

Table S-2. Conservation Strategy Implementation Schedule

Conservation Objectives, Strategies, and Actions	Window for Completion		Year(s) Actually Completed	Responsible Parties	Projected Cost	Funding Source
	YRS 1-5	YRS 1-10				
Objective 1. Determine the Overall Distribution of Columbia Spotted Frogs.	T			NDOW, USFS, BLM		
Strategy 1. Adopt and implement a standard protocol for inventory of Columbia spotted frogs.						
Action 1. Develop a standard protocol for presence or absence surveys.	T		Prior to 1	BRRCC ¹		
Action 2. Implement a standard protocol for presence or absence surveys.	T			NDOW, USFS, BLM	20K(yr)	USFS, USFWS, BLM, NDOW
Strategy 2. Determine the distribution of Columbia spotted frogs on Federal land.						
Action 1. Assess the presence or absence of Columbia spotted frogs at all known historic sites.	T			NDOW, USFS, BLM		
Action 2. Develop a method for identifying potential sites.	T			NDOW, USFS, BLM		
Action 3. Assess the presence or absence of Columbia spotted frogs at potential sites.	T			NDOW, USFS, BLM		
Action 4. Verify and delineate conservation units.	T			NDOW, USFS, BLM		
Action 5. Create a detailed map of historic and potential sites using GPS and GIS.	T			NDOW, USFS, BLM, NNHP		
Action 6. Maintain a detailed map of historic and potential sites using GPS and GIS.		T		NNHP		
Strategy 3. Determine the distribution of Columbia spotted frogs on non-federal land.						
Action 1. Identify known and potential Columbia spotted frog sites from existing information.	T			NDOW, USFS, BLM		
Action 2. Secure permission from willing non-federal landowners or controlling authorities to access property.	T			NDOW, USFS, BLM		
Action 3. Assess the presence or absence of Columbia spotted frogs at all accessible sites.	T			NDOW, USFS, BLM		
Action 4. Verify and delineate conservation units.	T			NDOW, USFS, BLM		

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Action 5. Create a detailed map of these sites using GPS and GIS.	T			NDOW, USFS, BLM, NNHP		
Action 6. Maintain a detailed map of these sites using GPS and GIS.		T		NNHP		
Action 7. Evaluate the significance of Columbia spotted frog population units and habitat on non-federal lands to the conservation of Columbia spotted frogs.	T			All		
Strategy 4. Prevent the spread of frog diseases and pathogens between populations.						
Action 1. Adopt a disease and pathogen protocol for aquatic field crews to prevent the spread of frog diseases and pathogens between populations.	T		1	NDOW, USFS, BLM		
Action 2. Require state and federal aquatic field crews to implement adopted disease and pathogen protocol for the Columbia spotted frog and other aquatic species inventory and monitoring activities.	T	T		NDOW, USFS, BLM		
Action 3. Incorporate disease and pathogen protocols into research and collection permits issued under state and federal agency authorities.	T			NDOW, USFWS		
Objective 2. Assess the Abundance of Columbia Spotted Frogs, Habitat Conditions, and Existing and Potential Threats at Occupied Sites.		T		NDOW, USFS, BLM		
Strategy 1. Monitor occupied sites on accessible lands to assess abundance of Columbia spotted frogs.						
Action 1. Develop a process for prioritizing sites and monitor them on a cyclic basis to develop long-term trend data.	T			All		
Action 2. Monitor occupied sites using developed prioritization protocol for long-term trend data collection.				NDOW, USFS, BLM		
Action 3. Establish sentinel sites and conduct annual monitoring to collect long-term trend data.		T		NDOW, USFS, BLM	10K(yr)	USFWS, USFS, BLM, NDOW
Strategy 2. Assess and evaluate habitat conditions at potential and occupied sites on accessible lands.						

