

## Producing Peanuts for Home Use <sup>1</sup>

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Peanuts can be grown in the home garden for a number of uses. The nuts can be eaten raw or boiled while "green" (undried) or they can be dried and stored for eating raw, or roasting (either in-shell or shelled). Peanuts can be used in making candy or other foods. Nuts can be fed to squirrels, birds, or other animals. Since peanuts are relatively easy to grow, students can use them to learn about plant growth and development. Since the peanut has above ground flowers, but nut development is underground, they are of special interest. Peanuts can be grown organically or with commercial fertilizers and pesticides.

### SOIL SELECTION

If peanuts are grown in the home garden, soil selection and location will be limited. However, peanuts should be grown on well-drained soils and in a sunny location. Shading may result in lower yields, slower growth, and more diseases. If your garden is subject to flooding or if the soil stays wet for long periods of time, there can be retarded growth of the plants, pods may not form, or pods may have a considerable amount of rotting and decay. On the other hand, if the soil is too sandy or excessively

drained, plant growth and yield may be reduced during dry periods if irrigation is not used. Also avoid soils with high levels of organic matter or plant residue because diseases may be common.

Peanuts should be grown in rotation with plants resistant to nematodes and soil-borne diseases, such as southern blight. Plants of the grass family, such as corn, would be suitable for rotations with peanuts, while most legumes and some vegetables could be unsuitable as immediately preceding crops. At least two years should elapse between peanut crops on the same soil.

### LIME AND FERTILIZERS

A soil test should be used to determine the lime and fertilizer needs for peanuts. A soil pH of about 6.0 would be optimum for peanuts, but the crop can produce well over a wide soil pH range. If lime is needed, broadcast the recommended amount and incorporate with the soil well in advance of planting.

Peanuts respond as well or better to residual fertility than to direct fertilization. If a well-fertilized crop precedes peanuts, direct fertilization may not

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increase the yield or quality of the peanuts. If fertilizer is needed, broadcast and incorporate it with the soil prior to land preparation. High levels of potassium and certain other nutrients in the pegging zone could result in poor calcium uptake which can cause unfilled pods ("pops") or increased levels of pod rot. Therefore, do not apply potassium fertilizers after the peanuts have emerged. Foliar sprays of nutrients are generally ineffective or not economically feasible, except to prevent or correct some micronutrient deficiencies. Boron is often the only micronutrient that must be added for peanuts, but in certain situations others may be needed.

Most soils contain the proper strain of nitrogen-fixing bacteria for peanuts, e.g., cowpea. Being a legume, association with these bacteria provide the nitrogen used by the peanut plant. Consequently, peanuts seldom respond to nitrogen fertilization. If needed, inoculant for peanut or cowpea contain these bacteria and can be mixed with the seed at planting.

If soil calcium levels are low or if large-seeded varieties are grown, it would be advisable to apply 800 lb/A of gypsum over the potential pegging zone (a band about 18" down the row of peanuts) as soon as the plants begin to flower. The gypsum contains a readily available source of calcium that will help ensure good pod fill and may help prevent pod rot.

## SOIL PREPARATION

Burial of previous crop residue or litter will reduce several disease problems. Seedling diseases, southern blight, and other diseases can attack peanuts if crop or weed residue is only partially incorporated. If there are large amounts of residue, turn under or incorporate it at least a month before planting the peanuts. This early incorporation will allow the residue to rot prior to planting. If available, a moldboard plow is considered to be the preferred equipment to begin preparation of the soil.

The soil surface should be smooth and free of clods of soil or plant residue prior to planting. Disking, rototilling, or even raking can be used as the final preparation of the soil before planting. If a herbicide, insecticide, or nematicide needs to be

incorporated with the soil prior to planting, it can be done with a rototiller or disc.

## VARIETY SELECTION

There are four major types of peanuts to choose from for planting in the home garden. A fifth type could be included if the jumbo varieties were separated from the virginia varieties. Individual preferences and seed availability would determine which variety should be grown. Any variety could be used in the green or dry stage.

Valencia peanuts are often the preferred type for home gardens because they mature early, have 3 or 4 kernels per pod, are easy to pick because the pods form near the taproot, and have a good flavor. Tennessee Red and selections from it, such as New Mexico A, New Mexico C, Georgia Red, and McRan are popular valencia varieties. Seed are usually readily available.

