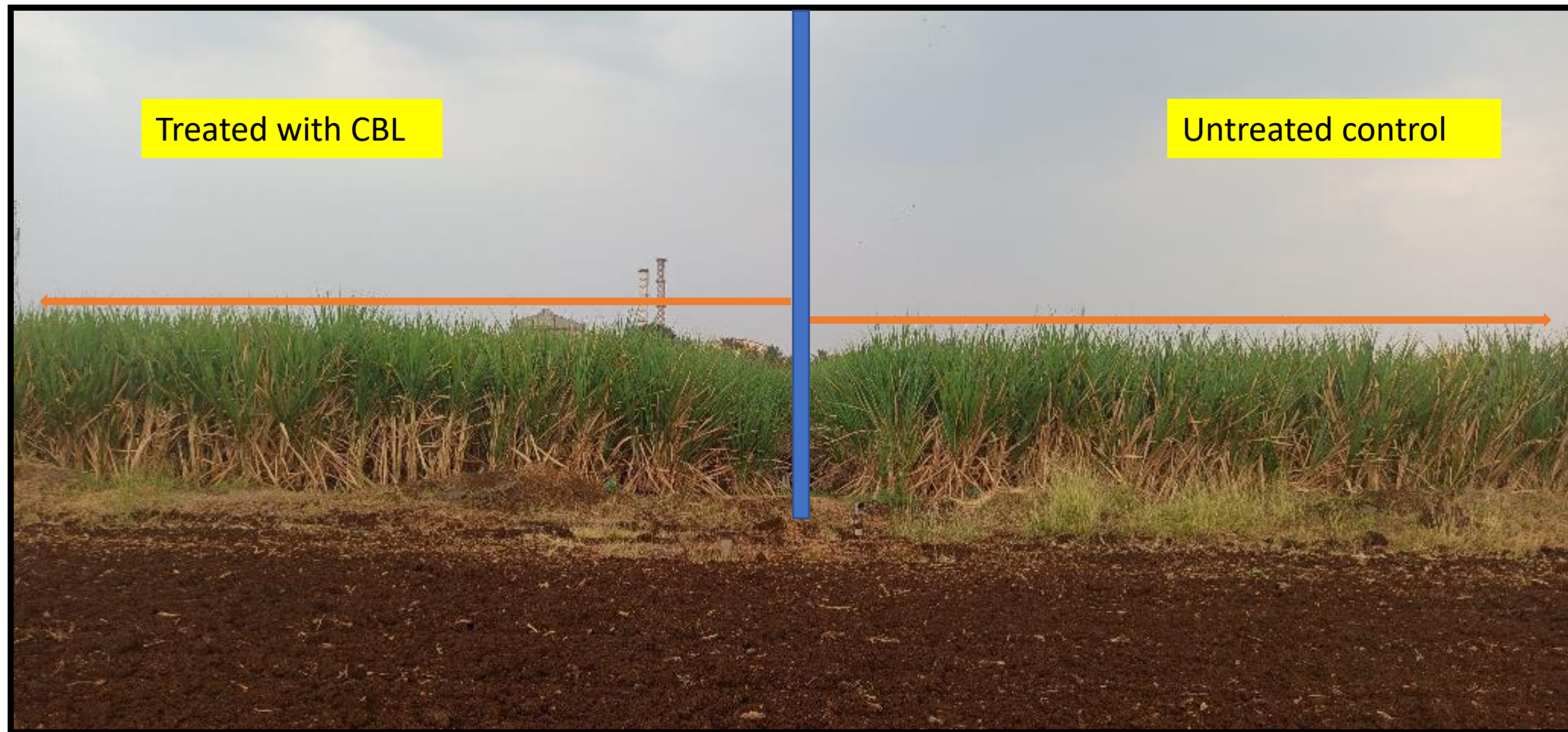
Aussan employee : Is this product beneficial or not?

Farmer : It is beneficial .

