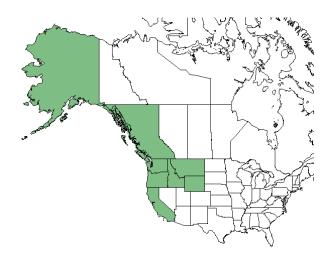
Plant Propagation Protocol for Lysichiton americanus

ESRM 412 – Native Plant Production Spring 2019

North American Distribution



Source: USDA Plants Database

Pacific Northwest Distribution



	TAXONOMY
Plant Family	Areceae
Family Common Name	The Arum family
Scientific Name	Lysichiton americanus
Genus	Lysichiton Schott
Species	Lysichiton americanus Hultén & H. St. John
Common Name	Western skunk cabbage, American skunk cabbage, Yellow skunk cabbage, Swamp lantern
Species Scientific Name	Lysichiton americanus Hultén & H. St. John
Scientific Name	Lysichiton americanus Hultén & H. St. John Authority USDA Plants Database
Varieties	Lysichiton americanus Hultén & H. St. John Authority USDA Plants Database
Sub-species	N/A none listed
Cultivar	N/A none listed
Common Synonym(s)	Lysichiton camtschatcensis auct. non (L.) Schott Symbol LYCA6

Common Name(s)	American skunk cabbage, Western skunk cabbage,	
	Yellow skunk cabbage, Swamp lantern (USDA Plants	
	Database).	
Species Code (as per USDA Plants	LYAM3	
database)		
GENERAL INFORMATION		
Geographical range	Okanogan Ferry Stavens	
	Galam Snohomish Chelan Douglas Lincoln Spolane King Washington Grant Adams Whitman Paofic Lexis	
	Cida op Cowitz Cida op Cowitz Cida op Cida o	
	Washington State Distribution by county, North American and Pacific Northwest geographical range maps located at top of document (USDA Plants	
	Database).	
Ecological distribution	Swamps, low to mid elevation wetlands, alongside	
	freshwater streams, fens, wet meadows (eFloras).	
Climate and elevation range	0-1200m elevation range, native to Western North	
	American climates, naturalized in some parts of Britain	
T 1 1 - 1 :4-4 1 - 1	(iNaturalist).	
Local habitat and abundance	Thrives in the shaded Pacific Northwest wet understory	
	of coastal forests and open swamps. Can reproduce quickly through rhizomes, making it invasive in certain	
Plant stratagy type / suggessional stage	ecosystems throughout Europe (eFloras). Shade tolerant (however, flowers less effectively in the	
Plant strategy type / successional stage	shade), wetland indicator species, can grow in most soil	
	types (from sandy to clayey soils) and can withstand a	
	large range of pH (acidic to alkaline soils), can be	
	invasive when in non-native ecosystems (Plants For A	
	Future 2012).	
Plant characteristics	Perennial hermaphroditic forb, pollinated by insects,	
	produces yellow flowers in April (eFloras).	
DDAI	PAGATION DETAILS	
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Ecotype	Wetland indicator species. Lives primarily in freshwater wetlands.
Propagation Goal	Seed
Propagation Method	Seed transported by small mammals, running water
Propagation Method	Vegetative: (lateral growth of rhizomes underground modified stems),
Product Type	Propagation by seed best to sow seeds very shortly after ripening on the mother plant in a container full of wet humus-rich soil (Plants For a Future 2012).
Product Type	Propagation vegetatively - rhizome division is most successful between mid-autumn to late winter, as the propagules will be able to establish and grow during spring. Multiple divisions can be made from a single plant and planted in bareroot form (Plants For a Future 2012).
Stock Type	Forb, herb
Time to Grow	1-2 months from seeding until germination, keep seeds indoors through winter and outplant in early summer (Plants For a Future 2012).
Target Specifications	Height up to 1.5 meters tall. Rhizomes can grow up to 5cm in diameter. Flowers are 7-12cm, leaves range from 30-150cm long and 10-70cm wide.
Propagule Collection Instructions	Remove seeds from spadix once they are fully ripened (early-late July depending on the individual plant)
Propagule Processing/Propagule	Seeds remain viable in the soil for up to 6 years. Each
Characteristics	spadix generally has 100-650 berries, and each berry carries 2 seeds. Seeds are generally 5-11mm long (CABI 2019).
Pre-Planting Propagule Treatments	Seeds can remain viable up to 6 years in the soil after ripening on plant. Seeds should be planted shortly after collection (up to 50 in. apart), and kept in a cold-frame until germination occurs and outplanting is ready (CABI 2019).
Growing Area Preparation / Annual Practices for Perennial Crops	Soil must be nutrient and humus rich, soil must be wet. Can be outplanted after germination in small containers immersed in 3 inches of water (Plants For a Future 2012).

Establishment Phase Details	Keep sown seeds in a cold frame in their containers/pots
	until signs of germination. If signs of germination show
	during winter months, keep seeds indoors until the last
	frost before outplanting (Plants For a Future 2012).
Length of Establishment Phase	1-2 months from seeding until germination (Plants For a
	Future 2012).
Active Growth Phase	This is a perennial rhizomatous plant, so the plant can
	grow larger each year and spread through vegetatively
	(eFloras).
Length of Active Growth Phase	This is a perennial rhizomatous plant, so the plant can
	grow larger each year and spread through vegetatively.
	Minimal active growth during winter months (Pojar and
	McKinnon1994). Individual plants generally live
	around 20 years (National Wildlife Federation).
Harvesting, Storage and Shipping	Seeds are most viable when planted shortly after
	collection, as they do not store well (Plants For a Future
	2012).
Length of Storage	Generally one season's length usually stored indoors
	during winter before outplanting (Plants For a Future
	2012).
Guidelines for Outplanting /	Plant outdoors in late winter after frost to early spring.
Performance on Typical Sites	Plants will not flower unless established (establishment
	takes several years) and in partial sun (eFloras).
Other Comments	Invasive in much of Europe so planting is discouraged/
	banned in certain regions.
	RMATION SOURCES

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Protocol Author	Sophie Silver-Isenstadt
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