Plant Propagation Protocol for Vaccinium corymbosum

ESRM 412 – Native Plant Production Protocol URL: https://courses.washington.edu/esrm412/protocols/VACO.pdf



TAXONOMY			
Plant Family			
Scientific Name	Ericaceae		
Common Name	Heath (Reed).		
Species Scientifi	Species Scientific Name		
Scientific Name	Vaccinium corymbosum L.		
Varieties	var. albiflorum (Hook.) Fernald		
	var. glabrum A. Gray		
Sub-species	N/A		
Cultivar	N/A		
Common Synonym(s)	Cyanococcus corymbosus (L.) Rydb.		
	Cyanococcus cuthbertii Small		

	Vaccinium constablaei A. Gray
	Vaccinium corymbosum L. var. albiflorum (Hook.) Fernald
	Vaccinium corymbosum L. var. glabrum A. Gray (USDA).
Common Name(s)	High-bush blueberry
	High-bush blueberry
	Northern high-bush blueberry
	Tall blueberry
	Rabbit-eye blueberry (US).
Species Code (as per USDA Plants database)	VACO
	GENERAL INFORMATION
Geographical range	CONTROL CONTRO

Ecological distribution	VACO Best grown in acidic (pH of 4.8 to 5.2), medium to wet, well-drained soils in full sun to part shade (Missouri).
Climate and elevation range	Highbush blueberry occupies numerous habitats but seldom occurs as community dominant. Two habitats, where it occurs as a dominant or co- dominant, are open swamps or bogs and high-elevation balds (US).
Local habitat and abundance	N/A
Plant strategy type / successional stage	Not drought tolerant Adapted to fire Medium shade tolerance (Smolka).
Plant characteristics	Deciduous, twiggy shrubs
	Shape is rounded to irregular Branching is upright-spreading

	6' to 12' tall with equal width (University of Connecticut).
	PROPAGATION DETAILS
Ecotype	N/A
Propagation Goal	Cuttings (Core).
Propagation Method	Vegetative (Core).
Product Type	Seeds (Core).
Stock Type	N/A
Time to Grow	N/A
Target Specifications	Hardwood cuttings (Farrell).
Propagule Collection	Spring – typically March (Farrell).
Instructions	Select disease and pest free mother plant. Once it is found, a branch
	should be taken that is from the previous year's growth that is solid and
	woody. The branch should be cut from the basal area of the plant, should
	have few leaf buds, and if preferably no fruit buds, as they will interfere
	with vegetative growth. Select a branch that has a width of about $0.6 - 07$
	cm, or about the width of a pencil. Use sharp sterile shears to make a
	clean cut through the plant tissue, being careful not to damage the tissue
	by crushing it because this would interfere with root formation or maybe
	even prevent it. Cuts should be made so that the cutting is $12 - 30$ inches
	(Farrell).
Propagule Processing/Propag ule Characteristics	Produce cuttings in early summer (Royal).
Pre-Planting	Cuttings can be stored from 35-40 F with a very high humidity for
Propagule Treatments	several months. Hardwood cuttings of Vaccinium corymbosum have

	proved to be relatively unresponsive to auxin rooting hormone (Farrell).
Growing Area Preparation /	Cuttings can be directly potted about one inch deep into a moistened soil
Annual Practices for Perennial	medium that has adequate water and nutrient capacity with an acidic pH
Crops	(Farrell).
Establishment Phase Details	N/A
Length of Establishment Phase	Fall to winter (PFAF). About 6 months (PFAF).
Active Growth Phase	N/A
Length of Active Growth Phase	Spring to summer (PFAF). About 6 months (PFAF).
Hardening Phase	N/A
Length of Hardening Phase	Fall to winter (PFAF). About 6 months (PFAF).
Harvesting, Storage and Shipping	Store in a very humid, 35-40F location (Farrell).
Length of Storage	Several months (Farrell).
Guidelines for Outplanting / Performance on Typical Sites	Allow 4-5ft between Blueberry plants (White).
Other Comments	Best to remove flowers from plants in the year of planting and in the
	following year so as to prevent fruit set and to encourage new vegetative
	growth. Prune as needed in late winter beginning in the third year after
	planting (Missoursi).
	INFORMATION SOURCES
References	- Royal Horticulural Society. "Vaccinium Corymbosum." <i>RHS Home Page / RHS Gardening</i> . N.p., 2014. Web. 21 May 2014.
	- Reed College. "Family: Ericaceae." Family: Ericaceae. Web. 21 May 2014.

	 US Forest Service. "Vaccinium Corymbosum." <i>Index of Species Information</i>. Web. 21 May 2014. Missouri Botanical Garden. "Vaccinium Corymbosum." <i>Vaccinium Corymbosum - Plant Finder</i>. Web. 21 May 2014. University of Connecticut. "Vaccinium Corymbosom." <i>Vaccinium Corymbosom</i>. N.p., n.d. Web. 21 May 2014. PFAF. "Vaccinium Corymbosum L." <i>Vaccinium Corymbosum High-Bush Blueberry PFAF Plant Database</i>. Web. 21 May 2014. Farrell, Liam. "Vaccinium Corymbosum Propagation by Cutting." <i>Deciduous Shrub Cutting Propagation Blueberry Bush.</i>, 9 Feb. 2014. Web. 21 May 2014. Smolka, Alexander. "Vaccinium Corymbosum: Lowbush Blueberry." Vaccinium Corymbosum: Lowbush Blueberry. Clemson University, 2014. Web. 21 May 2014. Core, D. Brian. "Cultivation Notes: Highbush Blueberry." The Rhote Island Wild Plant Society, March 1996. Web. 21 May 2014. White Flower Farm. "Growing Guide Blueberries (Vaccinium)." Web.
	- White Flower Farm. "Growing Guide Blueberries (Vaccinium)." Web. 21 May 2014.
Other Sources Consulted	 Genome Database for Vaccinium. "Vaccinium corymbosum." North Carolina State University and Washington State University. Web. 21 May 2014. USA National Phenology Network. "Vaccinium corymbosum." Web. 21 May 2014.
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