

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Alectryon macrococcus var. macrococcus										Target # of Matures: 50			# MFS PU Met Goal: 0 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki to Keawapilau	Manage for stability	2	6	0	1	1	0	1	1	0	1	0	0	0	1	0	2016-05-18	Single tree remaining is still alive
Makua	Manage for stability	15	0	0	11	0	0	6	0	0	6	0	0	0	0	0	2016-03-03	Several trees have died in the last year
South Mohiakea	Genetic Storage	16	1	0	2	0	0	2	0	0	2	0	0	0	0	0	2015-06-23	No monitoring in the last year
West Makaleha	Genetic Storage	40	4	0	13	0	0	13	0	0	13	0	0	0	0	0	2015-05-11	Monitoring showed no change, though trees are in poorer health
In Total:		73	11	0	27	1	0	22	1	0	22	0	0	0	1	0		

Action Area: Out

TaxonName: Alectryon macrococcus var. macrococcus										Target # of Matures: 50			# MFS PU Met Goal: 0 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Central Kaluua to Central Waieli	Manage for stability	50	3	0	3	5	0	3	5	0	3	0	0	0	5	0	2015-09-10	Need to revisit one more population still
Makaha	Manage for stability	75	0	2	36	0	0	29	0	0	29	0	0	0	0	0	2015-12-03	Several trees have died over the last year
Waianae Kai	Genetic Storage	16	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2016-06-13	Last known tree died
Out Total:		141	3	2	40	5	0	32	5	0	32	0	0	0	5	0		
Total for Taxon:		214	14	2	67	6	0	54	6	0	54	0	0	0	6	0		

Population Unit Status - Makua Implementation Plan

Action Area: In																		
TaxonName: Cenchrus agrimonioides var. agrimonioides											Target # of Matures: 50			# MFS PU Met Goal: 3 of 3				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki and Pahole	Manage for stability	210	66	0	319	61	79	255	93	32	61	30	19	194	63	13	2015-11-30	Large decline in mature plants at the Kahanahaiki reintro
Kuaokala	Genetic Storage				1	3	0	1	3	0	1	3	0	0	0	0	2014-04-30	No monitoring in the last year
In Total:		210	66	0	320	64	79	256	96	32	62	33	19	194	63	13		

Action Area: Out																		
TaxonName: Cenchrus agrimonioides var. agrimonioides											Target # of Matures: 50			# MFS PU Met Goal: 3 of 3				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Central Ekahanui	Manage for stability	20	0	0	168	89	0	165	122	52	60	53	42	105	69	10	2015-09-17	Some mature plants have died and recruitment increases the immature and seedling counts
Makaha and Waianae Kai	Manage for stability	9	3	0	171	128	5	161	128	5	5	7	5	156	121	0	2015-10-14	Some outplants died
South Huliwai	Genetic Storage	27	0	0	15	13	0	17	13	23	17	13	23	0	0	0	2015-09-16	Some recruitment at this site
Out Total:		56	3	0	354	230	5	343	263	80	82	73	70	261	190	10		
Total for Taxon:		266	69	0	674	294	84	599	359	112	144	106	89	455	253	23		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Cyanea grimesiana subsp. obatae											Target # of Matures: 100			# MFS PU Met Goal: 2 of 4				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Pahole to West Makaleha	Manage for stability	22	24	0	75	36	0	75	36	0	6	11	0	69	25	0	2015-08-31	No monitoring in the last year
In Total:		22	24	0	75	36	0	75	36	0	6	11	0	69	25	0		

Action Area: Out

TaxonName: Cyanea grimesiana subsp. obatae											Target # of Matures: 100			# MFS PU Met Goal: 2 of 4				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaluaa	Manage for stability	0	0	0	128	22	1	124	17	0	2	1	0	122	16	0	2016-04-07	Some plants died this year
Makaha	Genetic Storage				4	18	0	13	56	0	0	0	0	13	56	0	2016-02-09	More plants were outplanted
North branch of South Ekahanui	Manage reintroduction for stability	5	0	0	83	66	0	82	65	0	0	0	0	82	65	0	2016-05-11	A couple plants died
Palikea (South Palawai)	Manage for stability	3	60	0	108	36	1	120	19	1	7	7	0	113	12	1	2015-10-14	Some more plants matured at the outplanting
Out Total:		8	60	0	323	142	2	339	157	1	9	8	0	330	149	1		
Total for Taxon:		30	84	0	398	178	2	414	193	1	15	19	0	399	174	1		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Cyanea longiflora					Target # of Matures: 75						# MFS PU Met Goal: 1 of 3							
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kapuna to West Makaleha	Manage for stability	66	0	0	28	244	2	63	196	2	13	18	2	50	178	0	2016-06-02	More outplants matured this year; but populations declined slightly overall
Pahole	Manage for stability	114	0	0	58	104	21	60	18	2	60	18	2	0	0	0	2016-04-04	A thorough census has shown a substantial decline in the immature age class
In Total:		180	0	0	86	348	23	123	214	4	73	36	4	50	178	0		

