



# Blessings of the sea for agriculture

Marine humic substances <MR-X> for Agriculture

# Soil improvement inspection by MR-X in Nepal

## Inspection methods

One week after giving MR-X 50 times liquid to the soil, inspected again

पान: ६०६८६२७५०  
दर्ता नं.: २१२५८६/०७५/०७६

PAN: 606862750  
Regd. No: 212586/075/076



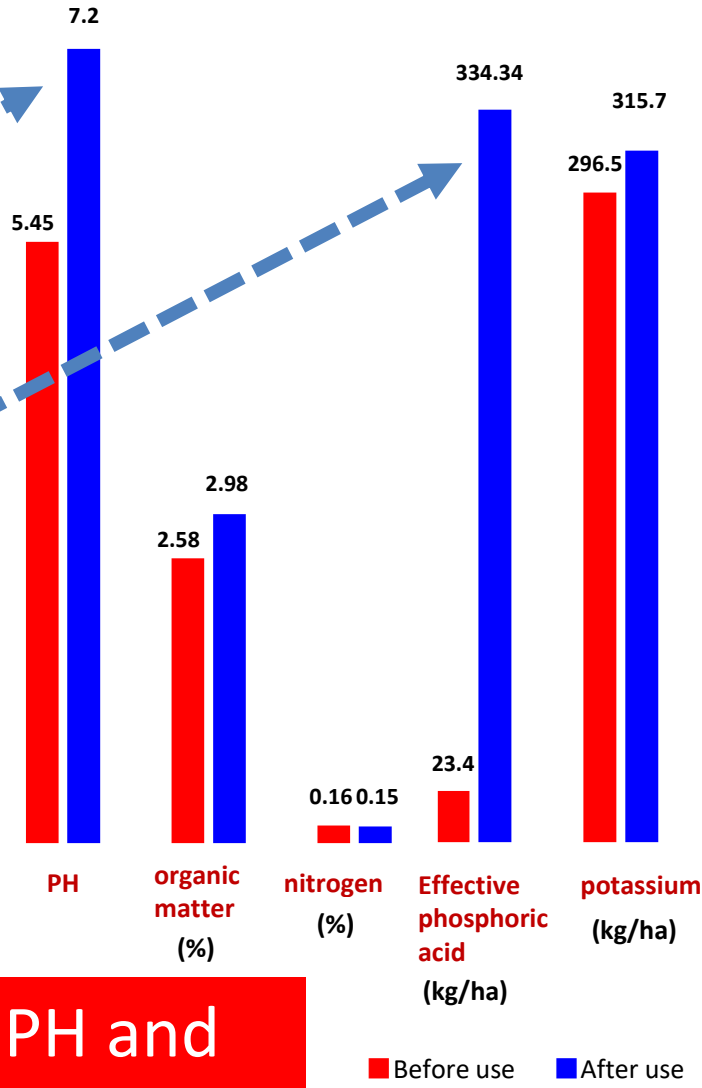
**नेशनल एग्रीकल्चर हस्पिटल एण्ड रिसर्च सेन्टर प्रा. लि.**  
**National Agriculture Hospital & Research Center (P.) Ltd.**

प.सं. (Reference No.):  
च.नं. (Dispatch No.):

स्था.: वि.सं. २०१९/१९६  
मिति (Date): २०६६/०९/१६

		PH		organic matter		nitrogen		Effective phosphoric acid		potassium	
Name	Address	PH	rating	OM	rating	N %	rating	P2 O5	rating	K2 O	rating
Shuk B. lama	Chitwan <b>Before use</b>	5.45	SA	2.58	M	0.16	M	23.4	L	296.5	H
Shuk B. lama	Chitwan <b>After use</b>	7.2	NN	2.98	M	0.15	M	334.34	VH	315.7	H

L.T. *[Signature]*



Especially there was a big difference in PH and Effective phosphoric acid.

प्रमाणित मने

**Paddy Rice**



(unused)

Root after rice harvest

(used MR-X)

