

POLLINATOR HABITAT INSTALLATION PLAN



STEP 1—Habitat Installation Record

1. **Photocopy or print a copy** of this form in advance (www.xerces.org/habitat-assessment-guides);
2. **Record all of the species** initially seeded into the site and any desirable native species remaining after site preparation BEFORE the first monitoring (i.e., during or immediately after planting); AND
3. **Save a copy** of your Plan to work from during each monitoring.

SITE NAME: _____ **INSTALLATION DATE:** _____

KEY SITE DETAILS that may impact wildflower establishment (e.g., weed pressure/species of concern, site history, soil characteristics, etc.):

STEP 2—Site Preparation & Habitat Installation

Site preparation is **one of the most important** and often inadequately addressed components for project success. It is also a process that may require more than one season of effort to reduce competition from invasive, noxious, or undesirable plants prior to planting. *In particular, site preparation should focus on the removal of perennial weeds* (there are more options to address annual or biennial weeds after planting). For more information on recommended site preparation methods, see *Wildflower Establishment: Organic Site Preparation Methods* or other habitat installation guides available at: www.xerces.org/pollinator-habitat-installation-guides.

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|--|--|--|--|
| 1. SITE PREPARATION METHOD(S): <input type="checkbox"/> Solarization <input type="checkbox"/> Soil inversion | <input type="checkbox"/> Smother cropping <input type="checkbox"/> Organic herbicide applications | <input type="checkbox"/> Repeated shallow cultivation <input type="checkbox"/> Sod removal | <input type="checkbox"/> Sheet mulching |
| 2. PLANTING METHOD: <input type="checkbox"/> Broadcasting | <input type="checkbox"/> Drop-seeding | <input type="checkbox"/> Native seed drill | <input type="checkbox"/> Transplants |
| 3. SITE MAINTENANCE DURING ESTABLISHMENT <input type="checkbox"/> Mowing — <i>Mowing for diversity:</i> — Seasonal mowing — Rotational mowing | <input type="checkbox"/> Hand-weeding — <i>Mowing for weed control:</i> — Spot-mowing | <input type="checkbox"/> Grass-selective herbicide <input type="checkbox"/> Conservation haying <input type="checkbox"/> Prescribed fire | <input type="checkbox"/> Spot-spraying <input type="checkbox"/> Weed removal around site edges <input type="checkbox"/> Irrigation <input type="checkbox"/> Grazing |

STEP 3—Plant Selection

Individual species should be chosen to provide **consistent and abundant** floral resources throughout the year. In order to achieve this goal, **at least three species from each blooming period (early, mid, and late season), should be included. The best time for planting most species is in the late fall.** NOTE: *Transplants may be preferred when seed is not available, weed pressure is high, or when a particular species is difficult to establish by seed. Plugs are usually the most cost-effective container size for transplants.*

| DESIRABLE SPECIES | | | IDENTIFYING CHARACTERISTICS | | | | | | | | | |
|--------------------------|----------|--|--|--|--------------------|--|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|
| E | # | COMMON OR SCIENTIFIC NAME | DESCRIPTION (VARIETY OR SUBSPECIES, COLOR, ETC.) | LIFE CYCLE & ABUNDANCE | | BLOOM TIME | | | FORM | | | |
| | | | | ANNUAL | A | C | Early | Mid | Late | Forb | Grass | Woody |
| | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | ANNUAL | A | C | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | | | | PERENNIAL | R | ★ | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| KEY | E | ✓ any ESTABLISHED desirable species that was not installed or part of the seed mix | ABUNDANCE (EXPECTED): | A (Abundant), C (Common), R (Rare), ★ (Early successional/low performance) | BLOOM TIME: | Early (spring), Mid (summer), Late (late summer/fall) | FORM: | Forb (wildflower), Grass (native), Woody (tree or shrub) | | | | |

Example

POLLINATOR HABITAT INSTALLATION PLAN



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3. **Save a copy** of your Plan to work from during each monitoring.

