

Attachment A

Species Benefits by Conservation Plan – GIS Analysis

The following two tables were created by intersecting the GIS layer of NCCP and HCP boundaries with various data sets to show the percentage of a critical habitat area or species range within a given conservation plan. (For species ranges, only selected species with relatively small ranges and a majority or a significant portion of their ranges in one or more planning areas were evaluated.)

On the scoring sheet for Section Nontraditional 6 HCP Assistance grant applications, planning efforts that provide greater benefits to covered species score higher, for both listed and unlisted covered species. On the scoring sheet for HCP Land Acquisition grant applications, acquisitions that provide greater benefit to covered listed species score higher. Major benefits include planning for or acquiring, respectively, the majority of a species' range-wide habitat, an essential piece of habitat, or a major population necessary for recovery.

If you use the table **Species Benefits Based on Critical Habitat of Federally Listed, Proposed and Candidate Species by Conservation Plan**, please cite:

United States Fish and Wildlife Service. 2014. Critical Habitat for Threatened and Endangered Species. *GIS Coverage*. <http://ecos.fws.gov/ecp/report/table/critical-habitat.html>

If you use the table **Species Benefits Based on Fish Ranges, CWHR, and BSSC by Conservation Plan**, please cite the source(s) as follows.

Fish Ranges:

Moyle, P. B., P. Randall, and M. Byrne. 1998. Fish Distributions. *GIS Coverages*. University of California Davis. Department of Wildlife, Fisheries and Conservation Biology. Davis, California. Distributed by California Department of Fish and Wildlife, Sacramento, California.

CWHR (California Wildlife Habitat Relationships)

California Department of Fish and Game. California Interagency Task Group. 2008. CWHR version 8.2 personal computer program. *CWHR GIS Data*. Sacramento, California.

<https://www.wildlife.ca.gov/Data/CWHR>

BSSC (Bird Species of Special Concern)

Shuford, W.D., and Gardali, T., editors. 2008. California Bird Species of Special Concern: A ranked assessment of species, subspecies, and distinct populations of birds of immediate conservation concern in California. Studies of Western Birds 1. Western Field Ornithologists, Camarillo, California, and California Department of Fish and Game. Sacramento. *GIS Coverage intersecting range data with 2.5 square mile hexagon grid*. Distributed by California Department of Fish and Game, Sacramento, California.

<https://www.wildlife.ca.gov/Data/BIOS>

Species Benefits Based on Critical Habitat of Federally Listed, Proposed, and Candidate Species by Conservation Plan (Alphabetical Order)		
Common Name	Scientific Name	% Critical Habitat Falling Within Plan Area
Butte Regional Conservation Plan NCCP/HCP		
Butte County meadowfoam	<i>Limnanthes floccosa ssp. californica</i>	99%
Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	1%
Greene's tuctoria	<i>Tuctoria greenei</i>	<1
Hairy Orcutt grass	<i>Orcuttia pilosa</i>	<1
Hoover's spurge	<i>Chamaesyce hooveri</i>	<1
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	<1
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	9%
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	9%
City of Rancho Palos Verdes NCCP/HCP		
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	1%
Palos Verdes blue butterfly	<i>Glaucopsyche lygdamus palosverdesensis</i>	100%
Coachella Valley Multiple Species NCCP/HCP		
Casey's June Beetle	<i>Dinacoma caseyi</i>	100%
Coachella Valley fringe-toed lizard	<i>Uma inornata</i>	100%
Coachella Valley milk-vetch	<i>Astragalus lentiginosus var. coachellae</i>	100%
Desert tortoise	<i>Gopherus agassizii</i>	3%