Root after rice harvest

**The roots work  
very well !**



**It is important to improve root function in early growth !**



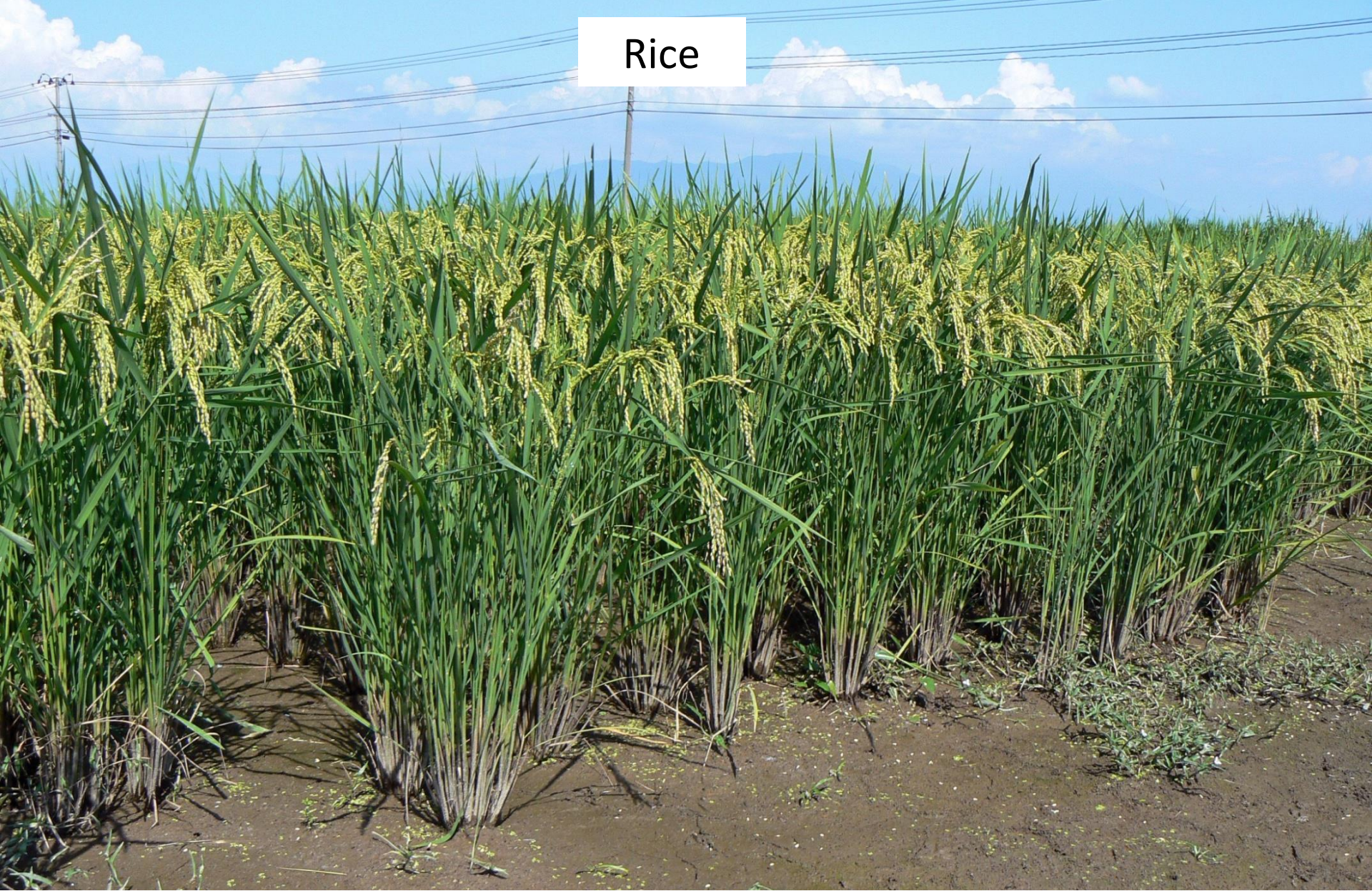
## Rice roots



The germination and rooting are very good and didn't stretched out in the MR-X area.



# Rice



The green color becomes darker, very good growth and resistant to disease.



# Rice



(unused)      MR-X used area has much higher yield      (used MR-X)



**Unused area is 8% scrap rice. MR-X used area is 2%.**



# **Vegetables and Fruits**



## Eggplant



Rooting are very good



Seeding didn't stretched out and side buds have momentum



Tomato



unused



Used MR-X

rooting are very good in the MR-X area.



A photograph of tomato plants in a greenhouse. The plants are growing in rows, with their stems supported by white plastic mulch. The mulch is laid out in a way that creates a grid-like pattern, with the plants growing through the intersections. The plants are green and have some small, round fruits visible. The background shows the structure of the greenhouse and other plants.

## Tomato

Seeding didn't stretched out in early growth and leads higher yield.

