Plant Propagation Protocol for Vaccinium myrtillus ESRM 412 – Native Plant Production



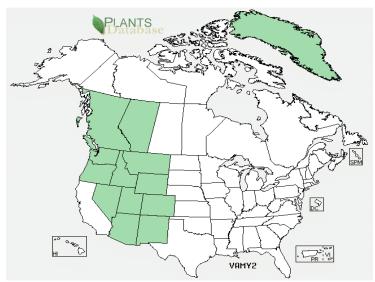
Photo courtesy of http://nadjeeb.files.wordpress.com/2009/11/vaccinium myrtillus.jpg

	TAXONOMY		
Family			
Names			
Family	Ericaceae (1)		
Scientific			
Name			
Family	Heath family (1)		
Common			
Name			
Scientific			
Names			
Genus	Vaccinium (1)		
Species	myrtillus (1)		
Species	L. (1)		
Authority			
Variety	Vaccinium myrtillus var. oreophilum (Rydb.) Dorn (2)		
Sub-			
species			
Cultivar			
Authority			
for			
Variety/S			
ub-			
species Common	Vaccinium myrtillus L. var. oreophilum (Rydb.) Dorn,		
Synonym	Vaccinium myrtillus L. var. oreopinium (Kydb.) Dorn, Vaccinium myrtillus L. ssp. oreophilum (Rydb.) A. Love & D. Love & Kapoor (1)		
(s)	raceman myramas L. ssp. orcopinium (Kydo.) A. Love & D. Love & Kapoor (1)		
(include			
full			

scientific		
names		
Common	Myrtle blueberry, Myrtle whortleberry, Whortleberry (2)	
Name(s)	Dwarf bilberry	
Species	VAMY 2 (1)	
Code (as		
per		
USDA		
Plants		
database)		
CENEDAL INCODMATION		

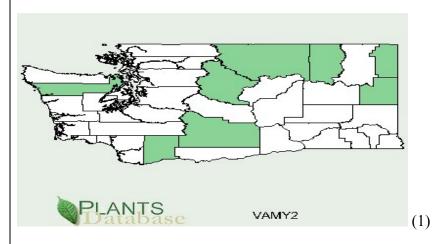
GENERAL INFORMATION

Geographic al range



See U.S. county distributions (when available) by clicking on the map or the linked states below:

 ${f USA}$ (AZ, CO, ${f \underline{ID}}$, MT, NM, NV, OR, UT, WA, WY), ${f CAN}$ (AB, BC), ${f DEN}$ (GL) (1)



Ecological Forest vegetation (3)

distribution	
Climate	High altitudes (4)
and	Tilgh ammucs (¬)
elevation	
range	
Local	Common in the understory of coniferous forests of the Rocky Mountains. Occurs
habitat	in abundance in stands made up of Subalpine fir, Douglas fir, Engelmann spruce
and	and the White fir (3)
abundanc	
	Commonly associated plants include Thimbleberry, Northern twinflower,
e; may include	Kinnikinnick, Mountain snowberry (3)
commonl	Killinkillinek, Moulitaili Silowocity (3)
	Grows abundantly in damp, acidic soils, damp woods and sandy or rocky soil
y associate	surfaces (4)
d species	Surfaces (T)
a species	Grows in forest openings, mid-elevations in the mountains (5)
Plant	Perennial species (1)
strategy	1 oroninar species (1)
type /	
successio	
nal stage	
Plant	Small shrub with blue-black colored berries (4)
character	Sinai sinas wini siae siaek esisted serries (7)
istics	Deciduous with many branches. Leaves are ovate to elliptic-lanceolate, light
	green, serrulate with veins on the bottom of the leaf. Flowers are 5-lobed corolla
	with pink, urn-shaped petals (5)
	F , F (-)
	PROPAGATION DETAILS
Ecotype	Lodgepole pine forest, Marias Pass, 5250 ft (6)
Propagatio	Plants (6)
n Goal	
Propagatio	Vegetative (6)
n Method	
Product	Container (plug) (6)
Type	
Stock	800 ml container (6)
Type:	
Time to	15 months (6)
Grow	
Target	Stock type: Container cutting
Specifica	Height: 6cm
tions	Caliper: 4mm
	Root system: firm plug in 800 ml container (6)
Propagule	Pre-rooting using softwood stem cuttings collected in mid June (6)
Collectio	
n	

