

# Organic seed for organic carrots

Location: GPS: 56.372797, 9.367948 (Nearby address: Gammel Almindvej 19, 8800 Viborg)

Organic field

Seeding day: 15.05.2023

Two rows of each variety on beds of four rows, seeded with Monosem precision sowing machine.

Seeding rate (134 seed/m row) was about 10 % higher than the rest of the field.

The rest of the field was sown one week earlier.

The soil type is JB 3 (loamy sand)

Laguna in same field was seeded 27<sup>th</sup> of April.

Norwich and Alliance in same field were seeded 4<sup>th</sup> of May.



## Germination test by HortiAdvice, March 2023

Variety	Lot no.	Germination energy	Germination		Remarks
		7 days	14 days	21	
Bollin	19729 L	65	75	79	
Brilliance		55	70	85	Alternaria
Dolciva	20237M	75	75	78	
Maistro		55	70	70	Alternaria
Napoli	1653933	55	75	75	Alternaria
Natuna		55	70	75	
Naval	1710301	50	65	75	
Negovia	1743530	65	75	80	Alternaria
Milan	19516 L	70	70	75	
Nipomo	1744059	65	75	75	
Octavo		45	65	70	Even more Alternaria



Romance		30	60	75	
Speedo		25	50	60	Alternaria
Vitella	17384 S	50	75	75	



28. Sep. 2023



Natuna



Speedo



Brillyance

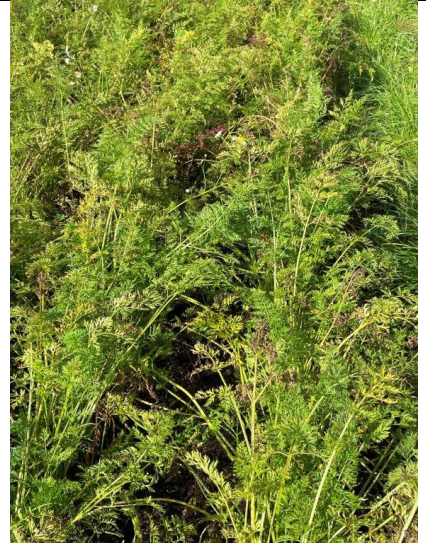




Negovia



Bollin



Dolciva



Maestro



Romance



Nipomo



Naval

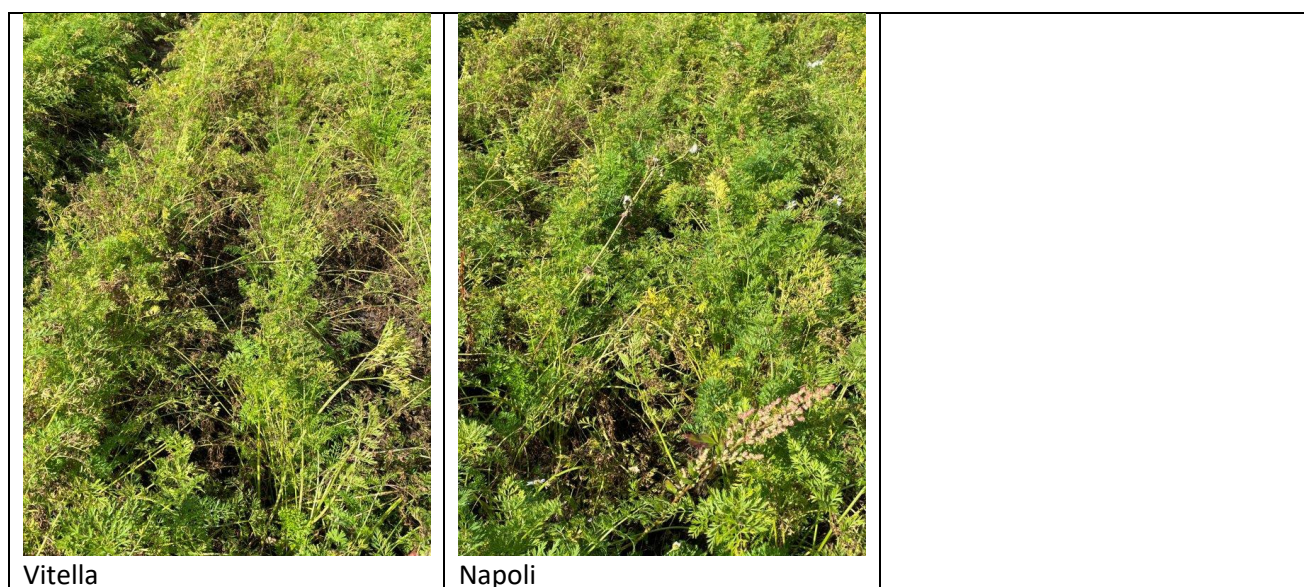


Milan



Octavo





**Demonstration of organic seed of different varieties of carrots. Field assessment 27. September 2023**

Variety	Yeld estimated in the field, ton/ha	Leaf spot, points 0-9, 0=non	Crop stand, point 1-9, 9=dense canopy	Bulbing, no. per 100 m bed	Phyto- plasma, pl/m row	Taste, point 1-9, 9=best
Romance	97	6	6	0	0-1	6
Naval	96	6	6	4	1-2	6
Brillyance	93	4	8	0	1	5
Napoli	93	6	5	0	3	5
Vitella	89	7	5	0	3	5
Nipomo	88	6	6	0	4	5
Maestro	85	7	6	80	5	6
Natuna	81	8	5	4	8	4
Milan	78	8	4	4	4	6
Speedo	76	9	2	0	0-1	6
Negovia	75	7	4	0	5	5
Octavo	72	6	7	0	2	4
Bollin	62	6	6	0	6	3
