

# APPENDIX 4: BENEFICIAL BIRD HABITAT ASSESSMENT DATA COLLECTION SHEET



## Site Summary

Farm/Operation Name:
Owner/Operator:
Location Description (address, farm tract and acres):
County:
<b>Before</b> Project Implementation - Assessment Date:
<b>After</b> Project Implementation -Assessment Date:
Designated Conservationist:
Landowner Habitat Objectives Description:
Bird Species Commonly Found on the Farm: (Data not required to use tool)

Section 1: Landscape Features	Before	After	Comments
<b>1a. Percentage of Natural or Semi-natural Vegetation on and off the Farm within a 1.25 Mile Radius from the Farm's</b>			
<i>Vegetation includes grasslands, shrublands, riparian habitat, wetlands, woodlands, and suburban wooded areas with a mix of native, non-native and non-invasive plants. Does NOT include lawns, or heavily grazed or eroded areas.</i>			
<b>1b. Type of Dominant Natural or Semi-natural Vegetation on and off the Farm within a 1.25 Mile Radius from the</b>			
Native plants			
Mix of native, non-native, non-invasive plants			
Non-native, non-invasive plants			
Invasive weeds			

Section 2: Farmscape Features	Before	After	Comments
<b>2a. Percentage of Farm in Natural or Semi-natural Habitat and Opportunities</b>			
<i>This includes vegetation as described in 1a</i>			
<b>2b. Upland Farmscape Features and Opportunities</b>			
Crop edges 100' from frequently travelled roads with native habitat			
Crop edges along roads with native habitat			
Other non-crop areas with native plants			
Other non-crop areas with native plants near noise and intense human activity			
Areas that provide connectivity between native habitat patches			
Invasive species infestations managed			
<b>2c. Water Resource Features and Opportunities</b>			
Top of ditch bank vegetated with native vegetation			
Water source for birds			
Pond of varying depths with vegetation			
Seep or Spring providing water for birds			
Wetland habitat			

<b>Section 2: Farmscape Features <i>continued</i></b>	<b>Before</b>	<b>After</b>	<b>Comments</b>
<b>2d. Riparian Features and Opportunities for Expansion</b>			
Riparian area 10'-20' wide/side			
Riparian area 21'-35' wide/side			
Riparian area 36'-50' wide/side			
Riparian area greater than 50' wide/side			
<b>2e. Perching Features and Opportunities</b>			
Perch located in areas not near high traffic situations			
Perch located in open areas currently without trees			
Perch adjacent to, but not over crops			
Raptor perch located on hilltops not base of hills			
<b>2f. Nesting Features and Opportunities</b>			
Large Nest Box (ex. American Kestrel, Barn Owl, Northern Flicker)			
Small Nest Box (ex. Bluebird, Chickadee, Flycatcher, Nuthatch, Swallow, Titmouse)			
Nest Shelf (ex. American Robin, Barn Swallow, Say's Phoebe)			
Ground Nest (ex. Burrowing Owl)			
Building Eaves (ex. Black Phoebe, Cliff Swallow)			
Five or more nesting features			
Nest structures away from: a) high traffic areas, b) buildings if cats are present, and c) narrow poles less than 3" unless structures have predator guards			
Nest structures away from: a) bright lights and b) intense human noise and activity			

<b>Section 3: Farm Management</b>	<b>Before</b>	<b>After</b>	<b>Comments</b>
<b>3a. Reducing Toxic Pesticide Use</b>			
No pesticides are used - no insecticides, herbicides, rodenticides, or fungicides - including organic approved			
No rodenticides are used - raptors are encouraged and/or rodents monitored and trapped			
Pesticides are used - IPM or organic program is in place			
Pesticides are used - only sprayed outside of birds' breeding period			
Pesticides are used - seeds are not treated with systemic insecticides which kill first instead of using IPM methods			
Pesticides are used - not applied in high winds, groundsprayed within 40' or aerial-sprayed within 60' of habitat, nest structures or water			
Pesticides are used - spray equipment is calibrated annually			
<b>3b. Promoting Biodiversity</b>			
More smaller fields (≤ 10 acres) are planted with native edge habitat and fewer large fields			
A diversity of crops and/or cover crops are planted			
Woody orchard and/or vineyard crops grown to add structure for birds			
Commercial flowers, which have large heads, are grown			
Weedy non-crop areas are planted with native vegetation			
Reduced tillage and increased crop residue practices leave soil covered more often			
Livestock pastures are grazed to encourage tree/shrub diversity and abundance			
<b>3c. Encouraging Coexistence with Birds</b>			
Native birds discouraged when pests present and encouraged remainder of year			
Freshly eaten crops not grown directly under overhanging habitat, nest structures, or perches			
Fire fuel management of plants is done with regard to maintaining habitat for birds			