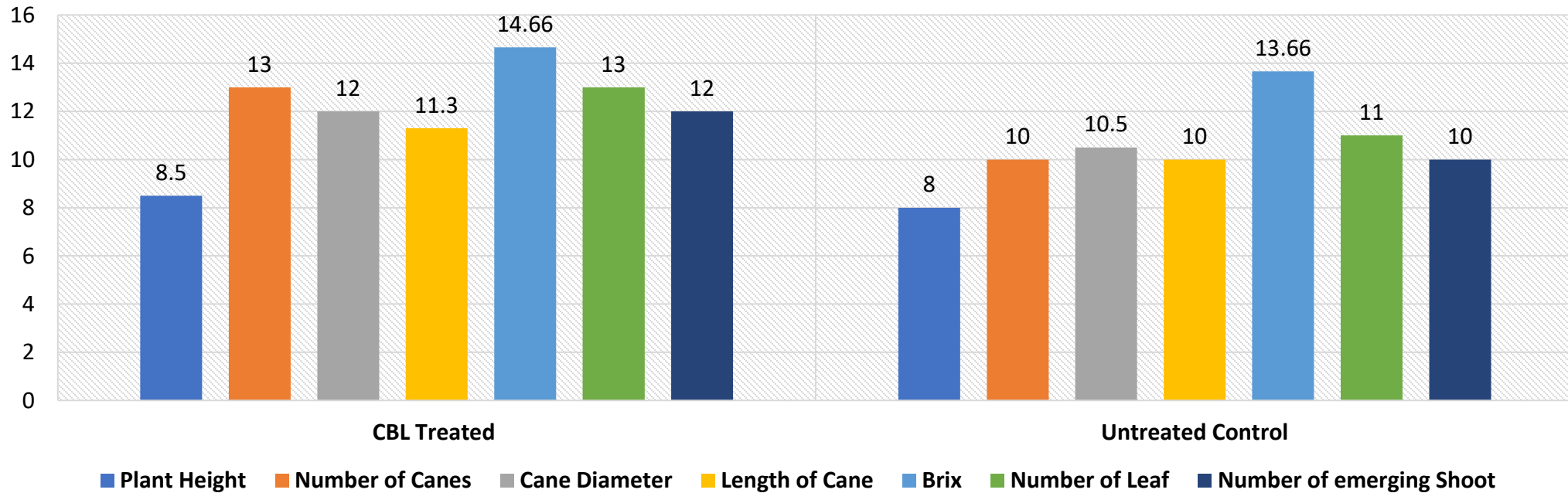
Aussan employee: Thank you!

