

Species with Mitigation Strategies

The following is a working list of species with specific, stand-alone mitigation-related guidance placed generally in order of robustness in meeting the definition of a comprehensive *mitigation framework*. A *mitigation framework* or *mitigation strategy* is a set of tools for the identification, planning and implementation of mitigation measures to avoid, minimize, restore, and if necessary, offset impacts to species occurring from various development activities. The framework should include methodologies for quantifying impacts and offsets as well as a methodology for selecting the actions necessary to satisfy a project's mitigation obligations such that there is, at minimum, no net loss to the species and preferably an overall positive assist to species conservation.

To add to or update information on this list, please contact Shauna Ginger (USFWS, Oregon): shauna_ginger@fws.gov.

Species ⁱ	Type of Strategy – Documents	Range	Date	Lead
American Burying Beetle (E)	<ul style="list-style-type: none"> • Effects determination guidance <i>Outline of steps to determine species presence</i> • Conservation Strategy <i>impact assessment, mitigation ratios</i> • Mitigation Guidelines <i>for establishment, management, and operation of mitigation lands</i> 	OK	2013	USFWS Oklahoma ES
Black-capped Vireo & Golden-cheeked Warbler (E)	<ul style="list-style-type: none"> • Mitigation Lands Guidance <i>for establishment, management, and operation of mitigation lands</i> • Management Plans <i>Template outline for mitigation lands management plans for each species</i> • CBA Template <i>Conservation banking agreement template</i> 	TX	2013	Austin ES
Florida Scrub Jay (T)	<ul style="list-style-type: none"> • Mitigation Guidance <i>mitigation needs assessment; outline of mitigation choices</i> 	FL	2009	USFWS North FL ES
Utah Prairie Dog (T)	<ul style="list-style-type: none"> • Mitigation Procedures for Section 7 <i>Mitigation ratio process for unavoidable impacts assessed in Section 7 consultations; ratios for banks and in lieu</i> • Credit/Debit Flowchart and Worksheet <i>Steps for determining values for temporary and permanent impacts and conservation banks based on habitat type and quality</i> 	UT	2012	USFWS Utah ES; RC&D Council

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Lesser Prairie Chicken (PT)	<ul style="list-style-type: none"> Stakeholder’s Conservation Strategy HCP/Range Wide Habitat Credit Exchange (<i>draft under review</i>) 	OK, KS, TX, NM, CO	<i>Draft</i> 2013	Stakeholder Group, EDF
Lesser Prairie Chicken (PT)	<ul style="list-style-type: none"> Range-Wide Conservation Plan - includes mitigation strategy (<i>draft under review</i>) 	OK, KS, TX, NM, CO	<i>Draft</i> 2013	WAFWA
Indiana Bat (E)	<ul style="list-style-type: none"> Mitigation Guidance <i>conservation strategy, impact assessment; minimization & mitigation steps, amounts</i> In Lieu Fund and Conservation MOAs 	KY	2010	USFWS Kentucky ES
Valley Elderberry Longhorn Beetle (T)	<ul style="list-style-type: none"> Conservation Strategy <i>survey procedures; avoidance, minimization, restoration, transplantation procedures; monitoring</i> 	CA	1999	USFWS Sacramento ES
Gopher Tortoise (T)	<ul style="list-style-type: none"> Conservation Banking Guidance <i>for development of conservation bank sites though standards would theoretically apply to all compensatory mitigation sites</i> 	LA, MS, AL	2008	USFWS Mississippi ES
Florida Panther (E)	<ul style="list-style-type: none"> Habitat Assessment Methodology <i>habitat impact assessment for compensatory mitigation actions</i> 	FL	2012	USFWS South FL ES
Mazama Pocket Gopher (S) (PT)	<ul style="list-style-type: none"> Priority Habitats and Species Management Recommendations: <i>Avoidance, minimization, and mitigation guidance with method to assess impact area and apply mitigation ratio</i> 	WA	2011	State - WDFW
Golden Eagle (BGEPA)	<ul style="list-style-type: none"> Eagle Conservation Plan Guidance – Wind Module <i>Guides siting, operation and tiered mitigation actions for wind projects REA, Compensatory mitigation triggers and actions, adaptive management, etc</i> 	U.S.	2013	USFWS Regional Mig. Bird
Greater Sage-Grouse (C)	<ul style="list-style-type: none"> Utah Conservation Plan <i>embedded mitigation framework component- outlines mitigation hierarchy based on disturbance, offset ratios</i> 	UT	2013	State - UDNR
	<ul style="list-style-type: none"> Oregon Mitigation Framework <i>Impact assessment/quantification for energy development; mitigation site selection; conservation actions; monitoring</i> 	OR	2012	State - ODFW

