

Create a Pollinator Friendly Garden

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Pollinators are Important

85% of flowering species
 30% of food production
 Require pollination by animals¹



Don't Create a Sink Habitat

Make sure you have adequate season-long forage to support resident bees whose universe might be 200 meters or less.



Garden with Efficiency

Flowers that bloom in spring, early summer and fall may better support pollinators at your project site if flowers are otherwise locally abundant

Use these 3 essential garden elements for pollinator habitat:

FOOD & WATER

1

- Blooms from spring to fall
- Butterfly larvae host plants
- Dishes of water or moist dirt

HABITAT

2

- Nests: bee boxes, brush and rock piles, patches of bare, undisturbed earth
- Woody vegetation and grasses for perching

PROTECTION

3

- Don't mow when flowers are blooming
- Don't buy plants treated with neonicotinoids or chemicals (ASK YOUR GROWER!)

Resources: The Forgotten Pollinators by Buchman & Nabhan

Web: SW Monarch Study, The Xerces Society

¹ Ollerton et al 2011 Oikos 120:321-326 ; Klein et al 2007 PNAS 274: 303-313

Plant a Pollinator-Specific Garden

“Pollinator syndromes” are general predictions that use flower morphology or traits as a way to attract different types of pollinators. Pollinator syndromes are based off general evolutionary trends in the mutualistic relationship between pollinators and plants. They may show a pollinator’s preferred food, but know that pollinators break the rules! Table adapted from The Xerces Society

Trait	Bats	Bees	Beetles	Birds	Butterflies	Flies	Moths	Wind
Color	Dull white, green or purple	Bright white, yellow, blue, or UV	Dull white or green	Scarlet, orange, red or white	Bright, including red and purple	Pale and dull to dark brown or purple; flecked with translucent patches	Pale and dull red, purple, pink or white	Dull green, brown, or colorless; petals absent or reduced
Nectar Guides	Absent	Present	Absent	Absent	Present	Absent	Absent	Absent
Odor	Strong musty; emitted at night	Fresh, mild, pleasant	None to strongly fruity or fetid	None	Faint but fresh	Putrid	Strong sweet; emitted at night	None
Nectar	Abundant; somewhat hidden	Usually present	Sometimes present; not hidden	Ample; deeply hidden	Ample; deeply hidden	Usually absent	Ample; deeply hidden	None
Pollen	Ample	Limited; often sticky and scented	Ample	Modest	Limited	Modest in amount	Limited	Abundant; small, smooth, and not sticky
Flower Shape	Regular; bowl shaped – closed during day	Shallow; have landing platform; tubular, c	Large bowl-like, Magnolia	Large funnel like; cups, strong perch support	Narrow tube with spur; wide landing pad	Shallow; funnel like or complex and trap-like	Regular; tubular without a lip	Regular: small and stigmas exerted

Locally-Grown Plants: a great way to find chemical-free flowers

Willow Moon Nursery, TerraBirds, Native Plant and Seed, Arboretum at Flagstaff, Verde Valley School, AZ Milkweeds for monarchs (sales at Flag Farmer’s Market on Sundays), local plant sales

Learning Opportunities

Friends of the Verde River in Cottonwood, AZ has volunteer opportunities for growing native plants and creating/maintaining gardens. Website: VerdeRiver.org



N O R T H E R N A R I Z O N A
Pollinator Habitat Initiative

FLAGSTAFF POLLINATOR FESTIVAL!!
September 8, 2018 from 10-2 at Buffalo Park
For more information:
[Facebook.com/nazpollinators](https://www.facebook.com/nazpollinators)
[OR nau.edu/green-nau/nazphi/](http://OR.nau.edu/green-nau/nazphi/)