HOME GARDENING **IN TEXAS**

B-1139



THE TEXAS A&M UNIVERSITY SYSTEM Daniel C. Pfannstiel, Director, College Station, Texas



Home Gardening Do's and Don'ts

Do

- 1. Use recommended varieties for your area of the state.
- 2. Sample soil and have it tested every 2 to 3 years.
- 3. Apply preplant fertilizer to garden area in recommended manner and amounts.
- 4. Examine garden often to keep ahead of potential problems.
- 5. Keep garden free of insects, diseases and weeds.
- 6. Use mulches to conserve moisture, control weeds and reduce ground rots.
- 7. Water as needed, wetting soil to a depth of 6 inches.
- 8. Thin when plants are small.
- 9. Avoid excessive walking and working in the garden when the foliage and soil are wet.
- 10. Wash and clean garden tools and sprayer well after each use.
- 11. Keep records on garden activities.

Don't

- 1. Depend on varieties not recommended for your area, but do try limited amounts of new releases.
- 2. Plant so closely that you cannot walk or work in the garden.
- 3. Cultivate deeply to injure plant roots.
- 4. Shade small plants with taller growing crops.
- 5. Water excessively or in late afternoon.
- 6. Place fertilizer directly in contact with plant roots or seeds.
- 7. Allow weeds to grow large before beginning to cultivate.
- 8. Apply chemicals or pesticides in a haphazard manner or without reading the label directions.
- 9. Use chemicals not specifically recommended for garden crops.
- 10. Store left-over diluted spray.

Handy Conversion Table

- 3 teaspoons = 1 tablespoon2 tablespoons = 1 fluid ounce
- 16 tablespoons = 1 cup
- 2 cups = 1 pint or 16 fluid ounces
- 2 pints = 1 quart
- 4 quarts = 1 gallon
- 1 ounce = approximately 2 tablespoons (dry weight)

HOME GARDENING IN TEXAS

Sam Cotner and John Larsen*

Home gardening continues to grow in popularity. One of every three families does some type of home gardening, according to conservative estimates, with a majority of gardens located in urban areas. Texas gardeners can produce tasty, nutritious vegetables the year around. To be a successful gardener requires following a few basic rules and making practical decisions.

Garden Site

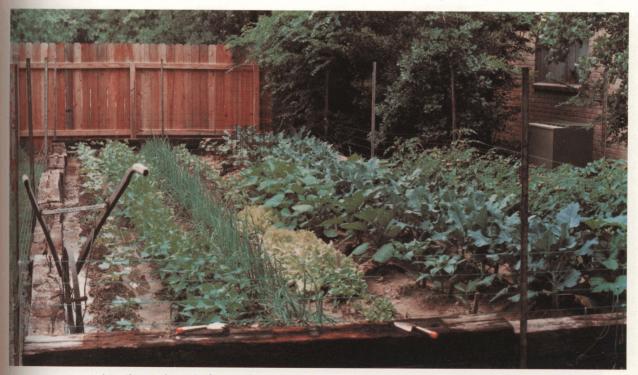
Although many urban gardeners have little choice, selecting a garden site is extremely important. An area exposed to full or near-full sunlight, with deep, well-drained, fertile soil is ideal. The location should be near a water outlet and free of competition from existing shrubs or trees. By modifying certain cultural practices and crop selections, almost any site can become a highly productive garden.

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Crop Selection

As a home gardener, one of your first major decisions is deciding what vegetables to grow. Table 1 lists crops suitable for small and large gardens. Raise vegetables which return a good portion of nutritious food for the time and space required. Viny crops such as watermelons, cantaloupes, winter squash and cucumbers require large amounts of space. Locating the garden near a fence or trellis may allow for growing viny crops in less space. Plant according to family needs and resist overplanting any particular vegetable, although surpluses may be preserved.

Proper variety selection is an important key to successful gardening. The wrong variety may not produce satisfactory yields regardless of subsequent care and attention. Contact your local county Extension agent for varieties which are well adapted to your area of Texas. Try new varieties and hybrids, but limit plantings.



Attractive and productive gardens require proper soil preparation and variety selection, adequate fertilization, and control of insects and diseases.

If your garden is not in an area receiving full or near-full sunlight, try leafy crops such as leaf lettuce, mustard and parsley. Table 2 indicates vegetable crops which do well in full sunlight and those that tolerate partial shade.

