

DRAFT

Terrestrial and Non-Tidal Natural Community Biological Goals and Subobjectives

Note to Reviewers: Tidal perennial aquatic, tidal brackish emergent marsh, tidal freshwater emergent marsh, and valley/foothill riparian natural community biological subobjectives and conservation measures were previously developed by other Working Groups and Technical Groups and are not repeated in this table.

As stated in draft Chapter 3, Conservation Strategy, the biological goal for all natural communities is: Goal NACO1: Protect, enhance, and restore natural communities to provide habitat and ecosystem functions to increase the natural production (reproduction, growth, and survival), abundance, and distribution of native Delta species.

Natural Community Biological Objectives and Subobjectives	Conservation Measures Serving to Achieve Subobjectives (short-titles, see accompanying handout for conservation measure content)
Agricultural Lands Community	
<i>Objective NACO1.4: Preserve agricultural lands, including rice, alfalfa, field crops, and other irrigated croplands in and adjacent to the Planning Area that are managed to support habitat for native species.</i>	
Subobjective NACO 1.4.1: Annually maintain the current extent and spatial distribution of land in rice production in the Yolo Bypass Restoration Opportunity Area. This subobjective may be partially or fully achieved by maintaining an equivalent extent of natural or managed wetlands that support habitat functions similar to rice lands for associated covered and other native wildlife species.	TRCM1: Acquire and protect natural communities and covered species habitats. TRCM2: Preserve and manage █ acres of agricultural land farmed in rice as habitat for giant garter snake and other associated native species.

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<p>Subobjective NACO1.4.2: Maintain █ acres of lands in alfalfa production to provide habitat for associated covered and other native wildlife species. This subobjective may be partially or fully achieved by maintaining an equivalent extent of other land cover types that support habitat functions similar to alfalfa fields for associated covered and other native species.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p> <p>TRCM3: Maintain agricultural lands as habitat for covered species and other native species.</p>
<p>Subobjective NACO1.4.3: Maintain █ acres as irrigated pasture lands to provide habitat for associated covered and other native wildlife species. This subobjective may be partially or fully achieved by maintaining an equivalent extent of agricultural or other land cover types that support habitat functions similar to irrigated pasture for associated covered and other native species.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p> <p>TRCM3: Maintain agricultural lands as habitat for covered species and other native species.</p>
<p>Subobjective NACO1.4.4: Maintain █ acres in production of annually cultivated irrigated crops to provide habitat for associated covered and other native wildlife species. This subobjective may be partially or fully achieved by maintaining an equivalent extent of agricultural or other land cover types that support habitat functions similar to annually cultivated irrigated cropland for associated covered and other native species.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p> <p>TRCM3: Maintain agricultural lands as habitat for covered species and other native species.</p>

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<p>Subobjective NACO1.4.5: Maintain and protect associated vegetation communities and wildlife habitats that occur within and adjacent to maintained agricultural fields, including isolated valley oak trees, trees and shrubs along field borders and roadsides, remnant groves, riparian corridors, water conveyance channels, grasslands, and wetlands.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>
	<p>TRCM4: Protect patches of natural habitats within maintained agricultural lands.</p>
<p>Subobjective NACO1.4.6: Enhance habitat values for covered species on preserved agricultural lands.</p>	<p>TRCM5: Evaluate maintained agricultural lands to identify opportunities to enhance habitat functions and implement enhancement actions if appropriate.</p>
	<p>TRCM6: Evaluate emergent vegetation cover conditions and establish emergent vegetation if appropriate.</p>
	<p>TRCM3: Evaluate maintained agricultural lands to identify opportunities to enhance habitat functions and implement enhancement actions if appropriate.</p>
	<p>OSCM4: Reduce the load of agricultural pesticides and herbicides entering Delta waterways from in-Delta sources that are believed to be toxic to covered fish species and the food organisms upon which they depend.</p>
<p>Grassland Community</p>	
<p><i>Objective NACO1.5: Preserve grassland communities in and adjacent to the Planning Area that support habitat for associated native species.</i></p>	
<p>Subobjective NACO1.5.1: Protect a total of █ acres of grassland to maintain habitat for covered and other native species.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>
<p>Subobjective NACO1.5.2: Protect █ acres grassland to the west of Clifton Court Forebay to maintain connectivity of San Joaquin kit fox habitat in the Planning Area with adjacent habitat areas.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>

