

FORM 1 of 13: DESCRIPTIVE STATISTICS ABOUT PLANS

FINAL VERSION, Created: 1999-01-27

1	Plan code	
2	Species code	
3	Student code	

General descriptive questions about the recovery plan.

#	Answer each of the following questions regarding the species' recovery plan.	
4	Plan code	
5	Number of species in plan (include listed and non-listed species)	
6	Is this plan a single species plan, a multiple species plan, or identified as an ecosystem-based plan?	
7	Total # of pages [including appendices]	
8	Total # of tasks in recovery outline	
9	Date recovery plan approved [YYYY]	
10	Date recovery plan approved [MM]	
11	Date recovery plan approved [DD]	
12	Has the original plan been revised?	
13	Date of 1st revision [YYYY]	
14	Date of 2nd revision [YYYY]	
15	Date of 3rd revision [YYYY]	
16	Date of 4th revision [YYYY]	
17	Is this plan a revision of the species' recovery plan?	
18	What motivated revision of the recovery plan?	
19	Who primarily drafted the plan?	
How many individuals from each category below actively participated in plan development (e.g. were a member of a recovery team)?		
20	a. USFWS/NMFS employees	
21	b. Other federal employees	
22	c. State/local resource agency employees	
23	d. Other state/local government employees	
24	e. Tribal groups	
25	f. Consultants	
26	g. Private individuals	
27	h. Business/industry representatives	
28	i. Academic scientists	
29	j. Environmental organization representatives	
30	k. Other individuals not listed above	
31	What was the affiliation of the team leader or individual who drafted the plan?	
32	Number of species experts involved in drafting the recovery plan?	
33	Does the plan include an index of public comments?	
How many people/organizations from each category below submitted comments?		
34	a. USFWS/NMFS employees	
35	b. Other federal employees	
36	c. State/local resource agency employees	
37	d. Other state/local government employees	
38	e. Tribal groups	
39	f. Consultants	
40	g. Private individuals	
41	h. Business/industry representatives	
42	i. Academic scientists	
43	j. Environmental organization representatives	
44	k. Other people/organizations not listed above	

FORM 2 of 13: DESCRIPTIVE STATISTICS ABOUT SPECIES

FINAL VERSION, Created: 1999-01-27

45	Plan code	
46	Species code	
47	Student code	

General descriptive questions about the species.

#	Answer each of the following questions regarding the subject species.	
48	Genus name (eg., "Pinus")	
49	Species name (eg., "contorta")	
50	Taxonomic subdivision (eg., "ssp. bolanderi")	
51	Taxonomic authority for lowest subdivision (eg., "(Parl.) Critchf.")	
52	Common name (eg., "Bolander pine")	
53	Taxonomic level	
54	ESA listing status	
55	Date of the species' ESA listing (YYYY)	
56	Date of the species' ESA listing (MM)	
57	Date of the species' ESA listing (DD)	
58	Has Critical Habitat been designated?	
59	Date of Critical Habitat designation (YYYY)	
60	Date of Critical Habitat designation (MM)	
61	Date of Critical Habitat designation (DD)	
62	USFWS recovery priority for species: 1 - 18, +/- C	
63	Does the plan refer to this species as a keystone species?	
64	Does the plan refer to this species as an umbrella species?	
65	Does the plan refer to this species as an indicator species?	
66	Species' taxon	
67	What is the species' principal ecological role?	
68	What is the species' home range radius?	
69	How large was the historic range of the species?	
70	Within the historic range of the species, how were populations distributed?	
71	How large was the range of the species at the time the plan was developed?	
72	Within the range of the species at the time the plan was developed, how were populations distributed?	
73	What is the principal ecotype in which the species occurs?	
74	Is the species a habitat specialist or generalist?	
75	What is the successional stage of the species' principal habitat?	
76	In what geographic region does the species occur?	
77	Does the species occur in more than one country?	
78	Does the species occur in more than one state?	
79	USFWS/NMFS region responsible for coordinating recovery of species	
80	What proportion of the species' primary habitat occurs on Federal vs. non-Federal land?	
81	How much of the species' current range is actively managed to reduce threats?	
82	According to FWS reports to Congress, what is the most recent reported trend in species status?	
83	Does the recovery plan identify specific habitat areas that FWS considers important for recovery?	
84	Is there a recovery task to identify or re-evaluate such habitat?	
85	Does the recovery plan define actions that would constitute "take" of the species prohibited under section 9 of the Endangered Species Act?	