Action Area: Out

TaxonName: Cyanea longiflora					Target # of Matures: 75						# MFS PU Met Goal: 1 of 3							
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Makaha and Waianae Kai	Manage for stability	4	0	0	110	207	0	119	187	0	7	2	0	112	185	0	2016-06-15	More outplants matured this year; but populations declined slightly overall
Out Total:		4	0	0	110	207	0	119	187	0	7	2	0	112	185	0		
Total for Taxon:		184	0	0	196	555	23	242	401	4	80	38	4	162	363	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Cyanea superba subsp. superba										Target # of Matures: 50			# MFS PU Met Goal: 1 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
Kahanahaiki	Manage reintroduction for stability	3	149	0	58	199	113	48	178	1	0	0	0	48	178	1	2016-04-18	Thorough monitoring in the last year showed a decline	
Pahole to Kapuna	Manage reintroduction for stability	31	139	0	95	71	4	95	71	4	0	0	0	95	71	4	2015-06-08	No monitoring in the last year	
In Total:		34	288	0	153	270	117	143	249	5	0	0	0	143	249	5			

Action Area: Out

TaxonName: Cyanea superba subsp. superba										Target # of Matures: 50			# MFS PU Met Goal: 1 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
Makaha	Manage reintroduction for stability				27	172	246	27	172	246	0	0	0	27	172	246	2015-04-14	No monitoring in the last year	
Manuwai	Manage reintroduction for stability	0	0	0	0	142	0	0	108	0	0	0	0	0	108	0	2016-07-07	Thorough monitoring in the last year showed a decline	
Out Total:		0	0	0	27	314	246	27	280	246	0	0	0	27	280	246			
Total for Taxon:		34	288	0	180	584	363	170	529	251	0	0	0	170	529	251			

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Cyrtandra dentata											Target # of Matures: 50			# MFS PU Met Goal: 1 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes		
Kahanahaiki	Manage for stability	52	45	0	37	76	94	33	142	9	33	142	9	0	0	0	2016-05-13	Monitoring showed seedlings growing into immature plants over the last year		
Kawaiiki (Koolaus)	Manage for stability	50	0	0	5	79	0	13	79	2	13	79	2	0	0	0	2016-04-19	More thorough monitoring led to discovering more plants		
Opaeula (Koolaus)	Manage for stability	21	5	0	23	107	0	35	161	2	35	161	2	0	0	0	2016-04-27	A thorough census led to more plants being discovered		
Pahole to West Makaleha	Manage for stability	300	0	0	603	670	281	615	700	286	615	700	286	0	0	0	2015-09-10	A known site was monitored for the first time last year, numbers added to previous total		
In Total:		423	50	0	668	932	375	696	1082	299	696	1082	299	0	0	0				

Action Area: Out

TaxonName: <i>Cyrtandra dentata</i>										Target # of Matures: 50			# MFS PU Met Goal: 1 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
Central Makaleha	Genetic Storage				3	0	0	3	0	0	3	0	0	0	0	0	2006-10-23	No monitoring since 2006	
Out Total:					3	0	0	3	0	0	3	0	0	0	0	0			
Total for Taxon:		423	50	0	671	932	375	699	1082	299	699	1082	299	0	0	0			

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Delissea waianaeensis										Target # of Matures: 100			# MFS PU Met Goal: 3 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki to Keawapilau	Manage for stability	33	1	0	240	19	0	240	17	0	3	4	0	237	13	0	2016-06-02	Small changes were noted during monitoring in the last year
Kaluakauila	Manage reintroduction for storage				15	3	0	15	3	0	0	0	0	15	3	0	2014-04-30	No monitoring in the last year
Kapuna	Manage reintroduction for storage				113	46	0	113	46	0	0	0	0	113	46	0	2014-04-29	No census taken in the last year
Palikea Gulch	Genetic Storage	2	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2014-05-28	No monitoring in the last year
South Mohiakea	Genetic Storage	2	0	0	12	23	6	10	15	3	10	15	3	0	0	0	2016-05-25	A thorough census has shown a slight decline in the immature age class
In Total:		37	1	0	381	91	6	379	81	3	14	19	3	365	62	0		

