BEE BETTER CERTIFIED PLANT LIST INSTRUCTIONS

Temporary Habitat Plant List

1. Each Habitat Location must correspond to a row in the table in Section 2.1 of your Bee Better Certified Plan

Permanent Habitat Plant List

- 1. Each Habitat Location must correspond to a completed table in Section 2.2 of your Bee Better Certified Plan
- 2. Approximate the early, middle and late bloom periods based on your local growing season

(the growing season typically occurs between the last frost of the late winter/early spring and the first frost of the late fall/early winter) 3. Estimate abundance of each species in each habitat area.



Local plant books, native plant nurseries, Univeristy Extension programs and Conservation Districts may have information on plant characteristics. There are also many online resources for bloom periods and nesting resource characteristics by species including:

Xerces Society Plant Lists by Region: https://xerces.org/pollinator-resource-center

USDA PLANTS Database: https://plants.usda.gov/home

Ecoregional Revegetation Application (ERA): http://www.nativerevegetation.org/era/

Lady Bird Johnson Widlflower Center: https://www.wildflower.org/plants/

Species scientific name	Species common name	Native? Y/N	Pithy- stemmed?	Nest Cell	Bloom Window	OPTIONAL Number of Plants	Habitat Location(s)	Abundance

Bee Better Certified Permanent Habitat Plant List --- Each Habitat Location must correspond to a completed table in Section 2.2 of your Bee Better Certified Plan

Species scientific name	Species common name	Native? Y/N	Pithy- stemmed?	Nest Cell	Bloom (Early, Mid, Late)	Habitat Location(s)	Abundance

Bee Better Certified Permanent Habitat Plant List --- Each Habitat Location must correspond to a completed table in Section 2.2 of your Bee Better Certified Plan

Ontional Checklist	for Permanent Habitat This information	n must also be completed per habitat area in Section 2.2	of your Ree Retter Certified Plan				
•			of your bee better certifica rian				
Production							
itandard section	anna an an bailtean ata a						
sloom across all p	ermanent habitat sites	Flowering encodes (must be at least 2)	Abundance estatem (must be service or or				
	Season	Flowering species (must be at least 3)	Abundance category (must be common or abundant in each season or sparse or common for desert regions)				
1.2	Early growing season						
	Mid growing season						
	Late growing season						
ollinator Habitat	Planting Stock and Seed						
1.2.b	Number of Native Species	Number of Total Species	Percentage of Native Species (must be 70% in new plantings and 35% in mature/remnant)				
lesting Features							
1.3	Number of plants in the <i>new</i> permanent pollinator habitat plantings	Numbe of plants in the new permanent habitat plantings comprised of pithy-stemmed or nest cell plants	Percentage of plants with pithy-stemmed or nes cell materials (must be at least 5%)				
Suffers		•					
	Yes/No						
	All permanent habitat areas meet the b	puffer requirements					
2.3	If vegetative buffers are used they						
2.5	are designed to maximize drift capture						
	are comprised of densely planted, sma	II-needled evergreen species.					

are designed to grow above spray release height.

Species scientific name	Species common name	Native? Y/N	Habitat Location(s)	Habitat Location(s)

Bee Better Certified Temporary Habitat Plant List --- Each Habitat Location must correspond to a row in the table in Section 2.1 of your Bee Better Certified Plan

