

Demonstration of carrot varieties based on organic seeds

Location: Faarevejle Kanalvej 47, 4540 Faarevejle

Organic field

Gps: 55.796729,11.444799

Seeding day: 24.05.2023

Two rows of each variety.

40 m plots, 14 different varieties, all with organic seed.

The variety Florence was seeded in the rows around the demonstration plot and with untreated conventional seeds.





Germination test by HortiAdvice, March 2023

Variety	Lot no.	Germination energy	Germination		Remarks
		7 days	14 days	21	
Bollin	19729 L	65	75	79	
Brillinace		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	



Bollin



Brillyance F1



Dolciva



Maestro F1



Milan



Napoli F1



Natuna F1



Naval F1



Negovia F1



Nipomo F1



Octavo F1



Romance F1



Speedo F1



Vitella

It was dry several weeks before seeding and, in the weeks, after seeding. After seeding the field was irrigated to make carrots germinate. Germination problems because of dry soil, seeds with low germination energy and weed challenges did affect yield, size and quality of carrots in the organic production. *Sonchus oleraceus* (Common Sowthistle or svinemælk) was a major problem in the field affecting both yield and quality.



Sonchus oleraceus, 12.09.2023







In general, the percentage of waste is very low at this time of year. Quality issues is very low. Leaf spot in the organic production is a major challenge at this time of the season in the organic production.

Demonstration of organic seed of different varieties of carrots. Field assessment 12. september 2023

Variety	Meldew, point 0-9 0 = non	Leaf spot, point 0-9 0 = non	Sclerotinia, point 0-9 0 = non	Taste, point 1-9, 9=best	Yield estimated in field, ton/ha	Comments
Brilliance	1	0	4	5	76	Mixed size with pointed and rounded roots. Some with laced crown. Orange-yellow skin.
Bollin	2	1	1	5	74	Some split due to low plant density. Few with Cavity Spot. Mixed size with pointed and rounded.
Maestro	1	1	1	5	81	Quite a few flowers. Some splits. Green shoulders. A few with Cavity Spot.
Dolciva	1	2	1	4	86	Uniform size. Few with Cavity Spot and rhizoctonia.
Florance	2	2	2	5	69	Pointed roots of slightly varying size.
Natuna	1	2	1	5	85	Nice smooth roots.
Negovia	3	2	3	7	84	Uneven size. Nicely rounded tips. Very few cavity spot.
Nipomo	2-3	2	2	4	80	Short roots. A few with rhizoctonia.
Octavo	2	3	1	4	59	Short roots. Nice, smooth and rounded.
Romance	0	3	3	5	83	Smooth uniform roots. A few with green sholders.
Naval	1	2-3	1	5	74	Large long roots and a few splits.
Napoli	2	3-4	1	4	84	Overripe large carrots. Some with Cavity Spot. Orange-yellow skin. Green sholders.
Vitella	1	4	4	5	83	Mixed size with pointed and rounded root tips.
Milan	3	6	1	5	68	Green shoulders, varying length and few with crown rot.
Speedo	1	6	4	5	74	Nice uniform smooth roots.

Florance is the main variety in the field seeded with conventional untreated seed and not organic seed.

1): Rough estimate in the field based on 1 m row and no replications. The yield is mere much affected by germination and weed problems in organic.

2): Taste of quartered carrot pieces with skin.

Quality issues


Aster Yellow and spits in Bollin. We also find splits in Dolciva, Maestro and Naval.



Maestro with splits.



Brilliance with constricted crown. Could be mechanical damage.



Green shoulders in Milan. It's a special challenge where carrots are grown on hills.



Splits and rhizoctonia in Dolciva.



Few Cavity Spot in Napoli. We also found few roots with Cavity Spot in Bollin, Maestro, Dolciva and Negovia.

On demonstration day the 10th of October



Naval



Speedo



Napoli



Natuna

	
Nipomo	Negovia
	
Romance	Maestro
	
Brillyance	Florance
	
Dolciva	Milan
	
Bollin	

Naval: even size of roots with smooth skin

Napoli: over mature with green shoulders and few with cavity spot.

Natuna: even size, short roots and few with cavity spot.

Nipomo: even size, relative short roots, few with cavity spot.

Negovia: uneven size with grooved skin and few with soft rot.

Maestro: Thick short roots with scratches and dry rot of rhizoctonia.

Romance: long roots with uneven length.

Brillyance: not as long as seen on other locations, uneven length, few with dry rot.

Dolciva: Uneven size and shape, several with soft rot, grooved skin, some with cavity spot

Bollin: splits and uneven size and shape.

Vitella: Uneven shape.

Octavo: Short, a bit grooved skin.

Milan: over mature, lot with soft rot and some with dry rot and rhizoctonia
Speedo: short roots, uneven size, few with cavity spot
Florance: a bit uneven in size, short, smooth skin,



Demonstration day 10th of October.

LRM, last update: 19.10.2023

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.

Promilleafgiftsfonden
for frugtavl og gartneribruget