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



Effect of foliar application of CBL on sugarcane crop



| 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 |

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 4

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

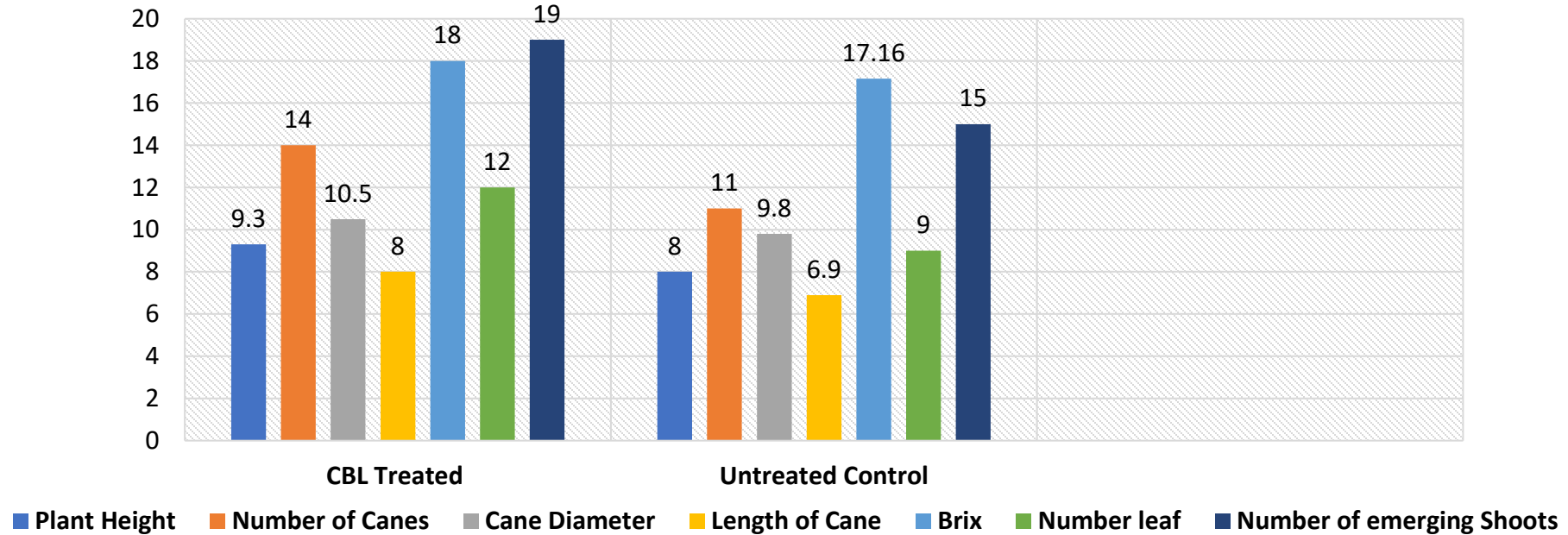
Treated with CBL



Untreated Control



Effect of foliar application of CBL on sugarcane crop



| 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 |

Farmer Testimonial Video



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.

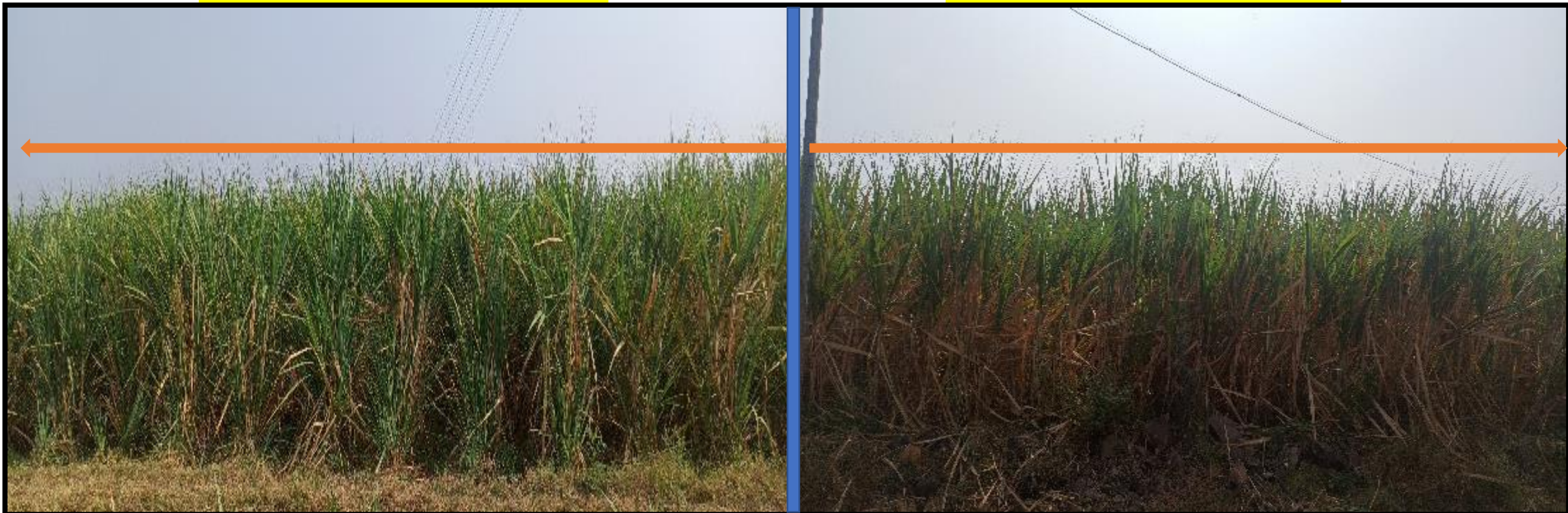
Aussan employee: Thank you!