Reference Number	Production Standards section	Habitat term	Definition
1	1	Pollinator habitat	Pollinator habitat is defined as areas containing flowering plants and/or nesting sites. Remnant natural habitat, mature created and newly created habitat are all considered pollinator habitat. New habitat is defined as habitat that is less than 3 years old or habitat created following initial certification. Areas dominated by invasive or noxious species cannot be considered pollinator habitat. The Operation must have at least 5% of the farm in pollinator habitat at all times. Of the 5% required, at least 1/5 (1%) must be in permanent habitat. If mass-flowering, pollinator-attracting crops are identified as part of the temporary habitat, they may only account for 1/5 (1%) required acreage in habitat. If certified parcels are disconnected, pollinator habitat should be distributed throughout the parcels, and the sum of the habitat established on all parcels must meet the Bee Better habitat requirements.
2	1.1	Permanent habitat	Permanent habitat is present year-round, although the plants may be in a vegetative or dormant state during the winter. Examples of permanent habitat: Hedgerows, perennial or re-seeding wildflower strips, riparian forests, filter strips. A minimum 5% of new permanent pollinator habitat plantings must be comprised of pithy-stemmed plants, plants that are used for nest cell materials, and butterfly host plants, and some of each category must be included. As long as some permanent habitat is within 1 mile of a certified crop field, the remaining required permanent habitat may be situated up to 100 miles of at least 1 certified crop field.
			If no permanent habitat is situated within 1 mile of at least 1 certified crop field, habitat may be established farther away in conformance with the incremental increase in acreage outlined in standard 1.1.a.ix.
3	1.1.a.ii	Temporary habitat	Temporary habitat may die back annually or be moved around the certified parcels (as is the case with rotating cover crops). Examples of temporary habitat: Cover crops, insectary strips, mass-flowering crops (MFC).
4	1.1.a.iv	Mass flowering crops	Mass flowering crops, of which the primary purpose is revenue, provide abundant floral resources during their bloom period, which is often short. Examples of mass-flowering crops: almond, blueberry, canola and sunflower.
5	1.2	Bloom	Bloom In permanent habitat areas there must be at least three (3) flowering species in each season (spring, summer, fall). Flowering species can include trees, shrubs or forbs known to provide pollen and/or nectar to pollinators.
			In temperate and tropical regions (receiving greater than 25 cm [10"] of precipitation a year on average), the combined vegetative cover of the plant species in bloom should be classified "abundant" or "common" in each season.
			In desert regions (receiving fewer than 25 cm [10"] of precipitation a year on average), the combined vegetative cover of the plant species in bloom should be classified "common" or "sparse" in each season.
			Abundance categories: Abundant: Numerous individuals of the flowering species are present (51 – 100%). Common: Several individuals of the flowering species are present (11 – 50%). Sparse: Only a few individuals of the flowering species are present (1 – 10%). Absent: No flowering species are present (0%).
6	1.2.b	Native Plants	Native plants are defined as species that are indigenous—and occurred historically in the area without human intervention—to a region. Please review the USDA PLANTS database for information on native plants in North America. Please review other regional resources on the website.
7	1.3	Nesting Features	At least 5% of plants in new permanent pollinator habitat plantings must be comprised of pithy-stemmed plants and plants that are used for nest cell materials ; some of each category must be included. Operations are encouraged to prioritize larval host plants for species of butterfly shown to be in decline, such as, in appropriate areas milkweed for monarch butterflies. See Appendix F and G for plant species that use these materials.

8	2.3	Boundaries and buffers	Boundaries and Buffers All permanent habitat areas must be protected from chemical drift. The operation must establish pesticide-free spatial buffer around permanent pollinator habitat. Buffers must be established for the following: 40 foot buffer for most ground-based applications 60 feet for air blast and aerial applications Herbicides must not be applied to plants in bloom (including weeds). Herbicides—except paraquat dichloride—may be used within permanent habitat areas and in buffer areas on non-blooming plants. When spatial buffers are not feasible, a vegetative buffer can be planted to capture chemical drift. See Appendix P for guidance. Minimum width buffers are required within your own property. Where new permanent pollinator habitat is installed on your property a minimum 30-foot buffer must be set aside between the habitat and neighboring farms or land where insecticides are known or suspected to be applied not on your property (including insecticide treated seed).
0	22.5	Versteile huffer	If insecticide application practices change on adjacent properties following habitat creation, buffer requirements can be waived, although a vegetative buffer is recommended when feasible. Vegetative buffer is a border of plants not attractive to polliantors, such as conifers, grown between pollinator habitat and crop fields. It is designed to capture pesticide drift.
9	2.3.c.ii	Vegetative buffer	vegetative buffer is a border of plants not attractive to polliantors, such as confirers, grown between pollinator habitat and crop fields. It is designed to capture pesticide drift.