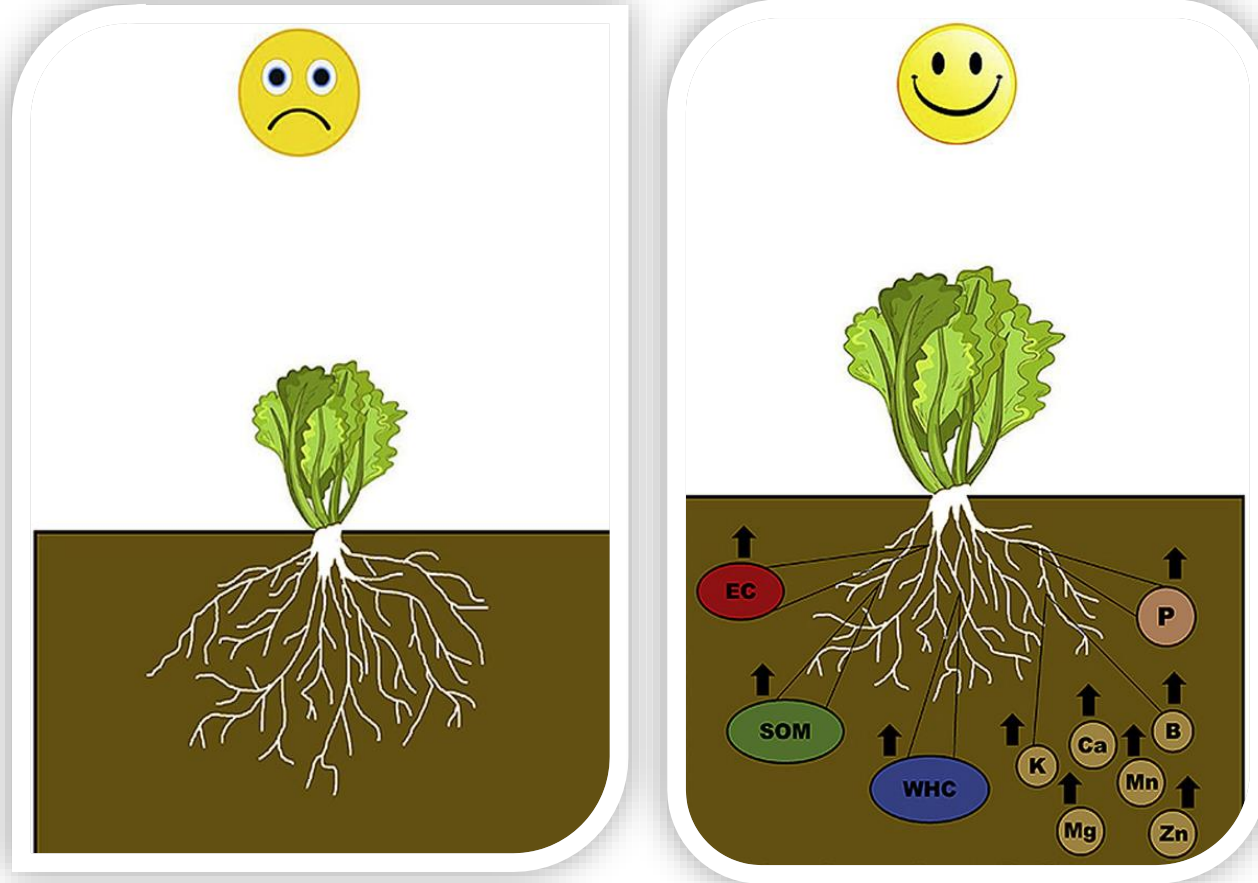


Effect of Foliar application CropBioLife on fruit quality yield in tomato crop

Aussan Laboratories CropBioLife Product

- Revolutionary solution for fixation atmospheric CO₂ for improvement of crop biomass and soil organic carbon**
- Increase in yield, fruit weight and size of fruit**
- C:N ratio is balanced in favor of C, plant became resistance against pest and disease attack**
- Resulting less need of pesticide for pest and disease management**