Garden Plan

A gardener needs a plan just as does an architect. Careful planning lessens gardening work and increases returns on labor.

Long-term crops require a long growing period. Plant them where they won't interfere with care and harvesting of short-term crops. Plant tall grow-

ing crops where they will not shade or interfere with growth of smaller crops. Plant vegetables such as okra, staked tomatoes, pole beans and sweet corn on the garden's north side to avoid shading lowergrowing crops such as radishes, leaf lettuce, onions and bush beans. Group crops according to their rate of maturity. Table 3 indicates the relative maturity rate of various vegetable crops. By grouping vegetables according to maturity rate, one crop can be planted to take the place of another as soon as it is removed. Try to plant crops totally unrelated to the previous crop. For example, follow early beans with beets, bush squash or bell peppers. Crop rotation helps prevent diseases and insect buildups.

Table 1. Home Garden Vegetables

Small Garden	Vegetab
Beets	Green be
Broccoli	Lettuce
Bush squash	Onions
Cabbage	Parsley
Carrots	Peppers
Eggplant	Radishes
English peas	Spinach
Garlic	Tomatoes

oles	Large	G
eans	Cantalour Cauliflow Collards Cucumber Mustard Okra	er

Garden Vegetables Potatoes Pumpkins Southern peas Sweet corn Sweet potatoes Watermelon

Table 2. Light Requirements of Common Plants

Requires Bright Sunlight

Beans Broccoli Cantaloupes Cauliflower Cucumbers

Eggplant Okra Onions Peas Peppers

Potatoes Pumpkin Squash Tomatoes Watermelons

Tolerates Partial Shade

Beets Brussels sprouts Cabbage Carrots Collards Kale

Lettuce Mustard Parslev Radish Spinach Turnips

Table 3. Maturity Rate Quick (30-60 days)

Beets **Bush beans** Leaf lettuce

Broccoli Cabbage, Chinese

Carrots Cucumbers

Brussels sprouts

Bulb onions

Cantaloupes

Cabbage

Mustard Radishes Spinach Moderate (60-80 days)

Green onions Kohlrabi Lima beans, bush Okra

Slow (80 days or more) Cauliflower Eggplant Garlic Irish potatoes

Summer squash Turnips Turnip greens

Parsley Peppers Tomatoes, cherry

Pumpkins Sweet potatoes Tomatoes Watermelon

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When to Plant

Consult the center table for information regarding recommended spring and fall planting times for home vegetable gardens in your area. Usually home gardens can be planted 10 days to 2 weeks earlier than commercial fields because of the protection offered by existing buildings, trees and shrubs. Proper planting time is important if maximum quality and production are expected. Figures 1 and 2 (inside back cover) indicate average dates for first and last freeze (32 degrees F.) for Texas and can be used with the center table to determine optimum planting dates.

Soil Preparation

Many garden sites do not have deep, welldrained, fertile soil which is ideal for vegetable growing. Thus, soils must be altered to provide good drainage and aeration. If the soil is a heavy clay, the addition of organic matter or sand may be highly advantageous.

Apply 1 to 2 inches of good sand and 2 to 3 inches of organic matter to the garden site surface and turn under in late winter or early spring to improve the soil's physical quality. Work on the soil's physical condition over a period of time rather than trying to develop desirable soil in a season or two. Make periodic additions of organic matter in the form of composted materials, peanut hulls, rice hulls, grass clippings or other organic matter. Turn the soil to a depth of 8 to 10 inches—the deeper the better. Gypsum improves soil structure and drainage. Add gypsum at the rate of 6 to 8 pounds per 100 square feet where the soil is a tight, heavy clay.

When adding organic matter or sand to the garden site, take care to avoid introducing soil pests such as nematodes. The Texas Agricultural Extension Service provides a laboratory service to determine whether nematodes are present in soils. Contact your county Extension agent for additional information.

Never work wet garden soil. Soils containing a high degree of organic matter can be worked at a higher moisture content than heavy clay soils. To determine if the soil is suitable for working, squeeze together a small handful of soil. If it sticks together in a ball and does not readily crumble under slight pressure by the thumb and finger, it is too wet for working.

