

RAPID ASSESSMENT FORM FOR ECOLOGICAL CONDITION AND TREND

<b>SPECIFIC CONDITION AND TREND INDICATORS FOR SITE/AREA</b>							
[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> <sup>1</sup>	<u>Trend</u> <sup>2</sup>	<u>Monitoring technique</u>	<u>Comments</u>			
<u>Lower half</u>							
Tree fuchsia & Wineberry seedlings	Good	Improving	Observation	Rel. low numbers of deer & possums			
Broadleaf seedlings	Fair	Stable	Observation	Still too many deer			
Broadleaf, Mahoe epicormics	Poor	Stable	Observation	Still too many deer			
Mahoe, Lancewood canopy	Good	Stable	Observation	Possum numbers rel. low			
Kanono	Good	Stable	Observation	Rel. low numbers of deer & possums			
Kereru, Bellbird, Tui, Tit	Fair	?	Bird counts	Need to keep up and analyse			
<u>Upper half</u>							
Hall's totara, Pahautea	Fair	Stable	Observation	Still too many deer & possums			
Haumakaroa	Fair	Stable	Observation	Still too many deer & possums			
Broadleaf	Fair	Stable	Observation	Still too many deer & possums			
<i>Peraxilla tetrapetala</i>	Fair	Improving-Deteriorating	Observation/Tagged plants	Good local control			
Kakariki, Tui, Tit, Bellbird	Fair	?	Bird counts	Need to keep up and analyse			
All: Vegetation composition	Fair	?	Permanent plots	Need to establish			
<b>MANAGEMENT HISTORY, CURRENT REGIME AND FUTURE NEEDS</b>							
<u>Control Programme</u>	<u>&gt;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>		
	(0 * ** ***)	(0 * ** ***)	(0 * ** ***)	(0 * ** ***)	Scale up	Scale down	
Ungulate	**	**	**	**		✓	
Pig							
Possum	*	**	**	**	✓		
Mustelid/Cat	0	0	0	0	✓		
Rodent	0	0	0	0	✓		
Weed	0	0	0	0		✓	
Fencing	**	**	**	**	✓		
Visitor impact	***	***	***	***		✓	
Other (specify)							
<b>Notes:</b>							
<b>PRIORITY FOR MANAGEMENT</b>							
<u>Management Need</u>	<u>Priority</u>			<u>Urgency</u>			<u>When/Frequency</u> <sup>3</sup>
	<u>Low</u>	<u>Mod</u>	<u>High</u>	<u>Low</u>	<u>Mod</u>	<u>High</u>	
Baseline survey	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Seasonally, Annually Ongoing
Monitoring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Animal pest control	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Weed control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As required
Visitor management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

<sup>1</sup> Good (healthy, thriving); Fair (okay); Poor (depleted, struggling); Don't know (?)

<sup>2</sup> Improving; Stable; Declining/Deteriorating; Don't know (?)

<sup>3</sup> Monthly, Seasonally, Annually, 2-yearly, 5-yearly, 10-yearly, Ongoing, etc.

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<b>Location (name, details):</b> <b>MOHI BUSH</b>	<b>Grid reference: V22/438425</b>  <b>Area (ha): 73</b>  <b>Ecological District: Eastern Hawke's Bay</b>																																																																																																																			
<b>Protective status/designation: Scenic Reserve</b>	<b>Managing agency: DOC</b>																																																																																																																			
<b>Observer(s): Geoff Walls, Finn Scheele &amp; DOC assessment team</b>																																																																																																																				
<b>Date: 23/12/98</b>																																																																																																																				
<b>Route taken: Track system</b>																																																																																																																				
<b>Photos taken: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</b>	<b>Time spent: 1½ hours</b>																																																																																																																			
<b>Significant fauna site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</b> <b>Significant flora site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</b>																																																																																																																				
<b>Landform: Gently-rolling hill country, dissected by incised streams</b>																																																																																																																				
<b>Altitude, Aspect: 380-440m asl; N aspect</b>																																																																																																																				
<b>Soil/rock type: Limestone</b>																																																																																																																				
<b>Drainage: Incised streams; small tomos</b>																																																																																																																				
<b>Erosion: Very little</b>																																																																																																																				
<b>Other notes:</b>																																																																																																																				
<b>ECOSYSTEM/HABITAT</b>																																																																																																																				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 15%;">Primary</th> <th style="width: 15%;">Secondary</th> <th style="width: 15%;">% area</th> <th style="width: 25%;">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;">5</td><td></td></tr> <tr><td>Mixed native 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>Kanuka 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>Exotic forest/plantation</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>Treeland, Woodland</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>Tree fernland</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>Bracken fernland</td><td style="text-align: center;"><input type="checkbox"/></td><td style="text-align: center;"><input checked="" type="checkbox"/></td><td style="text-align: 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Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																																		