FORM 3 of 13: WHAT WE KNOW, PART I

FINAL VERSION, Created: 1999-01-27

86	Plan code	
87	Species code	
88	Student code	

Questions regarding information used in the recovery plan.

	A	B	C	D	E	F
#	Categories of information used in recovery plans	Was information on this topic/issue presented in the recovery plan?	Identify the two principal types of information presented: [Column B: primary, Column C: secondary]	Identify the two principal sources of the information presented: [Column D: primary, Column E: secondary]		Does the Introduction or Recovery Objectives section of the plan indicate that some/more information of this type would be beneficial for recovery efforts?
HABITAT						
89	General habitat affiliations					
90	Amount/quality of general habitat					
91	Amount/quality of feeding habitat					
92	Amount/quality of breeding habitat					
93	Amount/quality of migration habitat					
94	Trends in habitat quality					
95	Trends in habitat quantity					
96	Historic range					
97	Current range					
98	Habitat fragmentation/isolation					
99	Other habitat information not captured in above categories					
POPULATION BIOLOGY						
100	Population size					
101	Number of subpopulations					
102	Trends in population size					
103	Population trends by habitat types					
104	Demographic (eg, birth and death) rates					
105	PVA/models					
106	Other population biology information not captured in above categories					
LIFE HISTORY						
107	Life span					
108	Mode of reproduction (e.g., sexual, asexual, self-compatible, obligate outcrosser)					
109	Clutch/litter size/seed production					
110	Age of sexual maturity					
111	Age/stage specific mortality rates					
112	Age/stage specific fecundity rates					
113	Other life history information not captured in above categories					
GENETICS						
114	Basic genetics					
115	Genetic variation within populations					
116	Genetic variation among populations					
117	Gene flow between populations					
118	Other genetics information not captured in above categories					
BEHAVIOR						
119	Dispersal behavior					
120	Breeding behavior					
121	Foraging behavior					
122	Other behavior information not captured in above categories					
GENERAL ECOLOGY						
123	Direct interactions with other species					
124	Indirect interactions with other species					
125	Succession, predictable disturbance regimes					
126	Other types of information not captured elsewhere in this matrix					

FORM 4 of 13: WHAT WE KNOW, Part II

FINAL VERSION, Created: 1999-01-27

127	Plan code	
128	Species code	
129	Student code	

Questions regarding information used in the recovery plan.

		G	H	I	J	K
		How many recovery tasks specifically call for collection of some/more information on this topic/issue?	What is the highest implementation priority assigned to these tasks? [Priority 1 is highest.]	What is the estimated total cost to implement these tasks, in \$000's? [If there are multiple tasks, sum their costs.]	To what extent have any of these tasks been completed? [Consult FWS contact]	Who has primarily implemented the task(s)? [Consult FWS contact]
#	Categories of information used in recovery plans					
HABITAT						
130	General habitat affiliations					
131	Amount/quality of general habitat					
132	Amount/quality of feeding habitat					
133	Amount/quality of breeding habitat					
134	Amount/quality of migration habitat					
135	Trends in habitat quality					
136	Trends in habitat quantity					
137	Historic range					
138	Current range					
139	Habitat fragmentation/isolation					
140	Other habitat information not captured in above categories					
POPULATION BIOLOGY						
141	Population size					
142	Number of subpopulations					
143	Trends in population size					
144	Population trends by habitat types					
145	Demographic (eg, birth and death) rates					
146	PVA/models					
147	Other population biology information not captured in above categories					
LIFE HISTORY						
148	Life span					
149	Mode of reproduction (e.g., sexual, asexual, self-compatible, obligate outcrosser)					
150	Clutch/litter size/seed production					
151	Age of sexual maturity					
152	Age/stage specific mortality rates					
153	Age/stage specific fecundity rates					
154	Other life history information not captured in above categories					
GENETICS						
155	Basic genetics					
156	Genetic variation within populations					
157	Genetic variation among populations					
158	Gene flow between populations					
159	Other genetics information not captured in above categories					
BEHAVIOR						
160	Dispersal behavior					
161	Breeding behavior					
162	Foraging behavior					
163	Other behavior information not captured in above categories					
GENERAL ECOLOGY						
164	Direct interactions with other species					
165	Indirect interactions with other species					
166	Succession, predictable disturbance regimes					
167	Other types of information not captured elsewhere in this matrix					

Summary questions

168	Information presented in the recovery plan suggests that the biology of the species is understood to what extent?	
169	Information presented in the recovery plan suggests that the status of the species is understood to what extent?	