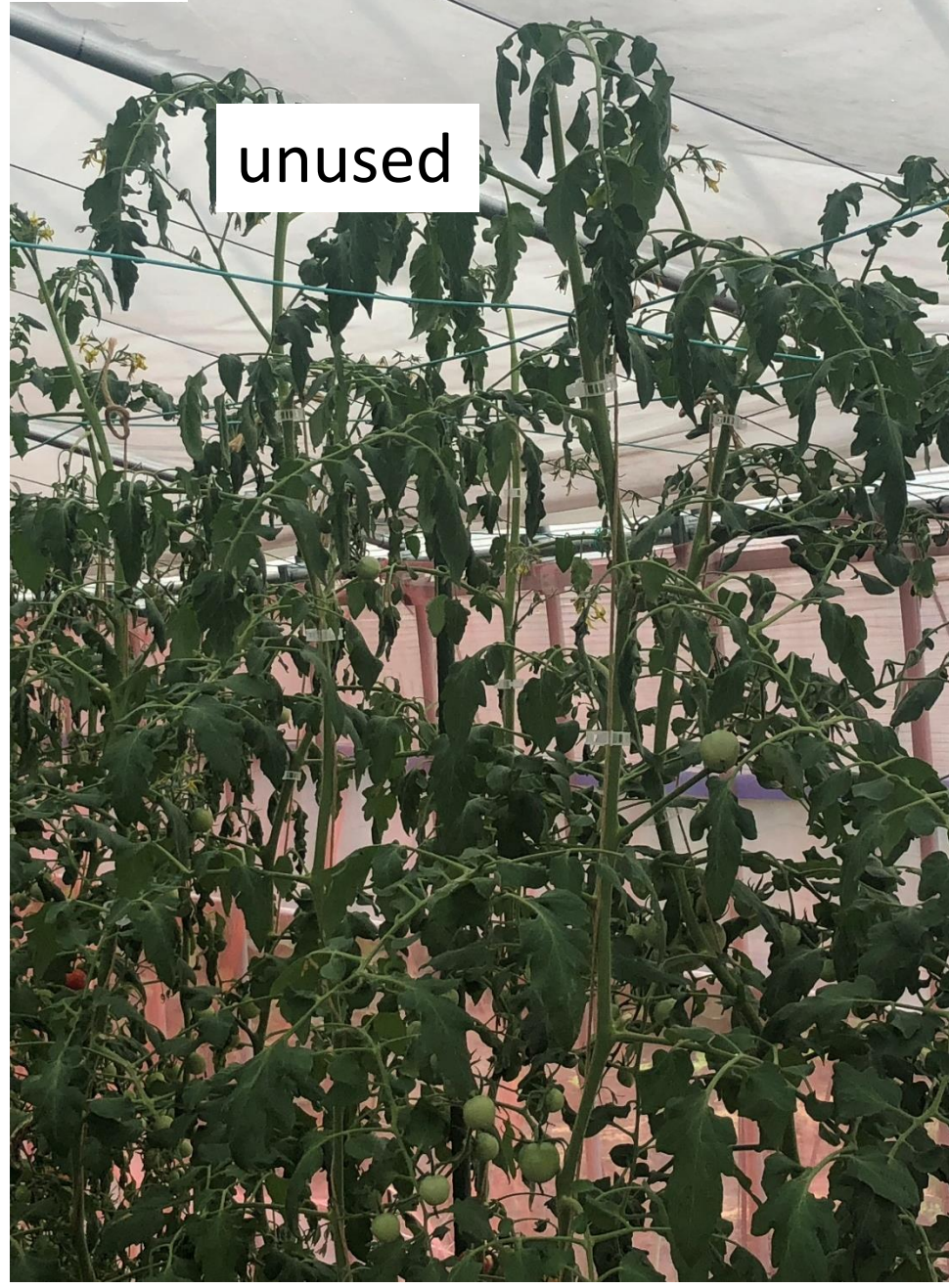


# Mini Tomato

**Used MR-X**



**unused**





A photograph of a cucumber greenhouse. The image shows rows of cucumber plants trained on a trellis system. Numerous green cucumbers are visible hanging from the vines. The leaves are large and green, and the overall environment is lush and productive. A central path leads through the rows of plants.

## Cucumbers

Increases yield. The harvest period becomes longer.  
Sugar content rises.



A photograph showing a long, straight row of lettuce plants in a field. The lettuce leaves are large, green, and have a ruffled, curly texture. They are growing in dark brown soil. To the right of the lettuce row, there are some smaller, green weeds. In the background, a white plastic covering is visible, likely part of a greenhouse or tunnel system. A white rectangular label with the word 'Lettuce' in black text is positioned at the top center of the image.

Lettuce

Leaves are thick and have no bitterness.  
Nitrate nitrogen decreases.