Mountain yellow-legged frog	<i>Rana muscosa</i>	<1
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i>	12%
County of Orange Central/Coastal Subregion NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	<1
Braunton's milk-vetch	<i>Astragalus brauntonii</i>	17%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	1%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	1%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	<1
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	1%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Desert Renewable Energy Conservation Plan NCCP/HCP		
Amargosa niterwort	<i>Nitrophila mohavensis</i>	100%
Amargosa vole	<i>Microtus californicus scirpensis</i>	100%
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	2%
Ash Meadows gumplant	<i>Grindelia fraxinipratensis</i>	84%
Bonytail chub	<i>Gila elegans</i>	59%
California condor	<i>Gymnogyps californianus</i>	<1
Cushenbury buckwheat	<i>Eriogonum ovalifolium var. vineum</i>	8%
Cushenbury milk-vetch	<i>Astragalus albens</i>	21%
Desert tortoise	<i>Gopherus agassizii</i>	68%
Inyo California towhee	<i>Pipilo crissalis eremophilus</i>	<1
Lane Mountain milk-vetch	<i>Astragalus jaegerianus</i>	50%
Parish's daisy	<i>Erigeron parishii</i>	29%
Peirson's milk-vetch	<i>Astragalus magdalenae var. peirsonii</i>	100%
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i>	11%
Razorback sucker	<i>Xyrauchen texanus</i>	36%
Sierra Nevada bighorn sheep	<i>Ovis canadensis sierrae</i>	<1
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	11%
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	23%
East Contra Costa County NCCP/HCP		
Alameda whipsnake (=striped racer)	<i>Masticophis lateralis euryxanthus</i>	2%
Antioch Dunes evening-primrose	<i>Oenothera deltoides ssp. howellii</i>	15%
California red-legged frog	<i>Rana draytonii</i>	<1
Contra Costa goldfields	<i>Lasthenia conjugens</i>	9%
Contra Costa wallflower	<i>Erysimum capitatum var. angustatum</i>	15%
Delta smelt	<i>Hypomesus transpacificus</i>	3%
Longhorn fairy shrimp	<i>Branchinecta longiantenna</i>	2%
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	<1
Green Diamond HCP		
Marbled murrelet	<i>Brachyramphus marmoratus</i>	<1
Northern spotted owl	<i>Strix occidentalis caurina</i>	<1
Humboldt Redwoods (was Pacific Lumber) Company HCP		
Marbled murrelet	<i>Brachyramphus marmoratus</i>	5%
Northern spotted owl	<i>Strix occidentalis caurina</i>	<1
Kern County Valley Floor HCP		
Buena Vista Lake ornate Shrew	<i>Sorex ornatus relictus</i>	47%
California condor	<i>Gymnogyps californianus</i>	9%

California red-legged frog	<i>Rana draytonii</i>	<1
California tiger Salamander	<i>Ambystoma californiense</i>	<1
Los Osos Communitywide HCP		
Morro Bay kangaroo rat	<i>Dipodomys heermanni morroensis</i>	12%
Morro shoulderband (=Banded dune) snail	<i>Helminthoglypta walkeriana</i>	29%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Lower Colorado River Multi-Species Conservation Program HCP		
Desert tortoise	<i>Gopherus agassizii</i>	5%
Razorback sucker	<i>Xyrauchen texanus</i>	48%
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	16%
Mendocino Redwood Company NCCP/HCP		
California red-legged frog	<i>Rana draytonii</i>	<1
Marbled murrelet	<i>Brachyramphus marmoratus</i>	<1
Northern spotted owl	<i>Strix occidentalis caurina</i>	<1
Orange County Central/Coastal Subregion NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	<1
Braunton's milk-vetch	<i>Astragalus brauntonii</i>	17%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	1%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	1%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	<1
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	1%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Orange County Southern Subregion HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	2%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	2%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	8%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	<1
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	12%
Orange County Transportation Authority NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	2%
Braunton's milk-vetch	<i>Astragalus brauntonii</i>	17%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	5%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	10%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	<1
Santa Ana sucker	<i>Catostomus santaanae</i>	7%
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	14%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	3%
PG&E Bay Area Operation and Maintenance HCP		
Alameda whipsnake (=striped racer)	<i>Masticophis lateralis euryxanthus</i>	79%
Antioch Dunes evening-primrose	<i>Oenothera deltoides ssp. howellii</i>	33%
Baker's larkspur	<i>Delphinium bakeri</i>	100%
Bay checkerspot butterfly	<i>Euphydryas editha bayensis</i>	51%
California red-legged frog	<i>Rana draytonii</i>	32%
California tiger Salamander	<i>Ambystoma californiense</i>	29%
Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	3%
Contra Costa goldfields	<i>Lasthenia conjugens</i>	35%

