

Protocol Information

USDA NRCS - Appalachian Plant Materials
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Plant Materials Program

Family Scientific Name: **Oleaceae**

Family Common Name: **olive**

Scientific Name: *Forestiera ligustrina* (Michx.) Poir.

Common Name: **upland swampprivet**

Species Code: **FOLI**

Ecotype: **Stones River**

General Distribution: **Upland swampprivet is commonly found in lowland areas throughout Kentucky, Tennessee, and South Carolina south to Florida and westward to Louisiana and Texas.**

Known Invasiveness: **none**

Propagation Goal: **Plants**

Propagation Method: **Seed**

Product Type: **Container (plug)**

Stock Type: **1 gallon container stock**

Time To Grow: **1 Years**

Target Specifications: **A second spring seedling ranging in height from 6" to 12" and having a compact, well developed root system.**

Propagule Collection: **Mature fruit was hand harvested from populations of *Forestiera ligustrina* growing within the confines of Stones River National Battlefield.**

Propagule Processing: **The fleshy pericarp was separated from the seed by hand using a corrugated hard rubber rubbing board. Depulped seed was washed with tap water and allowed to air dry before being placed in cloth seed bags and stored in a temperature and humidity controlled environment.**

Pre-Planting Treatments: **Subjecting *Forestiera ligustrina* seeds to a 14 hour light period followed by an 8 hour period of darkness with a 12**

hour period of 25 degrees Centigrade followed by 12 hours of 15 degrees Centigrade resulted in approximately 70 percent germination within 7 to 10 days. A moistened commercially available potting soil mix was used as germinating media.

Establishment Phase: Seedlings were removed from the germination media and transplanted into nursery trade 1 gallon pots filled with a commercial potting mix. Potted seedlings were maintained in a greenhouse environment maintained under natural lighting and at a minimum of 65 degrees Fahrenheit throughout the establishment phase.

Length of Establishment Phase: 1-2 months

Active Growth Phase: Established plants were moved to a structure which provided a minimum of 50 percent shade. Established plants required little maintenance other than provision of at least 1 inch of water per week and monthly fertilization with a water soluble general purpose fertilizer.

Length of Active Growth Phase: 2-6 months

Hardening Phase: Minimal harding is required, since the plants were produced in a shade house under natural climatic conditions.

Length of Hardening Phase: 1-2 weeks

References: USDA, NRCS. 2013. The PLANTS Database (<http://plants.usda.gov>, 20 June 2013). National Plant Data Team, Greensboro, NC 27401-4901 USA.

Citation:

Vandevender, John 2013. Propagation protocol for production of container *Forestiera ligustrina* (Michx.) Poir. plants (1 gallon container stock); USDA NRCS - Appalachian Plant Materials Center, Alderson, West Virginia. In: Native Plant Network. URL: <http://www.nativeplantnetwork.org> (accessed 25 June 2013). Moscow (ID): University of Idaho, College of Natural Resources, Forest Research Nursery.