## Plant List to Be Used in the Tool's Plant Pick List Tab

Use this checklist to document plants located on the farm during the conservation planning process (before taking new steps), and after project implementation.

NOTES: Write notes on locations within farm where native plants are or will be located, such as within field edges, hedgerows, windbreaks, woodlands, waterways, etc.

Before	After	Scientific name	Common name	Notes
		<i>Acer macrophyllum</i>	Maple, Big Leaf	
		<i>Acer negundo</i>	Elder, Box	
		<i>Achillea millefolium</i>	Yarrow	
		<i>Adenostoma fasciculatum</i>	Chamise	
		<i>Aesculus californica</i>	Buckeye, California	
		<i>Agrostis exarata</i>	Bentgrass	
		<i>Alnus rhombifolia</i>	Alder, White	
		<i>Amelanchier alnifolia</i>	Serviceberry, Western	
		<i>Arbutus menziesii</i>	Madrone	
		<i>Arctostaphylos 'Emerald Carpet'</i>	Manzanita, Emerald Carpet	
		<i>Arctostaphylos densiflora</i>	Manzanita, 'McMinn'	
		<i>Arctostaphylos manzanita</i>	Manzanita, Common	
		<i>Arctostaphylos viscida</i>	Manzanita, Whiteleaf	
		<i>Aristolochia californica</i>	Dutchman's Pipe	
		<i>Artemisia californica</i>	Sagebrush, California	
		<i>Artemisia douglasiana</i>	Mugwort	
		<i>Asclepias eriocarpa</i>	Milkweed, Woolypod	
		<i>Asclepias fascicularis</i>	Milkweed, Narrowleaf	
		<i>Asclepias speciosa</i>	Milkweed, Showy	
		<i>Atriplex canescens</i>	Saltbush, Fourwing	
		<i>Atriplex lentiformis</i>	Saltbush, Quailbush	
		<i>Baccharis 'Twin Peaks II'</i>	Coyote Brush, Twin Peaks II	
		<i>Baccharis pilularis</i>	Coyote Brush, Pigeon Point	
		<i>Baccharis pilularis ssp. consanguinea</i>	Coyote Brush	
		<i>Baccharis salicifolia</i>	Mulefat	
		<i>Berberis aquifolium</i>	Oregon Grape	
		<i>Calamagrostis nutkaensis</i>	Nutka Reed Grass	
		<i>Calocedrus decurrens</i>	Cedar, Incense	
		<i>Calycanthus occidentalis</i>	Spicebush	