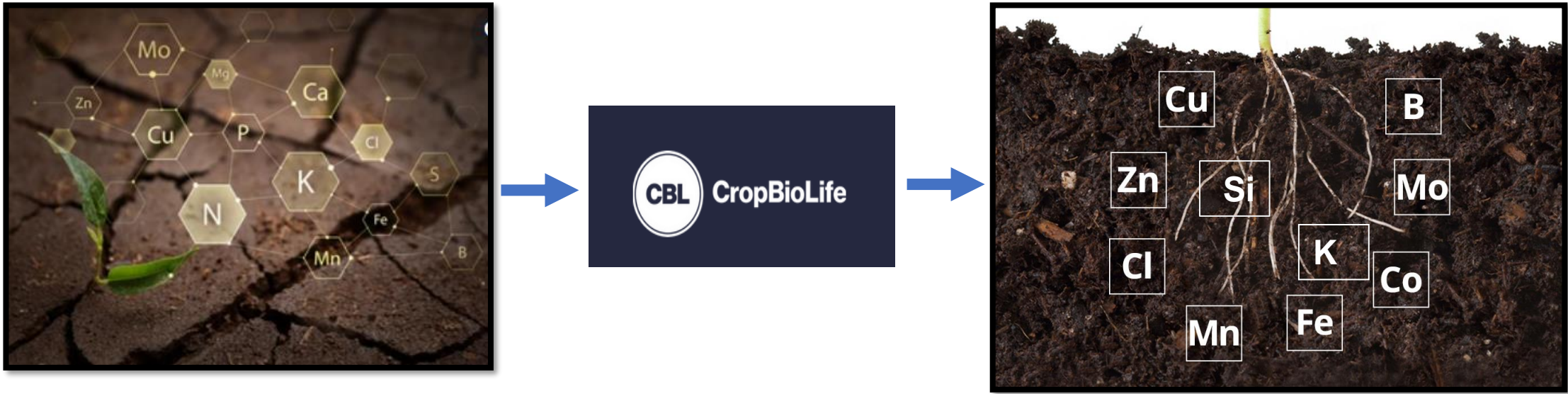
Foliar application of CBL enhance Carbon sequestration process

- ❑ Foliar application of CBL, enhance rate of metabolism (photosynthesis) leading to more CO₂ absorption, increase synthesis of carbohydrate concentration.
- ❑ Foliar application of CBL, enhance rate of metabolism (respiration) induced plant respiration or catabolism of carbohydrate to organic acid, organic acid secretes root exudate through root system in to the rhizosphere soil.

Improve soil fertility

- Soil EC
- Soil microorganism especially mycorrhiza population

Solution for better absorption of micronutrients, it help plant to tolerate stress condition



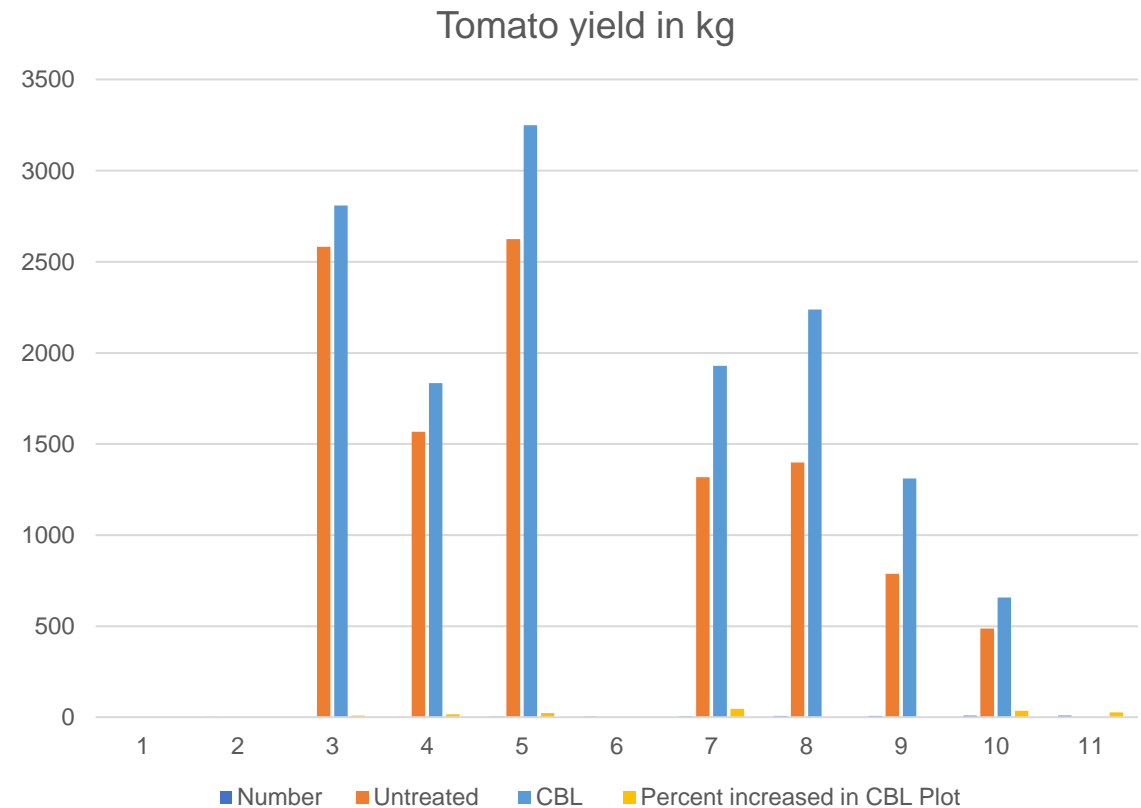
- ❑ It Helps to improve soil microbial, increases total microbial count especially mycorrhiza in soil
- ❑ Better white root growth which stimulates uptake of Si, K, P, Zn, Mg, Ca, B, and N which accelerates metabolic reactions even in abiotic condition

