

HOME GROUNDS FACT SHEET



Cornell University
Cooperative Extension
Nassau County

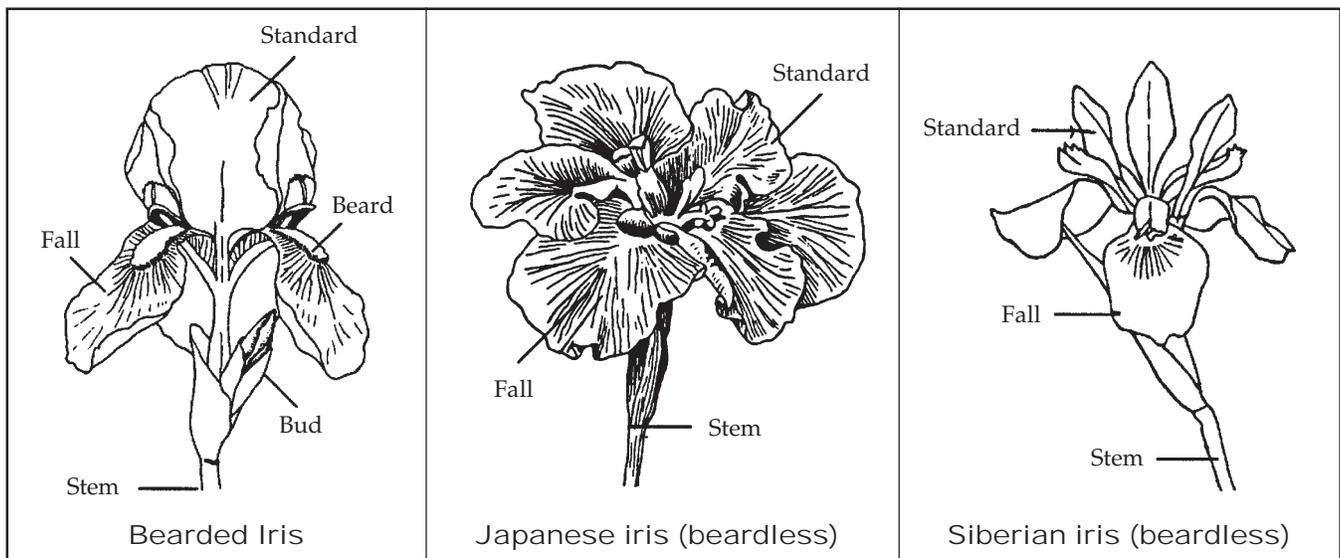


Horticulture Center
Demonstration & Community Gardens
at East Meadow Farm
832 Merrick Avenue
East Meadow, NY 11554
Phone: 516-565-5265

Iris Culture and Problems

Soil and Site

The culture of iris is relatively simple compared to many other garden plants. They all require a sunny location, particularly the bearded types. For the German iris, any good garden soil is suitable, provided it is well drained. The Japanese iris thrives on moist, rich soils and may be planted with success around ponds. It will, however, do well in other situations if the soil is fertile and abundant moisture is supplied. The Siberian iris is hardier than either of the others both in withstanding severe climatic conditions and the competition of other plants.



Planting

The established rhizomes of the **bearded iris** normally lie at the surface of the soil, half embedded in the earth. In planting, they should be covered with about 1 inch of soil and the earth packed solidly about them. As they become established, they grow to the surface. Other types of iris should be planted with the roots spread and covered with about 2 inches of well-firmed earth.

To maintain the bearded iris in good blooming condition, it is desirable to divide the clumps every third or fourth year. A fan set in July may send up flower stalks the following year. The clumps will increase the second year and be at their best the third year. In the fourth and fifth years, the fans compete with one another. They should be thinned out by removing a part of them so that they are spaced several inches apart or by

digging up the clump, dividing it, and resetting the rhizomes. Usually, it is necessary to dig up the clump, divide and reset it because of infestation with grass and weeds. If in overhauling the Iris bed you want to establish new flowering clumps rapidly, 3 or 4 of the fans may be set together to form a clump. In setting such clumps, the leafy end of the rhizomes should be set pointing outward from the center of the new clump.