Action Area: Out

TaxonName: Delissea waianaeensis										Target # of Matures: 100			# MFS PU Met Goal: 3 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ekahanui	Manage for stability	14	44	0	196	23	0	196	23	0	2	1	0	194	22	0	2015-05-28	No monitoring this last year
Kaluaa	Manage for stability	44	0	0	650	89	6	598	63	0	5	2	0	593	61	0	2016-01-26	Thorough monitoring in the last year showed a decline
Kealia	Genetic Storage	0	7	0	4	13	2	4	13	0	4	13	0	0	0	0	2016-06-01	A thorough census showed no change in population
Manuwai	Manage reintroduction for stability				88	44	0	88	44	0	0	0	0	88	44	0	2015-05-26	No monitoring in the last year
Palawai	Genetic Storage	1	0	0	17	47	0	24	30	0	24	30	0	0	0	0	2016-06-22	A thorough census has shown immature plants transition into mature plants
Out Total:		59	51	0	955	216	8	910	173	0	35	46	0	875	127	0		

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Total for Taxon:	96	52	0	1336	307	14	1289	254	3	49	65	3	1240	189	0
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Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Dubautia herbstobatae		Target # of Matures: 50											# MFS PU Met Goal: 3 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Keaau	Genetic Storage	70	0	0	70	0	0	70	0	0	70	0	0	0	0	0	2000-01-01	No monitoring since 2000
Makaha/Ohikilolo	Genetic Storage				350	0	0	229	0	0	229	0	0	0	0	0	2016-06-21	1 of 2 sites was monitored and showed a substantial decline
Ohikilolo Makai	Manage for stability	700	0	0	89	2	0	89	2	0	89	2	0	0	0	0	2013-09-04	A new census was initiated but not yet completed
Ohikilolo Mauka	Manage for stability	1300	0	0	415	9	0	415	9	0	415	9	0	0	0	0	2011-06-07	A new census was initiated but not yet completed
In Total:		2070	0	0	924	11	0	803	11	0	803	11	0	0	0	0		

Action Area: Out

TaxonName: Dubautia herbstobatae		Target # of Matures: 50											# MFS PU Met Goal: 3 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kamaileunu	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2001-01-01	No monitoring since 2001
Makaha	Manage for stability	0	0	0	28	1	0	79	2	0	23	2	0	56	0	0	2016-02-10	A reintroduction increased the number of plants
Waianae Kai	Genetic Storage	5	0	0	10	4	0	10	4	0	10	4	0	0	0	0	2005-06-22	No monitoring since 2005
Out Total:		6	0	0	38	5	0	89	6	0	33	6	0	56	0	0		
Total for Taxon:		2076	0	0	962	16	0	892	17	0	836	17	0	56	0	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Euphorbia celastroides var. kaenana										Target # of Matures: 25			# MFS PU Met Goal: 3 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
East Kahanahaiki	Genetic Storage	2	0	0	2	0	0	2	0	0	2	0	0	0	0	0	2010-11-18	No monitoring in the last year	
Kaluakauila	Genetic Storage	17	1	0	11	3	0	11	3	0	11	3	0	0	0	0	2010-06-24	No monitoring since 2010	
Makua	Manage for stability	36	4	0	85	0	0	85	0	0	85	0	0	0	0	0	2014-12-09	No monitoring in the last year	
North Kahanahaiki	Genetic Storage	218	0	0	115	36	0	115	36	0	115	36	0	0	0	0	2013-03-21	No monitoring in the last year	
Puaakanoa	Manage for stability	147	10	0	150	16	2	120	11	0	120	11	0	0	0	0	2016-02-24	Moniroing showed a slight decline	
In Total:		420	15	0	363	55	2	333	50	0	333	50	0	0	0	0			

Action Area: Out

TaxonName: Euphorbia celastroides var. kaenana										Target # of Matures: 25			# MFS PU Met Goal: 3 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
East of Alau	Manage for stability	21	5	0	21	2	0	20	2	66	20	2	66	0	0	0	2015-09-28	Small changes were noted during monitoring in the last year	
Kaena	Manage for stability	300	0	0	579	896	0	880	274	0	880	274	0	0	0	0	2015-09-15	A thorough census showed more mature plants than immature plants compared to the last census	
Keawaula	Genetic Storage	69	6	0	43	1	2	43	1	2	43	1	2	0	0	0	2014-08-25	No monitoring in the last year	
Waianae Kai	Genetic Storage	48	0	0	34	0	0	34	0	0	34	0	0	0	0	0	2011-06-13	No monitoring in the last year	
Out Total:		438	11	0	677	899	2	977	277	68	977	277	68	0	0	0			
Total for Taxon:		858	26	0	1040	954	4	1310	327	68	1310	327	68	0	0	0			