Dolciva	57	6	6	0	4	5

<sup>1)</sup>: Rough estimate in the field based on 2 m row. Yeld is very much influenced by germination and weed in organic production.

<sup>2)</sup>: Taste of quartered carrot pieces with skin. Four persons.





Vitella



Naval



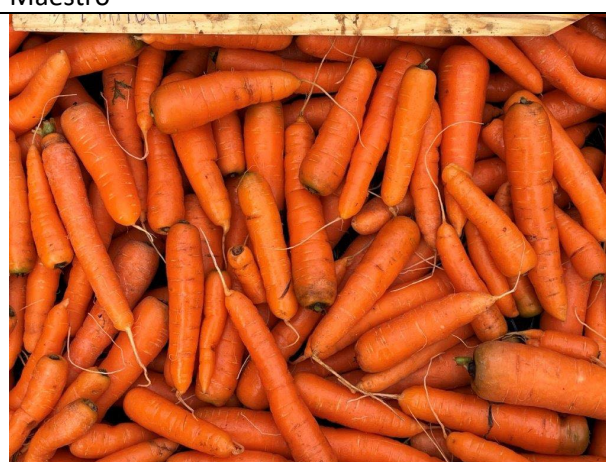
Natuna



Maestro



Nipomo



Milan





Bollin



Romance



Negovia



Speedo



Brilliance



Dolciva





Napoli



Octavo

## Quality issues

### Demonstration of organic seed of different varieties of carrots. Field assessment 27. September 2023

Variety	Remarks
Romance	Even size and shape, smooth skin, cylindrical, few with grooved skin difficult to wash. Long roots.
Naval	Even size and shape, dark orange color, few with Cavity Spot, few very large over mature.
Brillyance	Long roots, smooth and even shape. Easy to wash.
Napoli	Over mature and very large roots, a lot of Cavity Spot, some rhizoctonia, few cylindrocarpon.
Vitella	Few rhizoctonia rot, some Cavity Spot, few green shoulders, pointed uneven, grooved skin, white tips.
Nipomo	Long, cylindrical, a bit uneven length, few with Cavity Spot.
Maestro	Few with Cavity Spot, some with rhizoctonia, some grooved skin difficult to wash, a bit conical. Short roots.
Natuna	Uneven size, pointed conical and a bit short.
Milan	Some with Cavity Spot and rhizoctonia, uneven length, shape, pointed/rounded, smooth/grooved. A bit short.
Speedo	Even size, smooth skin and a bit short.
Negovia	Short and small roots, uneven with rounded/pointed tip, grooved/smooth skin,
Octavo	Short roots, rounded tips, some grooved, few Cavity Spot
Bollin	Green and red shoulders, uneven in length and shape, some very large roots due to low plant density,
Dolciva	Uneven size, grooved/smooth, pointed/rounded, few with dry rot,





Maestro with dry rot caused by scratches and rhizoctonia. Also an issue in Vitella, Naval, Napoli and Milan.



