

Table 5. Preliminary Working Draft Biological Goals, Objectives and Conservation Actions for the Santa Clara Valley Habitat Plan: Oak Woodlands, Conifer Woodlands, and Chaparral and Northern Coastal Scrub Natural Communities and Non-Serpentine Covered Plants.

Note: These Goals and Objectives were developed during a workshop in January with Local Partner staff and biologists, Wildlife Agency staff and species experts, outside species experts, and consultants. They have been revised by Jones & Stokes but have not been further refined by workshop participants.

Draft Biological Goals and Objectives	Conservation Actions	Monitoring Action
Ecosystem/Landscape		
TBD		
Natural Communities		
<p>Goal 1. Maintain and enhance functional oak woodland communities [and functions?] and restore valley oak woodland and blue oak woodland to benefit covered species and promote native biodiversity.</p>		
<p>Objective 1.1. Protect ___ acres of valley oak woodland, ___ acres of mixed oak woodland and forest, ___ acres of coast live oak woodland and forest, ___ acres of blue oak woodland, ___ acres of foothill pine-oak woodland, and ___ acres of mixed evergreen forest containing the full range of oak woodland associations and species as part of the Reserve System.</p>	<p>LAND-1. Acquire in fee title or obtain easements on ___ acres of valley oak woodland including land in both the Santa Cruz Mountains and the Diablo Range.</p> <p>LAND-2. Acquire in fee title or obtain conservation easements on ___ acres of mixed oak woodland and forest, including land in both the Santa Cruz Mountains and the Diablo Range.</p> <p>LAND-3. Acquire in fee title or obtain easements on ___ acres of coast live oak woodland and forest including land in both the Santa Cruz Mountains and the Diablo Range.</p> <p>LAND-4. Acquire in fee title or obtain easements on ___ acres of blue oak woodland including land in both the Santa Cruz Mountains and the Diablo Range.</p> <p>LAND-5. Acquire in fee title or obtain easements on ___ acres of foothill pine-oak woodland.</p> <p>LAND-6. Acquire in fee title or obtain easements on ___ acres of mixed evergreen forest.</p> <p>-Add action to emphasize the importance of fire and other natural disturbances [This has been addressed at the landscape level].</p>	

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<p>Objective 1.2. Enhance oak woodland land cover types by promoting regeneration and recruitment of coarse woody debris to sustain the natural processes and native species diversity found in these communities.</p>	<p>OAK-1. Eradicate if feasible, or reduce nonnative pigs through fencing, trapping, or other control methods.</p> <p>OAK-2. Conduct prescribed burns in low-density oak woodlands to enhance the community and to reduce non-native invasive grass cover beneath oaks and encourage growth of a native understory and oak seedlings.</p> <p>RESEARCH-1. Experimentally manage oak woodlands to reduce seedling mortality, increase seedling and sapling survival and determine factors relevant to regeneration, including browsing by mammals, birds, and insects.</p> <p>GRASS-1. Continue or introduce livestock grazing in a variety of grazing regimes to reduce the cover, biomass, and diversity of exotic grasses and herbs.</p> <p>GRASS-4. Selectively apply herbicides or other treatments (e.g., hand or mechanical removal) to eradicate or control invasive plants.</p>	
<p>Objective 1.3. Restore ___ acres of valley oak woodland in the Reserve System.</p>	<p>OAK-3. Restore __ acres of valley oak woodland within the Reserve System in <i>[add general locations when conservation strategy is developed]</i>.</p> <p>OAK-4. Plant valley oaks in the Reserve System in areas where they have been removed, where they are not regenerating naturally, or where densities are low relative to reference stands due to past land uses.</p> <p>See OAK-1 and OAK-2.</p> <p>-Look to Guadalupe Oak Grove in City of San Jose to see how successful their valley oak planting has been.</p>	
<p>Objective 1.4. Restore ___ acres of blue oak woodland in the Reserve System.</p>	<p>OAK-5. Restore __ acres of valley oak woodland within the Reserve System in <i>[add general locations when conservation strategy is developed]</i>.</p> <p>OAK-6. Plant blue oaks in the Reserve System in areas where they have been removed, where they are not regenerating naturally, or where densities are low relative to reference stands due to past land uses.</p> <p>See OAK-1 and OAK-2.</p>	

