

Appendix 2

Rapid assessment forms for Hawke's Bay conservation areas:

1. White Pine Bush
2. Waipatiki Scenic Reserve
3. Earthquake Slip Conservation Area
4. Balls Clearing Scenic Reserve
5. Hutchinson Scenic Reserve
6. Eastern Kaweka Forest Park (Littles Clearing-Makahu Saddle-Boulder Stream)
7. Monckton Scenic Reserve
8. Eastern Ruahine Forest Park (Swamp Track-Sunrise Track)
9. Mohi Bush

RAPID ASSESSMENT FORM FOR ECOLOGICAL CONDITION AND TREND

Sheet 1 of 4

Location (name, details): WHITE PINE BUSH	Grid reference: V20/446058 Area (ha): 19 Ecological District: Waihua																																																																																																																			
Protective status/designation: Scenic Reserve	Managing agency: DOC																																																																																																																			
Observer(s): Geoff Walls Route taken: Track system, with upslope forays Photos taken: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date: 2/12/98 Time spent: 3 hours																																																																																																																			
Significant fauna site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Significant flora site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Landform: Part of a smallish valley; flattish valley floor; gentle-moderate hillslopes Altitude, Aspect: 220-300m asl; SE aspect Soil/rock type: Calcareous sandstone, siltstone, mudstone, limestone Drainage: A large stream through the heart; some seepages Erosion: Very little Other notes:																																																																																																																				
ECOSYSTEM/HABITAT																																																																																																																				
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 10%;">Primary</th> <th style="width: 10%;">Secondary</th> <th style="width: 10%;">% area</th> <th style="width: 10%;">Notes</th> </tr> </thead> <tbody> <tr><td>Beech forest</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input type="checkbox"/></td><td></td><td></td></tr> <tr><td>Broadleaved forest</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;">80</td><td></td></tr> <tr><td>Podocarp forest</td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: center;">20</td><td></td></tr> <tr><td>Mixed native forest</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: 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RAPID ASSESSMENT FORM FOR ECOLOGICAL CONDITION AND TREND

VEGETATION					
Canopy cover (%): <input type="checkbox"/> 0-5 <input type="checkbox"/> 5-25 <input type="checkbox"/> 25-50 <input type="checkbox"/> 50-75 <input checked="" type="checkbox"/> 75-100					
Canopy composition (underline dominant species): Tawa, <u>Titoki</u> , <u>Kahikatea</u> , <u>Mahoe</u> , Rewarewa, Mamaku, Hinau, Pigeonwood, Matai					
Vegetation condition (health):	<u>Good</u>	<u>Fair</u>	<u>Poor</u>	<u>Don't know</u>	<u>Comments</u>
Canopy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Good in places, damaged elsewhere
Subcanopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Understorey/Undergrowth	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As canopy
Ground cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mostly good in lower reserve, not so good in upper
<u>Notes:</u> Vegetation in better condition in lower reserve					
Vegetation trend:	<u>Improving</u>	<u>Stable</u>	<u>Deteriorating</u>	<u>Don't know</u>	<u>Comments</u>
Canopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Young trees growing up, older ones stable
Subcanopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Understorey/Undergrowth	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ground cover	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Notes:</u> Still a few impediments to overall improvement					
Regeneration:	<u>None</u>	<u>A little</u>	<u>Moderate</u>	<u>Much</u>	<u>Main species/Comments</u>
Canopy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Pate, Mahoe, Pigeonwood; few of current canopy dominants though
Subcanopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Understorey/Undergrowth	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Ground cover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Many ferns and seedlings
Epicormic shoots	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Still being browsed
<u>Notes:</u>					
Special plants (rare, threatened, local, distribution limits/anomalies, etc.):					
<u>Species</u>	<u>No. (estimate)</u>	<u>Condition (as above)</u>	<u>Trend (as above)</u>	<u>Main threats/Comments</u>	
<i>Tupeia antarctica</i>	3	Poor	Deteriorating	Browsers and lack of hosts	
Nikau	thousands	Good	Improving		
<u>Notes:</u>					
Threats, Impacts and Management urgency:					
	<u>Minor</u>	<u>Major</u>	<u>Urgent</u>	<u>Not urgent</u>	<u>Comments</u>
Deer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Goat	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Keep on top of
Pig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Possum	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Need for better control regime
Rabbit, Hare	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sheep	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Getting in
Cattle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Rat, Mouse	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bait stations would help
Vine weeds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	OMB a serious threat
Shrub, Tree weeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Herb/Grass weeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Human visitor impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Survey/ <u>Monitoring</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Should be annual
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Notes:</u> Possums and OMB the most serious threats					