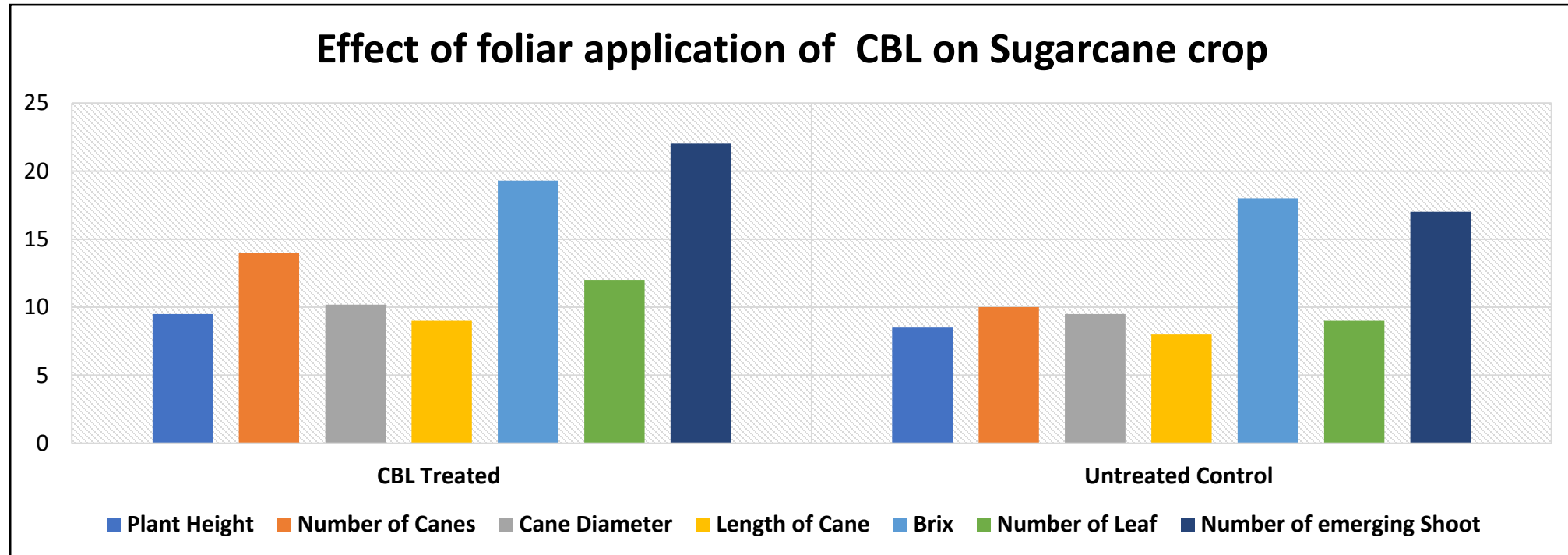
PLOT NO 5

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

Untreated Control





| 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 |

Farmer Testimonial Video



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.

Aussan employee: Thank you!

PLOT NO 6

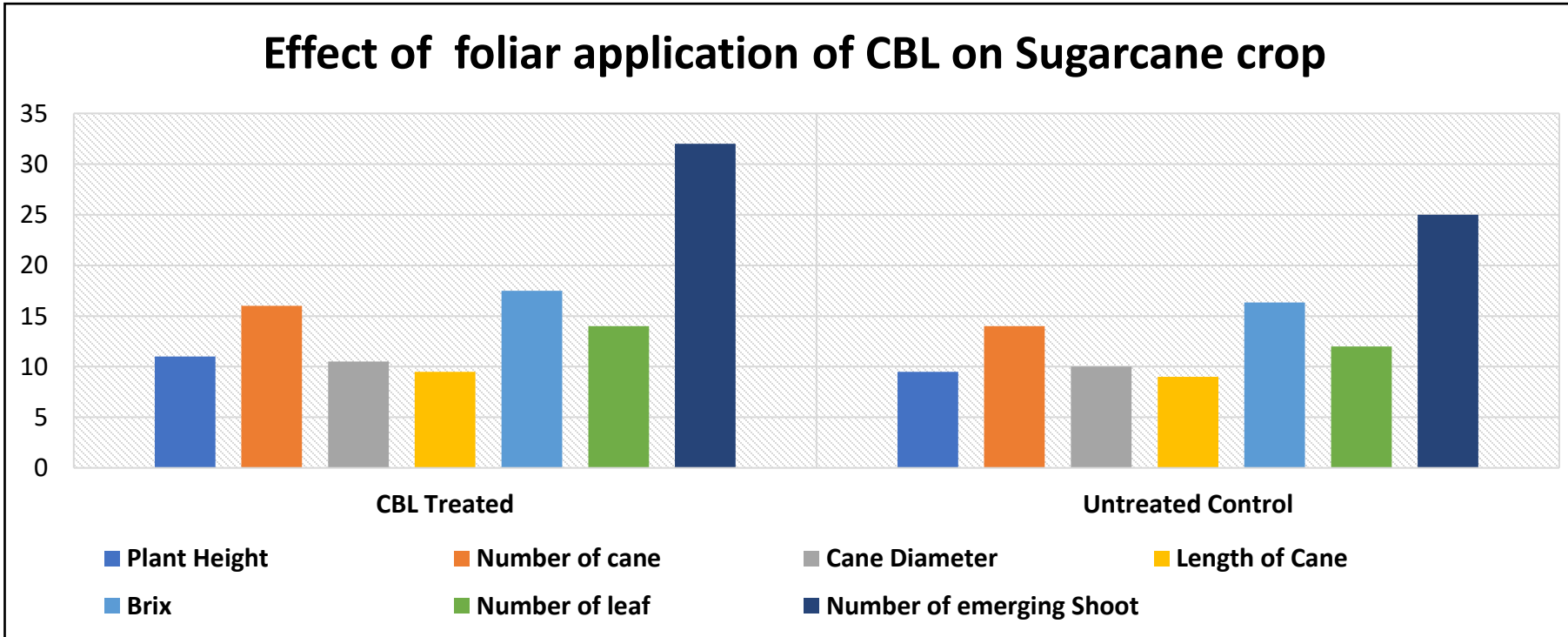
Farmer Name : Santosh Aamle
Village : Sawaleshwar
District : Solapur, Maharashtra.
Contact : 7028160441
First application : 18/09/2022
Second Application : 21 /10/2022
CBL Dose : 2 ml/L