FORM 5 of 13: FACTORS THREATENING SPECIES, PART I

FINAL VERSION, Created: 1999-01-27		
170	Plan code	
171	Species code	
172	Student code	

Questions regarding factors contributing to endangered/threatened status													
	L	M	N	O	P	Q	R	S	T	U	V	W	
#	Categories of factors contributing to endangered/threatened status of species	Is this factor cited in the listing decision as affecting the species?	Is this factor cited in the recovery plan as affecting the species?	Briefly describe the particular nature or character of this factor. [This will not be standardized data, but may be useful for subsequent investigations.]	If this factor is cited in one document but not the other, why?	How substantial a threat does the recovery plan identify this factor to be?	Are the effects of this factor historic, current, or anticipated?	How frequently does this factor affect the species?	When this factor affects the species, what is the extent of this effect?	Over what temporal scale does this factor affect the species?	Does this factor have direct or indirect effects on species?	Identify the two principal sources of information used to substantiate the effect of this factor on the species: [Column V: primary, Column W: secondary]	
CONSTRUCTION													
173	Commercial												
174	Urban/suburban												
175	Rural												
176	Public utilities												
177	Roads												
178	Other construction activities not captured in the above categories												
AGRICULTURE													
179	Dryland herbaceous												
180	Irrigated herbaceous												
181	Dryland woody plants												
182	Irrigated woody plants												
183	Tree farming (for pulp or lumber)												
184	Aquaculture												
185	Other agriculture activities not captured in the above categories												
RESOURCE USE													
186	Timber extraction (logging)												
187	Ore extraction (mining)												
188	Oil/Gas												
189	Grazing												
190	Fishing/hunting												
191	Specimen collection												
192	Other resources uses not captured in the above categories												
WATER DIVERSION													
193	Dams												
194	Irrigation												
195	Flood control												
196	Groundwater extraction												
197	Wetland fill												
198	Dredging												
199	Other water diversions not captured in the above categories												
POLLUTION													
200	Water - point source												
201	Water - non point source												
202	Air - point source												
203	Air - non point source												
204	Atmospheric deposition												
205	Solid waste												
206	Toxic substances (e.g. pesticides)												
207	Acid precipitation												
208	Other pollution not captured in the above categories												

FORM CONTINUES WITH MORE FACTORS (but identical columns) ON NEXT PAGE

Continued from previous page: FORM 5 of 13: FACTORS THREATENING SPECIES, PART I

For your own reference		
	Plan code	
	Species code	
	Student code	

[illegible]

FORM 6 of 13: FACTORS THREATENING SPECIES, PART II

FINAL VERSION, Created: 1999-01-27

232	Plan code	
233	Species code	
234	Student code	

Questions regarding factors contributing to endangered/threatened status								
		X	Y	Z	AA	BB	CC	DD
#	Categories of factors contributing to endangered/threatened status of species	How many recovery tasks specifically address this factor?	What is the highest implementation priority assigned to tasks that address this factor? [Priority 1 is highest.]	What is the estimated total cost to implement these tasks, in \$000's? [If there are multiple tasks, sum their costs.]	To what extent have any of these tasks been completed? [Consult FWS contact]	Who is primarily implementing these task(s)? [Consult FWS contact]	For how many of these tasks does the recovery plan state that >1 species (listed or unlisted) will benefit by implementation?	For how many of these tasks does the recovery plan state that specific actions are constrained because of the effects on other species (listed or unlisted)?
CONSTRUCTION								
235	Commercial							
236	Urban/suburban							
237	Rural							
238	Public utilities							
239	Roads							
240	Other construction activities not captured in the above categories							
AGRICULTURE								
241	Dryland herbaceous							
242	Irrigated herbaceous							
243	Dryland woody plants							
244	Irrigated woody plants							
245	Tree farming (for pulp or lumber)							
246	Aquaculture							
247	Other agriculture activities not captured in the above categories							
RESOURCE USE								
248	Timber extraction (logging)							
249	Ore extraction (mining)							
250	Oil/Gas							
251	Grazing							
252	Fishing/hunting							
253	Specimen collection							
254	Other resources uses not captured in the above categories							
WATER DIVERSION								
255	Dams							
256	Irrigation							
257	Flood control							
258	Groundwater extraction							
259	Wetland fill							
260	Dredging							
261	Other water diversions not captured in the above categories							
POLLUTION								
262	Water - point source							
263	Water - non point source							
264	Air - point source							
265	Air - non point source							
266	Atmospheric deposition							
267	Solid waste							
268	Toxic substances (e.g. pesticides)							
269	Acid precipitation							
270	Other pollution not captured in the above categories							

