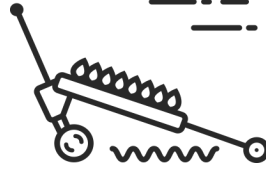


GROWER'S NOTES

BY PAPERPOT CO.



Spinach

CROP & PAPERPOT DATA:

PAPER CHAIN POT	2"
ROWS PER 100' X 30" BED	4
TRAYS PER 100' X 30" BED	8
KWIK KLIK™ TOP PLATE	Plate: Paperpot (264 holes) / Thickness: 3mm / Hole Diameter: 7mm
SEEDS PER CELL	3-4
SEED PER 100' X 30' BED	8532 seeds (+/-) *Always round up when placing seed orders to ensure having enough
RECOMMENDED CULTIVARS	Space, Red Kitten, Gazelle, Flamingo
GERMINATION	5 days at 70°F
DAYS TO TRANSPLANT	28 days (+/-) *time from seeding to transplanting in the field
DAYS TO MATURITY	55 days (+/-) *time from seeding to being ready for harvest
HARVEST WINDOW	28 days (+/-) *time crop is at ideal stage for harvest after reaching maturity
TOTAL DAYS IN FIELD	55 days (+/-) *DTM + harvest window - days to transplant
HARVEST UNIT	pound
TARGET CROP YIELD	60 pounds (+/-) *average 3 cuttings per bed, 20 lb per cutting
PRICE PER UNIT	\$10 *depending on local market pricing
REVENUE PER BED	\$600 *depending on local market pricing

SUGGESTED TOOLS:

SEEDING	Kwik Klik™ Drop Seeder, Paperpot Germination Trays, Paper Chain Pots
TRANSPLANTING	Paperpot Transplanter
TILTHING	Power Harrow or Precision Depth Roller (With no tractor: Tither)
AERATION	Meadow Creature Broadfork
SHAPING	Bed Preparation Rake
WEED CONTROL	Flame Weeder
CULTIVATION	Flex Tine Weeder or Collinear Hoe

BED PREPARATION

- Broadfork the bed to aerate and loosen the soil.
- Smooth and shape the bed with a bed preparation rake, removing any debris.
- If the previous crop was fertilized, spinach will do fine without reapplication. If not, here are two options:
 - 1) Layer on 1" of compost, enough to mostly cover the native soil.
 - 2) Sprinkle on a combination of alfalfa meal and 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.
- Flame weed the bed when the cotyledons of the weed seeds have emerged.

SEEDING

- Prepare trays with 2" paper chain pots, and fill with potting mix.
- Install Paperpot bottom plate and specified top plate into Kwik Klik™ (KK) Drop Seeder.
- Pour seed onto top plate and rotate until three or four seeds fill each hole.
- Position the KK Drop Seeder over the tray, ensuring the holes are lined up with the cells, and click to drop the seeds.
- Water the trays, then place in germination chamber for 5 days at 70°.
- Transfer the trays to greenhouse tables after germination has occurred.

TRANSPLANTING

- Thoroughly water trays before heading to the field for transplanting.
- Using the Paperpot Transplanter, plant the four rows of spinach.
- There should be 7.5" between rows, and 3.75" from the outer rows to the edge of the bed.
- Reference <https://paperpot.co/learn/> for instructional videos if needed.

IRRIGATION

- Water the beds thoroughly with overhead irrigation, or four rows of drip.
- More frequent, shallow waterings will help prevent bolting.
- It is important to water throughout warm days and keep spinach covered with shade cloth if attempting to grow in the warm season.

CULTIVATION

- 14 days after direct seeding, cultivate using a flex tine weeder (2 passes per bed).
- Repeat this process again after another 7 days.

HARVEST

- Target size for harvest is a 3-4" (+/-) leaf with no more than 1" of stem.
- Approximately 25 days to first harvest (depending on season)
- If the variety you are growing stands upright, the Quick Cut Greens Harvester may be used for harvest. You can also harvest by hand with a harvest knife, bunching together the greens with one hand, and cutting at least 1" above the soil with the other hand, so as to avoid cutting the growing point.

WASHING AND PACKING

- Agitate the spinach by hand (or use a bubbler) for no more than 1 minute in the wash tube, while scanning for debris, bugs, or damaged greens.
- Leaves can become water logged if left longer than one minute in the water.
- After drying and bagging, store the spinach at 35° and sell within 3 days of harvest.