Treated with CBL



Untreated Control





| 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 |

Farmer Testimonial Video



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.

Aussan employee: Thank you!

PLOT NO 7

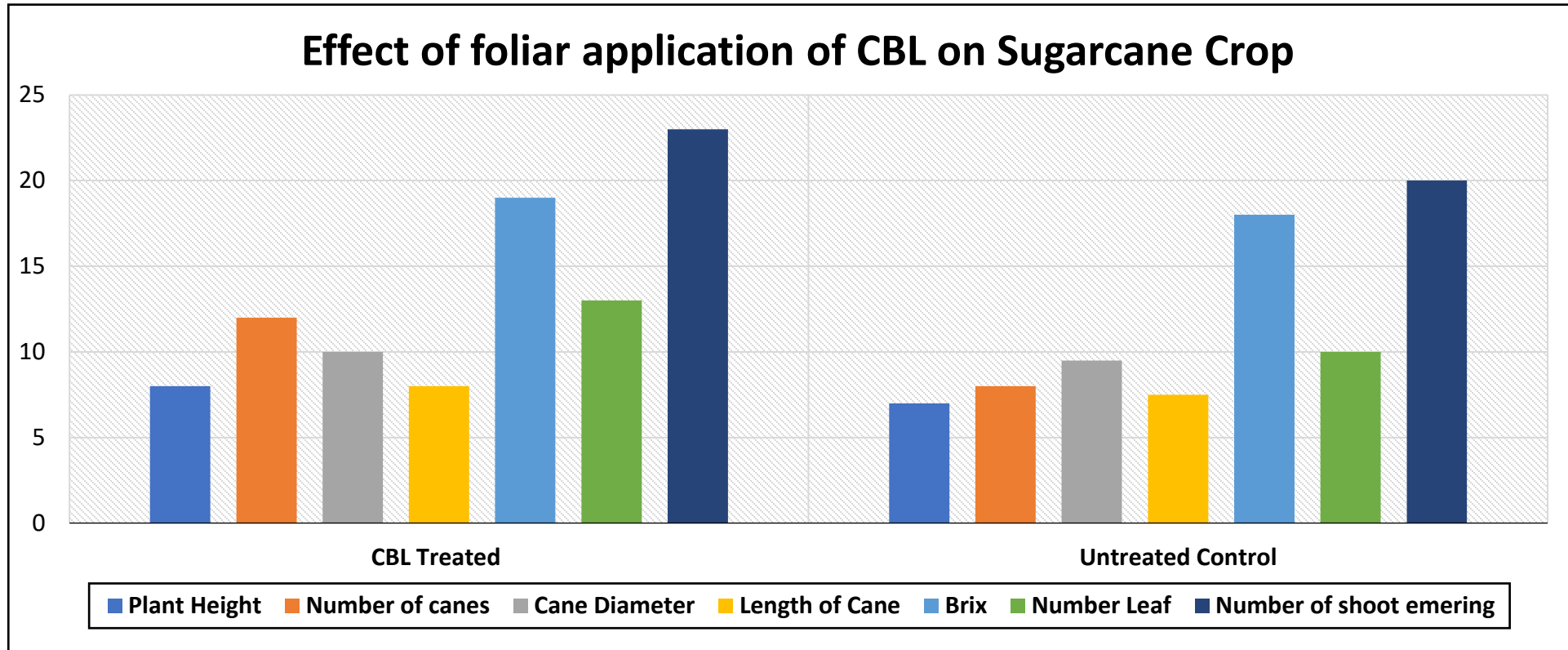
Farmer Name: Dhananjay Chavan
Village: Sawaleshwar
District: Solapur, Maharashtra.
Contact: 8007867225
First application: 18/09/2022
Second Application: 19 /10/2022
CBL Dose: 2 ml/L

Treated with CBL



Untreated Control





| 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 |

Farmer Testimonial Video



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.