Species ⁱ	Type of Strategy – Documents	Range	Date	Lead
	<ul style="list-style-type: none"> • Wyoming Executive Order & Core Area Strategy <i>Defines and limits development based on disturbance and avoidance of core areas</i> 	WY	2011	State -
	<ul style="list-style-type: none"> • Nevada Energy & Infrastructure Development Standards <i>Standards for avoidance, minimization and mitigation for energy development; habitat categories, buffers, BMPs, monitoring, offset ratios</i> • Habitat Category White Paper 2012 (update to categories in 2011 document) 	NV	2011	State-NDOW

The following is a working list of species with mitigation-related documents that are not stand-alone guidance (e.g. HCPs) however the information in these project-specific plans or agreements is fairly robust and could be used to create stand-alone mitigation strategies.

Species ⁱⁱ	Type of Strategy – Documents	Range	Date	Lead
Vernal Pool – 3 Species (T)(E)	<ul style="list-style-type: none"> Programmatic BioP Conservation Strategy <i>Clarifies conservation goals; minimization strategy; streamlines consultations; impact assessment; site suitability and performance standards; mitigation ratios</i> 	OR	2011	USFWS Oregon ES
Santa Rosa Plain – 5 species (E)	<ul style="list-style-type: none"> Multi-species Conservation Strategy <i>Conservation and reserve areas; restoration and management; mitigation project guidelines</i> Interim Mitigation Guidelines (2007 addendum) <i>consistent mitigation approach – ratios, site standards; management; enhancement; translocation; minimization measures; in lieu fund</i> Programmatic BioP with Corps (2007) <i>Covers framework for mitigation, conservation, translocation, preserve criteria, & minimization measures for projects under Corps jurisdiction within Santa Rosa Plains Conservation Strategy study area</i> 	CA	2005	USFWS Sacramento ES
East Alameda County – 19 species (T)(E)(S)	<ul style="list-style-type: none"> Programmatic BioP for Corps Projects Utilizing the 2010 East Alameda County Conservation Strategy <i>Provides framework for avoidance, minimization, compensation/mitigation, and conservation measures for 19 focal species; standardizes mitigation ratios establishes service areas; addresses temporary & permanent impacts and offsets;</i> 	CA	2012	USFWS Sacramento ES
Giant Garter Snake (T)	<ul style="list-style-type: none"> Programmatic Low Effect BioP with Corps <i>Impact assessment (permanent and temporary), restoration and monitoring guidelines, avoidance & minimization measures, mitigation guidelines including ratios</i> 	CA	1997	
Hawaii Species –multiple (T)(E)(S)	<ul style="list-style-type: none"> Several HCPs, including Auwahi Wind Farm (2012), Kaheawa Wind Power I and II (2012), Kawaihoa Wind Power (2011), and Kaua’i Seabird Habitat Conservation Program (2013) <i>avoidance, minimization and compensatory habitat mitigation strategies via HCPs</i> 	HI	2011-2013	USFWS HI ES

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California Species –multiple (T)(E)(S)	<ul style="list-style-type: none"> • NCCP – Natural Community Conservation Planning <i>26 regional plans that identify and provide for the area wide protection of plants, animals, and their habitats, while allowing compatible and appropriate economic activity; many of these have built in mitigation strategies (e.g. Desert Renewable Energy Conservation Plan, 2010)</i> 	CA	Varies	Varies
	<ul style="list-style-type: none"> • 			

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