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Action 1. Prioritize potential and occupied sites and develop a process for assessing, evaluating, and categorizing habitat conditions at each site on a cyclic basis.	T			All		
Action 2. Incorporate standardized habitat monitoring protocols into animal survey and monitoring activities identified under Objectives 1 and 2.				NDOW, USFS, BLM		
Action 3. Identify the range of habitat conditions which are optimum to allow Columbia spotted frog persistence.	T			All		
Strategy 3. Identify and assess the existing and potential threats at each occupied site.						
Action 1. Identify the threats at each occupied site on a cyclic basis.		T		All		
Action 2. Assess the degree and imminency of each threat at each site.		T		All		
Strategy 4. Create and maintain a database for the storage of data and other information collected.						
Action 1. Create a database for the storage of data and other information collected.	T			NDOW, USFS, BLM, NNHP		
Action 2. Maintain a database for data and other information collected.		T		NNHP		
Objective 3. Ensure that Viable Populations and Their Habitats Are Managed and Enhanced to Ensure the Continued Existence of Columbia Spotted Frogs Throughout Their Historic Range.		T		NDOW, USFS, BLM		
Strategy 1. Identify, prioritize and implement site-specific actions to reduce the existing and potential threats to Columbia spotted frogs on Federal lands as identified in Objective 2.						
Action 1. Prioritize conservation units for conservation actions.		T		All		
Action 2. Develop a detailed monitoring plan for Columbia spotted frog populations and habitats.				NDOW, USFS, BLM		
Action 3. Develop a Columbia Spotted Frog Species Management Plan.				NDOW		

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Action 4. Manage, restore, and/or enhance existing riparian and spring ecosystems to sustainable condition to benefit all life stages of Columbia spotted frogs.		T		USFS, BLM		
Action 5. Identify, restore, and/or enhance and manage areas of historic unoccupied and potential Columbia spotted frog habitat within the presumed historic range of the species to benefit all life stages of Columbia spotted frogs.		T		USFS, BLM		
Action 6. Identify and manage dispersal corridors, including terrestrial upland habitats important to Columbia spotted frogs, to maximize ecological connectivity between occupied/restored frog habitats.		T		USFS, BLM		
Action 7. Implement activities identified in Actions 1 through 5 on an annual basis as defined in the Annual Action Plans developed by the CSFTT (Objective 6, Strategy 1, Action 6).				All		
Strategy 2. Encourage non-federal landowners to conserve viable populations of Columbia spotted frogs and their habitats.						
Action 1. Identify potential locations and cooperators for conservation efforts on non-federal lands.		T		All		
Action 2. Provide technical assistance to willing landowners to develop Candidate Conservation Agreements with Assurances.		T		USFWS, NDOW		
Action 3. Work with landowners to use available incentive programs such as the Partners for Fish and Wildlife Program and the Conservation Reserve Program to protect and restore Columbia spotted frog habitat.		T		USFWS, NDOW		
Objective 4. Conduct Research that Directly Supports Conservation and Management of Columbia Spotted Frogs and Their Habitat.		T		NDOW, USFS, BLM, USFWS		
Strategy 1. Identify and recommend projects to address known research needs and incorporate data into the Conservation Strategy through the adaptive management process.						
Action 1. Incorporate identified research needs into CSFTT annual action plan commitments (Objective 6, Strategy 1, Action 6).				All		

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Action 2. Utilize research findings in annual program assessments and adaptive management reviews of the Strategy.				All		
Strategy 2. Implement and maintain a process for identifying future research needs and incorporating research projects into the Strategy.						
Action 1. Assess research needs on an ongoing basis.		T		All		
Action 2. Develop a prioritized list of research needs.	T			All		
Action 3. Maintain a prioritized list of research needs.		T		All		
Action 4. Incorporate research needs into the Strategy by identifying lead entity(s), budget and time schedule.				All		
Action 5. Implement proposed research actions as approved by the CSFTT.				NDOW, USFS, BLM		
Action 6. Incorporate data findings into the Strategy through the adaptive management process to ensure that goals and objectives are ultimately met.				All		
Objective 5. Implement through Administrative Procedures CAS and Incorporate Provisions of the Strategy into Agency Planning Documents and Budgets to Ensure the Conservation Goals and Objectives Are Met in a Consistent Manner.		T		All		
Strategy 1. Enforce existing policies, laws and regulations.						
Action 1. Review existing policies, laws and regulations at least biennially and assess their adequacy to protect Columbia spotted frogs and their habitat.	T			All		
Action 2. Maintain the Columbia spotted frog on protected or sensitive species lists of cooperator agencies.				NDOW, USFS, BLM		
Action 3. Conduct section 7 consultation under ESA for Columbia spotted frog projects that may affect federally listed species.		T		USFWS, USFS, BLM		
Action 4. Periodically evaluate species status under section 4 of ESA.		T		USFWS		

