Plant Propagation Protocol for Papaver nudicaule

ESRM 412 – Native Plant Production
URL: https://courses.washington.edu/esrm412/protocols/[year]/[USDASpeciesCode.pdf]

	TAXONOMY		
Plant Family			
Scientific Name	Papaveraceae		
Common Name	Poppy family		
Species Scientific Name			
Scientific Name	Papaver nudicaule Linnaeus.		
Varieties	None listed		
Sub-species	Papaver nudicaule L. ssp. americanum Rändel ex D.F. Murray		
	Papaver nudicaule L. ssp. nudicaule L.		
Cultivar			
Common Synonym(s)	Papaver croceum Ledeb.		
Common Name(s)	Icelandic poppy, Arctic poppy		
Species Code (as per	PANU3		
USDA Plants database)			
	GENERAL INFORMATION		
Geographical range	Source: USDA Plants Database		
Ecological distribution	Native to arctic regions of North America. ^{3,4} Found through the boreal forest along the Yukon and Kuskokwim rivers in Alaska. Mesic to dry, gravel disturbed areas and roadsides in montane zone. Rare in British Columbia. ²		
Climate and elevation range	Prefers well-drained soils and full sun. ^{4, 5} Thrives in mild climates with soil temperatures between 55°F and 60°F. ⁴ High latitude Arctic regions of North America. ^{3,4,5}		
Local habitat and abundance	Found throughout dry, exposed, and rocky openings of interior Alaska. Prefers grasslands, meadows, valleys, river gravel, and roadsides. ⁸		

Plant strategy type /	Stress-tolerant herb, preferring sunny conditions, is drought
successional stage	tolerant, and is distributed in disturbed areas. ²
Plant characteristics	Short lived (2-3 seasons) perennial, herb; growing heights 20-40 cm tall from a short, thick taproot. ^{7,8} This species blooms late spring to early summer (May, June, July). Inflorescence of solitary flowers that are white, yellow, orange, pink, or red in color. ^{2,7}
	5 mm
	Papaver nudicaule
	Source: Illustrated Flora of British Columbia
	PROPAGATION DETAILS
Ecotype	Not applicable.
Propagation Goal	Plants
Propagation Method	Seed
Product Type	Propagules
Stock Type	
Time to Grow	Sow seed in fall for bloom in the following year. ^{3, 4}
Target Specifications	Firm root and multiple leaves.
Propagule Collection	Harvest seeds from capsule when dry and they can be heard
Instructions	rattling. Shake seeds from capsule (Information for general poppy family). Deed collection best in August or September, before planting in fall. Deed collection best in August or September, before planting in fall. Deed collection best in August or September, before planting in fall. Deed collection best in August or September, before planting in fall. Deed collection best in August or September, before planting in fall. Deed collection best in August or September, before planting in fall.
Propagule Processing/Propagule Characteristics	2,780,000 seeds per pound. Two pounds of seed per acre. ⁴
Pre-Planting Propagule Treatments	Seeds are relatively clean when removed from capsule, but if bristles from capsule are present, brush off. ⁹ Store in cool, dry, dark place. ¹⁰
Growing Area Preparation / Annual Practices for Perennial Crops	Prefers areas of cool temperatures, full sunlight, and well-drained soils. ^{4,5}

Establishment Phase	Seeds should be sowed at the surface. ⁴ Light is necessary for
Details Details	poppy seeds to germinate, so cover seeds with no more than one-
Details	eighth inch soil and lightly water. Germinate better when exposed
	to freezing conditions, so sow seeds in fall. ¹⁰
Length of Establishment	20-30 days in cool weather. ⁴
Phase	•
Active Growth Phase	Blooming occurs May to July. Several weeks after establishment,
	prune spent leaves to encourage flowering. ⁵
Length of Active Growth Phase	No information available.
Hardening Phase	No information available.
Length of Hardening Phase	No information available.
Harvesting, Storage and	Seedlings not easily transplanted. ^{3,4}
Shipping (of seedlings)	Securings not easily transplanted.
Length of Storage	
Guidelines for Outplanting	Not easily transplanted, sow seeds directly at the site. ^{3,4} Planting
/ Performance on Typical	success is around 60%. ⁴
Sites	
Other Comments	
	INFORMATION SOURCES
References	¹ Papaver nudicaule L. (n.d.). USDA Plants Database.
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	³ Ford, A. L., "Home Propagation of Ornamentals" (1931).
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	http://openprairie.sdstate.edu/extension_circ/304
	⁴ Lineberger, D., & Parsons, J. (n.d.). <i>Iceland Poppy</i> . Aggie
	Horticulture. Retrieved May 22, 2023, from https://aggie-
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	⁷ Armitage, A. (2001). Armitage's Manual of Annuals, Biennials,
	and Half-Hardy Perennials. Timber Press.
	⁸ Nawrocki, T. (2010). <i>Iceland Poppy</i> (p. 4). University of Alaska
	Anchorage. https://accs.uaa.alaska.edu/wp-
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Other Sources Consulted	
Protocol Author	Lindsey Austin
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