Lettuce

MR-X 300  
times liquid

MR-X 500  
times liquid

unused



When dipped in a cut, the freshness lasts longer



The cut does not rot

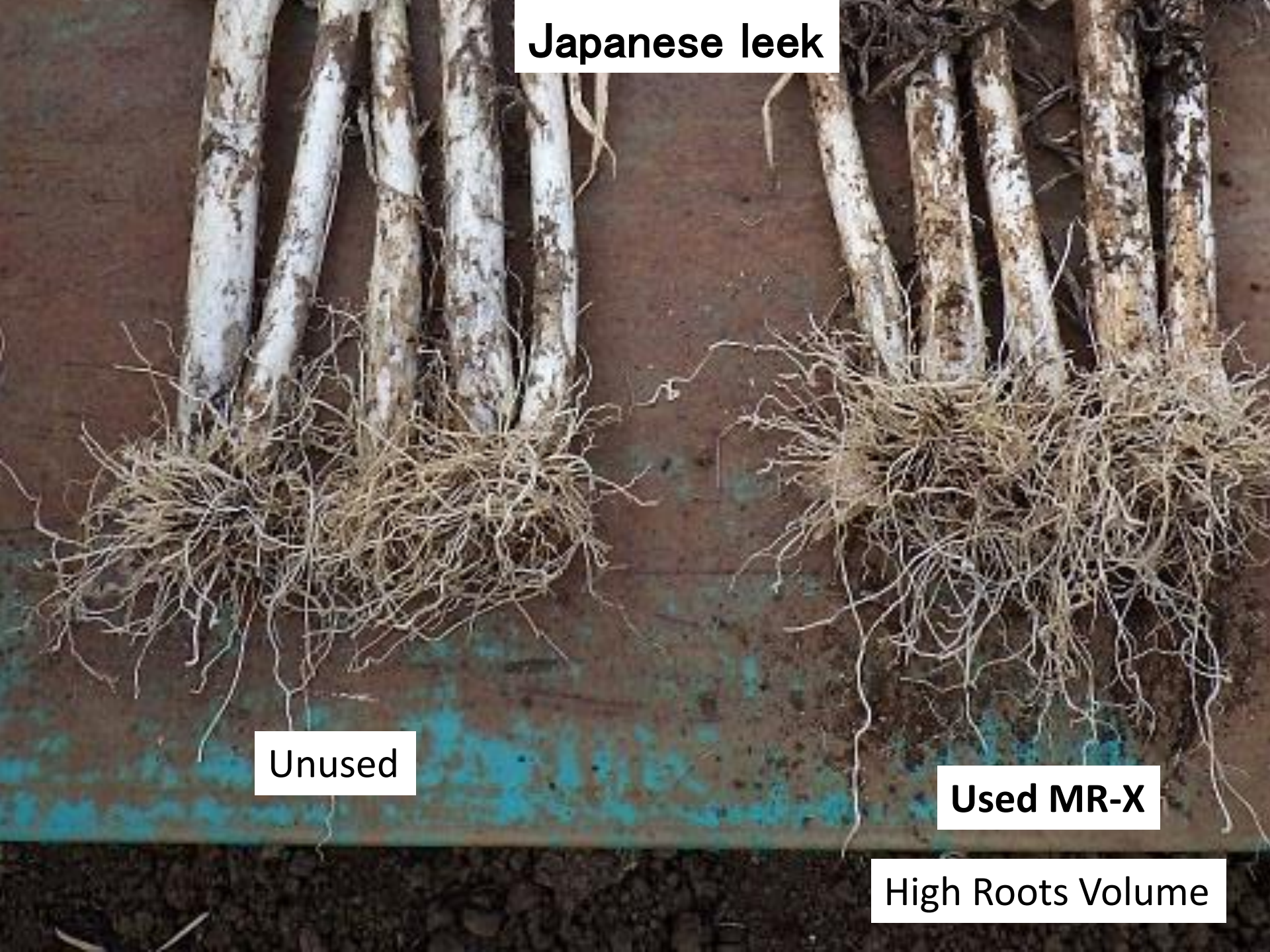


# Japanese leek

Unused

Used MR-X

High Roots Volume





# Japanese leek



The tip does not wither and resistant to disease.





green pepper

Seeding didn't stretched out and increases yield.





green pepper

Thick stem



# Japanese parsley

Rooting is good in the used MR-X



unused



Used MR-X

# Testing of Chinese cabbage and cabbage by Japan Agricultural Cooperatives, Agricultural extension center, and Ministry of Agriculture in Yokohama city.