Plot details Experiment Study effect of foliar application of CBL on tomato crop

Plot No	Farmer Name	Contact Number	Variety	Area of Tomato Plantation (10 ³ square feet)	Date of Plantation	Seedling treatment	Date of CBL application			CBL application Days after transplantation			Date of observation		
							1	2	3	1	2	3	1	2	3
1	Ram Singh	7982301978	Kunal (Gulsan)	2 acre	12/9/2022	No	1/10/2022	29/10/2022	29/11/2022	19	47	78	7/1/2023	16/01/2023	25/01/2023
2	Uday Singh	8292991574	NAMDHARI526, Nisha	2 acre	23/09/2022	No	8/10/2022	5/11/2022	6/12/2022	15	43	74	11/1/2023	19/01/2023	30/01/2023
3	Sunil Yadav	8340748734	Kunal (Gulsan)	1.25 acre	11/9/2022	No	30/09/2022	28/10/2022	26/11/2022	19	47	76	10/1/2023	19/01/2023	23/01/2023
4	Raushan Kumar	7488981088	Kunal	0.5 acre	13/09/2022	No	2/10/2022	1/11/2022	30/11/2022	19	49	78	9/1/2023	20/01/2023	7/2/2023
5	Sawan Oraon	6207848582	Kunal	0.75 acre	22/10/2022	Yes	5/11/2022	1/12/2022	29/12/2022	14	40	68	15/02/2023	24/02/2023	1/3/2023
6	Mahendra Oraon	9661136884	Kunal	0.25 acre	9/10/2022	Yes	22/10/2022	21/11/2022	22/12/2022	13	43	74	12/2/2023	20/02/2023	27/02/2023
7	Jugeshwar Oraon	6299844795	Kunal	0.25 acre	5/10/2022	Yes	13/10/2022	12/11/2022	10/12/2022	8	38	66	13/02/2023	21/02/2023	1/3/2023
8	Naresh Oraon	6202469609	Kunal	0.75 acre	13/10/2022	Yes	28/10/2022	27/11/2022	26/12/2022	16	46	75	14/02/2023	24/02/2023	2/3/2023
9	Desi Oraon	9835525431	Kunal	1.25 acre	16/10/2022	Yes	28/10/2022	27/11/2022	25/12/2022	13	43	71	14/02/2023	24/02/2023	2/3/2023
10	Dhandeo Oraon	8252490692	Kunal	0.30 acre	7/10/2022	Yes	21/10/2022	22/11/2022	20/12/2022	15	47	75	17/02/2023	25/02/2023	3/3/2023