Contra Costa wallflower	<i>Erysimum capitatum var. angustatum</i>	33%
Delta green ground beetle	<i>Elaphrus viridis</i>	33%
Delta smelt	<i>Hypomesus transpacificus</i>	13%
Franciscan manzanita	<i>Arctostaphylos franciscana</i>	100%
Longhorn fairy shrimp	<i>Branchinecta longiantenna</i>	5%
Marbled murrelet	<i>Brachyramphus marmoratus</i>	7%
Northern spotted owl	<i>Strix occidentalis caurina</i>	1%
Santa Cruz tarplant	<i>Holocarpha macradenia</i>	4%
Soft bird's-beak	<i>Cordylanthus mollis ssp. mollis</i>	39%
Suisun thistle	<i>Cirsium hydrophilum var. hydrophilum</i>	33%
Tidewater goby	<i>Eucyclogobius newberryi</i>	16%
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	3%
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	5%
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	14%
Yellow larkspur	<i>Delphinium luteum</i>	100%
PG&E San Joaquin Valley Operation and Maintenance HCP		
Alameda whipsnake (=striped racer)	<i>Masticophis lateralis euryxanthus</i>	3%
Buena Vista Lake ornate Shrew	<i>Sorex ornatus relictus</i>	53%
California condor	<i>Gymnogyps californianus</i>	44%
California red-legged frog	<i>Rana draytonii</i>	5%
California tiger Salamander	<i>Ambystoma californiense</i>	30%
Colusa grass	<i>Neostapfia colusana</i>	100%
Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	62%
Delta smelt	<i>Hypomesus transpacificus</i>	15%
Fleshy owl's-clover	<i>Castilleja campestris ssp. succulenta</i>	90%
Fresno kangaroo rat	<i>Dipodomys nitratoideis exilis</i>	100%
Greene's tuctoria	<i>Tuctoria greenei</i>	97%
Hairy Orcutt grass	<i>Orcuttia pilosa</i>	97%
Hoover's spurge	<i>Chamaesyce hooveri</i>	98%
Keck's Checker-mallow	<i>Sidalcea keckii</i>	100%
Large-flowered fiddleneck	<i>Amsinckia grandiflora</i>	50%
Longhorn fairy shrimp	<i>Branchinecta longiantenna</i>	21%
San Joaquin Orcutt grass	<i>Orcuttia inaequalis</i>	98%
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	33%
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	37%
Placer County Conservation Plan Phase I NCCP/HCP		
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	<1
Placer County Conservation Plan Phase II And III NCCP/HCP		
California red-legged frog	<i>Rana draytonii</i>	<1
Sierra Nevada Yellow-legged Frog	<i>Rana sierrae</i>	4%
San Bruno Mountain HCP		
Bay checkerspot butterfly	<i>Euphydryas editha bayensis</i>	2%
San Diego County Multiple Habitat Conservation Program NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	<1
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	3%
Cushenbury oxytheca	<i>Oxytheca parishii var. goodmaniana</i>	4%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	4%

Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	<1
San Diego ambrosia	<i>Ambrosia pumila</i>	1%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	<1
San Diego thornmint	<i>Acanthomintha ilicifolia</i>	4%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	2%
Spreading navarretia	<i>Navarretia fossalis</i>	<1
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	8%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	<1
San Diego County Multiple Species Conservation Program NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	5%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	4%
Cushenbury oxytheca	<i>Oxytheca parishii</i> var. <i>goodmaniana</i>	17%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	5%
Mexican flannelbush	<i>Fremontodendron mexicanum</i>	33%
Otay tarplant	<i>Deinandra (=Hemizonia) conjugens</i>	25%
Quino checkerspot butterfly	<i>Euphydryas editha quino (=E. e. wrighti)</i>	24%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	12%
San Diego ambrosia	<i>Ambrosia pumila</i>	19%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	9%
San Diego thornmint	<i>Acanthomintha ilicifolia</i>	17%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	<1
Spreading navarretia	<i>Navarretia fossalis</i>	8%
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	1%
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	2%
Willow monardella	<i>Monardella viminea</i>	24%
San Diego County Water Authority NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	11%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	16%
Cushenbury oxytheca	<i>Oxytheca parishii</i> var. <i>goodmaniana</i>	19%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	18%
Otay tarplant	<i>Deinandra (=Hemizonia) conjugens</i>	25%
Quino checkerspot butterfly	<i>Euphydryas editha quino (=E. e. wrighti)</i>	6%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	16%
San Diego ambrosia	<i>Ambrosia pumila</i>	28%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	39%
San Diego thornmint	<i>Acanthomintha ilicifolia</i>	19%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	6%
Spreading navarretia	<i>Navarretia fossalis</i>	12%
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	9%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	<1
Willow monardella	<i>Monardella viminea</i>	26%
San Diego East County Multiple Species Conservation Plan NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	16%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	4%
Cushenbury oxytheca	<i>Oxytheca parishii</i> var. <i>goodmaniana</i>	11%

