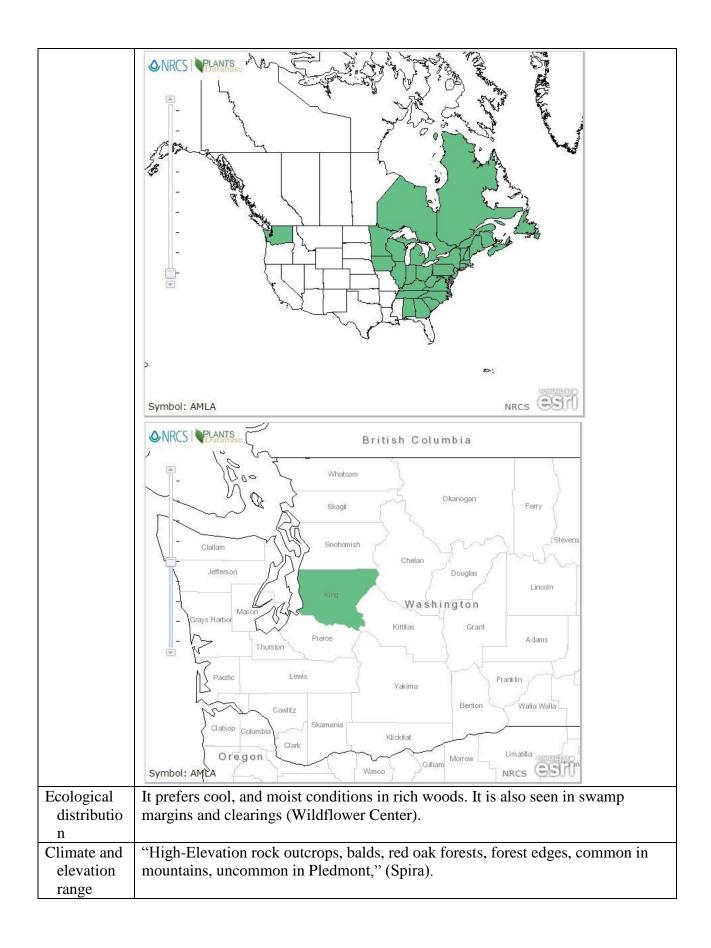
Plant Propagation Protocol for [Amelanchier laevis]

ESRM 412 – Native Plant Production

Protocol URL: https://courses.washington.edu/esrm412/protocols/[AMLA.pdf]

Amelanchier laevis (Portulacaceae)

	TAXONOMY		
Plant			
Family			
Scientific	Rosaceae		
Name			
Common	Rose Family		
Name			
Species			
Scientifi			
c Name			
Scientific	Amelanchier laevis Wiegand		
Name			
Varieties	Amelanchier laevis Wiegand var. nitida (Wiegand) Fernald		
Sub-species			
Cultivar			
Common			
Synonym(
s)			
Common	Allegheny serviceberry,		
Name(s)	Allegheny service-berry,		
Chasins	Serviceberry AMLA		
Species Code (as	AMLA		
per USDA			
Plants			
database)			
GENERAL INFORMATION			
Geographica	It is commonly distributed around the Eastern parts of North America and Canada		
l range	with Native appearances in Washington as well (USDA).		



Local	Woodland garden canopy, swamp edges, woodland edges, dry to moist thickets;
habitat	Elevation 1055 Meters (Plants for a Future).
and	
abundance	
Plant	Very easy to grow with year round interest. It requires Medium water use with
strategy	soil moistures of dry or moist. Amelanchier laevis can thrive in Full Sun or Shade
type /	and Part Shade. Sensitive to drought, disease and insect problems (Spira).
succession	
al stage	
Plant	Deciduous and Perennial Shrub growing up to 30 feet by 20 feet. Serviceberry is
characteris	a multi-trunked tree with dense branches. White flowers with Summer berries that
tics	turn from Red to Black. The foliage has blue-green coloring during summer and
ties	can turn orange or red in the fall (Spira).
	PROPAGATION DETAILS
Ecotype	
Propagation	Seed: Seed is best propagated when it is fully formed and 'green' (Plants for a
Goal	Future).
Propagation	Seed: It is best before the seed coat has hardened and then must be sown
Method	immediately into outdoor pots, alternatively in a cold frame.
Product	Seed: 20 cm tall in a pot/container (plug)
Type	
Stock Type	
Time to	Seed: If a seed is retrieved in early autumn, it must receive 4 weeks stratification
Grow	in warm temperate before it can be left out in the winter. From here, it will
	germinate in the spring. Otherwise, it is a very slow germinator and can take up to
	18 months or more (Plants for a Future).
Target	Seed: When the seed is considered large enough to handle, you can pluck the
Specificati	seeds and place them into individual pots. They can be moved into a permanent
ons	location when they are 20 cm or taller (Plants for a Future).
ons -	Totalion when they are 20 cm of tailer (Fiants for a factor).
Propagule	Seed: When the seed is considered large enough to handle, you can pluck the
Collection	seeds and place them into individual pots. They can be moved into a permanent
Instruction	location when they are 20 cm or taller.
S	Totalion when they are 20 cm of tailor.
Propagule	Seeds per Pound: 84,000
Processing	Seed Period: Begin Spring, End Summer
/Propagule	beed I chod. Degin byring, Did bulliner
Characteri	
stics	
	It is host howycoted when the good is fully formed but must be saven before the
Pre-Planting	It is best harvested when the seed is fully formed but must be sown before the
Propagule	seed coat has hardened. They must be sown immediately after into outdoor pots
Treatment	or a cold frame. Seed extraction is typically maceration of the fruit and washing the seeds over screens, air dried, and stores in a sealed, refrigerated container.
S	

	Seeds are stratified for 120 days and germinate at 21 degrees C (Baskin).	
Growing	Minimum temperature requirements of -38 degrees F	
Area	Precipitation Range: 34-60	
Preparatio	Root depth 30 inches	
n / Annual	Minimum 85 Frost Free days	
Practices	Planting Density per Acre: 700 minimum, 1200 Maximum	
for		
Perennial		
Crops		
Establishme		
nt Phase		
Details		
Length of	Seeds may take 18 months or more to germinate. Grow seedlings for 2 years in	
Establish	seedbed. Layering in spring takes 18 months. 2 years of sucker growth before	
ment	removal.	
Phase		
Active	Mature height of 35 feet takes about 20 years	
Growth	, , , , , , , , , , , , , , , , , , ,	
Phase		
Length of	Spring and Summer	
Active		
Growth		
Phase		
Hardening	Hardening phase takes place during the Fall and Winter after the Growth Period	
Phase	ends in the Summer.	
Length of		
Hardening		
Phase		
Harvesting,		
Storage		
and		
Shipping		
Length of	Air dry and store in sealed container refrigerated for up to 5 years (Wildflower	
Storage	Center).	
C: 1-1:	Ch - w 1'f w - w 1 h - '- h - f 25 ft - t - w - t - w 20 ft - w 1 h	
Guidelines	Short lifespan and height of 35 ft at mature age 20 ft wide	
for		
Outplantin		
g / Porformen		
Performan		
ce on Typical		
Sites		
Other		
Comments		
Comments	INFORMATION SOURCES	
INFUNIVATION SOUNCES		

References	"Amelanchier laevis Information from NPGS/GRIN." Amelanchier Laevis Information from NPGS/GRIN. USDA, 25 Mar. 2011. Web. 26 Apr. 2015. Baskin, Carol, and Jerry Baskin. "Protocol Information." Protocol Information.
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Other	
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Protocol	Arthur Ung
Author	04/26/15
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Created or	
Updated	