<i>Before</i>	<i>After</i>	<i>Scientific name</i>	<i>Common name</i>	<i>Notes</i>
		<i>Carex barbarae</i>	Sedge, Valley	
		<i>Carpenteria californica</i>	Bush Anemone	
		<i>Ceanothus 'Concha'</i>	Ceanothus, 'Concha'	
		<i>Ceanothus 'Dark Star'</i>	Ceanothus, 'Dark Star'	
		<i>Ceanothus 'Ray Hartman'</i>	Ceanothus, 'Ray Hartman'	
		<i>Ceanothus cuneatus</i>	Buckbrush	
		<i>Ceanothus gloriosus</i>	Ceanothus, Point Reyes	
		<i>Ceanothus griseus</i>	Ceanothus, Carmel	
		<i>horizontalis</i>	Creeper	
		<i>Ceanothus integerrimus</i>	Ceanothus, Deerbrush	
		<i>Ceanothus thyrsiflorus</i>	Ceanothus, California Lilac	
		<i>Ceanothus thyrsiflorus var. griseus</i>	Ceanothus, Carmel	
		<i>Ceanothus thyrsiflorus var. griseus</i>	Ceanothus, Yankee Point	
		<i>Cephalanthus occidentalis</i>	Button Willow	
		<i>Cercis occidentalis</i>	Redbud, Western	
		<i>Cercocarpus betuloides</i>	Mountain Mahogany	
		<i>Chilopsis linearis</i>	Desert Willow	
		<i>Clarkia amoena</i>	Clarkia, Farewell to Spring	
		<i>Clarkia speciosa</i>	Clarkia, Red Spotted	
		<i>Clematis lasiantha</i>	Clematis, Chaparral	
		<i>Cornus glabrata</i>	Dogwood, Brown	
		<i>Cornus sericea</i>	Dogwood, Western	
		<i>Diplacus aurantiacus</i>	Monkeyflower, Sticky	
		<i>Diplacus grandiflorus</i>	Monkeyflower, Sierra Bush	
		<i>Distichlis spicata</i>	Saltgrass	
		<i>Eleocharis acicularis</i>	Rush, Spike	
		<i>Elymus condensatus</i>	Wildrye, Giant	
		<i>Elymus glaucus</i>	Wildrye, Blue	
		<i>Elymus trachycaulus</i>	Slender wheatgrass	
		<i>Elymus triticooides</i>	Wildrye, Creeping	
		<i>Epilobium canum</i>	Fuschia, California	
		<i>Ericameria nauseosa</i>	Rabbitbrush	
		<i>Erigeron glaucus</i>	Seaside Daisy	
		<i>Eriodictyon californicum</i>	Yerba Santa	

<i>Before</i>	<i>After</i>	<i>Scientific name</i>	<i>Common name</i>	<i>Notes</i>
		<i>Eriogonum fasciculatum</i>	Buckwheat, California	
		<i>Eriogonum giganteum</i>	Buckwheat, Giant	
		<i>Eriogonum latifolium</i>	Buckwheat, Coast	
		<i>Eriogonum parvifolium</i>	Buckwheat, Seacliff	
		<i>Eriogonum umbellatum</i>	Buckwheat, Sulfur	
		<i>Eriophyllum confertiflorum</i>	Golden Yarrow	
		<i>Eriophyllum staechadifolium</i>	Sunflower, Woolly	
		<i>Erythranthe guttata</i>	Monkeyflower, Seep	
		<i>Eschscholzia californica</i>	California Poppy	
		<i>Festuca microstachys</i>	Fescue, Three-Week	
		<i>Festuca rubra</i>	Fescue, Red	
		<i>Fragaria chiloensis</i>	Strawberry, Beach	
		<i>Frangula californica</i>	Coffeeberry	
		<i>Frangula californica</i>	Coffeeberry, Eve Case	
		<i>Frangula californica</i>	Coffeeberry, Mound San Bruno	
		<i>Fraxinus latifolia</i>	Ash, Oregon	
		<i>Fremontodendron californicum</i>	Flannel bush	
		<i>Gambelia speciosa</i>	Island Snapdragon	
		<i>Garrya elliptica</i>	Silktassel Plant	
		<i>Garrya fremontii</i>	Silktassel Plant, Fremont	
		<i>Grindelia camporum</i>	Gumplant, Great Valley	
		<i>Grindelia stricta</i>	Gumplant, Spreading	
		<i>Helianthus annuus</i>	Sunflower	
		<i>Helianthus californicus</i>	Sunflower, California	
		<i>Hesperocyparis macrocarpa</i>	Cypress, Monterey	
		<i>Heteromeles arbutifolia</i>	Toyon	
		<i>Holodiscus discolor</i>	Ocean Spray	
		<i>Hordeum brachyantherum</i>	Meadow Barley	
		<i>Juglans californica</i>	Walnut, California Black	
		<i>Juncus balticus</i>	Rush, Wire	
		<i>Juncus patens</i>	Rush, Common	
		<i>Lonicera hispidula</i>	Honeysuckle	
		<i>Lonicera involucrata</i>	Twinberry	
		<i>Lupinus albifrons</i>	Lupine, Silver Bush	
		<i>Lupinus bicolor</i>	Lupine, Minature	
		<i>Lupinus variicolor</i>	Lupine, Manycolored	
		<i>Malva assurgentiflora</i>	Tree Mallow	