RAPID ASSESSMENT FORM FOR ECOLOGICAL CONDITION AND TREND

FAUNA					
Overall fauna:					
	<u>Rel. abundance</u> ¹	<u>Condition</u> ²	<u>Trend</u> ³	<u>Main threats/Comments</u>	
Native birds	Many	Fair	Stable	Predators, habitat deterioration	
Exotic birds	Many	Fair	Stable		
Bats	?	?	?		
Native reptiles	?	?	?		
Native frogs					
Exotic frogs					
Native fish	?	?	?		
Exotic fish					
Native land inverts	Many	Fair	Stable	Rodents	
Exotic land inverts					
Native aquatic inverts	?	?	?		
Exotic aquatic inverts					
Other (specify)					
<u>Notes:</u>					
Special fauna (rare, threatened, local, distribution limits/anomalies, etc.):					
<u>Species</u>	<u>No. (estimate)</u>	<u>Condition (as above)</u>	<u>Trend (as above)</u>	<u>Main threats/Comments</u>	
Kereru	10	Fair	Stable		
NI Brown kiwi	1?	?	?	Not detected in recent years	
<u>Notes:</u>					
Management needs:					
	<u>Minor</u>	<u>Major</u>	<u>Urgent</u>	<u>Not urgent</u>	<u>Comments</u>
Deer control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Goat control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Pig control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Possum control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rabbit, Hare control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Mustelid, Cat control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Needs addressing
Rat, Mouse control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bait stations suggested
Weed control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Fencing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Needs checking/maintenance
Human visitor management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Survey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Bats, reptiles, stream life
Monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Notes:</u>					

¹ None; Few; Moderate; Many

² Good (healthy, thriving); Fair (okay); Poor (depleted, struggling); Don't know

³ Improving; Stable; Declining; Don't know (?)

RAPID ASSESSMENT FORM FOR ECOLOGICAL CONDITION AND TREND

SPECIFIC CONDITION AND TREND INDICATORS FOR SITE/AREA
 [Examples: highly palatable plants, good food plants for birds, rare species, seedlings, epicormic shoots, possum sign, tracking, bark stripping, sensitive fauna, rampant weeds, visitor numbers, water quality, erosion, vegetation structure, bird population.....]

<u>Indicator</u>	<u>Condition</u> ¹	<u>Trend</u> ²	<u>Monitoring technique</u>	<u>Comments</u>
Epicormic shoots	Poor	Stable	Observation	Being chewed
Supplejack shoots	Poor	Stable	Observation	Being chewed
Nikau seedlings	Good	Improving	Observation	Lots, few browsed
Hen-&-chickens fern	Good	Improving	Observation	Lots, few browsed
Titoki canopy	Poor	Stable	Observation	Possum browse
Tree fuchsia	Fair	Stable	Observation	Some possum browse
Pate	Fair	Stable	Observation	Some goat browse
Broadleaved tree seedlings (Kawakawa, Mahoe, Tawa, Karaka, Titoki)	Fair	Stable	Observation	Some browse in upper reserve
<i>Tupeia antarctica</i>	Poor	Deteriorating	Observation	Intermittently browsed
Overall understorey density	Fair	Stable	Observation	Thinnest in upper reserve
Tui & Kereru population	Fair	Stable	Observation	
Possum & Goat sign	Low	Stable	Observation	
Old man's beard	Some	Stable	Observation	

MANAGEMENT HISTORY, CURRENT REGIME AND FUTURE NEEDS

<u>Control Programme</u>	<u>>10 yrs ago Effectiveness</u>	<u>3-10 yrs ago Effectiveness</u>	<u>Last 3 years Effectiveness</u>	<u>Current Effectiveness</u>	<u>Future Needs</u>		
	(o * ** ***)	(o * ** ***)	(o * ** ***)	(o * ** ***)	Scale up	Status quo	Scale down
Ungulate	*	*	***	***		✓	
Pig							
Possum	*	**	**	**	✓		
Mustelid/Cat	o	o	o	o	✓		
Rodent	o	o	o	o	✓		
Weed	*	***	***	**	✓		
Fencing	***	***	***	**	✓		
Visitor impact	**	***	***	***			✓
Other (specify)							

Notes:

PRIORITY FOR MANAGEMENT

<u>Management Need</u>	<u>Priority</u>			<u>Urgency</u>			<u>When/Frequency</u> ³
	<u>Low</u>	<u>Mod</u>	<u>High</u>	<u>Low</u>	<u>Mod</u>	<u>High</u>	
Baseline survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Next 3 years
Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Seasonally, Annually
Animal pest control	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ongoing
Weed control	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ongoing
Visitor management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

¹ Good (healthy, thriving); Fair (okay); Poor (depleted, struggling); Don't know (?)
² Improving; Stable; Declining/Deteriorating; Don't know (?)
³ Monthly, Seasonally, Annually, 2-yearly, 5-yearly, 10-yearly, Ongoing, etc.