FORM CONTINUES WITH MORE FACTORS (but identical columns) ON NEXT PAGE

Continued from previous page: FORM 6 of 13: FACTORS THREATENING SPECIES, PART II

For your own reference	
Plan code	
Species code	
Student code	

	X	Y	Z	AA	BB	CC	DD
# Categories of factors contributing to endangered/threatened status of species	How many recovery tasks specifically address this factor?	What is the highest implementation priority assigned to tasks that address this factor? [Priority 1 is highest.]	What is the estimated total cost to implement these tasks, in \$000's? [If there are multiple tasks, sum their costs.]	To what extent have any of these tasks been completed? [Consult FWS contact]	Who is primarily implementing these task(s)? [Consult FWS contact]	For how many of these tasks does the recovery plan state that >1 species (listed or unlisted) will benefit by implementation?	For how many of these tasks does the recovery plan state that specific actions are constrained because of the effects on other species (listed or unlisted)?
EXOTIC/ALIEN SPECIES							
271 Competition							
272 Predation							
273 Parasitism							
274 Pathogens							
275 Disease vector							
276 Habitat modification							
Other exotic/alien species factors not captured in the above categories							
SPECIES INTERACTIONS [other than exotics spp.]							
278 Competition with focal species							
279 Predation on focal species							
280 Parasitism of focal species							
281 Prey of focal species							
282 Pathogens of focal species							
Other species interactions not captured in the above categories							
HABITAT DYNAMICS							
284 Successional change							
285 Modified disturbance - fire regimes							
286 Modified disturbance - hydrodynamic regimes							
287 Modified disturbance - agricultural regimes							
Other habitat dynamics factors not captured in the above categories							
OTHER FACTORS							
289 Inbreeding depression/genetic "bottlenecking"							
290 Climate change							
291 Weather extremes (e.g. drought, flood)							
292 Catastrophies/stochastic events							
293 Other factors not captured elsewhere in this matrix							

Rank the relative importance of the 3 major categories of effects. Enter "0" for all unranked items.		Rank
294	Habitat destruction	
295	Habitat degradation	
296	Habitat fragmentation	
297	Natural mortality	
298	Human-caused mortality	
299	Effects of exotic/alien species	
300	Effects of environmental pollutants	
301	Altered disturbance regimes	
302	Agriculture	
303	Resource use/extraction	
304	Other effects on species	

FINAL VERSION, Created: 1999-01-27		
305	Plan code	
306	Species code	
307	Student code	

[illegible]

FORM 8 of 13: MONITORING ACTIONS

FINAL VERSION, Created: 1999-01-27

344	Plan code	
345	Species code	
346	Student code	

Questions regarding monitoring subjects proposed by recovery plan

[illegible]

FORM 9 of 13: PUBLIC RELATIONS

FINAL VERSION, Created: 1999-01-27

371	Plan code	
372	Species code	
373	Student code	

Questions regarding public relations actions proposed by recovery plan

		YY	ZZ	AAA	BBB	CCC	DDD
#	Categories of public relations actions	How many tasks specifically call for this type of action?	What is the highest implementation priority given to these tasks? [Priority 1 is highest.]	What is the estimated total cost to implement these tasks, in \$000's? [If there are multiple tasks, sum their costs]?	Are specific programs or activities proposed, or are they to be developed?	To what extent have any of these tasks been completed? [Consult FWS contact]	Who is primarily implementing the task(s)? [Consult FWS contact]
374	Increasing public awareness of species status						
375	Developing public support for species conservation						
376	Encouraging public participation in recovery efforts						
377	Enforcing legal protections for species						

FORM 10 of 13: PLAN ADMINISTRATION & IMPLEMENTATION

FINAL VERSION, Created: 1999-01-27		
378	Plan code	
379	Species code	
380	Student code	

