

Table 7-4. Species-Level Monitoring Actions and Example Monitoring Approaches and Metrics

Species-Level Monitoring Action	Objective	Approach ¹		Metrics ¹
		Method	Schedule	
SLM1. Document the status of covered species on BRCP conservation lands (protected existing and restored habitats)	Document trends in the status of covered species on BRCP conservation lands to inform future BRCP implementation through the adaptive management decision making process	Applicable survey methods described in Tables 6-1 and/or 6-2 ²	Every five years for each conservation land management unit	Change in the status of each covered species (e.g., abundance)
SLM2. Monitor tricolored blackbird nesting success on BRCP conservation lands	Document presence of breeding colonies and nesting success	See Table 6-2	Ongoing observation of habitat areas in the course of conducting land management and other monitoring activities	Location and number of active nesting colonies Colony size Change in fledging success
SLM3. Document the status of bank swallow on BRCP conservation lands	Document presence of breeding colonies	Visual surveys of suitable channel bank habitat	Ongoing observation of habitat areas in the course of conducting land management and other monitoring activities	Location and number of active nesting colonies Colony size
SLM4. Document use of greater sandhill crane roost sites	Document use of created roost sites by cranes to inform future roost site management through the adaptive management decision making process	Visual observation of cranes using roost sites Counts of cranes flying into or from roost sites	Ongoing observation of habitat areas in the course of conducting land management and other monitoring activities	Use of created roost sites by cranes Inter-and intra-annual abundance of cranes using roost sites
SLM5. Monitor covered and other native raptor nesting on BRCP conservation lands	Document the breeding pairs and nesting success of covered and other raptors	Visual observation of occupied nest sites and number of fledglings	Ongoing observation of habitat areas in the course of conducting land management and other monitoring activities	Trend in the number of occupied nest sites by species and nesting success

Table 7-4. Species-Level Monitoring Actions and Example Monitoring Approaches and Metrics (continued)

Species-Level Monitoring Action	Objective	Approach ¹		Metrics ¹
		Method	Schedule	
SLM6. Monitor western yellow-billed cuckoo nesting	Document breeding pairs and nesting success	See Table 6-2	Every five years for each conservation land management unit	Trend in the number of occupied nesting territories and nesting success
SLM7. Monitor giant garter snake and western pond turtle abundance and use in restored BRCP giant garter snake habitat	Document presence, density, age structure	Visual surveys and establishment of trap transects based on current USFWS or other approved protocols	5 events in first 10 years following restoration of habitat, thereafter monitored under action SLM1	Change in the status of each covered species (e.g., presence, density, age and sex structure)
SLM8. Monitor salmonid spawning in gravel replenishment sites	Document salmonid spawning in BRCP placed spawning gravels and assess need for subsequent replenishment of gravel placement sites	Visual observation of spawning salmonids Estimate of number of redds	Annually during salmonid spawning periods following periods until consistency of spawning use is confirmed. Subsequent survey frequency to be determined by BCAG during implementation.	Year over year presence and abundance of spawning salmonids
SLM9. Monitor BRCP reestablished covered vernal pool plant and shrimp species occurrences	Document the success of covered plant reestablishment (growth, survival, reproduction) and to provide information necessary to adjust reestablishment methods through the adaptive management decision making process	Site-specific survey protocols developed by BCAG before implementing reestablishment actions	Every year for 5 years following initial reestablishment actions, thereafter monitored under action SLM1	Documentation of the establishment of reproducing plant species Year over year abundance and distribution of plants Year over year seed production Presence of pollinators and establishment of pollinator host plants

Table 7-4. Species-Level Monitoring Actions and Example Monitoring Approaches and Metrics (continued)

Species-Level Monitoring Action	Objective	Approach ¹		Metrics ¹
		Method	Schedule	
SLM10. Monitoring of covered species use of habitat enhancement projects on existing protected lands	Document the response of target covered species to individual habitat enhancement actions and to provide information necessary to adjust enhancement actions and methods through the adaptive management decision making process	Enhancement action-specific survey protocols developed by BCAG before implementing the action	Variable, depending on when enhancement agreements are made with land managers and when actions are implemented	Enhancement action-specific metrics developed by BCAG before implementing the action

¹Represents the anticipated initial approach and metrics. The initial approach, schedule, and metrics used at the time BRCP implementation commences may differ and these monitoring elements are subject to ongoing change over the term of the BRCP through the adaptive management decision making process described in Section 7.3, *Adaptive Management Plan*.

²For species for which survey methods are not identified in Tables 6-1 or 6-2 survey methods will be developed by BCAG and identified in the BRCP monitoring plan as described in Section 7.2.4, *Monitoring Plan Content and Schedule*.