Laguna Mountains skipper	<i>Pyrgus ruralis lagunae</i>	50%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	<1
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i>	61%
Quino checkerspot butterfly	<i>Euphydryas editha quino</i> (=E. e. wrighti)	4%
San Bernardino bluegrass	<i>Poa atropurpurea</i>	31%
San Diego thornmint	<i>Acanthomintha ilicifolia</i>	11%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	3%
San Diego Gas and Electric Subregional NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	32%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	23%
Cushenbury oxytheca	<i>Oxytheca parishii</i> var. <i>goodmaniana</i>	32%
Laguna Mountains skipper	<i>Pyrgus ruralis lagunae</i>	50%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	20%
Mexican flannelbush	<i>Fremontodendron mexicanum</i>	33%
Otay tarplant	<i>Deinandra</i> (=Hemizonia) <i>conjugens</i>	25%
Peninsular bighorn sheep	<i>Ovis canadensis nelsoni</i>	3%
Quino checkerspot butterfly	<i>Euphydryas editha quino</i> (=E. e. wrighti)	27%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	21%
San Bernardino bluegrass	<i>Poa atropurpurea</i>	31%
San Diego ambrosia	<i>Ambrosia pumila</i>	22%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	40%
San Diego thornmint	<i>Acanthomintha ilicifolia</i>	32%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	10%
Spreading navarretia	<i>Navarretia fossalis</i>	12%
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	25%
Tidewater goby	<i>Eucyclogobius newberryi</i>	<1
Western snowy plover	<i>Charadrius alexandrinus nivosus</i>	2%
Willowy monardella	<i>Monardella viminea</i>	26%
San Diego North County Multiple Species Conservation Plan NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	8%
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	10%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	11%
San Diego ambrosia	<i>Ambrosia pumila</i>	2%
San Diego fairy shrimp	<i>Branchinecta sandiegonensis</i>	2%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	5%
Spreading navarretia	<i>Navarretia fossalis</i>	1%
Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	4%
San Joaquin County Multi-Species Conservation and Open Space Plan HCP		
Alameda whipsnake (=striped racer)	<i>Masticophis lateralis euryxanthus</i>	1%
California red-legged frog	<i>Rana draytonii</i>	1%
California tiger Salamander	<i>Ambystoma californiense</i>	5%
Delta smelt	<i>Hypomesus transpacificus</i>	14%
Fleshy owl's-clover	<i>Castilleja campestris</i> ssp. <i>succulenta</i>	1%
Large-flowered fiddleneck	<i>Amsinckia grandiflora</i>	50%
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	2%
Santa Clara Valley Habitat Plan NCCP/HCP		
Bay checkerspot butterfly	<i>Euphydryas editha bayensis</i>	47%

California red-legged frog	<i>Rana draytonii</i>	10%
California tiger Salamander	<i>Ambystoma californiense</i>	10%
Solano County HCP		
California red-legged frog	<i>Rana draytonii</i>	<1
California tiger Salamander	<i>Ambystoma californiense</i>	2%
Conservancy fairy shrimp	<i>Branchinecta conservatio</i>	3%
Contra Costa goldfields	<i>Lasthenia conjugens</i>	19%
Delta green ground beetle	<i>Elaphrus viridis</i>	33%
Delta smelt	<i>Hypomesus transpacificus</i>	8%
Soft bird's-beak	<i>Cordylanthus mollis ssp. mollis</i>	32%
Suisun thistle	<i>Cirsium hydrophilum var. hydrophilum</i>	33%
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	2%
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	5%
South Sacramento HCP		
California tiger Salamander	<i>Ambystoma californiense</i>	3%
Delta smelt	<i>Hypomesus transpacificus</i>	2%
Fleshy owl's-clover	<i>Castilleja campestris ssp. succulenta</i>	<1
Sacramento Orcutt grass	<i>Orcuttia viscida</i>	93%
Slender Orcutt grass	<i>Orcuttia tenuis</i>	1%
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	6%
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	15%
Town of Apple Valley Multi-Species Conservation Plan NCCP/HCP		
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	<1
West Mojave Coordinated Management Plan HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	2%
Cushenbury buckwheat	<i>Eriogonum ovalifolium var. vineum</i>	3%
Cushenbury milk-vetch	<i>Astragalus albens</i>	14%
Desert tortoise	<i>Gopherus agassizii</i>	25%
Inyo California towhee	<i>Pipilo crissalis eremophilus</i>	100%
Lane Mountain milk-vetch	<i>Astragalus jaegerianus</i>	50%
Parish's daisy	<i>Erigeron parishii</i>	22%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	9%
Western Riverside County Multiple Species NCCP/HCP		
Arroyo (=arroyo southwestern) toad	<i>Anaxyrus californicus</i>	4%
Coachella Valley milk-vetch	<i>Astragalus lentiginosus var. coachellae</i>	<1
Coastal California gnatcatcher	<i>Polioptila californica californica</i>	6%
Least Bell's vireo	<i>Vireo bellii pusillus</i>	12%
Mountain yellow-legged frog	<i>Rana muscosa</i>	<1
Munz's onion	<i>Allium munzii</i>	100%
Nevin's barberry	<i>Berberis nevinii</i>	100%
Quino checkerspot butterfly	<i>Euphydryas editha quino (=E. e. wrighti)</i>	15%
Riverside fairy shrimp	<i>Streptocephalus woottoni</i>	12%
San Bernardino Merriam's kangaroo rat	<i>Dipodomys merriami parvus</i>	17%
San Diego ambrosia	<i>Ambrosia pumila</i>	8%
Santa Ana sucker	<i>Catostomus santaanae</i>	44%
Southwestern willow flycatcher	<i>Empidonax traillii extimus</i>	3%
Spreading navarretia	<i>Navarretia fossalis</i>	57%

