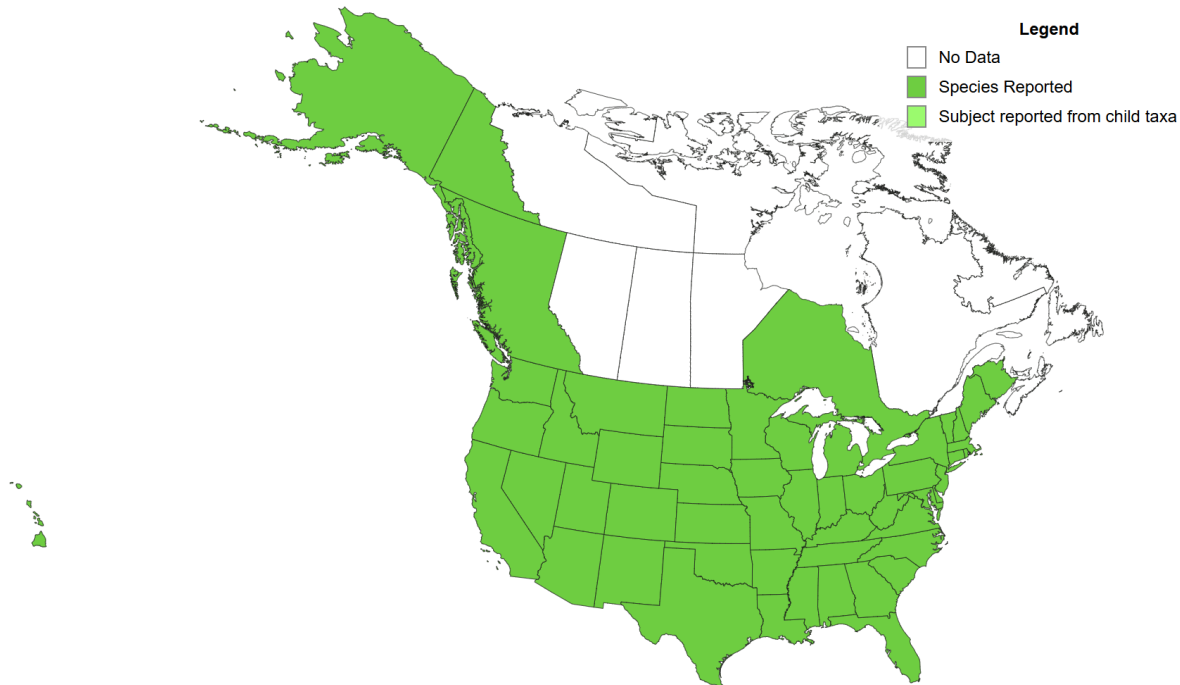


**Plant Propagation Protocol for *Chenopodium album***  
 ESRM 412 – Native Plant Production



(18)

<b>TAXONOMY</b>	
<b>Plant Family</b>	
Scientific Name	Chenopodiaceae Vent. (1)
Common Name	Lambsquarters, white goosefoot(1)
<b>Species Scientific Name</b>	
Scientific Name	<i>Chenopodium album</i> L. (1)
Varieties	No information found.
Sub-species	<i>Chenopodium album</i> L. var. <i>album</i> <i>Chenopodium album</i> L. var. <i>candicans</i> Moq. <i>Chenopodium album</i> L. var. <i>centrorubrum</i> Makino <i>Chenopodium album</i> L. var. <i>microphyllum</i> Boenn. <i>Chenopodium album</i> L. var. <i>missouriense</i> (Aellen) I.J. Bassett & C.W. Crompton <i>Chenopodium album</i> L. var. <i>stevensii</i> Aellen <i>Chenopodium album</i> L. var. <i>striatum</i> Krašan (1).
Cultivar	No information found.

Common Synonym(s)	<i>Chenopodium album forma dubium</i> <i>Chenopodium album forma cymigerum</i> <i>Chenopodium album forma dubium</i> (5). <i>Chenopodium album</i> L. var. <i>album</i> [KZ99] <i>Chenopodium album</i> L. var. <i>missouriense</i> (Aellen) <i>Bassett &amp; Crompton</i> [KZ99] <i>Chenopodium album</i> L. var. <i>stevensii</i> Aellen [KZ99] (7).
Common Name(s)	lambquarters (1) pigweed (2)
Species Code (as per USDA Plants database)	CHAL7 (4)
<b>GENERAL INFORMATION</b>	
Geographical range	N. and S. America, Hawaii, Europe, N. and S. Africa, Central and Russian Asia (2)
Ecological distribution	Fields, roadsides, forest edge, wastelots, and other disturbed areas (7). Can also thrive in cultivated fields (6).
Climate and elevation range	Typical elevation: <1800 meters (3). Average elevation: 719 meters, average slope gradient: 20%, average aspect: 179 degrees, average soil moisture regime: 3, modal nutrient regime class: 3 (10). It is able to survive in most environmental extremes (11).
Local habitat and abundance	<i>Chenopodium album</i> is found abundantly in nearly every landscape and utilizes a range of ecological niches, types of soil, and altitudes (9).
Plant strategy type / successional stage	Weedy stress-tolerator, but is found less frequently on calcareous soils and extreme acid conditions (10).
Plant characteristics	<i>Chenopodium album</i> is a branched annual herb that is 10-100cm when erect, with mealy white with red stems and densely crowded flowers. Leaves are alternate and varied in appearance. The small flowers are radially symmetrical and grow in small cymes on a dense branched inflorescence 10–40 cm long (11).
<b>PROPAGATION DETAILS: FROM SEED</b>	
Ecotype	Southern Illinois lambquarters (8)
Propagation Goal	Plants (16)
Propagation Method	Seed (12)
Product Type	Field grown (14)
Stock Type	No information found.
Time to Grow	30-60 days (8)
Target Specifications	4in - 6ft (17)

Propagule Collection Instructions	Collect the young tender plants whole, and then when the stems become tough, collect just the leaves and tender tips. In the fall, the stem often becomes red-streaked, and eventually the flower clusters turn reddish-brown, indicating mature seeds (8).
Propagule Processing/Propagule Characteristics	Average of 3123 seeds per plant with a range of 20-3500 (11)
Pre-Planting Propagule Treatments	Cold stratification for 4 weeks, soak seeds in water 24 hours before planting (15).
Growing Area Preparation / Annual Practices for Perennial Crops	Plant in moist well-drained soil high in nitrogen (14).
Establishment Phase Details	Plant seeds from spring to fall. Plant in 2-4 week successions to ensure continual harvest (13).
Length of Establishment Phase	No information found.
Active Growth Phase	No information found.
Length of Active Growth Phase	No information found.
Hardening Phase	No information found.
Length of Hardening Phase	No information found.
Harvesting, Storage and Shipping	Dormant seeds can remain viable for a considerable period of time, at least 40 years (11).
Length of Storage	The life span of seeds is less than 20 years when using dry storage (10).
Guidelines for Outplanting / Performance on Typical Sites	No information found.
Other Comments	<i>Chenopodium album</i> is claimed to be one of the five most widely distributed plants in the world. It is regarded as a serious weed and is susceptible to sulphuric acid (11). The plant has been used by various cultural groups for the treatment of gastrointestinal and respiratory conditions (9).
<b>INFORMATION SOURCES</b>	
References	See below
Protocol Author	Max Wang
Date Protocol Created or Updated	05/22/2025

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