Seeds germinate more readily in well-prepared soil than in coarse, lumpy soil. Thorough preparation greatly reduces the work of planting and caring for the crop. It is possible, however, to overdo preparation of some soils. An ideal soil for planting is granular, not powdery fine.

Fertilization

Proper fertilization is another important key to successful vegetable gardening. The amount of fertilizer needed depends upon soil type and crops. Texas soils vary from deep blow sands to fertile, well-drained soils to heavy, dark clays underlaid by layers of caliche rock. Crops grown on sandy soils usually respond to liberal amounts of potassium, whereas crops grown on clay soils do not.

Heavy clay soils can be fertilized considerably heavier at planting than can sandy soils. Heavy clay soils and those high in organic matter can safely absorb and store fertilizer at three to four times the rate of sandy soils. Poor thin, sandy soils, which need fertilizer the most, unfortunately can not be fed as heavily and still maintain plant safety. The solution is to feed poor thin soils more often in lighter doses. For accurate recommendations regarding fertilizer rates, contact your county Extension agent and request a soil test kit.

In general, if your garden is located on deep, sandy soil, apply a complete preplant fertilizer such as 5-10-10 or 6-12-12 at the rate of 1 to 2 pounds per 100 square feet. If your garden consists of a soil type with a high percentage of clay, a fertilizer such as 10-20-10 or 12-24-12 at 1 to 2 pounds per 100 square feet should be suitable.

After determining the proper amount of fertilizer for a preplant application, apply the fertilizer a few days before planting. Spade the garden plot, spread the fertilizer by hand or with a fertilizer distributor and then work the soil one or two times to properly mix the fertilizer with the soil. After the fertilizer is well mixed with the soil, bed the garden in preparation for planting. On alkaline soils, apply 0-20-0 (superphosphate) directly beneath the intended seed row or plant row before planting. Apply the superphosphate 2 to 4 inches beneath the seed or roots of the plant at the rate of 1 to 11/2 pounds per 100 linear feet of row. Take care to avoid banding nitrogen material directly beneath the row. Death of the seed or severe burning of the plants could result. Apply additional nitrogen as a furrow or sidedress application later in the season. For most soils, 1/2 to 3/4 pound of 21-0-0 (ammonium sulfate) per 100 linear feet of row, applied in the furrow and watered in, is adequate. Apply at first fruit set for crops such as tomatoes, peppers and squash. Sidedress leafy crops such as cabbage and lettuce when they develop several sets of character leaves.

