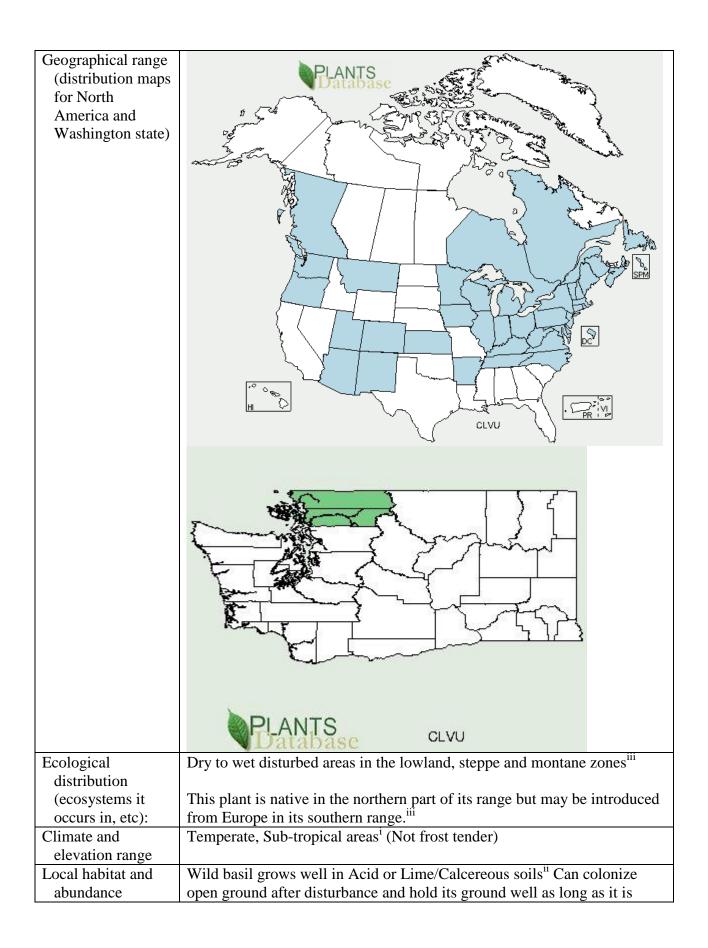
## **Plant Propagation Protocol for** [Clinopodium Vulgare] ESRM 412 – Native Plant Production

	TAXONOMY		
Family Names			
Family Scientific	Lamiaceae		
Name:			
Family Common	Mint Family		
Name:			
Scientific Names			
Genus:	Clinopodium		
Species:	Vulgare		
Species Authority:	L.		
Variety:			
Sub-species:			
Cultivar:			
Authority for			
Variety/Sub-			
species:			
Common	Calamintha vulgaris (L.) Halácsy, non Clairv.		
Synonym(s)	Calamintha clinopodium		
	Clinopodium vulgare L. var. neogaea (Fernald) C.F. Reed		
	Satureja vulgaris (L.) Fritsch		
	Satureja vulgaris (L.) Fritsch var. diminuta (Simon) Fernald & Wiegand		
Common Name:	Wild Basil		
Species Code (as	CLVU		
per USDA Plants			
database):			
GENERAL INFORMATION			



	undisturbed.iv
Plant strategy type /	Weedy colonizer
successional stage	
Plant characteristics (life form (shrub, grass, forb), longevity, key characteristics, etc)	Clinopodium Vulgare is a native perennial forb that grows in a number of different habitats. Although it is considered native to its northern range, it may have been introduced from Europe in its lower range. iii
	Wild Basil has pink to violet flowers that bloom from June to September. Flowers are strongly bilobed, the upper petal being rooflike. The Calyx of this plant is covered in white hair. Flowers are arranged on the leaf axils up and down the square shaped stem. Distinctive Basil smell when leaves are crushed. Stands 9-18" tall.
	iv
	PROPAGATION DETAILS
Ecotype:	
Propagation Goal	Seeds, Cuttings
(Options: Plants,	
Cuttings, Seeds,	
Bulbs, Somatic	
Embryos, and/or	
Other	
Propagules):	
Propagation Propagation	Seed
Method (Options:	Secu
Seed or	
Vegetative):	Container (Dlye)
Product Type	Container (Plug)
Stock Type:	
Time to Grow	Germination takes place within 2 weeks, ready to be outplanted late spring
(from seeding	or early summer, as long as they are protected from frost <sup>1</sup> Can be stored
until plants are	in greenhouse for a year to allow adequate root development. vii
ready to be	