Virginia type peanuts are also popular for boiling and roasting because of their large size and good flavor. They require a longer period of time to mature than valencia varieties. NC 7, NC 9, and NC-V 11 are suitable varieties. The jumbo varieties, such as Jenkins Jumbo, are larger than most virginia varieties, but seed may not be readily available.

Spanish and runner varieties can also be selected. Andru 93, GK 7, Georgia Runner, Georgia Green, SunOleic 97R, and other runner varieties produce high yields, have an intermediate kernel size, and are popular for commercial plantings. Seed of the runner varieties are usually readily available. Spanish varieties such as Pronto or Spanco are used more often for roasting than for boiling. Spanish varieties are small-seeded, early maturing, and generally produce pods near the taproot.

## PLANTING

Obtain sound, mature, and disease-free seed that have been treated with a fungicide to help prevent seed and seedling diseases. Space seed 2 to 4" apart in rows that are 24 to 36" apart. Seeding depth should be 2 to 3" in sandy soils and 1 1/2 to 2" in finer textured soils. After they are covered, the top of the seed row should be level with, or slightly above, the

middle to provide good drainage. A provision for drainage is especially important in wetter locations.

Planting can be in late winter or spring as soon as the danger of frost is over, while summer plantings should allow enough time for the peanuts to mature before the first frost of winter. Peanuts are harvested for boiling at an earlier maturity stage than for roasting. Also, early-planted peanuts will require more time to mature than crops planted during the warmer periods. Valencia peanuts harvested for boiling may produce a crop in as little as 75 to 85 days under ideal conditions. Virginia or runner varieties may require 135 to 150 days for full maturity if harvested for roasting.

## PEST CONTROL

Weeds, diseases, nematodes, and insects may reduce yields and quality of the nuts. Various pesticides can be used and should be selected based on label clearances and suitability for the situation. See the appropriate pest control guides for information. Be sure to follow all label directions when using pesticides.

Weeds can also be controlled by cultivation, hoeing, or pulling. Cultivation should be shallow with sweeps that do not throw dirt on the peanut vines. Also, do not move soil onto the vines while hoeing. Soil moved onto the vines can increase some diseases. Pull weeds before they are large as less damage is done to the developing nuts.

Squirrels, birds, raccoons, rats, and other animals may also eat peanut seed as they germinate and plants emerge. These animals may also dig or eat peanuts as they form on the vines. Protect your peanuts from such damage.

## HARVESTING

Peanuts flower over a long period of time and therefore, all pods do not mature at the same time. Consequently, judgement is necessary when determining when to harvest the peanuts for whatever use that will be made of them.

When peanuts reach the desired stage of maturity for boiling, they may be pulled by hand, lifted by a

spade-fork or shovel, or dug with a commercial peanut digger pulled by a tractor. After picking by hand, the pods can be washed and are then ready to be boiled.

For roasting purposes, peanuts are not usually harvested until about 75% of the hulls have a dark interior surface. The peanuts can be dug by one of the methods mentioned above. However, instead of picking the nuts off while green, the plants are allowed to dry in the sun for a few days to allow partial drying. If facilities are available for forcing heated air through the nuts, they may be picked off and artificially dried to about 10% moisture. If such facilities are not available, stack the vines with the nuts on stackpoles for drying. Stackpoles are simply posts with cross members nailed a few inches above the ground to prevent spoilage to the peanuts. The peanuts should stay on the stackpoles until the nuts contain 10% or less moisture. They are then picked off and stored in a dry location until they are used. If the peanuts are picked off the vines before they are dry enough for storage, they can be air-dried by spreading them in shallow layers in protected areas.

Whatever method of drying is used, be sure that excessive mold or rot does not develop on the peanuts. Flavor and safety of the nuts can be affected by molds. Also, protect the peanuts from squirrels, birds, rodents, and other animals while they are drying.

## STORAGE

Dried peanuts should not exceed 10% moisture content in storage or molds may develop. Insects and rodents are attracted to peanuts, so protective measures should be taken. To delay rancidity, keep the peanuts in a cool, dry location. Plan to use the peanuts in a few months after harvest before flavor and taste declines. Peanuts that are high in oleic acid content, such as SunOleic 97R, Flavor Runner 458, and High Oleic GK 7 should retain their flavor for a longer period of time than other varieties.

Boiled peanuts may be frozen for later consumption. Flavor and taste will also decline in boiled peanuts even if they are frozen.