Aussan employee: Thank you!

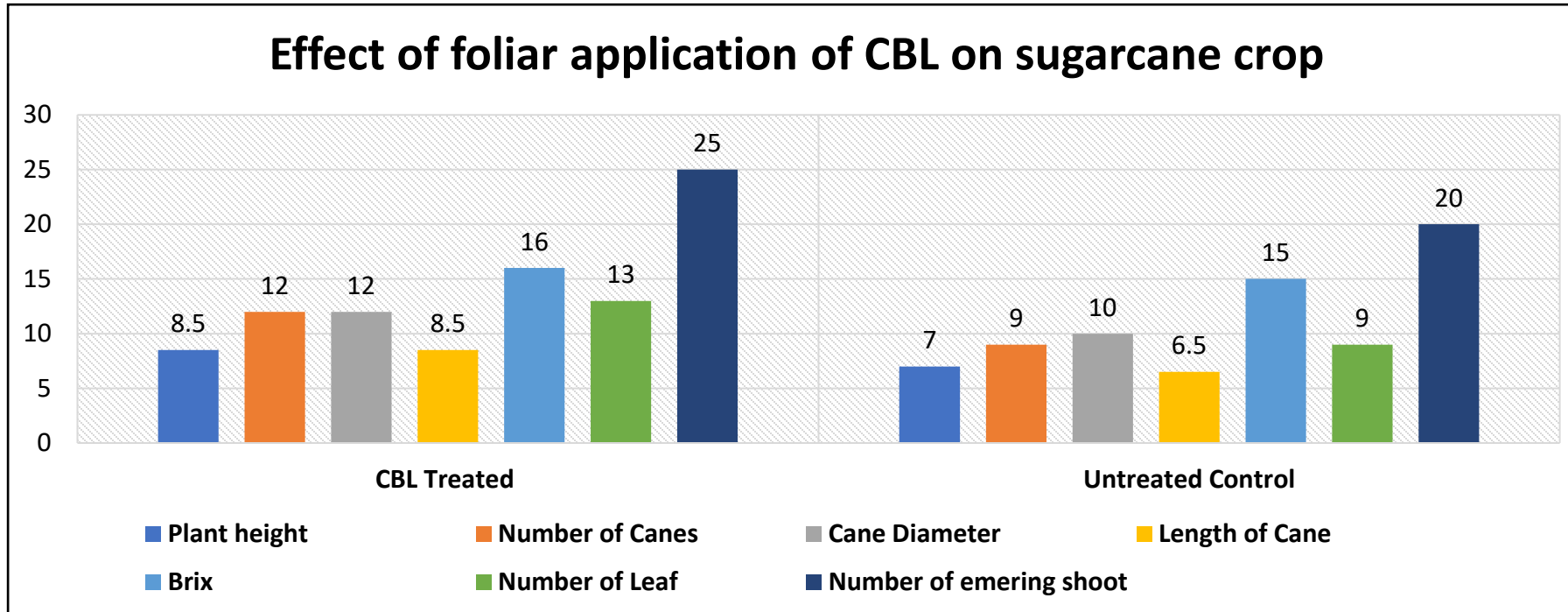
PLOT NO 8

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

Untreated Control





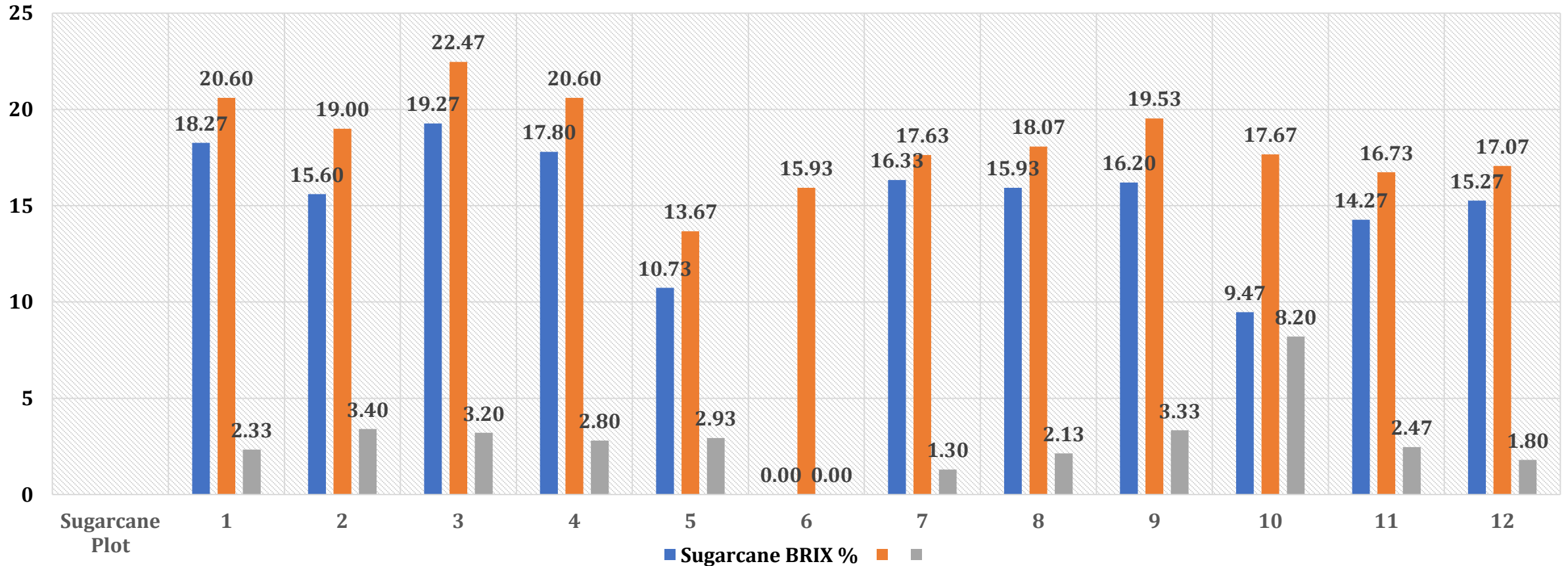
| Parameters | CBL treated | Untreated Control |
|---------------------------------|-------------|-------------------|
| Plant Height (ft) | 8.5 | 7 |
| Number of canes | 12 | 9 |
| Cane Diameter | 12 | 10 |
| Length of Cane | 8.5 | 6.5 |
| BRIX | 16 | 15 |
| Number leaf | 13 | 9 |
| Number of emerging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

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

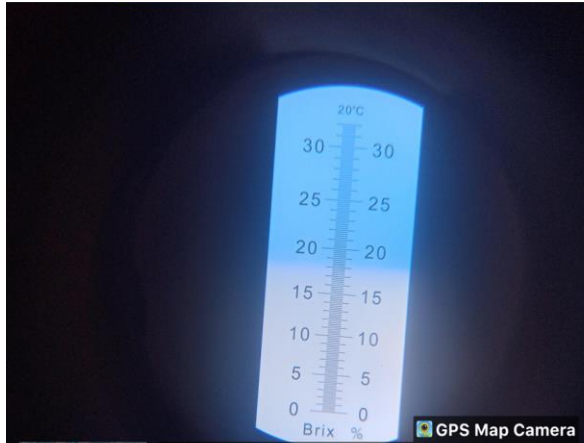
BRIX observation recorded in 12 plot date 24th April 2023 to 27th April 2023 in 12 Sugarcane plot

| Sugarcane Plot | Farmer name | Sugarcane BRIX % | | BRIX increased by CBL application |
|----------------|----------------------|------------------|------------------|-----------------------------------|
| | | Untreated Plot | CBL Treated Plot | |
| 1 | Rajesh Waghmode | 18.27 | 20.60 | 2.33 |
| 2 | Pankaj Natake | 15.60 | 19.00 | 3.40 |
| 3 | Sudarshan Saka | 19.27 | 22.47 | 3.20 |
| 4 | Santosh Aamle | 17.80 | 20.60 | 2.80 |
| 5 | Parikshit deshमुख | 10.73 | 13.67 | 2.93 |
| 6 | Rifik Tamboli | NA | 15.93 | ND |
| 7 | Krushnat Gavali | 16.33 | 17.63 | 1.30 |
| 8 | Shridamm Balgavkar | 15.93 | 18.07 | 2.13 |
| 9 | Shivappa Bijrangi | 16.20 | 19.53 | 3.33 |
| 10 | Dhanajay Chavan | 9.47 | 17.67 | 8.20 |
| 11 | Ravindra Waghmode | 14.27 | 16.73 | 2.47 |
| 12 | Ramachandra Waghmode | 15.27 | 17.07 | 1.80 |