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	Seed or	Depth of Seed	Dist	es of ance veen	Average Height of Crop	Spring M	
Vegetables	Plants per 100 feet	Planting in Inches	Rows Plants		in Feet	Regard Frost-H	
Asparagus Beans, snap bush Beans, snap pole Beans, Lima bush	66 pl., 1 oz. 1/2 lb. 1/2 lb. 1/2 lb. 1/2 lb.	6-8, 1-1 ½ 1-1 ½ 1-1 ½ 1-1 ½ 1-1 ½	36-48 30-36 36-48 30-36	18 3-4 4-6 3-4	5 1 ½ 6 1 ½	4 to 6 on to 4 on to 4 on to 4	
Beans, Lima pole Beets Broccoli Brussels Sprouts	1/4 lb. 1 oz. 1/4 oz. 1/4 oz.	1-1 ½ 1 ½ ½	36-48 14-24 24-36 24-36	12-18 2 14-24 14-24	6 1 ½ 3 2	on to 4 1 4 to 6 1 4 to 6 1 4 to 6 1	
Cabbage Cabbage, Chinese Carrot Cauliflower	1/4 oz. 1/4 oz. 1/2 oz. 1/4 oz.	1/2 1/2 1/2 1/2 1/2	24-36 18-30 14-24 24-36	14-24 8-12 2 14-24	1 1/2 1 1/2 1 3	4 to 6 i 4 to 6 i 4 to 6 i not recomm	
Chard, Swiss Collard (Kale) Corn, sweet Cucumber	2 oz. 1/4 oz. 3-4 oz. 1/2 oz.	1 1-2 1/2	18-30 18-36 24-36 48-72	6 6-12 9-12 8-12	1 ½ 2 6 1	2 to 6 2 to 6 on to 6 on to 6	
Eggplant Garlic Kohlrabi Lettuce	1/8 oz. 1 lb. 1/4 oz. 1/4 oz.	1-2 1/2 1/2 1/2	30-36 14-24 14-24 18-24	18-24 2-4 4-6 2-3	3 1 1 ½ 1	2 to ôm not recom 2 to ôm 6 w/s.whe	
Muskmelon (Cantaloupe) Mustard Okra Onion (plants)	1/2 oz. 1/4 oz. 2 oz. 400-600 pl.	1 1 1-2	60-96 14-24 36-42 14-24	24-36 6-12 12-24 2-3	1 1 ½ 6 1 ½	on to b * on to b * 2 to b * 4 to 10m	
Onion (seed) Parsley Peas, English Peas, Southern	1 oz. 1/4 oz. 1 lb. 1/2 lb.	1/2 1/8 2-3 2-3	14-24 14-24 18-36 24-36	2-3 2-4 1 4-6	1 ½ ½ 2 2 ½	6 to 8 m on to 6 m 2 to 8 m 2 to 10	
Pepper Potato, Irish Potato, sweet Pumpkin	1/8 oz. 6-10 lb. 75-100 pl. 1∕2 oz.	1/2 4 3-5 1-2	30-36 30-36 36-48 60-96	18-24 10-15 12-16 36-48	3 2 1 1	1 to 8 4 to 6 2 to 8 1 to 4	
Radish Spinach Squash, summer Squash, winter	1 oz. 1 oz. 1 oz. 1/2 oz.	¹ √2 √2 1 - 2 1 - 2	14-24 14-24 36-60 60-96	1 3-4 18-36 24-48	1/2 1 3 1	6 wks.stre 1 to 8 1 to 4 1 to 4	
Tomato Turnip, greens Turnip, roots Watermelon	50 pl., ½ oz. ½ oz. ½ oz. 1 oz.	4-6, ¹ / ₂ ¹ / ₂ 1-2	36-48 14-24 14-24 72-96	36-48 2-3 2-3 36-72	3 1 ½ 1 ½ 1 ½	on to 8 2 to 6 2 to 6 on to 6	



