

PART 2

Biologically Important Areas	Island	FLORA		FAUNA			
		Total Plant Richness	Endangered Plant Richness	Forest Bird Species	Endangered Forest Bird Species	Aquatic Species Rating	Anchialine Species Rating
Hanakoa Cliffs	K	Very High	High	3	1	6	
Kuia North Extension	K	Very High	High	6	1	9	
Hono O Na Pali Ext.	K	Very High	Low	8	1	10	
Kalalau Back Pali	K	Very High	High	9	2	8	
Upper Koaie Canyon	K	Very High	High	10	2	10	
Namolokama	K	Very High	Medium	10	2	10	
Blue Hole	K	Very High	Medium	9	1	7	
Kaluanui	O	Very High	Medium	2	0	10	
Poamoho	O	Very High	Medium	3	0	3	
Manana	O	Very High	Medium	3	0	2	
Ilio Point	Mo	Very Low	Very Low	1	0	NR	
Upper Kawela	Mo	Very High	Medium	3	0	7	
Kamakou	Mo	Very High	Low	4	0	7	
Wailau Back Pali	Mo	Very High	Low	4	0	10	
Olokui Extension	Mo	High	Low	3	0	10	
Lana`ihale	L	High	Medium	2	0	NR	
Waihee to Keawaula	Ma	Very Low	Very Low	1	0	8	
Kauaula	Ma	Very High	Medium	6	2	0	
Puehuehunui	Ma	High	Medium	6	2	0	
Hanawi West Extension	Ma	Very High	Low	8	3	9	
Waihoi Crater Bog	Ma	Very High	Low	7	2	2	
Na Kula (Kahikinui)	Ma	Medium	Low	5	1	NR	
Kanaio Mauka Ext	Ma	High	Low	3	1	NR	
Kanaio Makai Extension	Ma	Low	Low	3	1	NR	6
Kanaio Coast	Ma	Very Low	Very Low	1	0	NR	6
Kohala Coast	H	Medium	Very Low	5	1	7	
Mauna Kea North Slope	H	Very Low	Very Low	8	2	9-NS	
Mauna Kea Ice Age Ext	H	Low	Very Low	10	4	9-NS	
Pohakuloa Gulch Ext	H	Low	Very Low	9	3	4-NS	
Mauna Loa Mosaic - 1942 Ext	H	High	Low	11	5	9-NS	
Kulani	H	Medium	Low	11	5	9-NS	
Malama Ki/Kaniahiku	H	Low	Very Low	4	1	NR	
Tract 22 - Kahaualea Ext.	H	Medium	Very Low	7	2	NR	
Waihaka	H	Medium	Very Low	11	5	NR	
Kau	H	Medium	Very Low	11	5	NR	
Kamilo	H	Low	Very Low	3	2	NR	3
Lua Palahemo	H	Very Low	Very Low	2	1	NR	21

Biologically Important Areas: Areas identified as having high biological resource value by NARS Commissioners, scientists, and land managers.

Total Plant Richness: The highest concentration of all native vascular plant species' predicted ranges, from a low of 0 to a potential 331 overlapping species' ranges. Very Low = 0-65, Low = 66-131, Medium = 132-198, High = 199-264, Very High = 265-331.

Endangered Plant Richness: The highest concentration of all endangered vascular plant species' predicted ranges, from a low of 0 to a potential 48 overlapping species' ranges. Very Low = 0-9, Low = 10-18, Medium = 19-28, High = 29-38, Very High = 39-48.

Forest Bird Species: The number of native forest bird species with predicted habitat ranges in the area. Low = 0-3 species, Medium = 4-7 species, High = 8-11 species.

Endangered Forest Bird Species: The number of endangered forest bird species with predicted habitat ranges in the area. Low = 0-1 species, Medium = 2-3 species, High = 4-5 species.

Aquatic Species Rating: Native species rating for each watershed. Areas with more than 1 watershed had highest rated watershed's # recorded. NR= Not Ranked. NS=No Stream. 0-3=Low, 4-7=Med, 8-10=High.

Anchialine Species Rating: Rating system based on number of total species and rarity of species. Low < 5, Medium > 5, High > 10.