<b>VEGETATION</b>					
<b>Canopy cover (%):</b> <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					
<b>Canopy composition (underline dominant species):</b> Tawa, Titoki, Rimu, Kahikatea, Matai, Mahoe, Rewarewa, Lacebark, Pigeonwood					
<b>Vegetation condition (health):</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>	<b>Don't know</b>	<b>Comments</b>
Canopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Subcanopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Understorey/Undergrowth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ground cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Notes:</b> Vegetation in splendid condition compared with other reserves and previously					
<b>Vegetation trend:</b>	<b>Improving</b>	<b>Stable</b>	<b>Deteriorating</b>	<b>Don't know</b>	<b>Comments</b>
Canopy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Subcanopy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Understorey/Undergrowth	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Ground cover	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Notes:</b>					
<b>Regeneration:</b>	<b>None</b>	<b>A little</b>	<b>Moderate</b>	<b>Much</b>	<b>Main species/Comments</b>
Canopy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Subcanopy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Understorey/Undergrowth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Ground cover	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Many ferns and seedlings
Epicormic shoots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Notes:</b> Few current impediments to regeneration beneath the canopy					
<b>Special plants (rare, threatened, local, distribution limits/anomalies, etc.):</b>					
<b>Species</b>	<b>No. (estimate)</b>	<b>Condition (as above)</b>	<b>Trend (as above)</b>	<b>Main threats/Comments</b>	
<i>Fuchsia perscandens</i>	5	Fair	?	All browsers; Rare in region	
Raukawa	30 trees	Fair	Improving	Rare in region	
Nikau	Many seedlings	Good	Improving	Unusual site for nikau in region	
<b>Notes:</b>					
<b>Threats, Impacts and Management urgency:</b>					
	<b>Minor</b>	<b>Major</b>	<b>Urgent</b>	<b>Not urgent</b>	<b>Comments</b>
Deer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Goat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 to keep in check
Rabbit, Hare	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Sheep	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Hawthorn
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/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"/>	
<b>Notes:</b>					

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<b>FAUNA</b>					
<b>Overall fauna:</b>					
	<u>Rel. abundance</u> <sup>1</sup>	<u>Condition</u> <sup>2</sup>	<u>Trend</u> <sup>3</sup>	<u>Main threats/Comments</u>	
Native birds	Many	Good	?	Predators; baseline bird counts exist	
Exotic birds	Many	Good	Stable		
Bats	?	?	?	Need survey	
Native reptiles	?	?	?	Need survey	
Native frogs					
Exotic frogs					
Native fish					
Exotic fish					
Native land inverts	Mod	Fair	?	Rodents; Weta monitoring exists	
Exotic land inverts					
Native aquatic inverts					
Exotic aquatic inverts					
Other (specify)					
<u>Notes:</u>					
<b>Special fauna (rare, threatened, local, distribution limits/anomalies, etc.):</b>					
<u>Species</u>	<u>No. (estimate)</u>	<u>Condition (as above)</u>	<u>Trend (as above)</u>	<u>Main threats/Comments</u>	
Kereru	20	Good	?	Need survey & monitoring	
Tui, Bellbird	50	Good	?	Need survey & monitoring	
Rifleman	50	?	?	Significant outlier population	
Long-tailed bat	?	?	?	Need survey & monitoring	
<u>Notes:</u>					
<b>Management needs:</b>					
	<u>Minor</u>	<u>Major</u>	<u>Urgent</u>	<u>Not urgent</u>	<u>Comments</u>
Deer control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Goat control	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	Need to keep in check
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 help
Weed control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Fencing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Needs checking/maintenance
Human visitor management	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bats, reptiles, invertebrates
Monitoring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Notes:</u>					

<sup>1</sup> None; Few; Moderate; Many

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

<sup>3</sup> Improving; Stable; Declining; Don't know (?)