

SUNMARK SEEDS INTERNATIONAL, INC.
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Grasses	80.63%
Woodies	19.37%



Shrub Swamp

Sunmark Shrub Swamp Mix

Acres: 1
 Quantity: 43.39 lbs.

Botanical Name	Common Name	% by weight	Seeds per lb. of Mix	Seeds per lb.	Actual % by Seed Size	PLS lbs. Needed	Requested %
<i>Hordeum brachyantherum</i>	Meadow Barley	38.50%	32725	85,000	11.36%	16.70	10%
<i>Bromus carinatus</i>	California Brome	20.00%	22000	110,000	7.63%	8.68	11%
<i>Festuca rubra rubra</i>	Native Red Fescue	12.00%	60000	500,000	20.82%	5.21	24%
<i>Glyceria occidentalis</i>	Northwestern Mannagrass	10.00%	20100	201,000	6.98%	4.34	24%
<i>Deschampsia cespitosa</i>	Tufted Hairgrass	2.00%	50000	2,500,000	17.35%	0.87	20%
<i>Agrostis exarata</i>	Spike Bentgrass	1.25%	47500	3,800,000	16.48%	0.54	20%
<i>Rosa nutkana</i>	Nutkana Rose	5.00%	2250	45,000	0.78%	2.17	1%
<i>Symphoricarpos alba</i>	Common Snowberry	5.00%	3800	76,000	1.32%	2.17	2%
<i>Spirea dougalsii</i>	Douglas Spirea	2.50%	31250	1,250,000	10.85%	1.08	11%
<i>Mahonia aquatifolium</i>	Hollyleaved Barberry	3.50%	1523	43,500	0.53%	1.52	1%
<i>Holiduscus discolor</i>	Oceanspray	0.25%	17000	6,800,000	5.90%	0.11	11%

TOTALS: 100.00% 288148 100.00% 43.39 135%



Seeding Rate

1.00 PLS lbs. per 1000 sq. ft.
 43.39 PLS lbs. per acre

Shrub Swamp is an excellent mix for native seeding projects that requires a quickly establishing grass-forb mix with woody plants. Over time, the woody plants in Shrub Swamp will take over and create a shrub and tree community. Excellent for water quality swales, streambank and shoreline applications.