Raspberries are an important source of fruit for jam, sauce, and fresh fruit for the family table. The home gardener can enjoy reasonable success with raspberries most seasons. However, growing conditions such as cold winters and hot dry summers are not conducive to good growth and production. A few growers with large plantings sell excess fruit, some on a "pick your own" basis. This eliminates hiring the labor needed for harvesting the fruit.

**RED FRUITED VARIETIES**

   Boyne — This summer bearing variety is excellent for home gardens. The tender, glossy, dark red, medium-large fruit is good for processing and freezing. Canes are moderately vigorous, sturdy, winter hardy and very productive.

   Killarney — Killarney is reliably hardy but slightly less vigorous and productive than Boyne under North Dakota conditions. The large berries have excellent quality either fresh or frozen.

   Latham — Latham is a summer bearing variety yields attractive, light, red fruit that turns dark when overripe. The large, round, moderately firm, mild-flavored berries are of good quality. Plants are vigorous, upright, productive. Latham lacks hardiness and should be given winter protection or planted in well protected areas.

**PURPLE FRUITED VARIETIES**

   Purple fruited raspberries possess a growth habit similar to the red types with fruit flavor of black raspberries.

   Fallgold, Fallred and Heritage are suggested.
PLANTING

Set raspberry plants in early spring. Cut the canes to within 6 inches of the ground for best results. Spacing for raspberry plants depends on the system of training you plan to use and on the type of cultivating equipment you own.

Raspberry plants can be set in hills and cultivated on all four sides or set in rows and cultivated on two sides. For planting in hills, space the plants far enough apart each way so you can cultivate between them. (Check the plants in each direction).

For planting in hedge rows, space the rows far enough apart to cultivate with available equipment. Set plants 3 to 4 feet apart within the row. If you plan to cultivate with a garden tractor, 6 feet is the minimum distance between rows. The use of farm tractors requires greater distances between rows for cultivation.

WEED CONTROL

Raspberry plantings should be cultivated thoroughly and frequently. If weeds and grasses get a start, they are difficult to control.

Approved herbicides can be used for weed control in raspberry plantings. The use of herbicides supplements cultivation and does not replace it.

Herbicides are most useful in controlling weeds within rows or hills, where hand hoeing would otherwise be necessary. The middles between rows and hills should be cultivated regularly even though herbicides are used near the raspberry plants.

PRUNING

Pruning is one of the most important parts of raspberry culture and it is very often neglected or improperly done. Proper pruning of raspberries makes fruit picking easier and the individual fruits will be larger.

In the hedge row system, spring pruning should consist of thinning the canes to 6 inches apart or 8 to 10 canes per 2 feet of row. Keep in mind the row should be only 18 inches wide. The remaining canes should be tipped or headed back to 3 to 3½ feet tall, since shortened canes are less likely to break under a load of fruit. This spring pruning should be done in the early spring before any growth takes place.

In the hill system, the spring pruning consists of selecting 6 to 10 canes and removing all others. The selected canes should be tipped to 3½ to 4 feet in height. At this time the canes should be tied to the stake in the hill system.

In midsummer, after the raspberries have finished fruiting, all canes that bore fruit should be removed. These old canes will die the following winter since the canes of raspberries live only two years. The first year each cane grows as a shoot starting from the root. The second year each cane fruits and dies. These canes that fruited compete with the young canes for moisture and nutrients. They also harbor insects and diseases. Destroy or bury all the refuse removed in pruning.

WINTER PROTECTION

Raspberries grown in exposed or difficult sites and the more tender varieties should be given some winter protection. This can be done successfully by bending the canes over and throwing a shovel of soil on the cane to hold it down on the ground. The bent over canes should then trap snow, which gives good protection. This usually results in less winter killing and better fruiting the following summer.

INSECTS AND DISEASES

Red spider mites are the most common insect pests of raspberries in North Dakota. The mites are tiny sucking insects found under the leaves. The damage appears as small light colored spots on the leaves. There may also be a cupping of the leaves. The most serious diseases of raspberries in North Dakota are virus diseases referred to as mosaics. Virus disease symptoms may show as cupping of the leaves, yellow-green mottling, loss of production and loss of quality in the fruit. This may be partially avoided by starting with new plants from a reliable, regularly inspected nursery. Raspberry plants from a neighbor's old "patch" often are infected.

For recommended controls, see Circular E-299 "Fruit Insect and Disease Control Guide" for the home grower.