SITE NAME: Oregon Meadow **INSTALLATION DATE:** October 1, 2012

KEY SITE DETAILS that may impact wildflower establishment (e.g., weed pressure/species of concern, site history, soil characteristics, etc.):

Bindweed, plaintain, sorrel, and harding grass were removed from the site during using solarization, but will likely require additional management over time.

STEP 2—Site Preparation & Habitat Installation

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| 1. SITE PREPARATION METHOD(S): <input checked="" type="checkbox"/> Solarization <input type="checkbox"/> Soil inversion | <input type="checkbox"/> Smother cropping <input type="checkbox"/> Organic herbicide applications | <input type="checkbox"/> Repeated shallow cultivation <input type="checkbox"/> Sod removal | <input type="checkbox"/> Sheet mulching |
| 2. PLANTING METHOD: <input checked="" type="checkbox"/> Broadcasting | <input type="checkbox"/> Drop-seeding | <input type="checkbox"/> Native seed drill | <input type="checkbox"/> Transplants |
| 3. SITE MAINTENANCE DURING ESTABLISHMENT: <input type="checkbox"/> Mowing — Mowing for diversity: — Seasonal mowing — Rotational mowing | <input type="checkbox"/> Hand-weeding — Mowing for weed control: — Spot-mowing | <input checked="" type="checkbox"/> Hand-weeding <input type="checkbox"/> Grass-selective herbicide <input type="checkbox"/> Conservation haying <input type="checkbox"/> Prescribed fire | <input checked="" type="checkbox"/> Spot-spraying <input checked="" type="checkbox"/> Weed removal around site edges <input type="checkbox"/> Irrigation <input type="checkbox"/> Grazing |

STEP 3—Plant Selection

Individual species should be chosen to provide **consistent and abundant** floral resources throughout the year. In order to achieve this goal, **at least three species from each blooming period (early, mid, and late season), should be included. The best time for planting most species is in the late fall.** **NOTE:** *Transplants may be preferred when seed is not available, weed pressure is high, or when a particular species is difficult to establish by seed. Plugs are usually the most cost-effective container size for transplants.*

| DESIRABLE SPECIES | | IDENTIFYING CHARACTERISTICS | | | | | | | | |
|-------------------|---|---|--|---|------------|-----|------|------|-------|-------|
| E | # COMMON OR SCIENTIFIC NAME | DESCRIPTION (VARIETY OR SUBSPECIES, COLOR, ETC.) | LIFE CYCLE & ABUNDANCE | | BLOOM TIME | | | FORM | | |
| | 1. California poppy (<i>Eschscholzia californica</i>) | 4 petals, carrot-like leaves | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 2. globe gilia (<i>Gilia capitata</i>) | Purple, "ball"-like | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 3. Farewell-to-spring (<i>Clarkia amoena</i>) | Pink, looks like a poppy | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 4. western yarrow (<i>Achillea millefolium</i>) | white, feathery leaves | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 5. Bigleaf lupine (<i>Lupinus polyphyllus</i>) | Purple, legume, palmate leaves | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 6. oregon sunshine (<i>Eriophyllum lanatum</i>) | Yellow, daisy-like | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 7. Douglas aster (<i>Symphotrichum subspicatum</i>) | Purple, daisy-like | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| | 8. western goldentop (<i>Euthamia occidentalis</i>) | Yellow, small flowers | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| ✓ | 9. Roemer's fescue (<i>Festuca roemerii</i>) | Cool season bunchgrass | ANNUAL PERENNIAL | A C R | Early | Mid | Late | Forb | Grass | Woody |
| KEY | E ✓ any ESTABLISHED desirable species that was <i>not</i> installed or part of the seed mix | ABUNDANCE (EXPECTED): A (Abundant), C (Common), R (Rare), ★ (Early successional/low performance) | BLOOM TIME: Early (spring), Mid (summer), Late (late summer/fall) | FORM: Forb (wildflower), Grass (native), Woody (tree or shrub) | | | | | | |