

Taylor's Checkerspot Butterfly Draft Action Plan - Updated 7 Nov 2013

Strategic Action	Task	All	OR	SS	CC	BC	Status and Implementing Party (Options: Ongoing, In Progress, Planned, or No Action Yet)						
1. Protect Occupied and Other Key Sites	1.1	1. Pursue conservation easements, acquisitions, and management agreements.											
	1.1.a	a. Work with BPA to develop and implement management agreements at Fitton Green and Scatter Creek.						3					
	1.1.b	b. Pursue acquisition or conservation easement with willing sellers at Bald Hill, Clallam County Balds, Denman Island Private Land and Fitton Green.						5	4				
	1.1.c	c. Finalize voluntary management plans on private land (Clallam County Balds, Denman Island, Bald Hill) under the guidance of WDFW & DNR Forest Practices Board.											
	1.2	2. Minimize Direct Impacts to Occupied Sites.							6				
	1.2.a	a. Redirect ATV use, especially at Dan Kelly Ridge and Denman Island Provincial Park.							In progress (at Dan Kelly)				
	1.2.b	b. Minimize incompatible recreation, especially at Scatter Creek.							In progress (ONF)				
	1.2.c	c. Minimize training impacts and manage wildfire (in concert with consultation), especially at R74/76, R51.											
2. Improve/Expand/Enhance Habitat	2.1	1. Assess and control/remove invasive species and structural modifiers, and assess and enhance larval food and nectar plants as appropriate.						2	2	2	2	2	Ongoing
	2.2	2. Develop management/restoration plans including fire at occupied and unoccupied sites. Sites include JBML, DNR lands in Clallam County, ONF, and all BC sites. Lower priority in OR.						3		3	3	3	In progress (ONF)
	2.3	3. Ensure South Sound and BC release sites are in suitable condition.								8		4	
	2.4	4. Improve connectivity between occupied areas and/or suitable habitat.									9		
	2.5	5. Improve larval and nectar plant materials production throughout the range.											
	2.6	6. Link restoration efforts to other species at risk that results in larger distribution of healthy functioning ecosystem (e.g. through funding, communications, messaging, political/public support).											In Progress (ONF)
3. Increase Population Sizes and Number of Populations	3.1	1. Continue to implement captive rearing and reintroduction programs (including monitoring source and release sites) in South Sound.								4			
	3.2	2. Identify and prioritize potential future release sites in coordination with recovery planning efforts and entities.							4				
	3.3	3. Assess the need and potential for reintroduction in areas outside South Puget Sound, particularly in North Sound.											
	3.4	4. Develop new or additional facilities for captive rearing in Benton County and Denman Island.											
	3.5	5. Assess the need and potential to augment existing populations in coordination with recovery planning efforts and entities.											
4. Survey/Monitor	4.1	1. Annually monitor all known populations.						1	1	1	1	1	Ongoing (ONF)
	4.2	2. Develop a standardized survey and monitoring protocol to determine occupancy, trends, distribution, and abundance.							8	10		7	
	4.3	3. Develop a methodology for calculating an estimate of population size.								9			
	4.4	4. Survey suitable habitat for additional populations and/or expansions. Perhaps prioritize regions/areas?									5		Ongoing (ONF)
5. Research	5.1	1. Define habitat restoration targets through research.											
	5.1.a	a. Evaluate quality of various host species in relation to butterfly performance in all life stages (phenology, chemical content, abundance, etc.).							6	7		5	
	5.1.b	b. Research and develop best management practices for using fire in relation to butterfly recovery.								6	7		
	5.1.c	c. Improve our understanding of the influence of weather and climate on population dynamics and reintroductions.											
	5.1.d	d. Assess the need and potential for wet prairie and deep soil sites to contribute to recovery.											
	5.1.e	e. Define butterfly habitat selection through research, i.e. oviposition & adult habitat, nectar and larval food plant density, phenology, soil type/structure, and spatial arrangement.											In progress. Ovipos. Complete in Clallam Co., AIA, OR.
	5.1.f	f. Determine the characteristics of occupied habitat, with respect to nectar plants, host plants, and vegetation structure.											
	5.1.g	g. Identify pre and post diapause food plants, particularly in the Olympia Peninsula.											Ongoing (ONF)
	5.2	2. Conduct genetic and meta-population studies to determine population isolation/diversity.							7		6		In Progress (ONF)
	5.2.a	a. Determine the appropriate taxonomy for populations identified as <i>E. e. taylora</i> using genetic analyses.											
5.2.b	b. Determine the degree of genetic structuring within and between populations of <i>E. e. taylora</i>												
5.3	3. Evaluate effects of habitat management on <i>Eet</i> populations.							9			8	Ongoing (ONF)	
5.4	4. Collect information on plantago pathogen in order to identify and calculate the level of risk to <i>Eet</i> .												
6. Policy and Outreach	6.1	1. Develop Recovery Plan.								5	8		Completed in B.C.
	6.2	2. Inform and discuss effects of ESA status and cooperatively develop solutions. (e.g. monitoring & project survey requirements, recovery planning, conservation measures).											
	6.3	3. Share information between entities, establish partnerships, and maintain a working group.											
	6.4	4. Share information about listing and conservation to landowners that do or may have occupied or suitable habitat.											