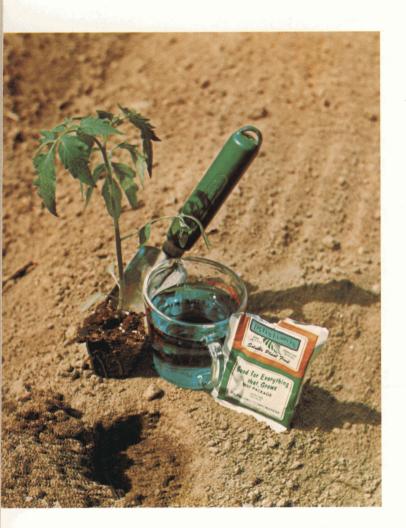
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				Approx. Plan	nting per Person
Fall Planting in Regard to Average Fall-Freeze-Date	No. Days Ready for Use	Average Length of Harvest Season Days	Average Crop Expected per 100 feet	Fresh	(Storage) Canning or Freezing
not recommended 8 to 10 wks. before 14 to 16 wks. before 8 to 10 wks. before	730 45-60 60-70 65-80	60 14 30 14	30 lb. 120 lb. 150 lb. 25 lb. shelled	10-15 pl. 15-16 ft. 5-6 ft. 10-15 ft.	10-15 pl. 15-20 ft. 8-10 ft. 15-20 ft.
14 to 16 wks. before 8 to 10 wks. before 10 to 16 wks. before 10 to 14 wks. before	75-85 50-60 60-80 90-100	40 30 40 21	50 lb. shelled 150 lb. 100 lb. 75 lb.	5-6 ft. 5-10 ft. 3-5 pl. 2-5 pl.	8-10 ft. 10-20 ft. 5-6 pl. 5-8 pl.
10 to 16 wks. before 12 to 14 wks. before 12 to 14 wks. before 10 to 16 wks. before	60-90 65-70 70-80 70-90	40 21 21 14	150 lb. 80 heads 100 lb. 100 lb.	3-4 pl. 3-10 ft. 5-10 ft. 3-5 pl.	5-10 pl.
12 to 16 wks. before 8 to 12 wks. before 12 to 14 wks. before 10 to 12 wks. before	45-55 50-80 70-90 50-70	40 60 10 30	75 lb. 100 lb. 10 doz. 120 lb.	3-5 pl. 5-10 ft. 10-15 ft. 1-2 hls.	8-12 pl. 5-10 ft. 30-50 ft. 3-5 hls.
12 to 16 wks. before 4 to 6 wks. before 12 to 16 wks. before 10 to 14 wks. before	80-90 140-150 55-75 40-80	90 14 21	100 lb. 40 lb. 75 lb. 50 lb.	2-3 pl. 3-5 ft. 5-15 ft.	2-3 pl. 1-5 ft. 5-10 ft.
14 to 16 wks. before 10 to 16 wks. before 12 to 16 wks. before not recommended	85-100 30-40 55-65 80-120	30 30 90 40	100 frts. 100 lb. 100 lb. 100 lb.	3-5 hls. 5-10 ft. 4-6 ft. 3-5 ft.	10-15 ft. 6-10 ft. 30-50 ft.
8 to 10 wks. before 6 to 16 wks. before 2 to 12 wks. before 10 to 12 wks. before	90-120 70-90 55-90 60-70	40 90 7 30	100 lb. 30 lb. 20 lb. 40 lb.	3-5 ft. 1-3 ft. 15-20 ft. 10-15 ft.	30-50 ft. 1-3 ft. 40-60 ft. 20-50 ft.
12 to 16 wks. before 14 to 16 wks. before not recommended 12 to 14 wks. before	60-90 75-100 100-130 75-100	90	60 lb. 100 lb. 100 lb. 100 lb.	3-5 pl. 50-100 ft. 5-10 pl. 1-2 hls.	3-5 pl. 10-20 pl. 1-2 hls.
on to 8 wks. before 2 to 16 wks. before 12 to 15 wks. before 12 to 14 wks. before	25-40 40-60 50-60 85-100	7 40 40	100 bunches 3 bu. 150 lb. 100 lb.	3-5 ft. 5-10 ft. 2-3 hls. 1-3 hls.	10-15 ft. 2-3 hls. 1-3 hls.
12 to 14 wks. before 2 to 12 wks. before 2 to 12 wks. before 14 to 16 wks. before	70-90 30 30-60 80-100	40 40 30 30	100 lb. 50-100 lb. 50-100 lb. 40 frts.	3-5 pl. 5-10 ft. 5-10 ft. 2-4 hls.	5-10 pl. 5-10 ft.



Table 4. Days from Planting to Emergence Under Good Growing Conditions

Beans	5-10	days	Onion	7-10	days	
Beets	7-10	days	Peas	6-10	days	
Broccoli	5-10	days	Parsley	15-21	days	
Cabbage	5-10	days	Pepper	9-14	days	
Carrots	12-18	days	Radish	3-6	days	
Cauliflower	5-10	days	Spinach	7-12	days	
Corn	5-8	days	Squash	4-6	days	
Cucumber	6-10	days	Tomato	6-12	days	
Eggplant	6-10	days	Turnip	4-8	days	
Lettuce	6-8	days	Watermelon	6-8	days	
Okra	7-10	davs				



Fertile soil, healthy transplants and the use of a starter solution will insure vigorous early growth in the home garden.

Planting

Plant your garden as early as possible in the spring and fall so the vegetables will grow and mature during ideal conditions.

Transplanting vegetable crops wherever possible allows earlier harvesting and extends the productive period of many vegetable crops. Where transplanting is not practical or convenient, seed directly. A general rule of thumb for planting is to cover the seed 2 to 3 times their widest measurement. This is especially true for big-seeded crops such as green beans, sweet corn, cucumbers, cantaloupes and watermelons. For smaller-seeded crops such as carrots, lettuce or onions, an average planting depth of $\frac{I}{4}$ to $\frac{I}{2}$ inch usually is adequate. Seed the plants fairly thick with the intention of thinning to an optimum stand at a later date. Avoid allowing the soil to overdry or crust during germination but do not overwater. Table 4 indicates the number of days from planting to expected emergence when properly planted.