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Euphorbia herbstii										Target # of Matures: 25			# MFS PU Met Goal: 1 of 3						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
Kapuna to Pahole	Manage for stability	170	0	0	56	52	0	54	44	1	13	9	1	41	35	0	2016-03-23	Monitoring showed a slight decline	
Manuwai	Manage reintroduction for stability				0	0	0	0	0	0	0	0	0	0	0	0		The reintroduction will begin once propagules are available	
In Total:		170	0	0	56	52	0	54	44	1	13	9	1	41	35	0			

Action Area: Out

TaxonName: Euphorbia herbstii					Target # of Matures: 25						# MFS PU Met Goal: 1 of 3							
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaluaa	Manage reintroduction for stability				0	0	0	0	0	0	0	0	0	0	0	0		Reintroduction planned for winter 2016
Makaha	Manage reintroduction for storage				4	31	0	3	12	0	0	0	0	3	12	0	2016-03-14	No monitoring in the last year
Out Total:					4	31	0	3	12	0	0	0	0	3	12	0		
Total for Taxon:		170	0	0	60	83	0	57	56	1	13	9	1	44	47	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Flueggea neowawraea										Target # of Matures: 50			# MFS PU Met Goal: 0 of 4						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
Kahanahaiki to Kapuna	Manage for stability	6	26	0	6	123	0	6	130	0	6	0	0	0	130	0	2016-03-15	More plants were added to the outplanting site	
Ohikilolo	Manage for stability	3	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2016-03-02	Monitoring showed no change	
West Makaleha	Genetic Storage	3	0	0	6	0	0	6	0	0	6	0	0	0	0	0	2014-01-29	No monitoring in the last year	
In Total:		12	26	0	13	123	0	13	130	0	13	0	0	0	130	0			

Action Area: Out

TaxonName: Flueggea neowawraea										Target # of Matures: 50			# MFS PU Met Goal: 0 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Central and East Makaleha	Genetic Storage	6	0	0	5	0	0	4	0	0	4	0	0	0	0	0	2015-09-23	One new tree was observed dead
Halona	Genetic Storage	2	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2010-12-07	No monitoring in the last year
Kauhiuhi	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2006-11-22	No monitoring since 2006
Makaha	Manage for stability	4	0	0	10	55	0	9	55	0	9	0	0	0	55	0	2016-07-19	One wild tree died
Manuwai	Manage reintroduction for stability	0	0	0	0	35	0	0	45	0	0	0	0	0	45	0	2016-06-21	More plants were added to the outplanting site
Mt. Kaala NAR	Genetic Storage	4	0	0	3	0	0	3	0	0	3	0	0	0	0	0	2014-09-18	No monitoring in the last year
Nanakuli, south branch	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2010-10-19	No monitoring in the last year
Waianae Kai	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2015-10-27	Monitoring showed no change
Out Total:		19	0	0	22	90	0	20	100	0	20	0	0	0	100	0		
Total for Taxon:		31	26	0	35	213	0	33	230	0	33	0	0	0	230	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Gouania vitifolia

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Keaau	Manage for stability				55	0	0	51	0	0	51	0	0	0	0	0	2016-06-14	A thorough monitoring showed a decline
In Total:					55	0	0	51	0	0	51	0	0	0	0	0		

Action Area: Out

TaxonName: Gouania vitifolia

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Makaha (Future Introduction)	Manage reintroduction for stability				0	0	0	0	0	0	0	0	0	0	0	0		Introduction has not begun
Manuwai (Future Introduction)	Manage reintroduction for stability				0	0	0	0	0	0	0	0	0	0	0	0		Introduction has not begun
Waianae Kai	Genetic Storage				3	0	0	3	0	0	3	0	0	0	0	0	2016-06-13	Monitoring has shown no change
Out Total:					3	0	0	3	0	0	3	0	0	0	0	0		
Total for Taxon:					58	0	0	54	0	0	54	0	0	0	0	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Hesperomannia oahuensis

Target # of Matures: 75

MFS PU Met Goal: 0 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Haleauau	Manage for stability				1	0	0	1	0	0	1	0	0	0	0	0	2016-07-21	Monitoring showed no change
Pahole NAR	Manage reintroduction for stability	8	0	0	4	38	0	2	32	0	0	0	0	2	32	0	2016-03-31	Thorough monitoring in the last year showed a decline in the number of mature and immature outplants and there are two small F1 immature plants
In Total:		8	0	0	5	38	0	3	32	0	1	0	0	2	32	0		