Thread-leaved brodiaea	<i>Brodiaea filifolia</i>	19%
Vail Lake ceanothus	<i>Ceanothus ophiochilus</i>	100%
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	4%
Yolo Natural Heritage Program NCCP/HCP		
California tiger Salamander	<i>Ambystoma californiense</i>	<1
Colusa grass	<i>Neostapfia colusana</i>	<1
Delta smelt	<i>Hypomesus transpacificus</i>	4%
Solano grass	<i>Tuctoria mucronata</i>	100%
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	<1
Yuba-Sutter Regional Conservation Plan HCP		
Vernal pool fairy shrimp	<i>Branchinecta lynchi</i>	<1
Vernal pool tadpole shrimp	<i>Lepidurus packardi</i>	<1
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	1%

Species Benefits Based on Fish Ranges, CWHR, and BSSC by Conservation Plan (Alphabetical Order)					
Plan Name	Common Name	Scientific Name	% of Fish Range Falling Within Plan Area	CWHR Range Falling Within Plan Area	% of BSSC Range Falling Within Plan Area
Bay Delta Conservation Plan NCCP/HCP	Delta smelt	<i>Hypomesus transpacificus</i>	55		
Bay Delta Conservation Plan NCCP/HCP	Longfin smelt	<i>Spirinchus thaleichthys</i>	49		
Bay Delta Conservation Plan NCCP/HCP	Suisun song sparrow	<i>Melospiza melodia maxillaris</i>			94
Coachella Valley Multiple Species Habitat Conservation Plan NCCP/HCP	Desert pupfish	<i>Cyprinodon macularius</i>	72		
Imperial Irrigation District NCCP/HCP	Colorado River toad	<i>Bufo alvarius</i>		58	
Imperial Irrigation District NCCP/HCP	Fulvous whistling duck	<i>Dendrocygna bicolor</i>			92
Imperial Irrigation District NCCP/HCP	Wood stork	<i>Mycteria americana</i>			89
Lower Colorado River Multiple Species Conservation Plan HCP	Razorback sucker	<i>Xyrauchen texanus</i>	66		
Lower Colorado River Multiple Species Conservation Plan HCP	Couch's spadefoot toad	<i>Scaphiopus couchii</i>		51	
Lower Colorado River Multiple Species Conservation Plan HCP	Elf owl	<i>Micrathene whitneyi</i>		58	
Lower Colorado River Multiple Species Conservation Plan HCP	Lucy's warbler	<i>Vermivora luciae</i>			40
Lower Colorado River Multiple Species Conservation Plan HCP	Summer tanager	<i>Piranga rubra cooperi</i>			37
San Diego County Multiple Species Conservation Program NCCP/HCP	San Diego cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i>			50
San Diego North County Multiple Species Conservation Program NCCP/HCP	San Diego cactus wren	<i>Campylorhynchus brunneicapillus sandiegensis</i>			38
Solano Multi-Species HCP	Suisun song sparrow	<i>Melospiza melodia maxillaris</i>			94
Western Riverside County Multiple Species Habitat Conservation Plan NCCP/HCP	Stephens' kangaroo rat	<i>Dipodomys stephensi</i>		41	