Avoid transplanting too deep or too shallow, especially if plants are in containers such as peat pots. Deep planting often causes developed roots to abort, and planting too shallow exposes containers to the surface and causes root death from excessive drying. Some crops are easily transplanted bareroot while others are best transplanted in containers as indicated in Table 5. When transplanting plants such as tomatoes or peppers, use a starter solution. Starter solutions may be purchased at local nurseries or can be made at home by mixing $\frac{1}{4}$ to $\frac{1}{2}$ cup of fertilizer such as 10-20-10 in 5 gallons of water. Use the lower rate on light, sandy soils. Apply $\frac{1}{2}$ to 1 pint of starter solution, depending upon plant size, into each transplant hole before planting. This prevents the plants from drying out and provides adequate sources of fertility for young growing plants.

Watering

Apply enough water to penetrate the soil to a depth of at least 6 inches. For best production, most gardens require a moisture supply equivalent to 1 inch of rain a week during the growing season. Light sandy soils generally require more frequent watering than heavier dark soils. If sprinklers are used, water in the morning to allow plant foliage to dry before night. This practice helps prevent foliage diseases, since humidity and cool temperatures encourage disease development on most vegetable crops.

Weed Control

A long-handled hoe is the best tool for control of undesirable plants in vegetable gardens. Chemical weed control usually is undesirable and unsatisfactory because of the selective nature of weed control chemicals. The wide variety of vegetable crops

normally planted in a small area prohibits use of such chemicals. Cultivate and hoe shallowly to avoid injury to vegetable roots lying near the soil surface. Control weeds in the seedling stage to prevent them from seeding and re-inoculating the garden area.

Mulching

Mulching will increase yields, conserve moisture, prevent weed growth, regulate soil temperature and lessen losses caused by ground rot of many vegetable crops. Organic mulches can be made of straw, leaves, grass, bark, compost, sawdust or peat moss. Organic mulches incorporated into the soil will improve the soil tilth, aeration and drainage. The amount of organic mulch to use depends upon the type, but 1 to 2 inches of organic material applied to the garden surface around growing plants is adequate. For years, black plastic has served as an excellent mulching material. In recent years, the utilization of paper has partially replaced plastic as a mulch—especially for home gardens. Used as a mulch, paper breaks down over a period of time and adds organic matter to the soil. Plastic, however, must be removed at the end of the gardening period.

In turning organic mulches under for subsequent crops, add additional fertilizer at the rate of about 1 pound per 100 square feet to help soil organisms break down the additional organic matter.

Pest Control

Diseases and insects cause great concern among Texas gardeners. Long growing seasons with relatively mild winters encourage large insect populations. Avoid spraying when possible, but use recommended and approved chemicals if the need warrants. Exercise care when deciding which chemicals to apply. Spray only those crops which are listed on the chemical's container. When used according to manufacturer's directions and label, chemicals pose no threat to the home gardener.

Disease control is really a preventative rather than an eradication procedure. Cool, damp conditions are conducive to foliage diseases. Carefully watch your garden for symptoms of diseases. Spray accordingly, using only approved fungicides. Publications on disease and insect identification and control are available from your local Extension office.

Harvesting

For the greatest enjoyment of your home vegetable garden, harvest vegetables at their peak of maturity. A vegetable's full flavor develops only at full maturity, resulting in the excellent taste of vineripened tomatoes, tender green beans and crisp, flavorful lettuce. For maximum flavor and nutritional content, harvest the crop the day it is to be canned, frozen or eaten.

Table 5. Ease of Transplanting

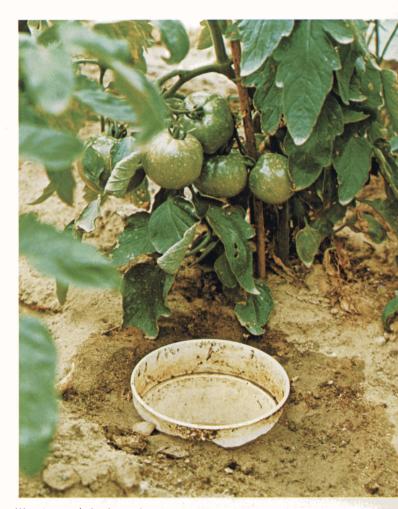
Easily Transplanted		
Beets Broccoli Cabbage	Cauliflower Chard Lettuce	Onion Tomato es
Requires Care		
Carrots Celery	Eggplant Okra	Pepper Spinach
Very Difficult Witho	out Using Cor	ntainers

