

PERENNIAL HEDGEROW SEED MIX FOR INSECT REFUGE

Mixture of easily grown seed for most areas in California. Produces shrubs and small trees which attract and support beneficial insects to manage aphids, caterpillars, mites, thrips, and whitefly.

Composition and features

Botanical Genus	Species	Common name	Beneficials Attracted	Pests Managed	Flowers	Description	Type	Color	Size Feet
Achillea	millefolium	white yarrow	hoverfly, wasp, lady beetle	mites, scale	Apr-Jul	Spreading fern-like	Forb	white	1-2
Atriplex	lentiformis breweri	brewer saltbush	lady beetle, cover for quail	mites, scale	Jul-Oct	Semi-deciduous	Shrub	N/A	3-10
Baccharis	pilularis consanguinea	chaparral broom	wasp, tachinid fly, hoverfly	caterpillar whitefly mites	Oct-Jan	Evergreen	Shrub	white	4-10
Encelia	farinosa	brittle brush					Shrub	yellow	2-3
Eriogonum	fasiculatum	flat-top buckwheat	hoverfly, wasp, minute pirate bug, tachinid fly	caterpillar whitefly mites	May-Dec	Evergreen, narrow wooly leaves	Shrub	white	1-3
Heteromeles	arbutifolia	toyon, Christmas berry	hoverfly wasp tachinid fly	caterpillar, sharpshooter	May-Jun	Evergreen, tolerates sun, partial shade, smog, wind, heavy or light soil	Shrub/tree	white	6-25
Isomeris (=Cleome)	arborea	bladderpod		stinkbug	Feb-May	Dense evergreen mounding	Shrub	yellow	3-6
Leymus	condensatus	giant wildrye	predatory mites, aphid predators	mites, aphids	Mar-Jun		Grass	N/A	4
Sambucus	mexicana	elderberry	hoverfly, wasp		Apr-Nov	Deciduous	Tree/shrub	white	4-10

SEED RATE: 26 lbs. per acre, or about 5 oz (4.78 oz) for 5 X 100 foot strip

EMERGENCE 10-15 days

ESTABLISHMENT 120 days after emergence

Prepare soil, broadcast seed, trample, water in. Maintenance for the first year or two, water during summer or dry periods and weed to decrease competition. Prune trees and shrubs as needed to fit into the landscape and maintain tree health. After well established these plants should be able to take care of themselves. Consider adding arroyo or sandbar willow, pepper tree, castor bean, Ceanothus, Lotus scoparinus, or tamarind. Plant some of your favorite wildflowers on the edge of the hedgerow. A parallel strip of annual insect habitat plants can give short term help with biological control until the shrubs grow. Developed by Paul Albright of Albright Seed Company.

Northern California version of PERENNIAL HEDGEROW SEED MIX FOR INSECT REFUGE

Composition and features

Botanical Genus	Species	Common name	Beneficials Attracted	Pests Managed	Flowers	Description	Type	Color	Size Feet
		acacia							
		white sage							
Salvia	apiana	purple sage					sub shrub		3-5, 5W
Atriplex		fourwing saltbush	lady beetle, cover for quail	mites, scale	Jul-Oct	Semi-deciduous	Shrub	N/A	3-10
		deerweed							
Encelia	farinosa	brittle brush					Shrub	yellow	2-3
Eriogonum	cinereum	ashleaf buckwheat					Shrub		2-5, 10W
Eriogonum	faciculatum	flat-top buckwheat	hoverfly, wasp, minute pirate bug, tachinid fly	caterpillar whitefly mites	May-Dec	Evergreen, narrow wooly leaves	Shrub	white	1-3
Heteromeles	arbutifolia	toyon, Christmas berry	hoverfly wasp tachinid fly	caterpillar, sharpshooter	May-Jun	Evergreen, tolerates sun, partial shade, smog, wind, heavy or light soil	Shrub/tree	white	6-25
		lemonade berry							
Leymus	condensatus	giant wildrye	predatory mites, aphid predators	mites, aphids	Mar-Jun		Grass	N/A	4
Sambucus	mexicana	elderberry	hoverfly, wasp		Apr-Nov	Deciduous	Tree/shrub	white	4-10

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