

Seeding carrots in double rows

Trial plan

May 3, 2020, 14 days after sowing



Broad seeding

Bread seeding with 65 mm wide shoes



Two rows broad seeding

65 mm wide shoes with wings inside to spread the seeds in the sides of the shoes. The middle pressure roller is 65 mm. Plants will be concentrated in the sides of the seeding row.

**Double rows**

Sown in two rows with shoes that place the seeds in two concentrated rows.

Field 454-1, Viborg, Denmark

Seeding day: 20 May 2020

Variety: Nairobi for strawing

Seed: lot 1451759, primed, germination energy og germination performance at 81% og 85% respectively, 1,8-2,0 mm, 1,7505 g/1000 seed, untreated

Trial plan

1. 65 mm shoe broad spread
2. 65 mm wide shoe with wings inside to spread the seeds in the sides of the shoes
3. Double rows of 65 mm distance

There are four rows on a bed. The seeding machine is set to 146 seeds/m rk in the outer rows and 124 seeds/m rk in the inner rows.

Resultater

The quality assessment has only been examined for deformed, branched, sand scrapes and Rhizoctonia. The assessments have been carried out with relatively little tolerance for deformed and sand scrapes. In

practice, a greater proportion of the deformed and roots with sand scrapes will disappear into saleable. Later in the winter, sand scrapes develop so much that the carrots go into waste.



Yield and quality assessment

	Gross yield	Splits	Deformed	Sand scrapes	Small	Market-able
	ton/ha	%, vægtprocent				
Broad seeding	97	1	9	2	2	86
Two row broad seeding	95	1	14	6	1	78
Double rows	90	1	12	5	2	80

Seeding in double rows produces more carrots which are deformed/twisted and with sand scrapes on the sides.

Optical grading

	Waste	+40mm	Trays	Mini	1 kg's	Plant no	Length	Diameter	Weight
	%, vægtprocent					pl/m rk	mm		g
Broad seeding	1	1	41	9	47	116	135	29	65
Two row broad seeding	1	3	44	8	44	113	134	28	62
Double rows	1	1	41	9	49	116	134	28	63

Seeding in double-rows versus wide-seeding does not affect the size of the carrots. Regardless of the seeding technique, the size of the carrots will be the same. It is the plant number that affects the length of the carrots and not the technique.



Broad seeding at 65 mm



Two row broad seeding with 65 mm shoe





Double rows



Row width at harvest

	Row width
	cm
Broad seeding	13
Two row broad seeding	13
Double rows	13



Seeding 20 Maj



13 Juli



6 August 2020

Lars Møller, 23.12.2020

Projektet har fået tilskud fra Promilleafgiftsfonden for frugtavl og gartneribruget