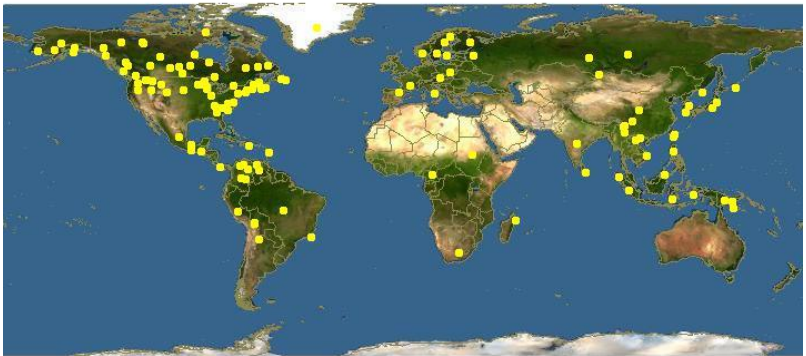


**Plant Propagation Protocol for [*Lycopodium complanatum*/*Diphasiastrum complanatum*]
ESRM 412 – Native Plant Production**

TAXONOMY	
Plant Family	
Scientific Name	Lycopodiaceae
Common Name	Clubmosses
Species Scientific Name	
Scientific Name	<i>Lycopodium complanatum</i> / <i>Diphasiastrum complanatum</i>
Varieties	N/A
Sub-species	N/A
Cultivar	N/A
Common Synonym(s)	N/A
Common Name(s)	Groundcedar
Species Code (as per USDA Plants database)	LYCO3
GENERAL INFORMATION (3)	
Geographical range	 <p>Picture from Discover Life</p>
Ecological distribution	Forest edges, forest, meadows and human made habitat (3)
Climate and elevation range	From 0 to 2000 meter elevation (3)
Local habitat and abundance	Semi-shady edge of open conifer forest and mixed forest, likely found on acidic soil (3)
Plant strategy type / successional stage	N/A
Plant characteristics	Evergreen perennial with scale like leaves, leaves around 1 to 2 mm long (3)
PROPAGATION DETAILS (1) (2)	
Ecotype	N/A
Propagation Goal	spore
Propagation Method	spore
Product Type	Propagule
Stock Type	Container
Time to Grow	N/A
Target Specifications	4 to 11 inch height

Propagule Collection Instructions	Spores produce from Jun to September, collect them as soon as possible when they are ripe on rich sterilized soil (1) (2)
Propagule Processing/Propagule Characteristics	Keep the soil moist; if possible put a plastic bag cover the container, keep plant moist until they are well established (1) (2)
Pre-Planting Propagule Treatments	N/A
Growing Area Preparation / Annual Practices for Perennial Crops	N/A
Establishment Phase Details	N/A
Length of Establishment Phase	N/A
Active Growth Phase	N/A
Length of Active Growth Phase	N/A
Hardening Phase	N/A
Length of Hardening Phase	N/A
Harvesting, Storage and Shipping	N/A
Length of Storage	N/A
Guidelines for Outplanting / Performance on Typical Sites	Do not plant this specie outside until they are 2 years old
Other Comments	N/A
INFORMATION SOURCES	
References	(1) Huxley. A. The New RHS Dictionary of Gardening. 1992. MacMillan (2) F. Chittendon. RHS Dictionary of Plants plus Supplement. 1956 Oxford University Press (3) Dorn, R.D. 1983. <i>Lycopodium complanatum</i> and <i>L. annotinum</i> found in the Black Hills. American Fern Journal
Other Sources Consulted	N/A
Protocol Author	Tianyang Xu
Date Protocol Created or Updated	2015/5/17