

Planning your Fall Vegetable Garden

Master Gardener Program of Santa Clara County



Key ideas

- In our Mediterranean climate, we can grow fresh vegetables year-round.
- Cool season gardening has many advantages.
- A wide variety of vegetables grow very well in our cool season.

1. Cool season gardening

Why garden year round?

- Mediterranean climate: warm, dry summer and cool, wet winter
- Efficient use of garden space
- Fresh vegetables year round
- Can avoid some pests/diseases

Advantages of cool season gardening

- Slow growth, long holding time, vegetables are "refrigerated" right in the ground
- Less work: fewer weeds & pests, not as much watering needed
- Some crops taste better after light frost (cabbage family: broccoli, cauliflower, kale)

Know where your sun is

- Shorter days, overcast, lower sun path
- More shade from buildings, less shade from deciduous trees
- Need full sun, at least 6 hours. Some greens (lettuce, spinach) can do with less

Watering

- Rain! Still need irrigation: getting seedlings started, periods of no/little rain
- Less needed because weather is cooler

Soil Preparation

- Santa Clara County's clay soils are very fertile, but its small particle size means it compacts easily and drains too slowly for many vegetables
- To improve your soil texture, incorporate compost into the top 6-10" of soil: between 20%-33% by volume (2-3 inches of compost incorporated into 10" of soil)
- The only supplemental nutrient generally needed is nitrogen, which should be added to soil at planting and lightly every 3-4 weeks during the growing season
 - While compost contains nitrogen, the amount available varies greatly, so consider using additional forms of nitrogen such as alfalfa, fish meal or blood meal.

When to plant

- Get started early: late summer through early fall; or early spring
- Transplants allow you to plant later, giving summer crops more time to mature
- Starting seeds and seedlings
 - o Soil temperature, germination
 - o Starting outdoors: dappled shade, morning sun

A guideline calendar

- July/August: Start seeds in containers for cole crops
- August/September: Start seeds in containers for greens, beets, peas
- September/October
 - o Transplant cole crops, greens, peas, beets

- Seed peas, carrots and beets in place
- Start onion seeds in containers
- October/November
 - Continue transplanting greens
 - o Plant garlic and shallot bulbs
- November/December: Plant onion seedlings
- February/March: Can plant many vegetables again in spring, before summer crops

3. Cool season vegetables

Salad greens

- Lettuce Butterhead, batavian, romaine, leaf, mixes
- Plant closely for cut & come again or 6-10" apart for heads
- Start in pots 4-6 weeks ahead of time or direct seed
- Will bolt and go to seed when weather becomes too warm or with age, gets bitter
- Pests: snails & slugs
 - o Hand pick at night, especially first few weeks
 - o Find hiding places: cool, damp, shaded. Set out boards, bricks, flowerpots
 - O Use iron phosphate (e.g. Sluggo); don't overuse
- Pests: birds
 - o Irregular holes in leaves, not just on edges
 - o Protect seedlings with netting or row cover

Chard

- Start in pots 4-6 weeks ahead of time or direct seed 10-12" apart
- Pick outer leaves (pull rather than cut) and continue harvesting for months
- Pests: leafminers
 - Look for trails in leaves
 - o Cut off and throw away (not compost) infected leaves
- Pests: aphids (mostly a problem in the spring)
 - o Look for curled leaves, sticky surfaces, ants
 - o Don't over-fertilize; aphids are attracted to tender growth
 - Wash off with sharp spray of water
 - o Many beneficial insects (e.g., ladybug larvae) prey on aphids

Kale

- Start in pots 4-6 weeks ahead of time or direct seed 10-12" apart
- Pick outer leaves (pull rather than cut) and continue harvesting for months
- Favorite varieties: Red Russian, Lacinato
- Pests: aphids, see under chard, above

Asian greens: bok choy, tatsoi, etc.

- Start in pots 3 weeks ahead of time or direct seed 6-8" apart
- Pick outer leaves (pull rather than cut) or cut whole plants
- Very fast growing; plant several times a few weeks apart to have a continuous supply.

Peas

- English/shelling, sugar snap, snow peas (pea pods)
- Start in pots 3-4 weeks ahead of time or direct seed 3-4" apart
- Need trellis support, even short varieties. Run trellis north-south if possible
- Harvest shelling and sugar snaps when pods are full, but before they become lumpy and starchy. Harvest snow peas when full size but still flat

- Powdery mildew: For best results, plant peas in fall, not spring. Full sun
- Pests: slugs, snails, and birds nip off emerging seedlings

Broccoli

- Cabbage family (cole crops, brassicas)
- Start seeds in pots 4-6 weeks ahead, transplant in Sept-Oct, 12-24" apart
- Harvest main head when full but not spreading; harvest sideshoots for 2-3 more months
- Pests: Imported cabbageworm & cabbage looper
 - o Same color as plant, often found along rib
 - o Handpick, grow under row cover, encourage predators
- Pests: Bagrada Bug
 - Relatively new invasive species, 5-8mm, similar in appearance to harlequin bug but 1/3 the size, reproduces in cole crops
 - o Report if you notice in your garden: Ag Commission or Master Gardeners

Other cabbage family plants

- Cauliflower: prima donnas, one-shots, needs 2-3 foot spacing
- Kohlrabi: delicious raw, leaves tasty too. Plant closely, 6" apart
- Brussels sprouts: Needs to start early, transplant in early August at latest

Root crops: beets, carrots, parsnips, radishes, turnips, rutabagas

- Grown mainly for their roots, some have edible greens
- Need loose soil that allows roots to penetrate easily and grow straight
- Can be harvested when needed, over weeks or months

References

- Pamela Geisel, *Vegetable Gardening Basics*, publication 8059, University of California Agriculture & Natural Resources, anreatalog.ucdavis.edu/pdf/8059.pdf
- Dennis R. Pittenger, *California Master Gardener Handbook* (Oakland: Regents of the University of California, Agriculture & Natural Resources publication 3382, 2002)
- "UC IPM Online, Statewide Integrated Pest Management Program", accessed April 2011, ipm.ucdavis.edu

Resources

- Master Gardener Hotline for gardening-related questions: 408-282-3105 or mastergardeners.org/ask-a-question: This is a free service for residents of Santa Clara County
- "Santa Clara County Warm & Cool Season Vegetable Planting Charts:" mastergardeners.org/warm-cool-veg-charts
- "The California GardenWeb", Vegetable-specific Website accessed August 2014, cagardenweb.ucanr.edu/Vegetables/
- Pamela Peirce, Golden Gate Gardening, 3rd edition (Seattle: Sasquatch Books, 2010)
- Editors, Sunset Magazine, *The New Sunset Western Garden Book* (Oxmoor House, 2013)

The University of California prohibits discrimination or harassment of any person in any of its programs or activities. (Complete nondiscrimination policy statement can be found at http://ucanr.org/sites/anrstaff/files/107734.doc)

Inquiries regarding the University's equal employment opportunity policies may be directed to Affirmative Action Contact and Title IX Officer, University of California, Agriculture and Natural Resources, 2801 2nd Street, Davis, CA 95618, (530) 750-1397; titleixdiscrimination@ucanr.edu.