Action Area: Out

TaxonName: Hesperomannia oahuensis

Target # of Matures: 75

MFS PU Met Goal: 0 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Makaha	Manage for stability	13	0	0	3	43	0	11	35	0	5	1	0	6	34	0	2016-07-05	Eight of the outplants were observed to have matured in the last year and no change in the status of the remaining wild plants
Pualii	Manage reintroduction for stability				6	67	0	16	52	0	0	0	0	16	52	0	2016-03-17	Many of the outplants were observed to have matured in the last year and several plants had died after being damaged by high winds
Waianae Kai	Genetic Storage	9	0	1	0	1	0	0	1	0	0	1	0	0	0	0	2014-08-12	No census taken in the last year
Out Total:		22	0	1	9	111	0	27	88	0	5	2	0	22	86	0		
Total for Taxon:		30	0	1	14	149	0	30	120	0	6	2	0	24	118	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Hibiscus brackenridgei subsp. mokuleianus										Target # of Matures: 50			# MFS PU Met Goal: 2 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Keaau	Manage for stability				0	16	0	20	38	0	0	5	0	20	33	0	2016-06-14	Thorough monitoring in the last year showed a decline in the number of wild plants and a new outplanting was established to augment the population
Makua	Manage for stability	4	3	0	80	8	0	124	20	0	16	5	0	108	15	0	2016-04-06	Small changes were noted during monitoring the wild plants in the last year and more plants were added to the outplanting site
In Total:		4	3	0	80	24	0	144	58	0	16	10	0	128	48	0		

Action Area: Out

TaxonName: Hibiscus brackenridgei subsp. mokuleianus										Target # of Matures: 50			# MFS PU Met Goal: 2 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Haili to Kawaii	Manage for stability	3	1	0	5	3	2	44	22	0	3	2	0	41	20	0	2016-06-29	Small changes were noted during monitoring of the wild sites in the last year and a new outplanting was established
Manuwai	Manage reintroduction for stability				160	10	0	145	6	0	0	0	0	145	6	0	2016-01-27	Thorough monitoring in the last year showed a decline as some of the outplants died
Waialua	Genetic Storage	4	9	0	49	85	9	49	85	9	49	85	9	0	0	0	2013-04-02	No monitoring since 2013
Out Total:		7	10	0	214	98	11	238	113	9	52	87	9	186	26	0		
Total for Taxon:		11	13	0	294	122	11	382	171	9	68	97	9	314	74	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Kadua degeneri subsp. degeneri Target # of Matures: 50 # MFS PU Met Goal: 2 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki to Pahole	Manage for stability	161	0	0	147	131	23	102	100	150	102	100	150	0	0	0	2015-09-01	Thorough monitoring in the last year showed a decline
Outplanting site to be determined	Manage reintroduction for stability				0	0	0	0	0	0	0	0	0	0	0	0		Outplanting site to be determined
In Total:		161	0	0	147	131	23	102	100	150	102	100	150	0	0	0		

Action Area: Out

TaxonName: Kadua degeneri subsp. degeneri Target # of Matures: 50 # MFS PU Met Goal: 2 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Alaiheihe and Manuwai	Manage for stability	60	0	0	78	70	2	81	64	28	19	18	4	62	46	24	2016-07-13	A thorough census has shown immature plants transition into mature plants at both the wild and outplanting sites. New seedlings were found at the outplanting site and an increase in immature plants was observed at the wild site.
Central Makaleha and West Branch of East Makaleha	Manage for stability	47	0	0	23	13	8	24	8	19	24	8	19	0	0	0	2015-09-08	Small changes were noted during monitoring in the last year
East branch of East Makaleha	Genetic Storage	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2010-09-22	No census taken in the last year
Out Total:		117	0	0	101	83	10	105	72	47	43	26	23	62	46	24		
Total for Taxon:		278	0	0	248	214	33	207	172	197	145	126	173	62	46	24		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Kadua parvula

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ohikilolo	Manage for stability	66	0	0	100	157	5	96	136	0	76	86	0	20	50	0	2016-07-21	A thorough census has shown a decline
In Total:		66	0	0	100	157	5	96	136	0	76	86	0	20	50	0		

Action Area: Out

TaxonName: Kadua parvula

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ekahanui	Manage reintroduction for stability				0	0	0	6	39	0	0	0	0	6	39	0	2016-05-11	A new outplanting site was established and many of the plants are now mature
Halona	Manage for stability	64	0	0	93	28	19	31	4	0	31	4	0	0	0	0	2016-06-29	A thorough census has shown a substantial decline
Out Total:		64	0	0	93	28	19	37	43	0	31	4	0	6	39	0		
Total for Taxon:		130	0	0	193	185	24	133	179	0	107	90	0	26	89	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Melanthera tenuifolia