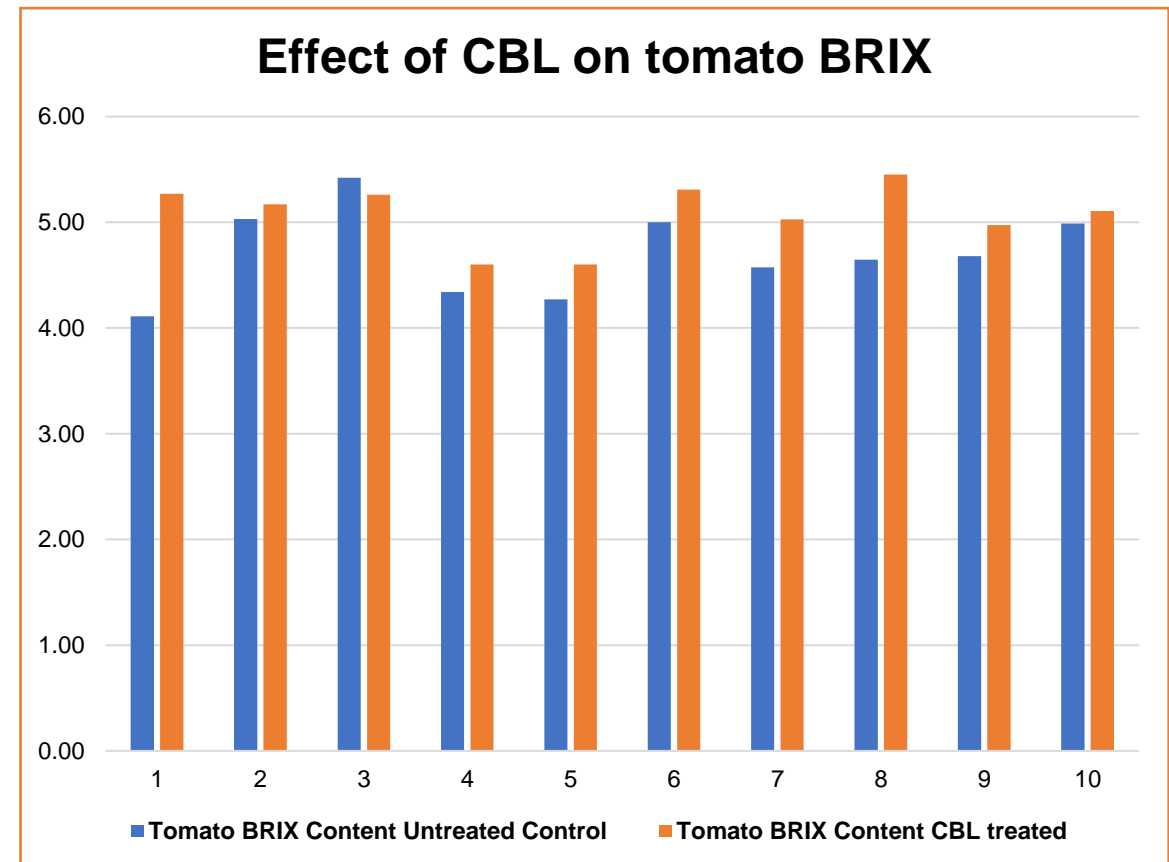
Effect of foliar application of CBL on tomato Yield

Number	Untreated	CBL	Percent increased in CBL Plot
	Control	treated	
1	NR	NR	NR
2	2583	2808	8.72
3	1567	1833	17.02
4	2625	3250	23.81
5	NR	NR	NR
6	1318	1928	46.26
7	1399	2239	NR
8	788.2	1310	NR
9	486.6	657.3	35.07
10	NR	NR	26.18



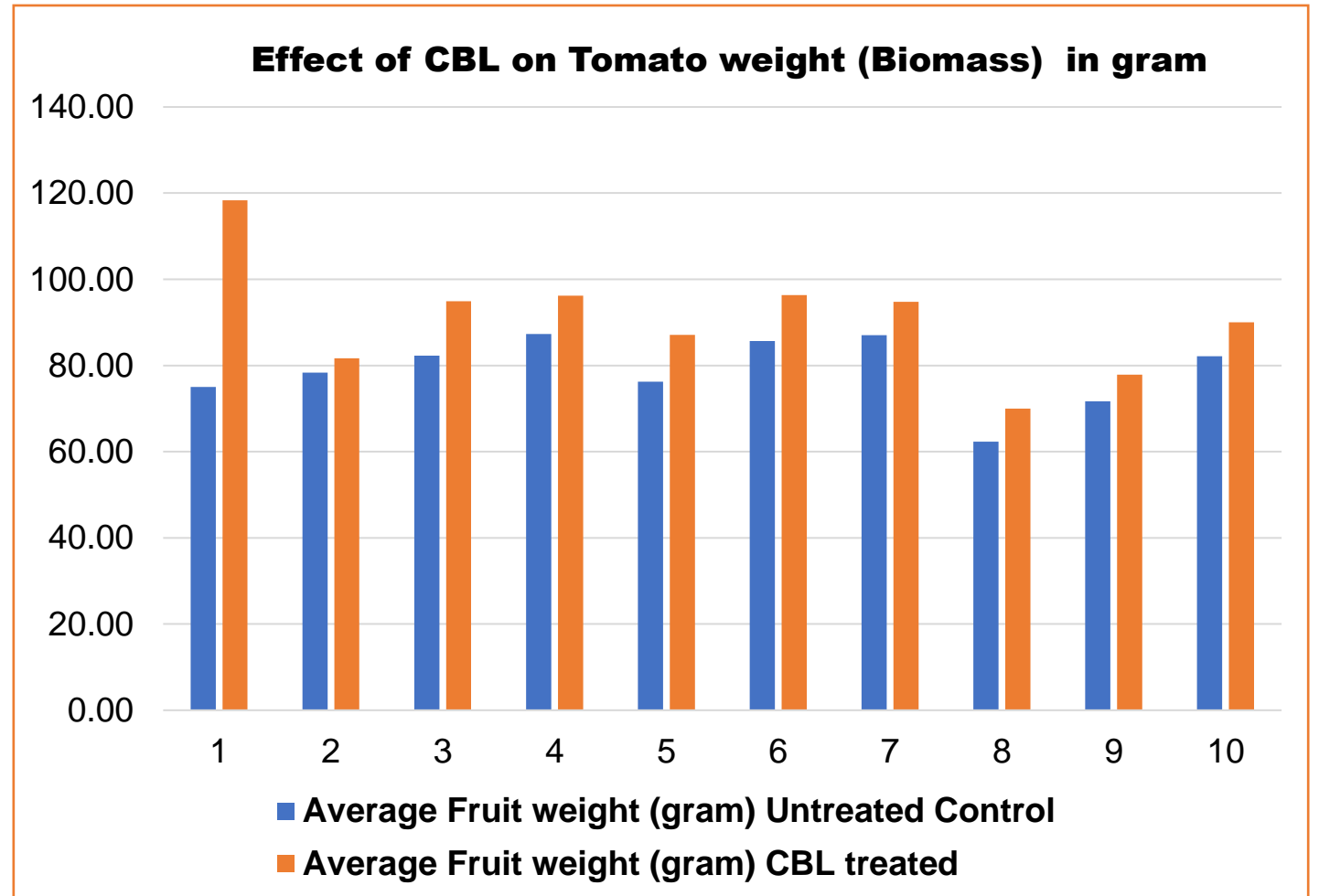
Effect of Foliar application of CBL on tomato BRIX