Natural Community Biological Objectives and Subobjectives	Conservation Measures Serving to Achieve Subobjectives (short-titles, see accompanying handout for conservation measure content)
Subobjective NACO1.5.3: Protect █ acres of grassland on the periphery of Suisun Marsh to maintain habitat for covered and other native species and maintain transitional habitat gradients from restored tidal habitats to uplands.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.5.4: Protect █ acres of grassland in the Cache Slough Restoration Opportunity Area to maintain habitat for covered and other native species and to maintain transitional habitat gradients from restored tidal habitats to uplands.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.5.5: Protect █ acres of grasslands in the North Stone Lakes area to create large interconnected patches of protected natural habitat area in conjunction with habitats protected on the Stone Lakes National Wildlife Area.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.5.6: Enhance protected grassland to improve native biodiversity, habitat heterogeneity, and increase the ability of these communities to support populations of covered and other native species.	TRCM7. Prepare and implement habitat enhancement plans for protected alkali wetland and vernal pool complexes and grasslands.
Alkali Seasonal Wetland Complex and Vernal Pool Complex Communities	
<i>Objective NACO1.6: Preserve alkali seasonal wetland complex and vernal pool complex habitats and their watersheds in and adjacent to the Planning Area that support habitat for associated native species.</i>	
Subobjective NACO1.6.1: Protect █ percent of intact alkali seasonal wetland complexes.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.6.2: Protect █ percent of historical or degraded alkali seasonal wetland complexes that could be restored.	TRCM1: Acquire and protect natural communities and covered species habitats.

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Subobjective NACO1.6.3: Enhance the functions of protected alkali seasonal wetland complexes as habitat for covered and other native species.	TRCM7. Prepare and implement habitat enhancement plans for protected alkali wetland and vernal pool complexes and grasslands.
Subobjective NACO1.6.4: Protect <input type="checkbox"/> percent of intact clay alluvium vernal pools and playas in the area between Putah Creek and Cache Slough in and adjacent to the Yolo Bypass.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.6.5: Protect <input type="checkbox"/> percent of intact annual grassland vernal pool complexes in the Stone Lakes area.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.6.6: Protect <input type="checkbox"/> percent of intact alkaline sink/meadow vernal pools in the Bryon and Clifton Court Forebay area.	TRCM1: Acquire and protect natural communities and covered species habitats.
Subobjective NACO1.6.7: Enhance protected vernal pool complexes as habitat for covered and other native species.	TRCM7. Prepare and implement habitat enhancement plans for protected alkali wetland and vernal pool complexes and grasslands.
Non-Tidal Perennial Aquatic and Non-Tidal Freshwater Emergent Wetland Community	
<i>Objective NACO1.7: Preserve non-tidal perennial aquatic and associated non-perennial permanent emergent marsh communities in and adjacent to the Planning Area that support habitat for associated native species.</i>	
Subobjective NACO1.7.1: Protect <input type="checkbox"/> acres of ponds that support reptiles and amphibians and other native wildlife.	TRCM1: Acquire and protect natural communities and covered species habitats.
	TRCM8: Protect ponds supporting habitat for covered reptiles and amphibians.
Subobjective NACO1.7.2: Create and maintain <input type="checkbox"/> ponds that function as habitat for covered reptiles and amphibians and other native wildlife.	TRCM9: Acquire lands for restoring or creating covered species habitats.
	TRCM10: Create ponds that support habitat for covered reptiles and amphibians.