Questions regarding recovery plan administration & implementation

#	Answer each of the following questions regarding recovery plan administration and implementation	
381	Does the plan propose that an individual or committee be designated to coordinate implementation of the recovery plan?	
382	Does the plan propose to establish a centralized database for information on the status of the species?	
383	Does the plan propose to establish a system by which to monitor implementation of recovery tasks?	
	For how many tasks does the recovery plan's Implementation Schedule identify the following groups to be "Responsible parties"? [Bear in mind that designation as a "Responsible party" is in no way a binding commitment to actually implement any part of a r	
384	a. USFWS/NMFS	
385	b. Other federal agencies	
386	c. State/local resource agencies	
387	d. Other state/local government agencies	
388	e. Tribal groups	
389	f. Consultants	
390	g. Private individuals	
391	h. Business/industry	
392	i. Academic scientists	
393	j. Environmental/conservation organizations	
394	k. Other people/organizations not listed above	
395	According to the recovery plan's executive summary, how many years is recovery expected to take if the recovery plan is implemented as scheduled?	
396	According to the recovery plan, what is the total estimated/projected cost for implementing Priority 1 recovery tasks? (in \$000's)	
397	According to the recovery plan, what is the total estimated/projected cost for implementing Priority 2 recovery tasks? (in \$000's)	
398	According to the recovery plan, what is the total estimated/projected cost for implementing Priority 3 recovery tasks? (in \$000's)	
399	According to FWS reports to Congress, how much money has been spent on recovery actions for this species, to date? (in \$000's)	
400	If the recovery plan is fully implemented, will the species still require any active management?	
401	Does the plan explicitly specify a need for future review and, if necessary, revision of the plan? [The standard disclaimer page of the recovery plan should not be used to answer this question.]	

FORM 11 of 13: RECOVERY CRITERIA, PART I

FINAL VERSION, Created: 1999-01-27

402	Plan code	
403	Species code	
404	Student code	

Questions regarding measurement of recovery criteria

[illegible]

FORM 12 of 13: RECOVERY CRITERIA, PART II

FINAL VERSION, Created: 1999-01-27

421	Plan code	
422	Species code	
423	Student code	

Questions regarding measurement of recovery criteria									
		OOO	PPP	QQQ	RRR	SSS	TTT	UUU	VVV
#	Metrics used to define recovery goals/criteria	Does assessment of the metric require spatially replicated measurements?	Does assessment of the metric require temporally replicated measurements?	Does the recovery plan state that environmental variability influenced how the target value for the recovery criterion was set?	Does the recovery plan state that environmental variability influenced how much variance would be tolerated in the target value for the recovery criterion?	How did biological information influence selection of the recovery criterion?	How did biological information influence determination of the target value for the recovery criterion?	How does the target value for the recovery criterion compare to the value of that metric at the time of listing?	How does the target value of the recovery metric compare to the value at the time of plan development?
424	Total pop size (# ind)								
425	# of subpopulations								
426	# of individuals in each subpopulation								
427	Trends in total population size (# ind)								
428	Trends in # of subpopulations								
429	Trends in # of individuals in each subpopulation								
430	Total range								
431	Quantity of habitat								
432	Quality of habitat								
433	Existence/significance of threat								
434	Age structure of population								
435	Implementation of post-delisting management programs								
436	Securement of water rights								
437	Productivity/net recruitment rates								
438	Securement of habitat (i.e., legal protection)								
439	Other metrics not captured above								

FORM 13 of 13: RECOVERY CRITERIA, PART III

FINAL VERSION, Created: 1999-01-27		
440	Plan code	
441	Species code	
442	Student code	

Questions regarding measurement of recovery criteria						
	WWW	XXX	YYY	ZZZ	ABC	
#	Metrics used to define recovery goals/criteria	Does the recovery plan describe tasks that will monitor/measure the metric selected for the recovery criterion?	What is the highest implementation priority assigned to tasks that call for monitoring the recovery criterion metric? [Priority 1 is highest.]	What is the estimated total cost to implement these tasks, in \$000's? [If there are multiple tasks, sum their costs.]	To what extent have any of these tasks been completed? [Consult FWS contact]	Who is primarily implementing the task(s)? [Consult FWS contact]
443	Total pop size (# ind)					
444	# of subpopulations					
445	# of individuals in each subpopulation					
446	Trends in total population size (# ind)					
447	Trends in # of subpopulations					
448	Trends in # of individuals in each subpopulation					
449	Total range					
450	Quantity of habitat					
451	Quality of habitat					
452	Existence/significance of threat					
453	Age structure of population					
454	Implementation of post-delisting management programs					
455	Securement of water rights					
456	Productivity/net recruitment rates					
457	Securement of habitat (i.e., legal protection)					
458	Other metrics not captured above					