Target # of Matures: 50

MFS PU Met Goal: 3 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki	Genetic Storage	300	0	0	13	6	0	13	6	0	13	6	0	0	0	0	2011-05-04	No census taken in the last year
Kaluakauila	Genetic Storage	113	0	0	4	80	0	4	80	0	4	80	0	0	0	0	2011-03-07	No census taken in the last year
Keawaula	Genetic Storage	20	20	0	60	33	0	200	50	0	200	50	0	0	0	0	2016-03-30	A thorough census led to more plants being discovered in areas where fewer were observed in previous years
Ohikilolo	Manage for stability	2008	1	0	1109	8	0	1088	11	0	1088	11	0	0	0	0	2016-06-21	Thorough monitoring in the last year showed a decline at one of the known wild sites
In Total:		2441	21	0	1186	127	0	1305	147	0	1305	147	0	0	0	0		

Action Area: Out

TaxonName: Melanthera tenuifolia

Target # of Matures: 50

MFS PU Met Goal: 3 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kamaileunu and Waianae Kai	Manage for stability	880	0	0	815	246	274	815	246	274	815	246	274	0	0	0	2010-04-28	No census taken in the last year
Mt. Kaala NAR	Manage for stability	250	0	0	121	4	0	131	24	0	131	24	0	0	0	0	2015-09-22	A thorough census led to more plants being discovered but still a substantial decline from the initial estimates
Out Total:		1130	0	0	936	250	274	946	270	274	946	270	274	0	0	0		
Total for Taxon:		3571	21	0	2122	377	274	2251	417	274	2251	417	274	0	0	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Neraudia angulata

Target # of Matures: 100

MFS PU Met Goal: 2 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaluakauila	Manage reintroduction for stability				65	69	0	100	24	1	0	0	0	100	24	1	2016-03-30	A thorough census has shown immature outplants transition into mature plants
Kapuna	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2016-05-16	Monitoring showed no change
Makua	Manage for stability	29	0	22	120	6	0	68	7	13	21	4	0	47	3	13	2016-05-31	A thorough census has shown a substantial decline, mostly at the outplant sites
Punapohaku	Genetic Storage				4	0	0	4	0	0	4	0	0	0	0	0	2014-04-30	No census taken in the last year
In Total:		30	0	22	189	75	0	172	31	14	25	4	0	147	27	14		

Population Unit Status - Makua Implementation Plan

Action Area: Out

TaxonName: Neraudia angulata

Target # of Matures: 100

MFS PU Met Goal: 2 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Halona	Genetic Storage	15	0	0	32	5	0	4	10	1	4	10	1	0	0	0	2016-08-15	Revisiting the wild sites has uncovered population decline
Leeward Puu Kaua	Genetic Storage	3	0	0	9	0	0	9	0	0	9	0	0	0	0	0	2006-11-21	No monitoring in the last year
Makaha	Manage for stability (backup site)	56	14	0	52	13	0	142	8	0	3	8	0	139	0	0	2016-02-22	More plants were added to the outplanting site and most immature plants transitioned into mature plants
Manuwai	Manage for stability	12	0	0	115	84	0	110	97	14	0	3	0	110	94	14	2016-06-21	Small changes were noted during monitoring in the last year
Waianae Kai Makai	Genetic Storage	4	0	0	13	0	0	13	0	0	13	0	0	0	0	0	2013-11-25	No census taken in the last year
Waianae Kai Mauka	Manage for stability	21	25	0	13	3	0	11	2	0	7	2	0	4	0	0	2016-03-15	Revisiting sites has uncovered population decline
Out Total:		111	39	0	234	105	0	289	117	15	36	23	1	253	94	14		
Total for Taxon:		141	39	22	423	180	0	461	148	29	61	27	1	400	121	28		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Nototrichium humile

Target # of Matures: 25

MFS PU Met Goal: 4 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki	Genetic Storage	140	0	0	50	2	1	78	4	0	78	4	0	0	0	0	2015-10-28	
Kaluakauila	Manage for stability	200	0	0	160	48	0	160	48	0	160	48	0	0	0	0	2014-08-06	No census taken in the last year
Keaau	Genetic Storage	21	31	0	21	31	0	21	31	0	21	31	0	0	0	0	2004-08-30	No census taken in the last year
Keawaula	Genetic Storage	200	30	0	35	6	0	70	70	10	70	70	10	0	0	0	2016-03-30	A thorough census led to more plants being discovered
Makua (East rim)	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1997-01-01	No census taken in the last year
Makua (south side)	Manage for stability	120	18	0	50	3	0	50	3	0	43	3	0	7	0	0	2013-07-11	No census taken in the last year
Punapohaku	Genetic Storage	152	14	0	178	77	0	178	77	0	178	77	0	0	0	0	2013-10-08	No census taken in the last year
In Total:		834	93	0	495	167	1	558	233	10	551	233	10	7	0	0		