Japanese and Siberian iris do not require frequent division. Clumps of Siberian iris remain in good condition for a dozen years or more. Sooner or later, however, the size and quality of the blossoms may deteriorate. They may become infested with borers or overgrown with grass and will benefit by division and replanting.

A-2-11 DWM/In reviewed RT 1/03

Building Strong and Vibrant New York Communities

Cornell Cooperative Extension in Nassau County provides equal program and employment opportunities.

Fertilization and Maintenance

The bearded iris will grow on relatively poor soil. On poor soil, however, plants will benefit from the use of a good garden fertilizer, such as a 5-10-5 formula, dug into the soil around the plants in early spring or just after they have bloomed. A small handful (1/3 cup) to a clump spread on the surface of the ground several inches from the base of the plant and mixed with the soil is satisfactory.

Weeds should be controlled by clean cultivation and pulling from among the rhizomes. Various kinds of grass are the most troublesome because they grow between the rhizomes and are difficult to remove. It is an advantage to have the plants free from grass, weeds or other crowding vegetation so the foliage and the rhizomes will not remain moist over long periods of time and favor the spread of fungus disease. Borer infestation is also favored by weedy plantings.

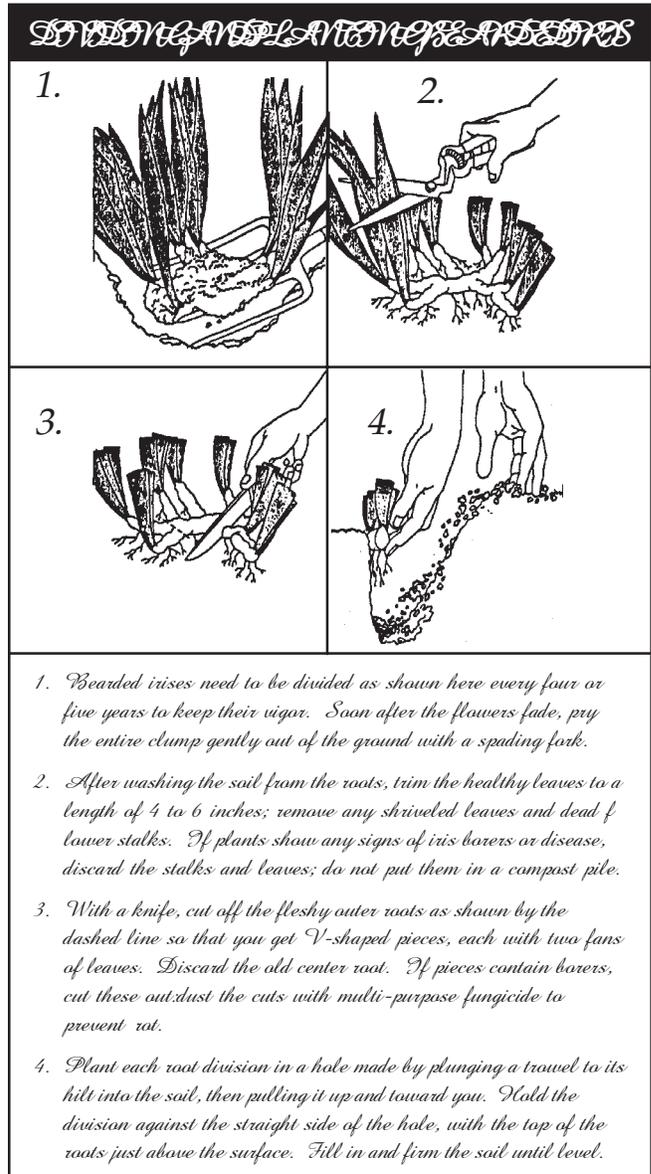
An important practice in the culture of the **bearded iris** is to clean up and discard all dead foliage, preferably in the fall. This foliage carries disease spores and insect eggs. Winter protection through most parts of New York State is unnecessary. Only in the most severe winters is there any severe damage, and then only when the plants are exposed without snow cover. A loose mulch of coarse straw or litter may be an advantage, provided it does not mat down on the rhizomes and keep them wet. Mulches afford cover for mice that may destroy the rhizomes. A mulch may be advisable if the iris plants have been planted in the fall and are not yet well-rooted.

