**Introduction**

This dependable, easy-to-grow fern produces great masses of long, narrow, pale green leaves, creating beautiful hanging baskets or gently arching out of raised containers (Fig. 1). But sword fern also makes a wonderful ground cover, creating a dense, tropical effect, its 2- to 3-foot high, graceful fronds quickly spreading over the ground by means of thin, green runners. While somewhat invasive in ideal locations, sword fern can be controlled by thinning, the removed plants transplanting extremely well. It may be best to confine a grouping of plants with an edging such as plastic or metal to prevent spreading into unwanted areas.

**General Information**

- **Scientific name:** *Nephrolepis exaltata*
- **Pronunciation:** nelf-FRAHL-lepp-piss eck-sahl-TAY-tuh
- **Common name(s):** Boston fern, sword fern
- **Family:** Davalliaceae
- **Plant type:** perennial; herbaceous
- **USDA hardiness zones:** 8B through 11 (Fig. 2)
- **Planting month for zone 8:** year round
- **Planting month for zone 9:** year round
- **Planting month for zone 10 and 11:** year round
- **Origin:** native to North America
- **Uses:** mass planting; container or above-ground planter; naturalizing; hanging basket; suitable for growing indoors
- **Availability:** generally available in many areas within its hardiness range

**Description**

- **Height:** .5 to 4 feet
- **Spread:** depends upon supporting structure
- **Plant habit:** upright
- **Plant density:** moderate
- **Growth rate:** fast
- **Texture:** fine

Figure 1. Boston fern

Figure 2. Shaded area represents potential planting range.

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1. This document is FPS427, one of a series of the Environmental Horticulture Department, UF/IFAS Extension. Original publication date September 1999. Reviewed February 2014. Visit the EDIS website at [http://edis.ifas.ufl.edu](http://edis.ifas.ufl.edu).
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**Nephrolepis exaltata** Boston Fern, Sword Fern

**Foliage**

Leaf arrangement: most emerge from the soil, usually without a stem
Leaf type: even-pinnately compound
Leaf margin: serrate; undulate
Leaf shape: lanceolate; ovate
Leaf venation: none, or difficult to see
Leaf type and persistence: semi-evergreen
Leaf blade length: 2 to 4 inches
Leaf color: green
Fall color: no fall color change
Fall characteristic: not showy

**Invasive potential**: potentially invasive
**Pest resistance**: long-term health usually not affected by pests

**Use and Management**

Growing in partial to deep shade, sword fern needs moist but well-drained soils until established but can later survive periodic bouts of dry weather. Light fertilizations are recommended during the growing season. Thick clumps can be stimulated by severe pruning, new fronds quickly sprouting from the roots. Plant on 12- to 24-inch centers for quick establishment.

Many cultivars are available for leaf structure, height and growth rate. ‘Bostoniensis’ is the classic indoor fern, with a spreading and arching growth habit; ‘Fluffy Ruffles’, ‘Rooseveltii’, and ‘Whitmanii’ all have more finely cut and feathery fronds.

Propagation is easily done by division of the clumps.

**Flower**

Flower color: no flowers
Flower characteristic: no flowers

**Fruit**

Fruit shape: no fruit
Fruit length: no fruit
Fruit cover: no fruit
Fruit color: no fruit
Fruit characteristic: no fruit

**Trunk and Branches**

Trunk/bark/branches: not applicable
Current year stem/twig color: not applicable
Current year stem/twig thickness: not applicable

**Culture**

Light requirement: plant grows in part shade/part sun; plant grows in the shade
Soil tolerances: occasionally wet; clay; sand; acidic; slightly alkaline; loam
Drought tolerance: moderate
Soil salt tolerances: poor
Plant spacing: 24 to 36 inches

**Other**

Roots: not applicable
Winter interest: no special winter interest
Outstanding plant: not particularly outstanding