

## Farm Report

7-Jul

### 1) Growth history ①

kind	Sowing	Germination	harvest	Growing period	Remarks
<b>Carrot</b>	7-Apr	25-Apr	6-Jul	90 days	① Tap Water has 80% poor growth and no harvest ② HHO is commercially available for 50% of harvest

<b>Green soybeans</b>	7-Apr	16-Apr	3-Jul	87 days	① There was a difference in the growth potential of both tap water and HHO, but it was generally smooth
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<b>Potato</b>	30-Mar	18-Apr	3-Jul	95 days	① Reflecting the HHO effect of EA
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In addition to the above varieties, Komatsuna, red turnip, and spinach were also sown at the same time, but gave up due to poor growth of germination ~ cotyledons

Countermeas ◎ Komatsuna, Akakabu is a nursery and try again

◎ Komatsuna, red turnip re-examined as a nursery and re-challenge spinach to avoid the summer

### 2) Harvest Standards and Harvesting

JA Standards

Japan based on the Agricultural Cooperative Shipment Inspection Standards Table

Harvest Date

3-Jul

(1) Potatoes		Kind	Mae Queen	water quality	Tap		
Grade							
	Share	①	②	③	④		Ratio
3 L		1		1		2	7%
2 L			1	1		2	7%
L		1	1	2	1	5	18%
M			1	1	1	3	11%
							43%
						Quantity	12

S	5	1	1	4	11	39%
2 S	3	2			5	18%
					28	100%

water quality		HHO						
Grade								
		Share	①	②	③	④		Ratio
市販可	3 L				1		1	2%
	2 L			3	1	2	6	11%
	L			5	4		9	17%
	M		5	5	5	1	16	30%
								60%
							Quantity	32

S	4	1	5	3	13	25%
2 S		2	5	1	8	15%
					53	100%

- Harvest Assessment
1 )
3L, 2L, L,M are available in the general market, so they are priced well and have a 17% increase over TapWater.  
Since the sales value is based on volume, HHO will increase sales by 2.6 times
2 )
S, 2S are for processing, and do not contribute to profit because they are sold at 30 ~ 40% of the market price.

- About growth
1 )
Since the planting interval is narrow at 20 cm and it grows densely, it will be planted at the next 30 cm
2 )
Furrow ≡ 100 cm, grow easily with soil and fertilization
3 )
Pest control = Netting was effective at an early speed. It was effective in the mixed disinfectant solution of bamboo vinegar, garlic and togarashi after net removal  
Pest nets should be 200 cm wide and used until a certain growth

Harvested potatoes (partial)



Harvest Standards
JA Standards
Japan based on the Agricultural Cooperative Shipment Inspection Standards Table

Harvest Date
3-Jul

(2) Edamame			quality	Tap
Grade	A B			
	Share	Number of pods	g	
A	①	12	40.2	
	②	6	17.3	
	③	5	12.6	
	④	2	4.3	
	⑤	12	27.8	
	⑥	11	31.8	
	⑦	48	134.0	Commercially available
	⑧			

quality	HHO		
Grade			
	Share	Number of pods	g
A	①	8	22.8
	②	17	47.2
	③	15	5.2
	④	14	3.8
	⑤	18	55.7
	⑥	10	28.4
	⑦	14	37.8
	⑧	12	38.4
		108	239.3
			Commercially available

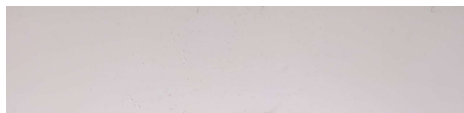
B	①	7	12.4
	②	2	4.4
	③	4	7.2
	④	10	16.3
	⑤	10	12.8
	⑥	7	11
		40	64.1
Commercially available, but extremely low in reputation			

B	①	8	13.6
	②	10	12.9
	③	6	8.8
	④	16	25.3
	⑤	17	3
	⑥	1	4
	⑦	13	20
	⑧	15	25.8
		86	113.4
Commercially available, but extremely low in reputation			

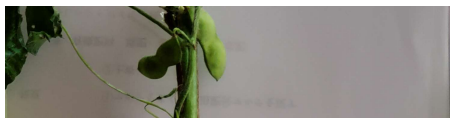
Harvest Assessment	1)	Tap Water fell from 8 shares ((7) (8)) to 6 shares due to poor growth from the middle, and HHO grew as it was 8 shares and increased revenue.	
	2)	TapWaterの収穫量134g 、HHOの収穫量239gと≒1.8倍の違いになった	
	3)	Tap water yield 134g	HHO yield 239g Increase in yield by 1.8 times
	4)	HHO has grown to good quality as shown in the image.	
	5)	Pest nets are used with a width of 200 cm 20 and grow with a net up to a plant height of about 50 cm. (Extending the net period and taking measures against pest damage)	
	6)	Plucked with 5 main leaves	
	7)	Ladybirds, stink bugs were seen and killed in large numbers	

About growth	1)	Taking advantage of the soil permeability of EA to build soil and lay the foundation for growth	
	2)	I planted the first seed, but next time I want to grow it at a certain level in the nursery and expand the growth potential and harvest rate.	
	3)	Plant at intervals of 30 cm to make furrows easier	
	4)	I ate it that day and it was very delicious.	

Harvest Part of the harvest

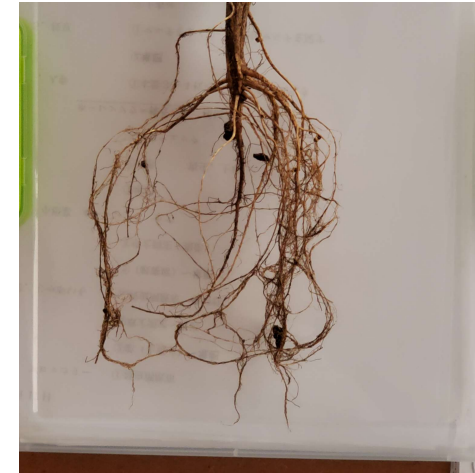


Rhizomycetes of the increased stem



Rhizomycetes with undergrowth





Harvest Standards      JA Standards      Japan based on the Agricultural Cooperative Shipment Inspection Standards Table  
 Harvest Date                      6-Jul

③Carrot			quality	Tap		
grade		Large and small criteria			Harvest Results	
	share	class	1 pcs weight		quantity	
A		3 L	300g~400g		0	
		2 L	230g~300g		1	
		L	170g~230g		1	

B		M	120g~170g		2	
		S	80g~120g		1	

Harvest Assessment	1)	Poor growth from germination, and Tap Watet mostly did not germinate.
	2)	HHO germinated 100%, but commercially available products accounted for 40% and processed 60%, and the EA effect was not exerted, and the growth method will be examined

- Overall Rating
- 1) Although it was not possible to measure the growth speed of open-field cultivation by HHO, it was found that the effect of increasing sales was 1.8 times ~ 2.6 times.
  - 2) Leaf surface spraying is not possible and will be considered in the future
  - 3) Further increase in revenue is expected by enhancing growth that matches the variety (soil preparation, nursery bed, interplant spacing, thinning, follow-up after germination, and other necessary growth measures).

Next? We will start soil construction from this month.

- 1) **root crops** carrot turnip
- 2) **Soft Animals** Komatsuna bok choy
- 3) **Legumes** green soybeans Soramame
- 4) The above is sown in a nursery and transplanted into open-field cultivation at a certain size.
- 5) We want to build soil that meets the above and link it to growth potential and increased production from the first time.