outplanted):	
Target	Well-established root system plug
Specifications	The distinction is a second program pr
(size or	
characteristics of	
target plants to be	
produced):	
Propagule Propagule	Whole plant can be harvested when flowering begins in June. Allow
Collection (how,	seedheads to dry on plants; remove and collect seeds <sup>v</sup>
when, etc):	became to dry on plants, femove and concer seeds
Propagule Propagule	Seeds can be stored if properly cleaned (very small)
Processing/Propa	2500 seeds per gram <sup>v</sup>
gule	2500 seeds per gram
Characteristics	
Pre-Planting	
Propagule	
Treatments:	
Growing Area	Grow in cold frame or greenhouse until plants are large enough to be
Preparation /	outplanted. Plant singles with 9-12 in. spacing <sup>vi</sup>
Annual Practices	outplanted. I failt singles with 7-12 iii. spacing
for Perennial	
Crops:	
Establishment	Cover seed with very thin layer of soil <sup>vii</sup>
Phase (from	Cover seed with very thin layer of son
seeding to	
germination):	
Length of	2 weeks <sup>vii</sup>
Establishment	2 WEEKS
Phase:	
Active Growth	Transplant germinants into individual pots and continue growth in
Phase (from	greenhouse or cold frame until roots have developed enough to outplant vii
germination until	greenhouse of cold frame until foots have developed enough to outplant
plants are no	
longer actively	
growing):	
Length of Active	
Growth Phase:	
Hardening Phase	
(from end of	
active growth	
phase to end of	
growing season;	
primarily related	
to the	
development of	
cold-hardiness	
cora-maramess	

and preparation	
for winter):	
Length of	
Hardening Phase:	
Harvesting, Storage	
and Shipping (of	
seedlings):	
Length of Storage	
(of seedlings,	
between nursery	
and outplanting):	
Guidelines for	Must be protected from frost, sow in cold frame for springtime planting
Outplanting /	
Performance on	
Typical Sites	
Other Comments	Vulnerable to freezing, sow indoors before last frost or directly sow after
(including	last frost. <sup>x</sup>
collection	
restrictions or	
guidelines, if	
available):	
	INFORMATION SOURCES
References (full	i) W, Poole. Robert. The Natural History of North America. 20 04 2011
citations):	(http://www.nearctica.com/flowers/lamia/Cvulgare.htm.)
	ii) VIRBOGA. The Virtual Botanic Garden. 17 10 2010. 20 April 2011
	(http://www.virboga.de/Clinopodium_vulgare.htm).
	iii) Klinkenberg, Brian. E-Flora BC: Electronic Atlas of the Plants of
	British Columbia. 2010. 20 April 2011
	(http://linnet.geog.ubc.ca/Atlas/Atlas.aspx?sciname=Clinopodium%20vul
	gare).
	iv) Emorsgate Seeds. 20 April 2011
	(http://wildseed.co.uk/species/view/39)
	v) Johnson, Lady Bird. <u>Lady Bird Johnson Wildlflower Center.</u> 2011. 20
	April 2011
	(http://www.wildflower.org/plants/result.php?id_plant=CLVU).
	vi)Dave's Garden: Plant Files. 2011. 20 April 2011
	(http://davesgarden.com/guides/pf/go/61939/).

	vii) L. <u>Plants For A Future.</u> 2011. 20 April 2011 (http://www.pfaf.org/user/Plant.aspx?LatinName=Clinopodium%20vulgar e).
Other Sources	
Consulted (but	
that contained no	
pertinent	
information) (full	
citations):	
Protocol Author	Cory Burk
(First and last	
name):	
Date Protocol	04.20.2011
Created or	
Updated	
(MM/DD/YY):	