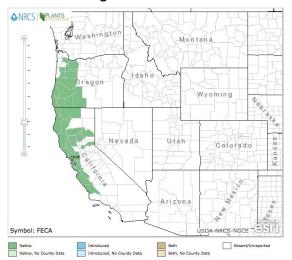
Plant Propagation Protocol for Festuca Californica

ESRM 412 – Native Plant Production Spring 2016

North American Distribution

Symbol: FECA | USDA-NRCS-NGCE | Signal | Distroduced | Notwer, No County Data | Both | No County Data | Both | No County Data | Distroduced |

Washington State Distribution



Source: USDA PLANTS Database

TAXONOMY		
Family Names		
Family Scientific Name:	Poaceae	
Family Common Name:	Grass	
Scientific Names		
Genus:	Festuca	
Species:	F californica	
Species Authority:	Vasey	
Variety:		
Sub-species:		
Cultivar:		
Authority for Variety/Sub-species:		

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Common Synonym(s) (include full scientific names (e.g., Elymus glaucus Buckley), including variety or subspecies information)	Festuca hitchcockianus	
Common Name(s):	California Fescue	
Species Code (as per USDA Plants database):	FECA	
GENERAL IN	IFORMATION	
Geographical range	OR and CA - see top of protocol	
Ecological distribution	Coast ranges, foothills and valleys from Clackamas County, OR to San Luis Obispo County, CA.	
Climate and elevation range	Sea level-6500 ft in the mountains	
Local Habitat and abundance	Tolerates sun to intermediate shade however it is most frequent in dappled shade, along borders of woods, and on north facing slopes.	
Plant strategy type/ successional stage	Plant in tightly clumped with tall and erect stems.	
Plant characteristics	Grows to a height of 60-140 cm.	
PROPAGATION DETAILS		
Propagation Goal (Options: Plants, Cuttings, Seeds, Bulbs, Somatic Embryos, and/or Other Propagules):	Seeds	
Propagation Method (Options: Seed or Vegetative):	Seed	
Product Type (options: Container (plug), Bareroot (field grown), Plug + (container-field grown hybrids, and/or Propagules (seeds, cuttings, poles, etc.))	Propagules	
Stock Type:		
Time to Grow (from seeding until plants are ready to be outplanted):	0 weeks	

Target Specifications (size or characteristics of target plants to be produced):	N/A. Direct sown to site
when, etc):	Often small lots. Hand collection with paper bags is a common method in spring through summer
Characteristics (including seed density (# per pound), seed longevity, etc):	There are approximately 224,000 (+/-20%) seeds per pound with hulls intact. Each 1 pound of seed sown per acre is equivalent to approximately 5 seeds per square foot.
(cleaning, storage, dormancy treatments, etc):	Cleaning:Seed lot is first processed using a Westrup Model LA-H laboratory brush machine, with a #40 mantel, at a speed of 3, to remove seed from stems and de-awn. Seeds are then finished by air-screening, to remove chaffand inert material, using an office Clipper, with a top screen: 1/18 x 1/4 to 1/2 slot and a bottom screen: 1/16 to 1/25 round, medium speed, and low to medium air Storage: freezer storage is adequate Seed dormancy is not observed commonly with this species but some suggest that a two week cold-moist stratification may raise germination rates.
Growing Area Preparation / Annual Practices for Perennial Crops (growing media, type and size of containers, etc):	
seeding to germination):	Spring sowing can result in staggered germination, therefore fall planting is preferred due to cooler temperatures.
Length of Establishment Phase:	2-8 weeks
Active Growth Phase (from germination until plants are no longer actively growing):	Unknown
Length of Active Growth Phase:	Unknown

Unknown	
Unknown	
N/A. Direct sown to site	
N/A. Direct sown to site	
N/A. Direct sown to site	
INFORMATION SOURCES	
Barner, Jim. 2009. Propagation protocol for production of Propagules (seeds, cuttings, poles, etc.) Festuca californica Vasey seeds USDA FS - R6 Bend Seed Extractory Bend, Oregon Lady Bird Lohnson Wildflower Center, http://www.wildflower.org/plants/result.ph p?id_plant=FECA The Grass Manual on the Web, http://herbarium.usu.edu/webmanual/info 2.asp?name=Festuca_californica+&type=treatment USDA Forest Service Fire Effects Information System (FECA), http://www.fs.fed.us/database/feis/plants/graminoid/fescal/all.html Jepson Interchange, http://ucjeps.berkeley.edu/cgi-bin/get_cpn.pl?FECA Integrated Taxonomic Information	

	System, http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value= 40811 USDA, NRCS, PLANTS Database, plants.usda.gov
Other Sources Consulted (but that contained no pertinent information) (full citations):	
Protocol Author (First and last name):	Hardy Wooldridge
Date Protocol Created or Updated (MM/DD/YY):	May 25, 2016