Japanese iris thrives under more moist conditions than the bearded type and responds to more liberal applications of fertilizer. Either well-rotted manure or a commercial 5-10-5 fertilizer is valuable when placed around the plants in early spring and mixed with the soil. Compost or peat is useful in soils that lack organic material. If the weather is dry before the plants bloom in June, liberal watering is advisable. Cultivation is essential to keep down weeds although the danger of disease is apparently not so important as with the bearded iris. The growth of the Japanese iris clumps is relatively slow, but they should be divided occasionally as they become crowded.

Siberian irises are perhaps the easiest to grow of all. Once established they persist in spite of competition from weeds and grass. They do, however, respond to good garden culture; clumps that become over-sized should be divided and reset.

Propagation

Irises, except the bulbous types, are propagated by simple division of the rhizomes. The division of the **bearded iris** are called "fans" and consist of one of the fan-like clusters of leaves with a 2-to-3 inch-long section of the attached rhizomes. The plants are usually divided in early July just after they bloom. With a sharp spade, the individual fans may be dug and separated or the clump may be cut into sections of several fans. It is good practice to cut off one-half or two-thirds of the leaf surface at the time of transplanting, unless a clump is moved with a ball of earth. Divisions set in July form roots and new growth before winter.



Japanese and Siberian iris may be divided best in early spring, before growth starts. Later divisions during the spring and early summer can be made, but plants are more difficult to establish. Fall division is not satisfactory because of the danger of the plants heaving out of the ground during the winter. The clumps are dug up and cut into divisions with a heavy knife or sharp spade. Each division should have several tufts of leaves and as many roots as can be left attached in the cutting process.

The Bulbous Iris

The bulbous irises are most adapted to a climate with hot, dry summers and mild winters. Of its many species, only a few are satisfactory for growing in the northern states, and these are not well known to gardeners. In the very early spring, the dark purple flowers of *Iris reticulata* are attractive in the garden. Another hardy, early blooming species is the sky blue *Iris histrioides*. The later-blooming Spanish iris, *Iris xiphium*, is more showy and a good garden subject. The English iris, *Iris xiphoides*, is larger, later, and comes in a variety of attractive colors. The Dutch iris, of which the common greenhouse-forcing variety

Control

The most effective control of soft rot can be obtained during the summer when the plants are ready for division. At this time, the plants should be lifted and divided. All rotted portions of the rhizomes should be carefully cut out and destroyed. Before planting the rhizome, expose it to full sun and allow the cut area to dry. If the rot is extensive, it is best to destroy the rhizome. Plants should then be planted in a new location if possible.

Since the bacteria that cause soft rot are very susceptible to drying and sunlight, shallow planting with the upper half of the rhizome above the surface of the soil will aid considerably in preventing further trouble. A well-drained soil is desirable. Crowded or shaded situations should be avoided in all cases.

note A. Chemical pesticides are available. If you choose to use chemical pesticides, contact your local Cooperative Extension office for specific recommendations.

WHENEVER YOU USE A PESTICIDE,
ALWAYS READ THE LABEL AND FOLLOW
THE MANUFACTURER'S INSTRUCTIONS
AND RECOMMENDATIONS.

"This publication contains pesticide recommendations. Changes in pesticide regulations occur constantly and human errors are still possible. Some materials mentioned may no longer be available, and some uses may no longer be legal. All pesticides distributed, sold or applied in New York State must be registered with the New York State Department of Environmental Conservation (DEC). Questions concerning the legality and/or registration status for pesticide use in New York State should be directed to the appropriate Cornell Cooperative Extension specialist or your regional DEC office (631) 444-0340. Read the label before applying any pesticide. Cornell Cooperative Extension and its employees assume no liability for the effectiveness or results of any chemicals for pesticide usage. No endorsement of products is made or implied."