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<p>Subobjective NACO1.7.3: Enhance the function of protected ponds as habitat for covered reptiles, amphibians, and other native wildlife.</p>	<p>TRCM11: Evaluate protected ponds and establish emergent vegetation if appropriate.</p> <p>TRCM12: Evaluate the hydrologic conditions that maintain water in protected ponds and improve conditions if appropriate.</p> <p>TRCM13: Conduct surveys of protected and restored habitats to identify the need to control non-native predators, competitors, and nest parasites and apply control measures as appropriate.</p>
<p>Subobjective NACO1.7.4: Protect <input type="checkbox"/> acres of non-tidal freshwater emergent wetlands in the east Delta.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>
<p>Subobjective NACO1.7.5: Protect <input type="checkbox"/> acres of non-tidal freshwater emergent wetlands in the vicinity of Stone Lakes.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>
<p>Subobjective NACO1.7.6: Protect <input type="checkbox"/> acres of non-tidal freshwater emergent wetlands in the Yolo Bypass Restoration Opportunity Area.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>
<p>Subobjective NACO1.7.7: Protect <input type="checkbox"/> acres of non-tidal freshwater emergent wetlands in the Cache Slough Complex Restoration Opportunity Area.</p>	<p>TRCM1: Acquire and protect natural communities and covered species habitats.</p>
<p>Subobjective NACO1.7.8: Restore or create <input type="checkbox"/> acres of non-tidal freshwater emergent wetlands that improve connectivity among high value habitat areas and that support habitat for covered species, resident and wintering waterfowl, and other native species.</p>	<p>TRCM9: Acquire lands for restoring or creating covered species habitats.</p> <p>TRCM14: Restore or create non-tidal freshwater marshes that support habitat for covered reptiles and amphibians.</p>

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<p>Subobjective NACO1.7.9: Enhance the functions of protected non-tidal freshwater emergent wetlands as habitat for covered and other native species.</p>	<p>TRCM15: Evaluate the habitat functions provided by protected non-tidal freshwater marshes for target covered and other native species and improve habitat functions if appropriate.</p>
	<p>TRCM6: Evaluate emergent vegetation cover conditions and establish emergent vegetation if appropriate.</p>
	<p>TRCM16: Conduct surveys of protected and restored habitats to identify the need to control non-native plant species and apply control measures as appropriate.</p>
	<p>TRCM13: Conduct surveys of protected and restored habitats to identify the need to control non-native predators, competitors, and nest parasites and apply control measures as appropriate.</p>
	<p>TRCM15: Evaluate the habitat functions provided by protected non-tidal freshwater marshes for target covered and other native species and improve habitat functions if appropriate.</p>
<p>Managed Seasonal Wetland Community</p>	
<p><i>Objective NACO1.8: Maintain habitat functions provided by managed seasonal wetlands for covered and other native wildlife species.</i></p>	
<p>Subobjective NACO1.8.1: Annually maintain <input type="checkbox"/> acres of managed seasonal wetlands to provide habitat for covered and other native species, including waterfowl, shorebirds, and other native wildlife for which managed seasonal wetlands are managed. This subobjective may be partially or fully achieved by maintaining an extent of aquatic, wetland, and agricultural communities that support the equivalent habitat functions for native species that are supported by managed seasonal wetlands.</p>	<p>TRCM17. Prepare and implement management plans for managed seasonal wetlands.</p>

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	<p>TRCM18: Implement a landowner incentive program to create summer migratory shorebird habitat.</p> <p>TRCM19: Create and manage managed seasonal wetlands.</p> <p>TRCM1: Acquire and protect natural communities and covered species habitats.</p> <p>TRCM9: Acquire lands for restoring or creating covered species habitats.</p>
<p>Subobjective NACO1.8.2: Manage managed seasonal wetlands that are maintained under BDCP to provide an abundance of high quality food for wintering waterfowl over the primary period wintering waterfowl are present in the Planning Area and Suisun Marsh (i.e., September-March).</p>	<p>TRCM17. Prepare and implement management plans for managed seasonal wetlands.</p>
<p>Subobjective NACO1.8.3: Manage managed seasonal wetlands that are maintained under BDCP to provide shallow open water areas (water depths of less than 6 inches) and mudflats to provide shorebird foraging and resting habitats during spring and fall migration periods.</p>	<p>TRCM17. Prepare and implement management plans for managed seasonal wetlands.</p>