<i>Before</i>	<i>After</i>	<i>Scientific name</i>	<i>Common name</i>	<i>Notes</i>
		<i>Melica californica</i>	California Oniongrass	
		<i>Monardella villosa</i>	Coyote Mint	
		<i>Morella californica</i>	Wax Myrtle	
		<i>Muhlenbergia rigens</i>	Deergrass	
		<i>Nemophila menziesii</i>	Baby Blue Eyes	
		<i>Oenothera elata</i>	Primrose, Hooker's Evening	
		<i>Opuntia basilaris</i>	Pricklypear, Beavertail	
		<i>Penstemon heterophyllus</i>	Penstemon, Foothill	
		<i>Peritoma arborea</i>	Bladderpod	
		<i>Phacelia californica</i>	Phacelia, California	
		<i>Philadelphus lewisii</i>	Mock Orange, California	
		<i>Pinus sabiniana</i>	Pine, Gray	
		<i>Platanus racemosa</i>	Sycamore	
		<i>Populus fremontii</i>	Cottonwood, Fremont	
		<i>Populus trichocarpa</i>	Cottonwood, Black	
		<i>Prunus ilicifolia</i>	Cherry, Hollyleaf	
		<i>Prunus ilicifolia subsp. lyonii</i>	Cherry, Catalina	
		<i>Quercus agrifolia</i>	Oak, Coast live oak	
		<i>Quercus chrysolepis</i>	Oak, Canyon live oak	
		<i>Quercus douglasii</i>	Oak, Blue	
		<i>Quercus dumosa</i>	Oak, Nuttall's Scrub	
		<i>Quercus kelloggii</i>	Oak, California black oak	
		<i>Quercus lobata</i>	Oak, Valley oak	
		<i>Quercus vaccinifolia</i>	Oak, Huckleberry	
		<i>Quercus wislizeni</i>	Oak, Interior live	
		<i>Rhamnus crocea</i>	Redberry	
		<i>Rhamnus ilicifolia</i>	Redberry, Hollyleaf	
		<i>Rhus aromatica</i>	Sumac, Fragrant	
		<i>Rhus integrifolia</i>	Lemonade Berry	
		<i>Rhus ovata</i>	Sugar Bush	
		<i>Ribes californicum</i>	Gooseberry, Fuschia-flowered	
		<i>Ribes malvaceum</i>	Currant, Chaparral	
		<i>Ribes sanguineum</i>	Currant, Red-Flowering	
		<i>Rosa californica</i>	Rose, Wild	
		<i>Rubus ursinus</i>	Blackberry, California	
		<i>Salix laevigata</i>	Willow, Red	

<i>Before</i>	<i>After</i>	<i>Scientific name</i>	<i>Common name</i>	<i>Notes</i>
		<i>Salix lasiandra</i> var. <i>lasiandra</i>	Willow, Yellow	
		<i>Salix lasiolepis</i>	Willow, Arroyo	
		<i>Salvia apiana</i>	Sage, White	
		<i>Salvia clevelandii</i>	Sage, Cleveland	
		<i>Salvia mellifera</i>	Sage, Black	
		<i>Salvia spathacea</i>	Sage, Hummingbird	
		<i>Sambucus nigra</i> ssp. <i>caerulea</i>	Elderberry	
		<i>Scrophularia californica</i>	Bee Plant, California	
		<i>Sequoia sempervirens</i>	Redwood, Coast	
		<i>Sequoiadendron giganteum</i>	Giant Sequoia	
		<i>Solidago californica</i>	Goldenrod, California	
		<i>Spiraea douglasii</i>	Spirea	
		<i>Stachys ajugoides</i>	Hedge Nettle	
		<i>Stachys bullata</i>	Hedge Nettle	
		<i>Stipa pulchra</i>	Purple Needlegrass	
		<i>Symphoricarpos albus</i>	Snowberry	
		<i>Symphoricarpos mollis</i>	Snowberry, creeping	
		<i>Symphyotrichum chilense</i>	Aster, California	
		<i>Trichostema lanatum</i>	Wooly Blue Curls	
		<i>Trichostema lanceolatum</i>	Vinegar Weed	
		<i>Typha latifolia</i>	Cattail	
		<i>Vaccinium ovatum</i>	Huckleberry, California or Evergreen	
		<i>Vitis californica</i>	Wild Grape	