Plot Number	Tomato BRIX %	
	Untreated Control	CBL treated
1	4.11	5.27
2	5.03	5.17
3	5.42	5.26
4	4.34	4.60
5	4.27	4.60
6	5.00	5.31
7	4.57	5.03
8	4.65	5.45
9	4.68	4.97
10	4.99	5.11



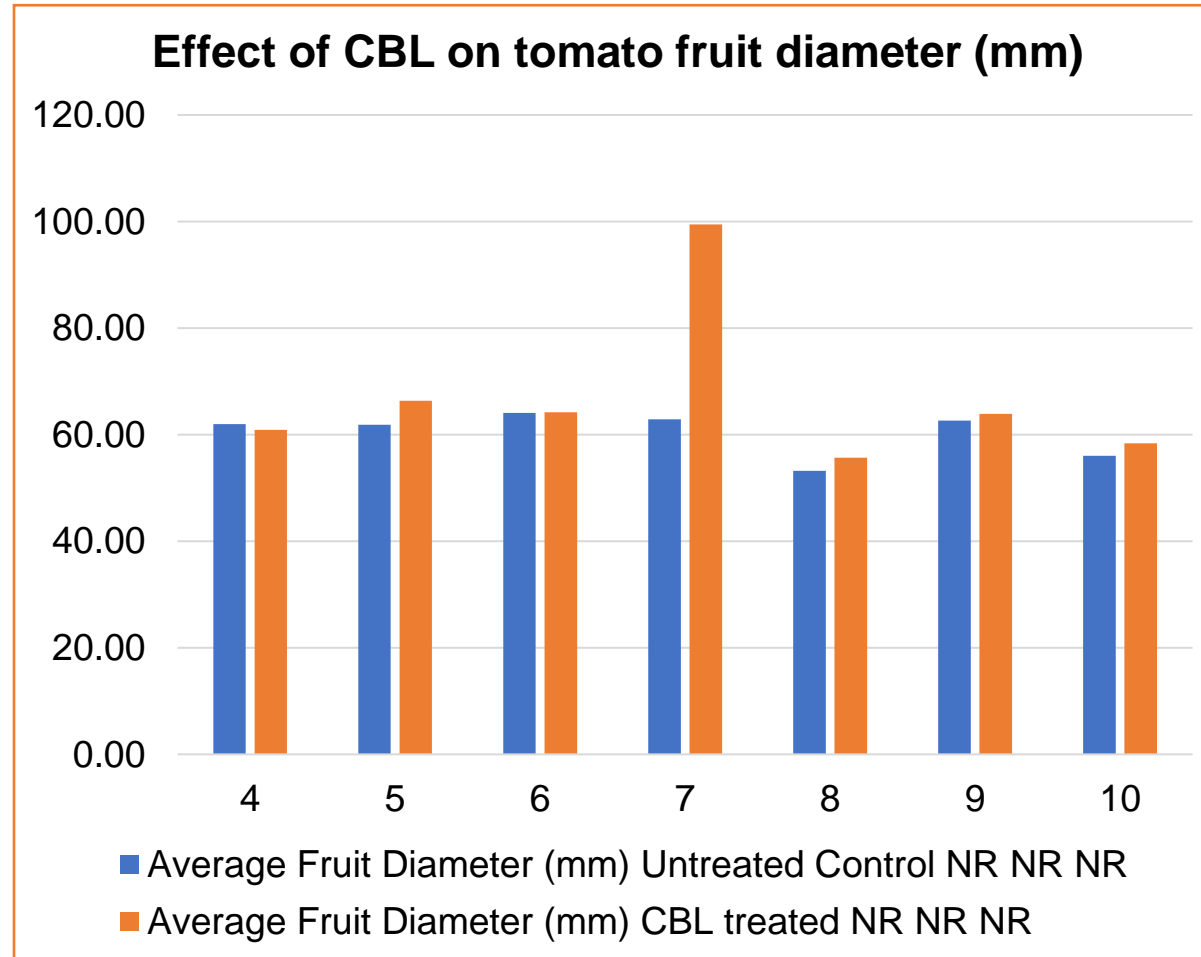
Effect of Foliar application of CBL on fruit weight biomass