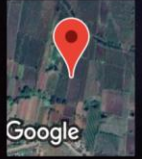
BRIX % in Sugarcane



Untreated Control



GPS Map Camera

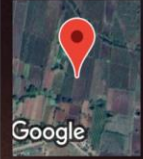


Lamboti, Maharashtra, India
Unnamed Road, Lamboti, Maharashtra 413213, India
Lat 17.786567°
Long 75.727415°
27/04/23 09:29 AM GMT +05:30

CBL Treated



GPS Map Camera

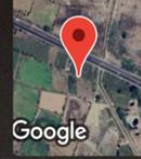


Lamboti, Maharashtra, India
Unnamed Road, Lamboti, Maharashtra 413213, India
Lat 17.78653°
Long 75.727415°
27/04/23 09:41 AM GMT +05:30

Untreated Control

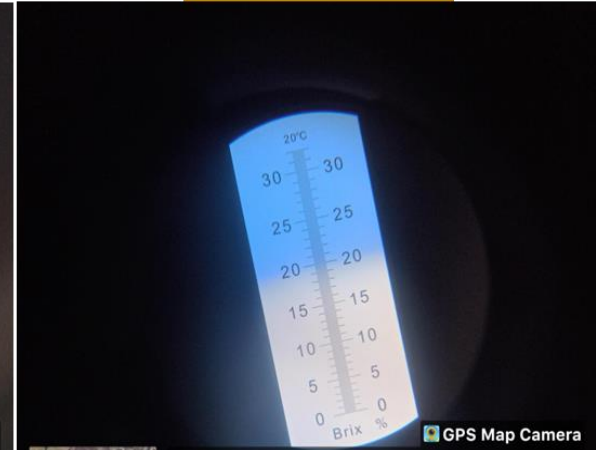


GPS Map Camera

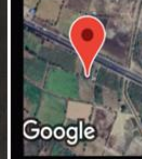


Sawaleshwar, Maharashtra, India
Solapur Rd, Sawaleshwar, Maharashtra 413222, India
Lat 17.767011°
Long 75.749352°
27/04/23 08:20 AM GMT +05:30

CBL Treated

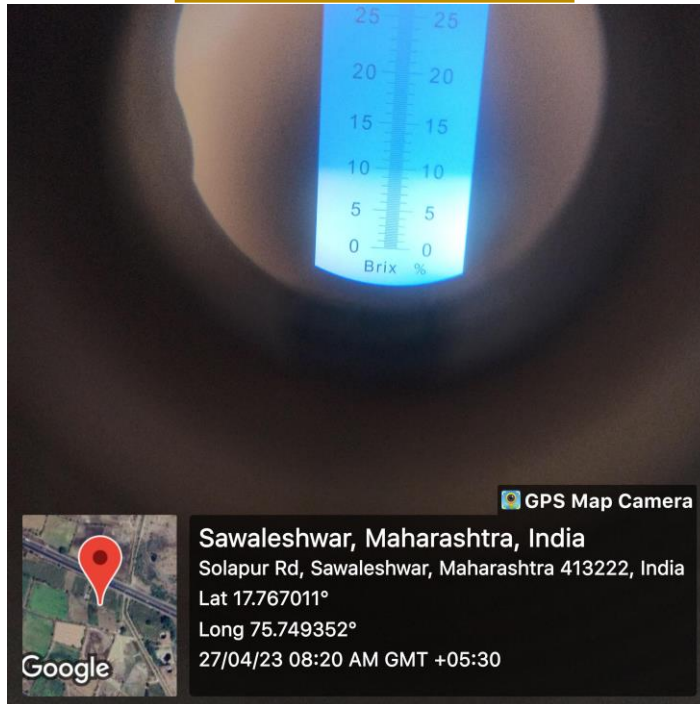


GPS Map Camera



Sawaleshwar, Maharashtra, India
Solapur Rd, Sawaleshwar, Maharashtra 413222, India
Lat 17.76729°
Long 75.748807°
27/04/23 08:06 AM GMT +05:30

Untreated Control



CBL Treated

