



## CMG GardenNotes #710

# Vegetables

## References and Review Material

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### Reading/Reference Materials

#### CSU GardenNotes

- <https://cmg.extension.colostate.edu/volunteer-information/cmg-gardennotes-class-handouts/>.
- #711, *Vegetable Gardens: Soil Management and Fertilization.*
- #712, *Sample Vegetable Garden Seed Catalogs.*
- #713, *Block Style Layout in Raised Bed Vegetable Gardens.*
- #714, *Irrigating the Vegetable Garden.*
- #715, *Mulches for the Vegetable Garden.*
- #716, *Water Conservation in the Vegetable Garden.*
- #717, *Growing Tomatoes.*
- #718, *Tomato Early Blight.*
- #719, *Vegetable Garden Hints.*
- #720, *Vegetable Planting Guide.*
- #721, *Sample Planting Guide for Raised-Bed Garden.*
- #722, *Frost Protection and Extending the Growing Season.*
- #723, *Growing Vegetables in a Hobby Greenhouse.*
- #724, *Vegetable Gardening in Containers.*
- #731, *Herb Gardening.*

#### CSU Extension Fact Sheets

- <https://extension.colostate.edu/topic-areas/yard-garden/>.
- #2.949, *Recognizing Tomato Problems.*
- #5.536, *Grasshopper Control in Gardens and Small Acreages.*
- #5.540, *Potato or Tomato Psyllids.*
- #5.550, *Beneficial Insects and Other Arthropods.*
- #5.569, *Horticultural Oils.*
- #5.587, *Greenhouse Whitefly.*
- #5.592, *Flea Beetle.*
- #5.609, *Squash Bug Management in Home Gardens.*
- #7.221, *Storing Vegetable and Flower Seeds.*
- #7.409, *Growing Plants from Seed.*
- #7.601, *Storage of Home-Grown Vegetables.*
- #7.602, *Saving Seeds.*
- #7.609, *Cucumbers, Pumpkins, Squash, and Melons.*

- #7.616, *Peppers and Eggplant*.
- #7.617, *Potatoes in the Home Garden*.
- #9.335, *Growing, Preserving and Using Herbs*.
- #9.369, *Preventing E. coli From Garden to Plate*.

### **Planttalk Colorado™**

- <http://planttalk.org>.

## **Learning Objectives**

At the end of this training, the student will be able to:

- Describe block style layout in a raised bed garden design.
- Describe garden planning and planting times.
- Describe soil preparation and fertilization for the vegetable garden.
- Describe routine garden care including mulching, irrigation, and water conservation.
- Describe routine care for tomatoes.
- List hints for growing other vegetables.
- Describe frost protection and microclimate modification.

## **Review Questions**

1. Describe management techniques for your soil type to maximize soil tilth in a vegetable garden.
2. Describe how to make a raised bed box for vegetables.
3. Describe the layout of a raised bed garden in block style planting.
4. Describe the management of a block style raised bed garden, including irrigation, mulching and fertilization.
5. From your garden experience, describe a common challenge in growing vegetables and how the gardener deals with it.
6. Describe how adding organic matter improves a sandy garden soil and a clayey garden soil.
7. List techniques to manage soil compaction in the vegetable garden.
8. What are the limitations on using manure and compost made with manure in the vegetable garden?
9. Describe the pros and cons of homemade compost and commercial compost.
10. Describe the standard application rate for compost. How does it change with incorporation depth and potential for salts in the product?
11. If the soil is low in organic matter, will a routine application of compost and/or manure supply the nitrogen needs for crops? Explain why.
12. How does the fertilizer application rate change based on soil organic content?
13. What is the purpose of a starter fertilizer? List examples of common fertilizers that could be used as a starter fertilizer.
14. What is nitrogen side dressing? List examples of common fertilizers that could be used for side-dressing.
15. In Colorado, what types of soils will likely have deficiencies of phosphorus and potassium?
16. What are the advantages of a block style garden layout and of raised bed gardens?
17. Describe how to design a garden in block style layout.
18. Describe how to make a raised bed garden. How high should the beds be raised? In routine raised bed gardening, where are the crops' roots?
19. Explain "double digging".
20. Describe how to set up a soaker hose drip irrigation system in a raised bed garden.
21. Describe procedures and limitations on using grass clipping mulch in the vegetable garden.
22. Can wood/bark chip mulch be used in the vegetable garden? Explain.

23. List gardening techniques to conserve water in the vegetable garden. What happens to vegetable quality with inadequate water supplies?
24. What is the critical water period for various vegetables?
25. Describe the ideal tomato transplant. How should tall leggy transplants be planted?
26. What are the advantages of trellising tomatoes? How far apart should tomatoes be spaced? Give examples of trellising methods.
27. What are the advantage and limitations of using black plastic mulch on tomatoes, peppers, eggplants, and vine crops?
28. Describe techniques for using plastic mulch.
29. Tomatoes are often referred to as being a “low nitrogen” crop. More correctly stated, they are fussy about nitrogen levels. Explain the fertilizer needs at planting and as the crop nears harvest.
30. Explain the management option for early blight on tomatoes. Will a fungicide stop the disease when leaves have turned yellow late summer?
31. Why will vine crops bloom but not set fruit?
32. When should beans be planted?
33. Beans have a higher water use than other vegetables. What happens when they get a little dry? How can you tell when bean plants need irrigation?
34. Explain the growing techniques for quality cole crops.
35. *Bacillus thuringiensis*, *Bt*, is the standard biological control approach for worms in cole crops. Describe the criteria in using *Bt*. See Fact Sheet #5.550, *Beneficial Insects and Other Arthropods*.
36. Why is isolation required in growing Super Sweet corn varieties?
37. Gardeners often list “poor quality” as the reason most people do not grow leafy vegetables. What are the keys to great quality lettuce, spinach, chard, and other leafy vegetables?
38. What cultural practices are needed to compensate for the onion family’s poor, inefficient root system?
39. What is the difference between English peas, snow or sugar peas, and snap peas?
40. Describe how to get potatoes off to a great start.
41. What are the different temperature requirements of hardy, semi-hardy, tender, and very tender vegetables?
42. How does a gardener know when to plant various crops?
43. In covering plants for frost protection, what is the heat source, i.e., where is the heat stored?