Plot Number	Average Fruit weight (gram)	
	Untreated Control	CBL treated
1	75.00	118.30
2	78.33	81.67
3	82.27	94.90
4	87.33	96.17
5	76.22	87.11
6	85.67	96.33
7	87.00	94.78
8	62.33	70.00
9	71.67	77.89
10	82.11	90.00



Effect of foliar application of CBL on tomato fruit diameter

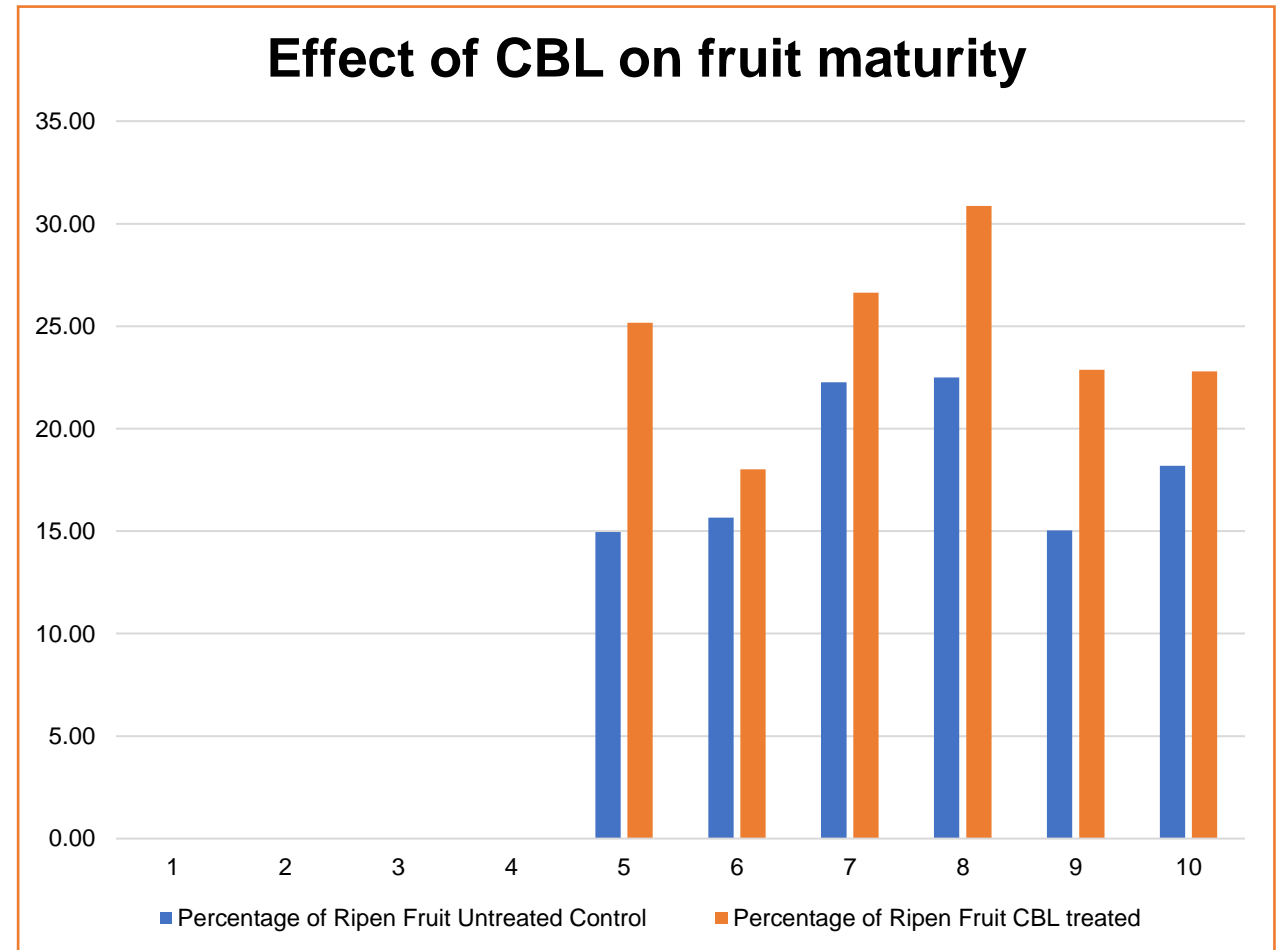
Plot Number	Fruit diameter (mm) n=100	
	Untreated Control	CBL treated
1	NR	NR
2	NR	NR
3	NR	NR
4	62.00	60.90
5	61.83	66.33
6	64.10	64.20
7	62.87	99.45
8	53.23	55.67
9	62.67	63.90
10	56.03	58.37