Population Unit Status - Makua Implementation Plan

Action Area: Out

TaxonName: Nototrichium humile					Target # of Matures: 25						# MFS PU Met Goal: 4 of 4							
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaimuhole and Palikea Gulch	Genetic Storage	48	6	0	29	1	0	29	1	0	29	1	0	0	0	0	2013-09-26	No census taken in the last year
Keawapilau	Genetic Storage	9	1	0	1	0	0	1	0	0	1	0	0	0	0	0	2013-04-17	No census taken in the last year
Kolekole	Genetic Storage	13	0	0	12	0	0	12	0	0	12	0	0	0	0	0	2005-01-01	No census taken in the last year
Makaha	Genetic Storage	159	0	0	22	5	0	22	5	0	22	5	0	0	0	0	2010-03-02	No census taken in the last year
Manuwai	Manage reintroduction for stability				115	0	0	112	0	0	0	0	0	112	0	0	2016-06-21	Small changes were noted during monitoring in the last year as a few of the outplants died
Nanakuli	Genetic Storage	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	2016-03-29	Mmonitoring in the last year found no plants but the surrounding area needs to be searched again
Puu Kaua (Leeward side)	Genetic Storage	12	0	0	2	0	0	2	0	0	2	0	0	0	0	0	2006-11-21	No census taken in the last year
Waianae Kai	Manage for stability	200	0	0	216	54	0	155	135	0	155	135	0	0	0	0	2015-09-23	A thorough census has shown a substantial decline
Out Total:		446	7	0	402	60	0	333	141	0	221	141	0	112	0	0		
Total for Taxon:		1280	100	0	897	227	1	891	374	10	772	374	10	119	0	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: *Phyllostegia kaalaensis*

Target # of Matures: 50

MFS PU Met Goal: 0 of 4

[illegible]

Action Area: Out

TaxonName: *Phyllostegia kaalaensis*

Target # of Matures: 50

MFS PU Met Goal: 0 of 4

[illegible]

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Plantago princeps var. princeps

Target # of Matures: 50

MFS PU Met Goal: 0 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
North Mohiakea	Manage for stability	20	10	0	39	12	0	39	12	0	39	12	0	0	0	0	2013-05-21	No census taken in the last year
Ohikilolo	Manage for stability	14	0	0	0	0	0	4	50	0	0	0	0	4	50	0	2016-05-23	A new outplanting site was established in the last year and some of the outplants have started to mature
Pahole	Genetic Storage	12	0	0	2	2	0	4	5	0	4	5	0	0	0	0	2016-05-25	Thorough monitoring in the last year found more plants
In Total:		46	10	0	41	14	0	47	67	0	43	17	0	4	50	0		

Action Area: Out

TaxonName: Plantago princeps var. princeps

Target # of Matures: 50

MFS PU Met Goal: 0 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ekahanui	Manage for stability	16	17	0	48	191	0	7	76	0	7	73	0	0	3	0	2016-05-11	A thorough census has shown a substantial decline
Halona	Manage for stability	50	0	0	10	1	0	6	9	0	6	9	0	0	0	0	2016-06-30	Small changes were noted during a thorough monitoring in the last year but a substantial decline from the initial estimates for this site
North Palawai	Genetic Storage	32	0	0	5	1	0	1	0	0	1	0	0	0	0	0	2016-05-23	No census taken in the last year
Waieli	Manage reintroduction for storage				12	30	0	12	30	0	0	0	0	12	30	0	2014-04-14	No census taken in the last year
Out Total:		98	17	0	75	223	0	26	115	0	14	82	0	12	33	0		
Total for Taxon:		144	27	0	116	237	0	73	182	0	57	99	0	16	83	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Pritchardia kaalae

Target # of Matures: 25

MFS PU Met Goal: 2 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ohikilolo	Manage for stability	65	408	0	85	1590	0	85	1590	0	72	1178	0	13	412	0	2014-04-23	No census taken in the last year
Ohikilolo East and West Makaleha	Manage reintroduction for stability	0	75	0	4	330	0	6	328	0	0	0	0	6	328	0	2016-04-20	Small changes were noted during monitoring in the last year as two of the outplants were observed to have matured
In Total:		65	483	0	89	1920	0	91	1918	0	72	1178	0	19	740	0		