Maestro with Cavity Spot. Also some Cavity spot in Naval, Napoli, Vitella, Nipomo, Milan and Octavo.



Napoli with Cavity Spot.



Vitella with green shoulders. Also seen in Bollin.



Dolciva with splits. Also, very few in Octavo.



Napoli with cylindrocarpon dry rot. Also in Dolciva, Vitella, Naval and Maestro.





Vitella with white tips.



Vitella with grooved skin. Some also in Maestro, Milan, Romance, Negovia and Octavo.



Negovia with lots of phytoplasma (Aster Yellow). Seen in most varieties but also with a lot in Vitella, Naval, Maestro, Natuna, Nipomo, Milan, Bollin, Dolciva and Napoli.



Crown rot in Nipomo.

**Demonstration day 28. Sep. 2023**





### Taste and color



The varieties Naval and Natuna have a dark orange color - both external and internal color. Whereas Maestro, Milan and Dolciva in the other end have a yellow-orange internal color and more light orange external color.

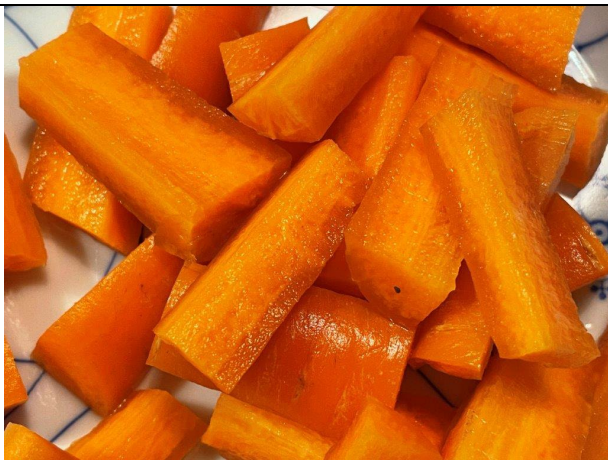




Milan



Dolciva



Maestro



Speedo



Nipomo



Octavo

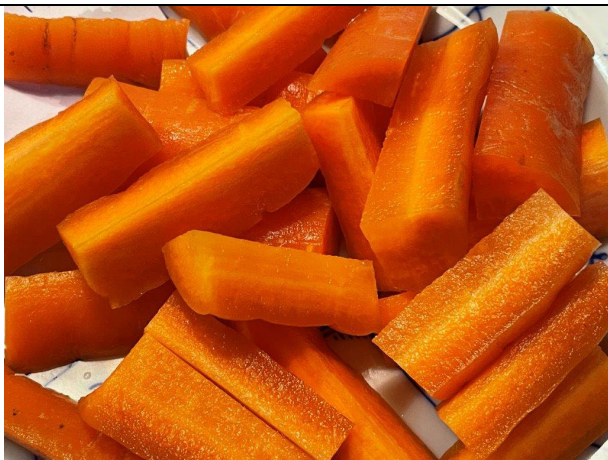




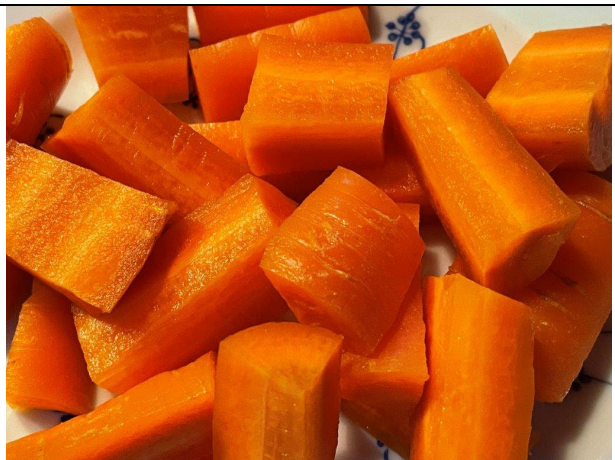
Bollin



Romance



Vitella



Napoli



Brilliance



Negovia





Natuna



Naval

Irm, 20.10.2023

### **Demo i gulerødder**

HortiAdvice gennemføre i 2023 på en række gartnerier med produktion af økologiske gulerødder en demonstration af økologiske frø af gulerodssorter fra OXS.

**Promille**afgiftsfonden  
for frugtavl og gartneribruget