Effect of Foliar application of CBL on fruit maturity

Plot Number	Percent ripen Fruit at time of Harvesting	
	Untreated Control	CBL treated
1	NR	NR
2	NR	NR
3	NR	NR
4	NR	NR
5	14.96	25.17
6	15.66	18.01
7	22.27	26.63
8	22.50	30.86
9	15.04	22.88
10	18.19	22.79

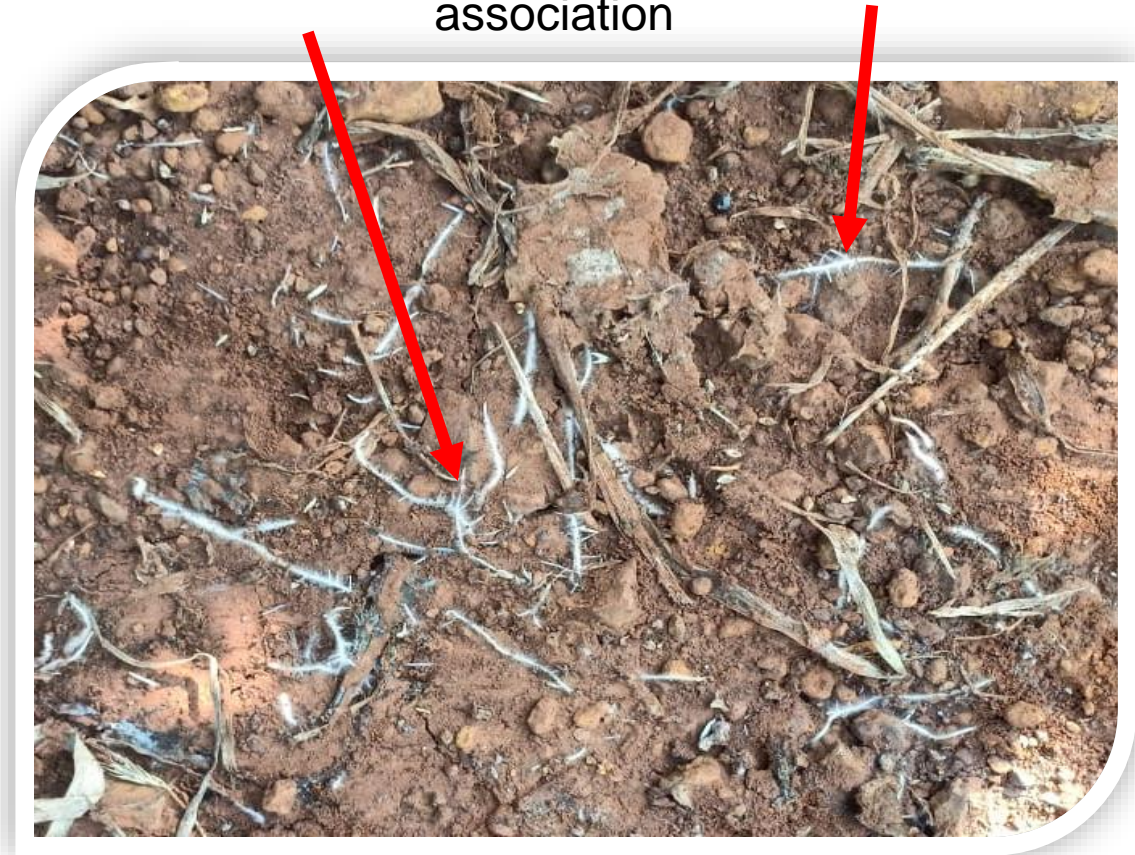
NR=Observation not recorded



White root in Untreated tomato rhizosphere soil



White root development in CBL treated tomato crop rhizosphere soil and mycorrhiza association



