

Pollinator Challenge 2015

Based on the Penn State Extension Master Gardener certification program

Austinites are once again challenged to create wildlife-friendly yards using native plants, but with an added challenge of supporting our pollinators with specific plant palettes and garden husbandry. This year, make a home for bees, butterflies, beetles, moths, hummingbirds in your backyard. For additional resources to assist with pollinator plant species, see Lady Bird Johnson Wildflower Center's plant database at wildflower.org/plants and for additional resources for Central Texas pollinator plants visit: http://www.wildflower.org/collections/. For Pollinator Partnership's regional plant guides visit http://pollinator.org/guides.htm.

To enter the Pollinator Challenge, submit this form to <u>wildlife@austintexas.gov</u> by 11/30/2015. Or submit the form via mail using address: Wildlife Austin, 919 W. 28 ½ St. Austin, TX 78705

Upon completion of the Challenge, please request a pre-paid

"Butterfly Crossing" sign.	Sign may be picked up at 919 W. 28 ½ St.	BUTTERFLY
Name:		
Address of Pollinator Habi	itat:	CROSSING
Email:	Phone number:	
Neighborhood:	Watershed:	_
	Visit http://ancweb.org/anc-resources/neighborhosit http://www.austintexas.gov/GIS/FindYourWater	
Has your habitat already	been certified with National Wildlife Fe	ederation?
If so, please provide that	NWF certification number here:	
are interested in Wildlife	ave NOT yet been certified with Nationa Austin mailing a pre-paid application (e Pollinator Challenge will also fulfill th	(valued at \$20) to your



Free Sign!



STEP 1: PROVIDE FOOD SOURCES

Nectar and Pollen Sources: Pollinators need a diversity of nectar and pollen sources to sustain them. How do you provide food for pollinators? Choose plants that provide pollen and nectar sources from early spring to late fall and with various flower shapes. Avoid hybrids and cultivars; usually native plants are the best providers of nectar and larval food. Planting in clumps rather than single plants is more attractive to pollinators.

From the lists below, select the pollinator friendly native plants that you have on your property. Check all that apply:

TREES (Check at least 4 species of trees/shrubs.)						
Hackberry (Celtis spp.) larval host for butterflies, can also provide shelter						
Oak (Quercus spp.) larval host for butterflies, can also provide shelter						
Spring Flowering						
Anacacho Orchid Tree (Bauhinia lunariodes), attracts butterflies and bees Eve's Necklace (Styphnolobium affine) prefers well drained soil; attracts bees/nectar insects Goldenball Leadtree (Leucaena retusa), attracts butterflies and bees Honey Mesquite (Prosopis glandulosa var. glandulosa) flowers in spring and summer, insect nectar source Mexican Buckeye (Ungnadia speciosa) attracts butterflies and bees						
						Mexican Plum (<i>Prunus Mexicana</i>) attracts butterflies, bees, larval plant
						Red Buckeye (Aesculus pavia var. pavia) attracts hummingbirds
						Texas Redbud (Cercis canadensis var. texensis) attracts bees, larval plant
						Wafer Ash (<i>Ptelea trifoliate</i>) attracts butterflies also larval plant
Spring and Fall Flowering						
Kidneywood (Eysenhardtia texana) attracts butterflies and bees						
Other						
SHRUBS						
Spring FloweringAgarita (Mahonia trifoliolata) attracts butterflies and bees.						
Aganta (<i>Manorila tribilolata)</i> attracts butternies and bees. Cherry Sage (<i>Salvia greggii</i>) flowers in spring through fall, prefers well drained soil, attracts						
butterflies/hummingbirds						
Coralbean (<i>Erythrina herbacea</i>) attracts hummingbirds						
Elbow Bush (<i>Forestiera pubescens</i>), prefers well drained soil, attracts butterflies/bees						
Spicebush (<i>Lindera benzoin</i>) butterfly larval host plant, can provide shelter						
Spicebush (<i>Elitidera berizoln</i>) butterny larvar host plant, can provide shellerTurk's Cap (<i>Malvaviscus arboreus</i> var. <i>drummondii</i>) flowers in spring through fall, attracts						
hummingbirds/butterfliesWestern White Honeysuckle (<i>Lonicera albiflora</i>) attracts butterflies/bees						
Summer Flowering						
American Beautyberry (<i>Callicarpa americana</i>) attracts bees						
Bee Brush (<i>Aloysia gratissima</i>) attracts butterflies and bees						
Buttonbush (<i>Cephalanthus occidentalis</i>) attracts bees/beetles/butterflies						
Buttonbush (Cephalanthus occidentalis) attracts bees/beetles/butterniesCenizo (Leucophyllum frutescens) flowers after rain in summer, attracts bees and hummingbirds						
Mealy Blue Sage (Salvia farinacea) attracts butterflies and bees						
Rock Rose (Pavonia lasiopetala) prefers well drained soil, attracts butterflies and bees						
Summer and Fall Flowering						
Black Dalea (<i>Dalea frutescens</i>) attracts bees						
Crimsoneyed rosemallow (Hibiscus moscheutos) attracts hummingbirds						
Desert Globemallow (Sphaeralcea ambigua) attracts bees/butterfliesFlame Acanthus (Anisacanthus quadrifidus var. wrightii) attracts hummingbirds/butterfliesTexas Lantana (Lantana urticoides) attracts butterflies						



