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SWEET POTATO (*Ipomoea batatas*)

Immediately remove your certified sweet potato slips from their box upon receipt. The slips may have a dry, wilted, or pale appearance when they arrive — this is normal. Slips may or may not have visible roots, but lack of visible roots will not impair viability or yield. Plant slips out as soon as possible after arrival, when the soil has warmed to 60–65°F/16–18°C. If planting must be delayed, wrap the root end in moist paper towels, keeping any leaves that are present and stems above the root nodes dry; place upright and keep at room temperature, out of direct sunlight and wind. Soak the slips by placing them in a jar of water for 1 hour per day; soaking for longer periods may induce rot. If planting must be delayed by a week or more, loosely plant the slips in sterile potting medium, keep moist, and place indoors or in a greenhouse. Gently lift out and separate slips when ready to plant.



Being tropical in origin, sweet potatoes require ample warmth over a long season (at least 4 frost-free months) to produce a marketable crop.

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SOIL REQUIREMENTS

Sweet potatoes grow best in warm, well-drained, sandy loam soils; slips planted into cool and/or poorly drained soil may rot. The ideal pH is about 6.5. High fertility is not required, but a loose sandy soil produces more uniform roots. Planting in raised beds can enhance soil warming, drainage, and root development. Many northern growers have found using black plastic mulch to be an effective growing practice. Form beds and cover beds with mulch 2–3 weeks before anticipated planting date to sufficiently warm the soil.

PLANTING

Plant slips so that at least 4–6" of the bottom end is buried in soil. Look for nodes of developing roots on the slip and try to ensure that all nodes are buried. If necessary, the slips can be planted sideways, 3–4" deep, but it is preferable to plant them bottom point down. Because the top growing point may not be present, it may or may not be obvious which end of the slip is the root end. Indicators of the root end include greater thickness and the presence of nodes that tend to root-out first. The bottom end can also be identified as the direction opposite to that in which any leaf petioles may be growing.

Plant slips 10–18" apart (wider spacing produces larger potatoes) in rows spaced 36–60" apart. The most common spacing is 12" apart in rows 36–42" apart.

It is critical to thoroughly water the slips around the stems immediately after planting and until established. This can take a week or more. The slips can dry out very quickly, especially when it is sunny, windy, or dry.

Keep young plants weed free with shallow cultivation or mulching. Once the sweet potato plants are actively growing, they will smother most weeds with a proliferation of runners.

Do not trim or cut off the runners — they act as secondary roots, pulling water and nutrients from the soil.

If growing in northern climates, apply row cover for the first several weeks after planting, and again in the fall before harvest, to extend the season by creating a warmer growing environment.

INSECT PESTS AND DISEASES

Sweet potatoes generally have few insect pests. Control may be necessary for flea beetles, Japanese beetles, sweet potato leaf beetles, and wireworms. Row covers will prevent beetles from feeding on young plants. Wireworm damage is best prevented by avoiding fields that were grass the prior year. Sweet potato weevils may be a problem in the southern United States and can be prevented with crop rotation and removal of crop residue. Avoid diseases such as scurf with crop rotation and by removing all plant debris after harvest.

HARVEST

Dig roots in fall before any hard frosts occur and before soil temperatures drop to 50°F/10°C. If plants sustain frost, harvest roots as soon as possible — frost damage will travel downward from the foliage and stem to affect the roots. Cut back vines by hand or with a mower, then dig roots by hand with a spading fork or mechanically with a bed lifter. Handle carefully to avoid injuring the skins.

STORAGE

Sweet potatoes must be cured before storing to toughen skins and improve eating quality. Brush loose soil from the roots and cure in a warm (85°F/29°C), dark, well-ventilated location with 85% relative humidity for 4–7 days. After curing, store in a cool (60°F/16°C), dark location and avoid any unnecessary handling. Do not allow the storage temperature to drop below 50°F/10°C, as this will injure the roots. For optimal sugar content, store the roots for an additional 3–4 weeks after curing and before eating. Properly handled roots can be stored for 7 months or more.

LEARN MORE

See [Tips for Starting Your Sweet Potato Slips](#) in our Vegetable Grower's Library for additional recommendations and photos.

NOTE

Mahon Yam™ is protected under Plant Patent 20,666. A plant patent excludes reproduction of the protected variety unless authorized by the patent holder.

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