# Vegetable Gardening Preparation

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#### Soil

• Garden hygiene – clear out dead plants, debris, etc.

# Soil Testing

- Taking a Sample (supplies needed, sampling methods)
- Soil Sample Information Form list crop you're growing (can say "organic vegetable gardening")

## Using the Soil Test Report

- Shows results for crops you listed
- Soil type, soil pH, nutrient rating, recommendations for lime and fertilizer application

## **Amending Your Soil**

- If gumbo, consider raised bed and purchased topsoil
- Correcting pH
- Sweet spot: 6.2 to 6.8
- If too acid apply lime
- Use the ACES online calculator go to <u>www.aces.edu</u> and search for "lime calculator"

## Amending Your Soil

• If too alkaline – apply sulfur (ferrous sulfate or aluminum sulfate)

#### Fertilizer

- Recommendations will be in pounds/acre/season of N-P-K
- Comments section will adapt to the garden setting and smaller area
- Fertilizer calculators online one for conventional and one for organic
- All synthetic and many organic will list the % of N-P-K (for example 27-3-4)

#### Advantages of Compost and Organic Fertilizer

- Designed not to burn your plants
- Supplies nutrients in a form plants can use more readily
- Organic fertilizers tend to be slow-release; avoids problem of foliage at the expense of fruit

#### Manure

- Great source of nutrients and organic matter
- Proviso re N to P ratio (1:1 vs 5:1)
- Check periodically with soil test
- Fresh manure (except maybe rabbit) will burn plants
- So compost before adding
- If you need it now, consider manure-based fertilizer

## Next Year: Cover Crops!

- Avoid the problem of excessive P
- Plant legume (fixes N) before target crop
- Other cover crops focus on biomass (organic matter)
- Summer: Sunn hemp to add N for fall planting
- Fall: crimson clover or winter pea
- Terminate cover crops 2-3 weeks before planting

# Water Supply

- Now is great time to install drip irrigation
- If already installed, check lines
- Direct seeding requires consistent soil moisture levels

#### **Other Preparation**

- Weeding
- Severe? Solarize
- Have mulch on hand for timely application after planting
- Plan crop rotation ANR-1254 lists 11 families
- Diseases/pests that persist in soil
- Nutrient depletion
- Work from a planting diagram

#### **Seed Selection**

- Bulk seed & envelopes in stores
- Mail order catalogs
- Choose varieties suited to this area (ANR-0063)
- Plant according to recommended schedule (Alabama Vegetable Garden Planting Chart)

# **During February**

- Plant onion, cabbage, cauliflower, and Irish potatoes
- Direct seed spring peas, beets, mustard, radishes, turnips
- Late February: spinach and Swiss chard
- Start seed indoors

# Seed Starting

- Works for tomatoes, peppers, eggplant, basil and other herbs, marigolds
- You'll need:
- Seeds
- Sterile growing medium
- Cell packs
- Seedling tray and cover
- Heat mat
- Grow light
- Labels

## **Buy Transplants**

- Buy from reputable garden supplier or nursery
- Master Gardener plant sales
- Auburn PLANET student group

#### **Disease Prevention**

- Mulch to conserve moisture
- Also prevents splashing, which can spread disease
- Follow recommendations for plant spacing

   Enough space for optimum air flow
  - Close enough to make good use of soil

### **Attracting Pollinators**

- Butterflies and bees
- Bee balm
- Sunflower
- Black eyed Susan
- Also goldenrod, butterfly bush, purple coneflower, and butterfly weed

#### Attracting Predators and **Parasitonoids**

- These are the good guys:
  - Lady beetles
  - Braconid wasps
  - Hover flies
  - Lacewings
  - Tachinid flies
  - Soldier beetles
- Spined soldier bugs
- Ground beetles
- Robe beetles
- Tiger beetles
- Assassin bugs

#### Attracting Predators and **Parasitonoids**

- Plant flowers that produce pollen and nectar
- Plant sheltering plantings (perennials)

#### Resources

- These slides: <u>www.camga.net</u>
  ANR-0006-A: Home Soil Testing: Taking a Sample
  ANR-0006-B: Home Soil Testing: Using the Soil Test Report ANR-0047: Alabama Gardener's Calendar
- ANR-0063: Planting Guide for Home Gardening in
  - Alabama
- ANR-0479: The Alabama Vegetable Gardener
- ANR-1254: Crop Rotation: An Essential Part of Planning a Home Garden
- Chaplin, The Southern Gardener's Book of Lists: The Best Plants for All Your Needs, Wants, and Whims
- Ellis & Bradley, Eds., The Organic Gardener's Handbook of Natural Insect and Disease Control: A Complete Problem-Solving Guide to Keeping Your Garden and Yard Healthy without Chemicals