Peas

Squash



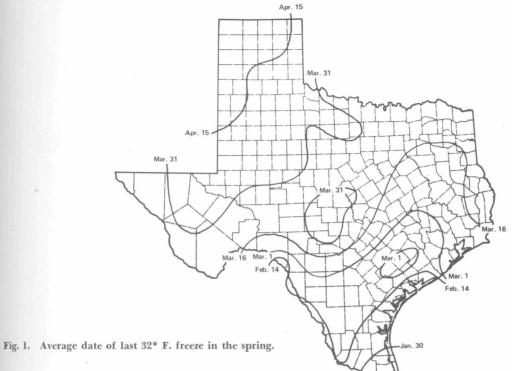
Cucumber Turnip Watermelon



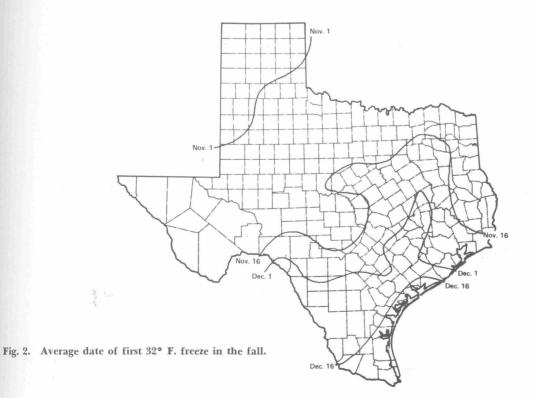
Watering and fertilizing by the use of sunken pots provides optimum growth conditions for tomato plants. One level teaspoon of complete fertilizer applied weekly in the pot and watered in is usually sufficient for most soils.

Common Garden Problems

Symptoms	Possible Causes	Corrective Measures
Plants stunted in growth; sickly, yellow color	Lack of soil fertility or soil pH abnormal	Use fertilizer and correct pH ac cording to soil test. Use 2 to 5 pounds of complete fertilizer per 100 square feet in absence of soil test.
	Plants growing in compacted, poorly-drained soil	Modify soil with organic matter or coarse sand.
	Insect or disease damage	Use a regular spray or dust pro- gram.
	Iron deficiency	Apply iron to soil or foliage.
Plants stunted in growth; sickly, purplish color	Low temperature	Plant at proper time. Don't use light-colored mulch too early in the season.
	Low available phosphate	Apply sufficient phosphate at planting.
Holes in leaves; leaves yellowish and drooping, or distorted in shape	Damage by insects	Use recommended insecticides at regular intervals.
Plant leaves with spots; dead, dried areas; or powdery or rusty areas	Plant disease	Use resistant varieties, remove diseased plants when they are noticed and use a regular spray program.
Plants wilt even though suffi- cient water is present	Soluble salts too high or root system damage	Have soil tested by county Ex- tension agent. Use soil insecti- cides, fungicides and resistant varieties.
	Poor drainage and aeration	Use organic matter or sand in soil.
	Insect or nematode damages	Use recommended varieties and soil insecticides or nematicides.
Plants tall, spindly, and unpro- ductive	Excessive shade	Relocate to sunny area. Keep down weeds.
	Excessive nitrogen	Reduce applications of nitrogen.
Blossom drop (tomatoes)	Hot dry periods	Use mulch and water. Plant heat tolerant varieties.
	Minor element deficiencies	Use fertilizer containing zinc, iron and manganese.
Failure to set fruit (vine crops)	Poor pollination	Avoid spraying when bees are present.
Leathery, dry, brown blemish on the blossom end of tomatoes, peppers and watermelons	Blossom end rot	Maintain a uniform soil mois- ture supply. Avoid overwater- ing and excessive nitrogen.



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Other Gardening Publications

B-194	Home Canning of Fruits and Vegetables
B-99 5	What You Should Know About Plant Diseases
L-166	Fertilizer Conversion Tables for Lawns, Gardens and Flower Beds
L-781	Control of Plant Parasitic Nematodes Around the Home and Garden
L-868	Let's Control Plant Nematodes
L-1205	A Planning Guide for Your Home Garden
L-1418	Grow Your Own Groceries — Tomatoes
L-1450	Harvesting Your Own Groceries
MP-954	Disease Prevention in the Home Garden
MP-1150	Vegetable Gardening in Containers
MP-1257	Vegetable Garden Insects and Their Control

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