

# GROWER'S NOTES

BY PAPERPOT CO.



## CARROTS

### CROP AND JANG SEEDER DATA:

<b>JANG ROLLER</b>	X24
<b>JANG GEAR RATIO</b>	14 Front - 10 Rear
<b>JANG BRUSH POSITION</b>	Down
<b>IN ROW SPACING</b>	1"
<b>ROWS PER 100' X 30" BED</b>	6
<b>SEED PER 100' X 30' BED</b>	20 g (+/-)
<b>RECOMMENDED CULTIVARS</b>	Adana, Napoli, Rainbow
<b>DAYS TO MATURITY</b>	55-full size/36-baby (+/-) *time from seeding to being ready for harvest
<b>HARVEST WINDOW</b>	20 days (+/-) *time crop is at ideal stage for harvest
<b>TOTAL DAYS IN FIELD</b>	75 full size/56 baby (+/-) *DTM + harvest window
<b>TARGET HARVEST SIZE</b>	5-7"
<b>HARVEST UNIT</b>	Bunch (8-12 per)
<b>TARGET CROP YIELD</b>	180 bunches (+/-)
<b>PRICE PER UNIT</b>	\$3 *depending on local market pricing
<b>REVENUE PER BED</b>	\$540 *depending on local market pricing

### SUGGESTED TOOLS:

<b>SEEDING</b>	Jang JP-1 or Jang JP-5 Seeder
<b>TILTHING</b>	Power Harrow or Precision Depth Roller (With no tractor: Tither)
<b>AERATION</b>	Meadow Creature Broadfork
<b>BED SHAPING</b>	Bed Preparation Rake
<b>WEED CONTROL</b>	Flame Weeder
<b>CULTIVATION</b>	Flex Tine Weeder, Wheel Hoe w/Bio-Disc Cultivator, or Collinear Hoe

## **BED PREPARATION**

- Broadfork the bed to aerate and loosen the soil, ensuring shapely carrots.
- Smooth and shape the bed with a bed preparation rake, removing any debris.
- Fertilizer options:
  - 1) Layer on 1" of compost, enough to mostly cover the native soil.
  - 2) Sprinkle on a combination of alfalfa meal and/or pelleted chicken manure.
- If layering compost, do not till in hopes of smothering any surface weed seed.
- If adding amendments, till the top 1-2" of soil to mix in amendments.
- Irrigate for 10-14 days\*, allowing any weed seed in top layer of soil to germinate.
- Adding row cover to the beds can encourage weed seed germination.
- Flame weed the bed when the cotyledons of the weed seeds have emerged.

## **SEEDING**

- Set up the Jang seeder: X24 roller, gears 14 front and 10 rear, brush down.
- For the JP1, roll out each of the six rows evenly spaced across the bed.
- For the JP5, only fill hoppers 1, 3, and 5 with seed. The bed can then be seeded in two passes with 6 perfectly spaced rows.
- 6-7 days after seeding (before the carrots have emerged), flame weed the beds again to kill off any weed seed that may have taken longer to germinate.

## **IRRIGATION**

- Irrigate regularly to ensure the top layer of the soil never dries out prior to germination (10-14 days).
- Deep watering will promote good development in early development, though excessive water in later stages can cause root cracking.

## **CULTIVATION**

- After carrots tops are 3-4" tall (20-25 days\* after the direct seeding date), cultivate with either a collinear hoe in between rows, a flex tine weeder, or a bio disc cultivator.
- The Terrateck Wheel Hoe with the bio-disc cultivator attachment provides a hilling effect, while cultivating both on the row and in between rows in a single pass.
- Remove any larger weeds by hand.
- After that point, a canopy should form and any late weed seed emergence shouldn't be a threat to the crop as it matures.

## **HARVEST**

- Harvest carrots at 5-7" for optimum tenderness and flavour.
- If selling per bunch, bunch carrots (8-10 per bunch) directly after pulling, then stack in to harvest tote.
- If selling per pound, twist off the tops in the field and place carrots in a harvest tote.

## **WASHING AND PACKING**

- Using a Washdown Gun sprayer over a root wash table, spray each bunch while rotating until all soil is thoroughly cleaned off.
- For topless bulk carrots, spray carrots in a perforated harvest container (sliding it around as you spray), ensuring all sides of the carrots have been cleaned.
- Store carrots in a refrigerated space at 35° inside a plastic bag or tote to maintain moisture and crispness until going to market.