Propagule	Keep cuttings moist and in refrigeration (6)
Processin	
g/Propag	
ule	
Character	
istics	
Pre-	Re-cut softwood cuttings and remove terminal buds. Place in fungicide for couple
Planting	minutes and place in bed with at least 2 nodes below the surface of the rooting
Propagul	medium (6)
e	
Treatmen	
ts	
Growing	Outdoor mistbed with frequency adjusted to outdoor temperature and wind (6)
Area	
Preparati	Rooting medium is 50% perlite and 50% peat. After cutting are potted, move to
on /	outdoor shadehouse for 4 weeks and then full sun exposure (6)
Annual	
Practices	
for	
Perennial	
Crops	
Establishm	15 weeks (6)
ent Phase	
Length of	15 weeks (6)
Establish	13 WEEKS (0)
ment	
Phase	(1 1St 12 1 2nd (()
Active	6 weeks 1 st year, 12 weeks 2 nd year (6)
Growth	
Phase	C 1 1st 10 1 and (C)
Length of	6 weeks 1 st year, 12 weeks 2 nd year (6)
Active	
Growth	
Phase	
Hardening	Cuttings are irrigated prior to winterization (6)
Phase	
Length of	4 weeks (6)
Hardenin	
g Phase	
Harvesting,	Harvest in September and store overwinter in outdoor nursery under insulating
Storage	foam cover and snow for 5 months (6)
and	
Shipping	

(of	
seedlings	
)	
Length of	1.3 years (6)
Storage	1.5 9 0 (0)
Guidelines	Respond well to nursery cultivation, rooting %: 48% in 14 weeks (6)
for	
Outplanti	
ng /	
Performa	
nce on	
Typical	
Sites	
Other	Fruit collected in August and seeds are cleaned by macerator and screened (6)
Comments	
	Store seeds for up to 12 years in sealed containers, physiological dormancy (6)
	INFORMATION SOURCES
References	(1). Vaccinium myrtillus L. USDA Plant Database. May 17, 2010
	http://www.plants.usda.gov/java/stateSearch?searchTxt=Vaccinium+myrtillus&sea
	<u>rchType=Sciname&searchOrder=1&imageField.x=0&imageField.y=0</u> .
	(2). Vaccinium myrtillus L. Integrated Taxonomic Information System. May 17,
	2010 http://www.itis.gov/index.html.
	(2) Species Vessinium muntillus Index of Species Information May 17, 2010
	(3). Species: Vaccinium myrtillus. Index of Species Information. May 17, 2010 http://www.fs.fed.us/database/feis/plants/shrub/vacmyr/all.html .
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	(4). Bilberry: Vaccinium myrtillus. May 17, 2010
	http://www.herbs.2000.com/herbs/herbs bilberry.htm.
	http://www.neros.2000.com/neros_onoerry.num.
	(5). Vaccinium myrtillus. The Burke Museum of Natural History and Culture.
	May 17, 2010
	http://biology.burke.washington.edu/herbarium/imagecollection.php?Genus=Vacci
	nium&Species=myrtillus.
	(6). Protocol Information. Native Plant Network. May 17, 2010
	http://www.nativeplantnetwork.org/network/ViewProtocols.aspx?ProtocolID=105,
	<u>1438</u> .
Other	
Sources	
Protocol	Chelsey Jay
Author	

Date	05/17/10
Protocol	
Created	
or	
Updated	

Note: This template was modified by J.D. Bakker from that available at: http://www.nativeplantnetwork.org/network/SampleBlankForm.asp