PART 2 Biologically Important Areas	LANDSCAPE													Size (Acres)	Ownership	State Land Use	
	Island	Area	Habitat Diversity	Priority Habitat	Habitat Quality	Habitat Contiguit	Management Contiguity	Ecosystems					HI GAP Priority Ecosystems				
Hanakoa Cliffs	K	Small	1	2	Low	Low	High	LM	DC					NMDFS, NDCV	260	State Park	Cons.
Kuia North Extension	K	Med	3	2	Med	Med	Med	DC	MM	LM				NMDFS, NDCV	1374	State Park	Cons.
Hono O Na Pali Ext.	K	Small	1	0	High	High	High	MW						NWFS, BV	650	State FR	Cons.
Kalalau Back Pali	K	Med	4	2	Med	Med	Med	MW	MM	LM	WC	DC		NMDFS, NWFS, NDCV	1572	State Park	Cons.
Upper Koaie Canyon	K	Large	5	3	Med	Med	Med	MW	WC	MM	LM	DC		NMDFS, NWFS, NDCV	4969	State FR, Wilderness Preserve	Cons.
Namolokama	K	Med	2	1	High	High	Low	MW	LW	WC				NWFS, BV	1461	State FR	Cons.
Blue Hole	K	Small	2	1	High	High	Low	WC	LW					NWFS, BV	896	State FR	Cons.
Kaluanui	O	Med	2	2	Med	Med	Low	LW	LM	WC					1119	State Park	Cons., Ag
Poamoho	O	Med	1	1	High	High	Low	LW							1131	State FR	Cons.
Manana	O	Med	2	2	Med	Med	Low	LW	LM						2549	State FR	Cons.
Ilio Point	Mo	Small	2	2	Low	Low	Low	C							262	State	Cons.
Upper Kawela	Mo	Med	3	2	Med	Low	Med	MM	LM					NDCV	3 698	Private - Kawela Plantation	Cons., Ag
Kamakou	Mo	Small	3	1	High	High	High	MW	MM						861	Private - multiple	Cons.
Wailau Back Pali	Mo	Med	2	1	High	High	Med	MW	LW	WC					2736	State FR	Cons.
Olokui Extension	Mo	Med	3	2	Med	Med	Med	LW	WC					CHF	1383	Private - multiple	Cons.
Lana`ihale	L	Med	3	2	High	Low	Low	MW	WC	LW	LD	LM		OLF	2 740	Private - Castle and Cooke LLC	Cons.
Waihee to Keawaula	Ma	Small	2	2	Low	Low	Low	none							231	State GMA	Cons.
Kauaula	Ma	Small	4	2	Med	Low	Low	MW	MM	LW	LM	LD	WC	NDCV	669	Private - Makila Land Co	Cons.
Puehuhunui	Ma	Small	4	2	Med	Low	Low	MW	LW	LM	LD			NDCV	383	State FR	Cons.
Hanawi West Extension	Ma	Large	4	1	High	Med	Med	SUB	MW	MM	WC	LW		DG	4262	State FR	Cons.
Waihoi Crater Bog	Ma	Med	1	0	High	High	Med	MW						BV	2533	State FR	Cons.
Na Kula (Kahikinui)	Ma	Med	2	0	Med	Med	Med	SUB	MM						2800	State FR	Cons.
Kanaio Mauka Ext	Ma	Small	3	2	Med	Med	Med	MM	LM	LD					550-750	State	Cons., Ag
Kanaio Makai Extension	Ma	Large	3	2	Low	Low	Med	LD							5897	State	Cons., Ag
Kanaio Coast	Ma	Small	3	2	Low	Low	Med	none							1049	State, Private - Ulupalakua Ranch	Cons.
Kohala Coast	H	Small	2	2	Low	Low	Low	LW	LM						1158	State FR, Private-multiple	Cons.
Mauna Kea North Slope	H	Large	2	0	High	High	Med	ALP	SUB						29529	State FR	Cons.
Mauna Kea Ice Age Ext	H	Large	3	0	High	Med	Low	ALP	SUB						88301	State FR, GMA	Cons.
Pohakuloa Gulch Ext	H	Large	3	0	High	High	Med	SUB							3300	State FR, GMA	Cons.
Mauna Loa Mosaic - 1942 Ext	H	Large	6	1	High	High	Med	ALP	SUB	MW	MM	MD	LW		103382	State FR, GMA	Cons.
Kulani	H	Large	2	0	High	High	Med	MW	MM						6628	State Dept. Corrections	Cons.
Malama Ki/Kaniahiku	H	Med	3	2	Med	Med	Low	LW							1979	State FR	Cons.
Tract 22 - Kahaualea Ext.	H	Large	3	1	High	High	High	MW	LW						5795	State	Cons.
Waihaka	H	Large	5	1	High	High	Med	ALP	SUB	MW	MM	MD			22483	State FR	Cons., Ag
Kau	H	Large	4	2	High	Med	High	MW	MM	LW	WC				61324	State FR	Cons., Ag
Kamilo	H	Med	1	1	Low	Low	Low	none							1159	State, Private - WWK Hawai'i	Ag
Lua Palahemo	H	Small	1	1	Low	Low	Low	none							4	State DHHL	Cons., Ag

Biologically Important Areas: Areas that NARS Commissioners, scientists, and/or land managers have identified as having high biological resource value.

Area: The relative size of the proposed area (0-1,100 acres=Small, 1,101-3,748 acres=Medium, 3,748+ acres=Large).

Habitat Diversity: The number of different habitat types found in the area, based on the nine types distinguished by bioclimatic and substrate age factors.

Priority Habitats: The number of different "priority" habitats found in the area, based on the three types that were relatively degraded and unprotected - Lowland Wet, Lowland Mesic, and Lowland Dry.