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<p>Goal 2. Maintain and enhance functional conifer woodland communities to benefit covered species and promote native biodiversity.</p>		
<p>Objective 2.1. Protect ___ acres of redwood forest, ___ acres of ponderosa pine woodland, and ___ acres of knobcone pine woodland containing the full range of conifer woodland and forest associations and species as part of the Reserve System.</p>	<p>LAND-7. Acquire in fee title or obtain easements on ___ acres of redwood forest.</p> <p>LAND-8. Acquire in fee title or obtain easements on ___ acres of ponderosa pine woodland.</p> <p>LAND-9. Acquire in fee title or obtain easements on ___ acres of knobcone pine woodland</p> <p><i>[Note: These conservation actions will be made more specific to each land cover type as they are developed.]</i></p>	
<p>Objective 2.2. Enhance conifer woodland communities by promoting ecologically appropriate structure, density and species composition to preserve and sustain the natural processes and native species diversity found in these communities.</p>	<p>RESEARCH-2. Experimentally manage  wood forest, ponderosa pine woodland, and knobcone pine woodland to determine factors relevant to regeneration and maintenance; possibly including prescribed burning, selective thinning, and other management actions to meet this objective.</p> <p>CONIFER-1. If feasible and desirable, conduct prescribed burns in redwood forest, ponderosa pine woodland, and knobcone pine woodland to maintain and where possible enhance native species diversity in the mid-canopy and understory.</p> <p>CONIFER-2. If appropriate, mechanically thin the understory of redwood forest, ponderosa pine woodland, and knobcone pine woodland in target areas to promote a healthy understory/canopy.</p> <p>-Need to clarify this is not large-scale logging and whether this action would require a Timber Harvest Plan.</p>	
<p>Goal 3. Maintain and enhance chaparral and northern coastal scrub natural communities to benefit covered species and promote native biodiversity.</p>		
<p>Objective 3.1. Protect ___ acres of chaparral and northern coastal scrub containing the full range of chaparral and northern coastal scrub associations and</p>	<p>LAND-10. Acquire in fee title or obtain easements on ___ acres of northern mixed chaparral/chamise chaparral.</p> <p>LAND-11. Acquire in fee title or obtain easements on</p>	

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<p>species as part of the Reserve System.</p>	<p>___ acres of mixed serpentine chaparral.</p> <p>LAND-12. Acquire in fee title or obtain easements on ___ acres of northern coastal scrub/Diablan sage scrub.</p> <p>LAND-13. Acquire in fee title or obtain easements on ___ acres of coyote brush scrub.</p> <p><i>[Note: These conservation actions will be made more specific to each land cover type as they are developed.]</i></p>	
<p>Objective 3.2. Enhance chaparral and northern coastal scrub land cover types by promoting regeneration and succession to sustain the natural processes and native species diversity found in these communities.</p>	<p>RESEARCH-3. Experimentally manage chaparral and northern coastal scrub to determine factors relevant to the health and regeneration of native chaparral/scrub species.</p> <p>CHAP-1. If feasible and desirable, conduct prescribed burns in chaparral and northern coastal scrub to maintain canopy gaps and promote regeneration.</p> <p>CHAP-2. If appropriate, graze or mechanically thin chaparral and northern coastal scrub to promote structural diversity.</p> <p>CHAP-3. Negotiate a let-burn policy in the study area with local and state fire agencies that could include paying ranchers for initial loss of livestock forage and structures (e.g., fences, corrals) to allow fire frequency to return to historic levels and eliminate or reduce need for prescribed burns.</p> <p>CHAP-4. Identify areas in the Santa Cruz Mountains where Douglas fir is encroaching on chaparral scrub land cover and, if appropriate, work to reduce the spread.</p>	
<p>Species</p>		
<p>Goal 7. Protect and increase the size and number of plant populations to maintain viability of big scale balsamroot, chaparral harebell, San Francisco collinsia, Loma Prieta hoita, robust monardella, rock sanicle, Hall's bush mallow within the study area.</p>		
<p>Objective 7.1. Protect and enhance one new population of big scale balsamroot outside of currently protected lands in the study area.</p>	<p>LAND-14. Acquire in fee title or obtain easements on a site that supports big scale balsamroot, including a biologically appropriate buffer to protect it from</p>	