Woolly Fall Flower	Butterflybush (<i>Buddleja marrubiifolia)</i> attracts butterflies
	reen Sumac (<i>Rhus virens</i>) attracts butterflies and bees
	ster (Aster oblongifolium) attracts butterflies, moths, bees
	n the Bush (<i>Chromolaena odorata</i>) attracts butterflies, moths, bees
	nilian Sunflower (<i>Helianthus maximiliani</i>) attracts butterflies, bees and beetles
	by Boneset (<i>Ageratina havanensis</i>) prefers well drained soil, attracts butterflies and moths
Other	
	ERENNIAL FLOWERS, GRASSES and VINES least 6 species, with 2 flowering in spring, 2 flowering in summer and 2 flowering in fall.)
Flowers	cast o species, war 2 nowering in spring, 2 nowering in summer and 2 nowering in fam.)
Spring Flo	wering
	pe Horns (Asclepias asperula) attracts bees/butterflies, larval plant, prefers well drained soils
	n Grounsel (<i>Packera obovate</i>) attracts butterflies
Green	Milkweed (Asclepias viridis) attracts bees/butterflies, larval plant, prefers well drained soils
Gulf C	oast Penstemon (Penstemon tenuis) attracts hummingbirds
	eaf Skullcap (Scutellaria ovata subsp. bracteata) attracts butterflies
	ountry Penstemon (Penstemon triflorus) attracts hummingbirds
	ng Cypress (Ipomopsis rubra) attracts butterflies and hummingbirds; biennial
	p Milkweed (Asclepias incarnate) attracts bees/butterflies, larval plant, prefers moist to wet soils
	ergamot (Monarda fistulosa) attracts butterflies and hummingbirds
	v (Achillea millefolium) attracts butterflies/bees/moths. Naturalized (not a native) plant.
	Summer Flowering
	Sage (Salvia roemeriana) attracts hummingbirds
	leaf Coreopsis (Coreopsis lanceolata) attracts butterflies/beetles/bees
	uri Primrose (Oenothera missouriensis) attracts bees/moths/butterflies Coneflower (Echinacea purpurea) attracts butterflies/bees/hummingbirds
	ucca (Hesperaloe parviflora) attracts hummingbirds
	Penstemon (<i>Penstemon baccharifolius</i>) attracts hummingbirds
	wort (<i>Tradescantia spp</i>) attracts bees
	eaf Yucca (Yucca rupicola) attracts moths, larval plant
	up (<i>Callirhoe involucrate</i>) attracts bees, larval plant
Summer F	
Americ	can Basketflower (Centaurea americana) attracts bees/beetles/flies/butterflies (annual)
Anise	Hyssop (Agastache foeniculum) attracts butterflies/ bees/hummingbirds
Blackf	oot Daisy (Melampodium leucanthum) attracts bees and butterflies
	flyweed (Asclepias tuberosa) attracts bees/butterflies, prefers moist soils
	Bundleflower (Desmanthus illinoensis) attracts bees
	Milkweed (Asclepias texana) attracts bees/butterflies, larval plant, prefers well drained soils
	nd Fall Flowering
	Eyed Susan, (<i>Rudbeckia fulgida</i>) attracts bees/butterflies
	's Mistflower (<u>Conoclinium greggii</u>) attracts butterflies, moths, bees
	ge Pea (Chamaerchrista fasiculata) attracts bees (annual)
	uid Bush (Melochia tomentosa) attracts butterflies, moths, bees Betony (Stachys coccinea) attracts hummingbirds
	enia (<i>Wedelia texana</i>) attracts butterflies, bees
Fall Flower	
	Gayfeather (<i>Liatris mucronata)</i> attracts bees/butterflies/hummingbirds
	veed (Verbesina virginica) attracts bees/butterflies/moths
	n Eye Daisy (<i>Viguiera dentata</i>) attracts butterflies/ bees/ beetles/moths
	on Leaf Goldeneye (Viguiera stenoloba) attracts butterflies/ bees/ beetles/moths