Habitat Quality: Areas with <25% native dominated vegetation ranked Low, while areas with 25-50% high-ranked habitat but dominated by non-native vegetation=Medium, areas with >75% native dominated landcover ranked High.

Habitat Contiguity: Areas with <25% adjacent native dominated vegetation=Low, areas with 25-50% connectivity with other native dominated vegetation=Medium, and areas with >75% of their boundaries adjacent to native-dominated vegetation=High.

Management Contiguity: Areas with no boundaries adjacent to MIS 1 or 2 areas = Low, areas with some MIS 1 or 2 connectivity = Medium, while areas with > 50% of their boundaries adjacent to these MIS 1 or 2 = High.

Ecosystems: Ecosystems with >10% in NAR =pink, <10% in NAR =yellow, <10% in NAR and MIS 1 or 2 =green. Ecosystems designated as "Good" or "Very Good" viability are bolded.

HI-GAP Priority Ecosystems: Areas with ecosystems with < 10% of their range protected by MIS 1 or 2 designation.

NWFS=Native Wet Forest and Shrubland BV= Bog Veg, DG=Deschampsia Grassland, NMDFS= Native Mesic to Dry Forest Shrubland, NDCV= Native Dry Cliff Veg, CHF= Closed Hala Forest, OLF= Olopa-Lama Forest.

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NAR	Island	FLORA		FAUNA			
		Total Plant Richness	Endangered Plant Richness	Forest Bird Species	Endangered Forest Bird Species	Aquatic Species Rating	Anchialine Species Rating
Kuia	K	Very High	High	6	1	9	
Hono O Na Pali	K	Very High	High	10	2	10	
Kaena Pt	O	Very Low	Very Low	1	0	NR	
Pahole	O	Very High	Very High	2	0	0	
Mt. Kaala	O	Very High	Very High	3	0	2	
Puu Alii	Mo	Very High	Low	4	0	9	
Olokui	Mo	Very High	Low	4	0	10	
West Maui – Honokowai	Ma	Very High	Low	4	0	8	
West Maui – Kahakuloa	Ma	Very High	Low	5	1	8	
West Maui – Panaewa	Ma	Very High	Medium	5	1	1	
West Maui – Lihau	Ma	High	Medium	5	1	4	
Ahihi Kinau	Ma	Low	Very Low	3	1	NR	18
Kanaio	Ma	Low	Very Low	3	1	NR	
Hanawi	Ma	Very High	Low	8	3	9	
Puu O Umi	H	High	Very Low	6	1	10	
Mauna Kea Ice Age mauka	H	Very Low	Very Low	0	0	9-NS	
Mauna Kea Ice Age makai	H	Very Low	Very Low	0	0	9-NS	
Laupahoehoe	H	Medium	Very Low	10	4	7	
Waiakea 1942 Lava Flow	H	High	Very Low	8	2	9-NS	
Puu Makaala	H	High	Very Low	10	4	NR	
Kahaualea	H	Medium	Very Low	7	2	NR	
Kipahoehoe	H	Medium	Low	9	4	NR	
Manuka	H	High	Low	11	5	NR	5

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PART 2

LANDSCAPE

NAR	Island	Area	Habitat Diversity	Priority Habitats	Habitat Quality	Habitat Contiguity	Management Contiguity	Size
Kuia	K	Med	2	1	Med	High	Low	1636
Hono O Na Pali	K	Med	5	3	Med	Med	Low	3105
Kaena Pt	O	Small	2	2	Low	Low	Low	59
Pahole	O	Small	1	1	Med	Med	Low	658
Mt. Kaala	O	Small	3	2	Med	Med	Low	1100
Puu Alii	Mo	Med	3	2	High	High	High	1330
Olokui	Mo	Med	4	3	High	High	Med	1620
West Maui – Honokowai	Ma	Small	2	1	High	High	High	750
West Maui – Kahakuloa	Ma	Med	3	2	High	High	Med	3275
West Maui – Panaewa	Ma	Med	5	3	Med	Med	Low	1717
West Maui – Lihau	Ma	Small	4	2	Low	Low	Low	960
Ahihi Kinau	Ma	Large	3	2	Low	Low	Low	1045
Kanaio	Ma	Large	2	2	Med	Med	Low	876
Hanawi	Ma	Med	4	1	High	High	Med	7500
Puu O Umi	H	Large	5	3	High	Med	Med	10142
Mauna Kea Ice Age mauka	H	Small	1	0	High	High	Low	146
Mauna Kea Ice Age makai	H	Med	1	0	High	High	Low	3748
Laupahoehoe	H	Large	2	1	High	High	Med	7894
Waiakea 1942 Lava Flow	H	Small	3	1	High	High	Low	640
Puu Makaala	H	Large	2	1	Med	Med	Med	12106
Kahaualea	H	Large	3	1	High	High	Med	16726
Kipahoehoe	H	Large	7	4	Med	High	Med	5583
Manuka	H	Large	5	3	Med	High	Med	25550

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