## cabbage

調査日 区名	項目	1997.12.22		調査株数	Disease outbreaks	Disease probability
		未収	記事			
	MR-X	4/60株	球大きく悪い アントシアン少	53株	6株	11.0°
	Another Material	11/60	球や太、揃い良 アントシアン中	48	33	69.0°
	Another Material	13/60	球横に並み アントシアン中	50	37	74.0°
	Conventional cultivation	8/60	球不揃い アントシアン多	33	21	64.0°

## Chinese cabbage

1998.2.2. 10株平均球重		
区名	育苗期+本圃処理	本圃のみ処理
MR-X	3.1 kg	2.72 kg
Another Material	3.22	2.92
Another Material	3.27	2.78
Conventional cultivation	3.12	2.85

1998. 1月8日 } 2回の降雪被害により  
1月15日 } 外葉重調査不能  
(積雪16cm)

## Chinese cabbage Taste survey

調査日 区名	1998.2.8 一般パネラー (7名)	1998.2.9 農協職員パネラー (13名)
MR-X	6	11
Another Material	1	1
Another Material	0	1
Conventional cultivation	0	0

(1998.2.2 収穫  
" 2.3 漬け込み(1株6割、節削込み)  
" 2.6 上下、反転漬けかえ  
" 2.9 食味調査)

- Disease probability is very low.
- In taste surveys, 17 out of 20 supported MR-X.



Peach

25  
20  
15

Sugar content 19 °C

ATAGO ATC-1E Measurement



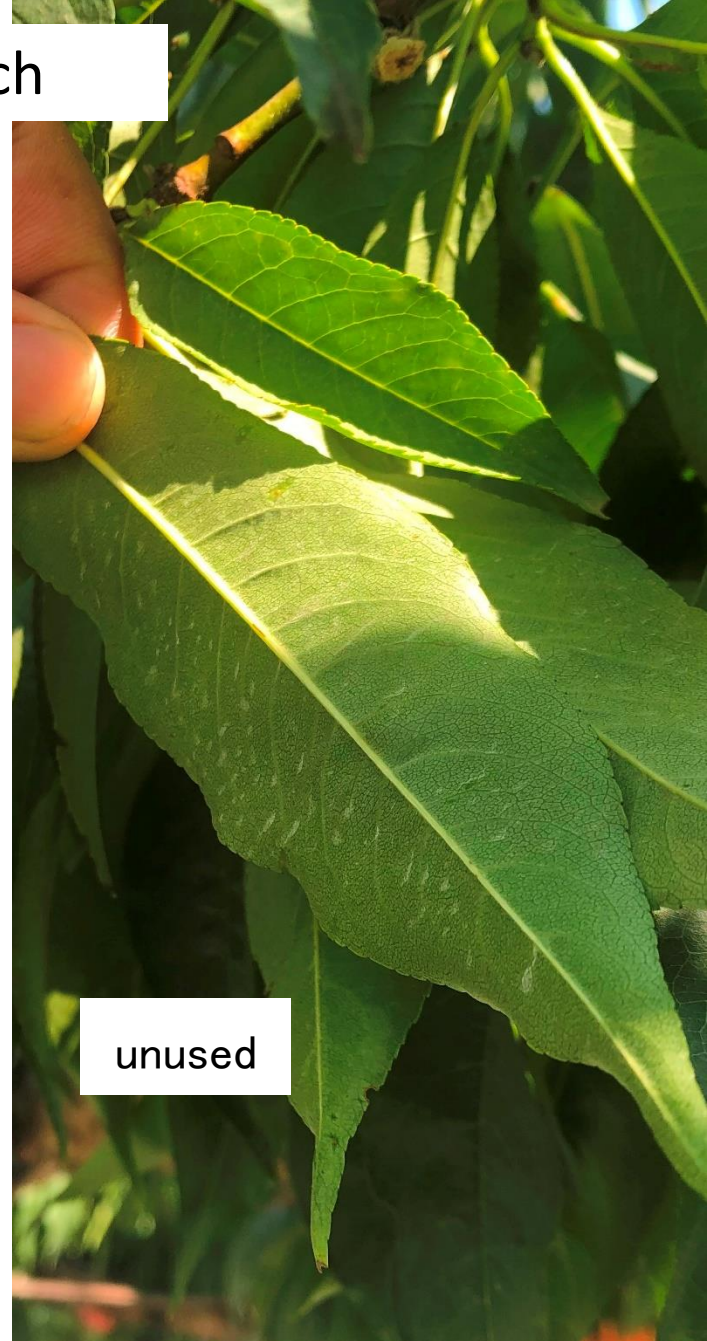
Sugar content 19 °C. High sugar content, sinks by weight.



Peach



Used MR-X



unused

Leaves are thick and hard. Leaf veins are clear.





Cherry

Good coloring.

# Flowers





Capillary roots are high volume in the MR-X area.