

Plant Propagation Protocol for *Sedum Leibergii*


ESRM 412 – Native Plant Production

URL: <https://courses.washington.edu/esrm412/protocols/2023/SELE.pdf>



Source: Rcarr

TAXONOMY	
Plant Family	
Scientific Name	Crassulaceae J. St.-Hil.
Common Name	Stonecrop family
Species Scientific Name	
Scientific Name	<i>Sedum leibergii</i> Britton
Varieties	<i>Sedum leibergii</i> Britton var. <i>typicum</i> R.T. Clausen
Sub-species	
Cultivar	
Common Synonym(s)	<i>Sedum divericatum</i> S. Watson <i>Amerosedum leibergii</i> (Britton) Á. Löve & D. Löve
Common Name(s)	
Species Code (as per USDA Plants database)	SELE
GENERAL INFORMATION	

Geographical range	 <p>Source: USDA This species is a Northwest native mainly residing in Washington, Oregon, Idaho, and Montana.</p>
Ecological distribution	Generally prefers rough open areas such as rocky hillsides and cliffs.
Climate and elevation range	Prefers elevation between 50 and 1200 m (Flora of North America)
Local habitat and abundance	Often in areas with little else growing aside from some hardy weeds like cliffsides , it acts as a groundcover but comes up alongside grasses where it won't be shaded.
Plant strategy type / successional stage	Stress tolerator
Plant characteristics	<p>This plant is a biennial herb. The leaves are oval in form and its flowers are generally conical though the amount of them varies heavily. (Flora of North America)</p> <p>The plant is a succulent with star shaped yellow flowers. (World of Succulents 2021)</p>



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PROPAGATION DETAILS

Ecotype	(World of Succulents 2021)
Propagation Goal	Plants
Propagation Method	Vegetative
Product Type	Rootstock bulbs (World of Succulents 2021)
Stock Type	(World of Succulents 2021)
Time to Grow	Overall should take about a season to see rosettes after planting rootstock parts. (World of Succulents 2021)
Target Specifications	Approximately 7 inch tall flower stalks blooming in spring-summer (other sources vary between 6-12 in). (World of Succulents 2021)
Propagule Collection Instructions	Collect rootstock or replant to your green house in Spring. (World of Succulents 2021)
Propagule Processing/Propagule Characteristics	N/A
Pre-Planting Propagule Treatments	Clean rootstock though try not to have it out of the soil for very long.
Growing Area Preparation / Annual Practices for Perennial Crops	Due to underground stolon spreading utilize flats of medium size to allow for further growth though 1 gallon or larger pots would also work. (Alpine Garden Society)

	<p>The plant will prefer a well-drained coarser medium. (World of Succulents 2021)</p> <p>The growing area should be one in direct sunlight. (World of Succulents 2021)</p>
Establishment Phase Details	Plant should be placed in an area that gets plenty of sunlight, at least 6 hours a day. (World of Succulents 2021)
Length of Establishment Phase	N/A
Active Growth Phase	Plant should be placed in an area that gets plenty of sunlight, at least 6 hours a day. (World of Succulents 2021)
Length of Active Growth Phase	About a season. (World of Succulents 2021)
Hardening Phase	Plant should be placed in an area that gets plenty of sunlight, at least 6 hours a day. (World of Succulents 2021)
Length of Hardening Phase	Unknown
Harvesting, Storage and Shipping	<p>Harvest/replant in Spring if following the plants natural cycles. (World of Succulents 2021)</p> <p>The plant should be divided annually if storing for that long. (World of Succulents 2021)</p> <p>If repotting due so when it is relatively dry and into a relatively dry medium. (World of Succulents 2021)</p>
Length of Storage	Unknown
Guidelines for Outplanting / Performance on Typical Sites	<p>In testing mean maximal germination was 17.9 % for transplanting. (Downs 2011)</p> <p>It can handle both very cold and relatively hot temperatures. Particularly adapted to handling cold though, able to hand temperatures down to -20 to 30 degrees Fahrenheit (World of Succulents 2021)</p>
Other Comments	Overall there are many stonecrop species popular as an ornamental groundcover that could be used as a platform for further testing on the propagation of this particular species.
INFORMATION SOURCES	
References	<p><i>Sedum leibergii</i> - FNA. (n.d.). http://floranorthamerica.org/Sedum_leibergii</p> <p>Downs, J. (n.d.). 2011. Pacific Northwest National Laboratory PNNL. https://www.pnnl.gov/main/publications/external/technical_reports/PNNL-20793.pdf</p> <p>Home - Alpine Garden Society. (n.d.). Alpine Garden Society. http://encyclopaedia.alpinegardensociety.net/plants/Sedum/leibergii#top</p>

	<p>WoS. (2021, November 25). <i>Sedum leibergii</i> (Leiberg Stonecrop). World of Succulents. https://worldofsucculents.com/sedum-leibergii-leiberg-stonecrop/</p> <p>Rcarr. (2020, March 5). <i>Sedum leibergii</i>. https://inside.ewu.edu/ewflora/sedum-leibergii/</p>
Other Sources Consulted	<p>Natural Heritage Program and Montana Fish, Wildlife & Parks. (2023b, May 24). <i>MTNHP</i>. https://fieldguide.mt.gov/speciesDetail.aspx?elcode=PDCRA0A1T0</p> <p><i>THE NATIVE PLANTING HANDBOOK</i> by TAYLOR CREEK RESTORATION NURSERIES. (n.d.). Retrieved May 24, 2023, from https://taylorcreeknurseries.com/wp-content/uploads/2020/06/Nursery-Handbook-August2019-website.pdf</p> <p><i>US Wildflower - Leiberg Stonecrop - Sedum leibergii</i>. (n.d.). USWildflowers.com. https://uswildflowers.com/detail.php?SName=Sedum%20leibergii</p> <p><i>Sedum leibergii</i> U.S. Fish & Wildlife Service. (n.d.). FWS.gov. https://www.fws.gov/species/leiberg-stonecrop-sedum-leibergii</p> <p><i>Sedum</i>. (n.d.). Almanac.com. https://www.almanac.com/plant/sedum</p>
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