Spring through Fall Flowering (three seasons!)						
Frogfruit (Phyla nodifloraa) flowers in spring and fall, attract butterflies and bees, larval plant						
Tropical Milkweed (Asclepias curassavica) *** (native to Central/South America) flowers spring to fall, attracts bees/butterflies, larval plant, prefers moist soilsTropical Sage (Salvia coccinea) flowers in spring through fall, attracts hummingbirds/butterflies						
						Verbena spp, flowers in spring and fall, attracts butterflies and bees
						White Guara (Guara lindheimeri) flowers in spring through fall, attracts butterflies/bees/hummingbirds
***MonarchWatch continues to promote Tropical Milkweed though many in the Central Texas area do not support plantin this type of milkweed as it is not as ideal as native varieties. If you do grow it, it is suggested to cut the foliage down to 3						
						in early October to avoid late season breeding and reduce undesirable colonies of <u>Ophryocystis elektroscirrha</u> , or OE, a
protozoan disease that infects and kills Monarchs.						
Vines						
Spring Flowering						
Carolina Jessamine (Gelsemium sempervirens) attracts hummingbirds						
Coral Honeysuckle (Lonicera sempervirens) flowers in spring and summer, attracts hummingbirds						
Crossvine (Bignonia capreolata) attracts bees and hummingbirds						
Passion Vine (Passiflora incarnate) flowers spring and summer, attracts butterflies/bees/beetles, a larval plant						
Snapdragon Vine (Maurandella antirrhiniflora) blooms spring through fall, larval plant, attracts butterflies/bees						
Texas Wisteria (Wisteria frutescens) attracts butterflies, a larval plant						
Summer Flowering						
Trumpet Vine (Campsis radicans) attracts bees and hummingbirds						
Grasses						
Big Bluestem (<i>Andropogon gerardii</i>) larval host for butterflies, can also provide shelter						
Indiangrass (Sorghastrum nutans) larval host for butterflies, can also provide shelter						
Little Bluestem (<i>Schizachyrium scoparium</i>) larval host for butterflies, can also provide shelter						
Sideoats Grama (Bouteloua curtipendula) larval host for butterflies, can also provide shelter						
Othor						
Other						
STEP 2: PROVIDE WATER SOURCES						
(Check 1 or more)						
Like all living things, pollinators need a source of water. How do you provide this in your landscape??						
Birdbath						
Stream						
Butterfly puddling area						
Garden Pond						
Other						
STEP 3: PROVIDE COVER FOR POLLINATORS						
(Check 2 or more)						
Pollinators need places to nest and to overwinter. How do you provide these in your landscape?						
Spaces of bare ground						
Man-made boxes						
Rock pile/wall						
Brush pile, Logs, Dead trees						
Shrub Thicket- evergreen or deciduous						
Leave garden cleanup until spring						
Other						





(At least 2 plants)	ER OF POLLINATOR LA erfly caterpillars on these plants:	RVAL PLANTS
Host Plant:	Butterfly Species	
Host Plant:	Butterfly Species	
Host Plant:	Butterfly Species	
	INABLE GARDENING Mabitat by using integrated pest m	IETHODS nanagement practices and reducing invasive plants.
pollinators require for su	urvival? Invasive plants that move f	en pollinator habitat by endangering the native plants that from our yards to woodlands and natural areas threaten nting invasives and removing existing invasives on our
I avoid acquiring I have removed Indicate invasiv Ligustrum Chinese T Chinaberry Nandina Japanese Catsclaw Chinese P	allow / Honeysuckle	rently on my property.
pollinator gardening. Ev Spinosad) are very toxic species and bad specie labels. When purchasin	ren products approved for organic go to pollinators. If a pesticide is mad s and many residential and garden g your plants, ask the nursery if the	pees and other pollinators is an often overlooked factor of pardening (e.g. Rotenone, <i>BT (Bacillus thuringiensis)</i> and de to kill insects it will not discriminate between good pesticides do not include butterfly or bee toxicity on their by use pesticides. If they do, ask what kind. If they don't a some systemic pesticides can be toxic to pollinators for
I occasion CI Us AI Ns Sp	pesticides ally use pesticides, but do all of the early identify the pest before taking se less toxic pesticides such as hort ways follow label directions ever spray plants in bloom oray late in the evening when bees a arget spray only the problem spots	action ticultural oil and insecticidal soap



