

# Protocol Information

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Family Scientific Name: **Vitaceae**

Family Common Name: **Grape**

Scientific Name: ***Vitis arizonica* Engelm.**

Common Name: **Canyon Grape**

Species Code: **VIAR2**

General Distribution: **AZ, NM, NV, TX, UT**

Propagation Goal: **Plants**

Propagation Method: **Seed**

Product Type: **Plug + (container-field grown hybrids)**

Stock Type: **3" x 10" Plant Bands**

Time To Grow: **8 Weeks**

Target Specifications: **1' length vine. Firm root ball.**

Propagule Collection: **Seeds were collected in the Tonto National Forest.**

Propagule Processing: **Whole dried fruits were placed in a Forsberg Seed Scarifier outfitted with fine grain sandpaper. The Forsberg was run for approximately 10 seconds. The resulting material was cleaned with hand screens to separate fruit skin from seed.**

Pre-Planting Treatments: **Seed is scarified during seed cleaning with the Forsberg Seed Scarifier.**

Growing Area Preparation/

Annual Practices for Perennial Crops: **Propagation occurs in a greenhouse set at day temperatures of 75F and evening temperatures of 68F. Irrigation is provided by overhead sprinklers and varies depending on growth phase. Growing media: Sunshine Mix #1 and perlite in a 1:1 ratio.**

Establishment Phase: **Seed is placed approximately 1/4 inch below the soil**

**surface in propagation trays. The trays receive 2 minutes of water 3 times a day from automated overhead sprinklers to keep the growing media moist. No supplemental light is provided. Germination occurs in approximately 12 days. Seedlings remain in propagation trays until they reach at least 2 inches in height.**

**Length of Establishment Phase: 4 weeks**

**Active Growth Phase: Seedlings are transplanted into 3" x 10" plant bands containing the same growing media as they were germinated in. Irrigation frequency is reduced to one five minute overhead sprinkler application per day. After approximately one month, seedlings are moved to the shadehouse. Irrigation in the shadehouse is provided by an automated overhead system and occurs once per day for approximately 20 minutes.**

**Length of Active Growth Phase: 4 months**

**Hardening Phase: Hardening begins in late fall as ambient temperatures begin to decrease. Irrigation frequency is incrementally decreased to correspond with dropping temperatures. Seedlings are considered hardened once leaves have been shed. Automatic watering is discontinued and hand watering is used to ensure the root ball of the seedling stays moist throughout winter.**

**Length of Hardening Phase: 2 months**

**Citation:**

Dial , Heather Lynn 2012. Propagation protocol for production of plug + transplants of *Vitis arizonica* Engelm. plants (3" x 10" Plant Bands); USDA NRCS - Tucson Plant Materials Center, Tucson, Arizona. In: Native Plant Network. URL: <http://www.nativeplantnetwork.org> (accessed 24 July 2012). Moscow (ID): University of Idaho, College of Natural Resources, Forest Research Nursery.