Untreated Control Plot

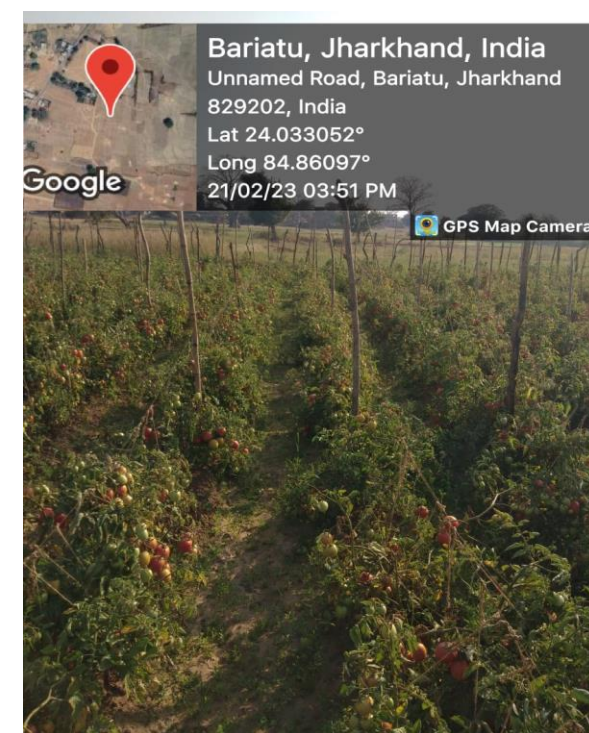
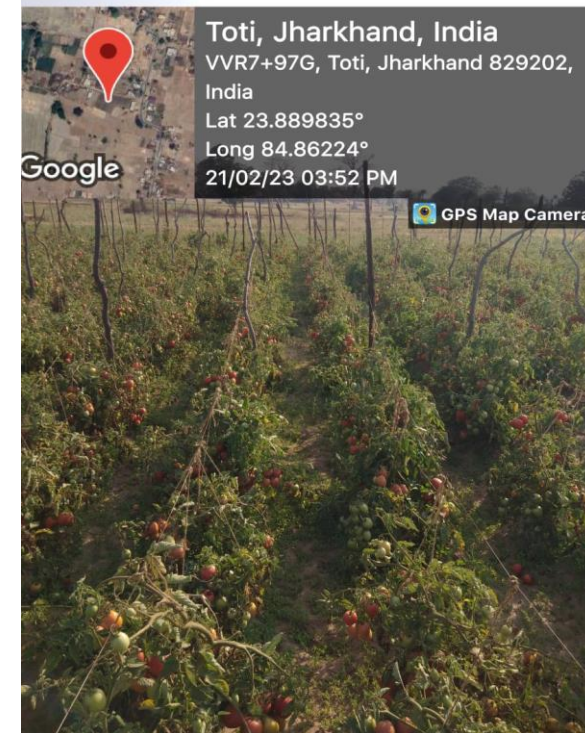
CBL treated Plot



38 days after transplanting

Untreated Control Plot

CBL treated Plot



147 days after transplanting

Shelf life of tomato

Untreated control tomato



1st day

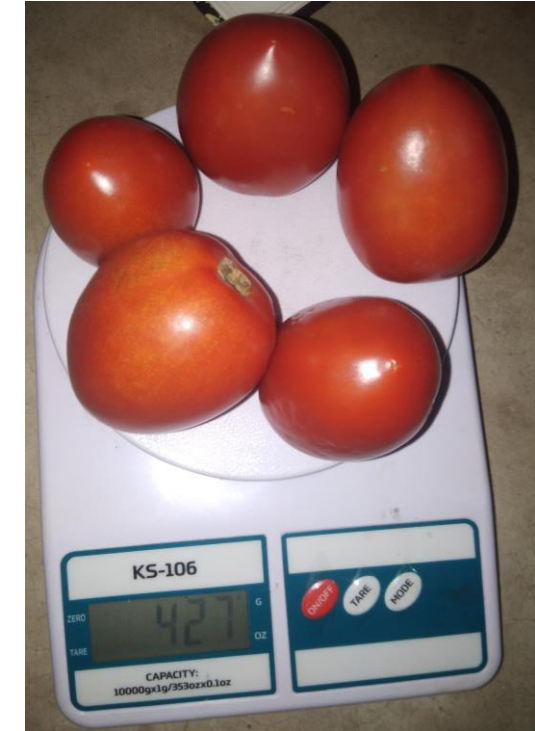


7th day

CBL treated plant tomato



1st day



7th day

Foliar application Crop Bio Life @ 1-2ml/L days 28 Days interval



- **Prevents premature flower and dropping fruit dropping**
- **Maximum and uniform fruit setting**

Untreated Control



Susceptible to disease and Pest attack

CBL treated



Resistance to disease and Pest attack, Healthy, green and large leaf surface area



Control untreated tomato plant showing
Tomato yellow leaf curl virus



CBL treated tomato plant showing
Resistant to disease

Effect of Crop BioLife on tomato quality and Yield