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Strategy 2. Identify and implement non-site specific actions, policies, and procedures to reduce existing and potential threats to population units of Columbia spotted frogs as identified in Objective 3.						
Action 1. Identify non-site specific actions, policies, and procedures to reduce the existing and potential threats to Columbia spotted frogs.		T		All		
Action 2. Implement non-site specific actions, policies, and procedures to reduce the existing and potential threats to Columbia spotted frogs.		T		All		
Strategy 3. Review forest, land, and resource management plans to determine if plan objectives are in conformance with spotted frog conservation goals, objectives, strategies, and actions.						
Action 1. Consider and incorporate CAS conservation goals, objectives, strategies, and actions that would require an amendment to the Humboldt/Toiyabe Land and Resource Management Plan during the forest plan revision process scheduled for completion in 2006/2007.				USFS		
Action 2. Consider and incorporate amendments to BLM management plan documents as appropriate and necessary to implement any of the CAS conservation goals, objectives, strategies, and actions, as those plan documents are scheduled for review and revision.				BLM,		
Action 3. Maximize retention of Federal lands supporting Columbia spotted frogs or potential frog habitat.		T		USFS, BLM		
Strategy 4. Incorporate conservation goals, objectives, strategies, and actions of CAS into agency budget requests and based on funding, revise Strategy as necessary, to update implementation schedule.						
Action 1. Conduct annual workload analysis to determine the budgetary and biological staffing needs to accomplish conservation actions identified in the implementation schedule.		T		All		
Action 2. Provide CSFTT members' respective managers with annual conservation action proposals for funding the following year.		T		All		

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Action 3. Pursue alternative funding strategies and partnerships to supplement agency work programs as opportunities are identified and available.		T		All		
Strategy 5. Ensure implementation of the CAS through the CSFTT partnership process.						
Action 1. Implement team responsibilities as defined in the CAS implementation strategy.				All		
Objective 6. Develop and Implement an Interagency Adaptive Management Framework Partnership.		T		All		
Strategy 1. Develop and implement an interagency adaptive framework process that ensures adaptive management is incorporated into the implementation of the Strategy.						
Action 1. Review Strategy progress and implement any changes through an adaptive management process as needed.		T		All		
Action 2. Monitor the effectiveness of each action on a set schedule to determine if the expected results are being attained within the given time frame.		T		All		
Action 3. If actions are not effective, modify the strategy to implement alternative measures to ensure that goals and objectives are ultimately met.		T		All		
Action 4. Ensure that data from inventory, monitoring, and research efforts are incorporated into the Strategy through the adaptive management framework.		T		All		
Action 5. Modify and/or update the implementation schedule yearly.		T		All		
Action 6. Develop an annual action plan of site-specific management commitments by cooperator, which are keyed to conservation objectives of the Strategy and Species Management Plan, research findings, and adaptive management review.		T		All		
Objective 7. Support the CAS by Increasing Public Awareness and Appreciation for Columbia Spotted Frogs and Their Habitat, and by Making Data and Information Available to Interested Parties and Decision Makers.		T		All		

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Strategy 1. Encourage citizen and landowner participation in CAS implementation.						
Action 1. Develop brochures and other materials on Columbia spotted frogs and their management needs for dissemination to the public for education purposes.	T			All		
Action 2. Distribute informational materials as developed to the general public, recreational users, private landowners and to other customers who may be involved in actions affecting Columbia spotted frogs and their habitat.		T		All		
Action 3. Develop educational and informational materials on Columbia spotted frogs and their habitat/management needs for distribution through other media sources including newspapers and television.		T		USFWS, USFS, BLM, NDOW, NNHP		
Action 4. Develop a program to encourage volunteer public and private land conservation efforts.	T			USFWS, USFS, BLM, NDOW		
Strategy 2. Develop a process for collecting and maintaining data and information for distribution to stakeholders and decision makers.						
Action 1. Create a depository for storage of data from inventory, monitoring, and research efforts.	T			NNHP		
Action 2. Maintain the depository.		T		NNHP		
Action 3. Data and information developed through actions of this Strategy will be available to and shared among cooperators.		T		All		

¹ BRRC = Biological Resources Research Center (BRRC), University of Nevada, Reno, Nevada