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	<p>incompatible land uses.</p> <p>RESEARCH-4. Experimentally manage this population by establishing exclusionary fencing to protect the population from trampling.</p>	
<p>Objective 7.2. If appropriate, establish __ new populations of big scale balsamroot within the Reserve System.</p>	<p>RESEARCH-5. Identify suitable locations in the Reserve System for establishing new populations of covered plant species. <i>[These may be on the east side of the Santa Clara Valley as the plant's distribution is historically believed to be the eastern San Francisco Bay]</i></p> <p>RESEARCH-6. Experimentally determine and implement suitable propagation or planting techniques for covered plants.</p>	
<p>Objective 7.3. Protect and enhance __ new populations of chaparral harebell, should they be discovered <i>[Note: No extant occurrences known in the study area. Only one record exists of a population in the study area, near the Gilroy Hot Springs; it has not been seen since 1895. Historic site being resurveyed in 2007.]</i></p>	<p>LAND-15. Acquire in fee title or obtain easements on a site that supports chaparral harebell, including a biologically appropriate buffer to protect it from incompatible land uses.</p> <p>See RESEARCH-4.</p>	
<p>Objective 7.4. If appropriate, establish __ new populations of chaparral harebell in the study area from populations within Santa Clara County.</p>	<p>See RESEARCH-5. <i>[These may be on the east side of the Santa Clara Valley as the plant's distribution is historically believed to be the eastern San Francisco Bay]</i></p> <p>See RESEARCH-6.</p>	
<p>Objective 7.5. Protect and enhance one population of San Francisco collinsia that is within the study area.</p>	<p>LAND-16. Acquire in fee title or obtain easements on a site that supports San Francisco collinsia, including a biologically appropriate buffer to protect it from incompatible land uses.</p>	
<p>Objective 7.6. If appropriate, establish __ new populations of San Francisco collinsia in the study area.</p>	<p>See RESEARCH-5.</p> <p>See RESEARCH-6.</p>	
<p>Objective 7.7. If any occurrences of Loma Prieta hoita are impacted by covered activities, protect __ additional occurrence for each impacted one.</p>	<p>LAND-17. Acquire in fee title or obtain easements on __ sites in the study area that support Loma Prieta hoita, including a biologically appropriate buffer to protect it from incompatible land uses.</p>	

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Objective 7.8. Maintain the size or, if feasible, increase the size of protected Loma Prieta hoita populations.	RESEARCH-7. Experimentally manage existing populations to determine appropriate management actions and micro-site needs of covered plants.	
Objective 7.9. Maintain the size or, if feasible, increase the size of protected robust monardella populations.	See RESEARCH-7.	
Objective 7.10. If appropriate, establish __ new populations of robust monardella in the Reserve System.	See RESEARCH-5. See RESEARCH-6.	
Objective 7.11. Maintain the size or, if feasible, increase the size of protected rock sanicle populations in the Reserve System.	See RESEARCH-7.	
Objective 7.12. If appropriate, establish __ new populations of rock sanicle in the Reserve System.	See RESEARCH-5. See RESEARCH-6.	
Objective 7.13. Protect and enhance [3-10] populations of Hall's bush mallow within the study area.	LAND-18. Acquire in fee title or obtain easements on [3-10] sites in the study area that support Hall's bush mallow, including a biologically appropriate buffer to protect it from incompatible land uses.	
Objective 7.14. Maintain the size or, if feasible, increase the size of protected Hall's bush mallow populations.	See RESEARCH-7. CHAP-1. If feasible and desirable, conduct prescribed burns in chaparral and northern coastal scrub to maintain canopy gaps and promote regeneration. CHAP-2. If appropriate, graze or mechanically thin chaparral and northern coastal scrub to promote structural diversity. CHAP-3. Negotiate a let-burn policy in the study area with local and state fire agencies that could include paying ranchers for initial loss of livestock forage and structures (e.g., fences, corrals) to allow fire frequency to return to historic levels and eliminate or reduce need for prescribed burns.	