Action Area: Out

TaxonName: Pritchardia kaalae

Target # of Matures: 25

MFS PU Met Goal: 2 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Makaha	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2014-09-17	No census taken in the last year
Makaleha to Manuwai	Manage for stability	138	3	0	122	13	0	123	11	0	123	11	0	0	0	0	2016-07-12	Small changes were noted during monitoring in the last year
Waianae Kai	Genetic Storage	7	2	0	4	5	0	4	5	0	4	5	0	0	0	0	2002-06-12	No census taken in the last year
Out Total:		146	5	0	127	18	0	128	16	0	128	16	0	0	0	0		
Total for Taxon:		211	488	0	216	1938	0	219	1934	0	200	1194	0	19	740	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Sanicula mariversa										Target # of Matures: 100			# MFS PU Met Goal: 0 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Keaau	Manage for stability	16	125	0	0	43	0	0	13	16	0	13	16	0	0	0	2016-04-14	A thorough census of the known area found fewer plants this year
Ohikilolo	Manage for stability	34	128	0	0	216	200	2	158	180	0	5	180	2	153	0	2016-03-03	A thorough census of the known area found fewer plants this year but two were observed to be mature and most of the outplants emerged from dormancy
In Total:		50	253	0	0	259	200	2	171	196	0	18	196	2	153	0		

Action Area: Out

TaxonName: Sanicula mariversa					Target # of Matures: 100						# MFS PU Met Goal: 0 of 3							
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kamaileunu	Manage for stability	26	0	0	5	408	135	3	264	6	3	264	6	0	0	0	2016-03-21	A thorough census of the known area found fewer plants this year
Puu Kawiwi	Genetic Storage	2	0	0	0	8	0	0	0	0	0	0	0	0	0	0	2016-03-15	No plants were observed at this site in the last year
Out Total:		28	0	0	5	416	135	3	264	6	3	264	6	0	0	0		
Total for Taxon:		78	253	0	5	675	335	5	435	202	3	282	202	2	153	0		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Schiedea kaalae										Target # of Matures: 50			# MFS PU Met Goal: 3 of 4					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Pahole	Manage for stability	3	0	0	83	145	47	58	67	7	2	0	0	56	67	7	2016-03-09	A thorough census has shown a substantial decline in all age classes
In Total:		3	0	0	83	145	47	58	67	7	2	0	0	56	67	7		

Action Area: Out

TaxonName: Schiedea kaalae																		Target # of Matures: 50			# MFS PU Met Goal: 3 of 4		
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes					
Kahana	Genetic Storage	0	0	0	8	0	2	8	0	2	5	0	1	3	0	1	2012-08-09	No census taken in the last year					
Kaluaa and Waieli	Manage for stability	2	53	0	166	5	0	164	4	0	0	0	0	164	4	0	2016-05-10	Small changes were noted during monitoring in the last year					
Maakua (Koolaus)	Manage for stability	4	0	0	10	0	0	10	0	0	10	0	0	0	0	0	2008-07-02	The sites were visited and 5 plants were observed, but all known sites were not thoroughly searched					
Makaua (Koolaus)	Genetic Storage	2	0	0	85	0	0	85	0	0	1	0	0	84	0	0	2012-02-29	No census taken in the last year					
North Palawai	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2011-04-18	No census taken in the last year					
South Ekahanui	Manage for stability	10	75	0	160	268	12	149	148	0	9	2	0	140	146	0	2016-01-26	A thorough census has shown a decline in all age classes					
Out Total:		19	128	0	429	273	14	416	152	2	25	2	1	391	150	1							
Total for Taxon:		22	128	0	512	418	61	474	219	9	27	2	1	447	217	8							

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Schiedea nuttallii											Target # of Matures: 50			# MFS PU Met Goal: 3 of 3				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki to Pahole	Manage for stability	48	17	0	108	112	58	88	35	317	6	0	0	82	35	317	2016-06-13	A thorough census has shown a decline in the number of mature and immature plants and many seedlings were observed
Kapuna-Keawapilau Ridge	Manage for stability	3	1	0	74	0	0	55	2	0	0	0	0	55	2	0	2015-12-28	Thorough monitoring in the last year showed a decline and two new F1 immature plants were observed
In Total:		51	18	0	182	112	58	143	37	317	6	0	0	137	37	317		

Action Area: Out

TaxonName: Schiedea nuttallii										Target # of Matures: 50			# MFS PU Met Goal: 3 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Makaha	Manage reintroduction for stability	0	0	0	68	43	0	91	5	0	0	0	0	91	5	0	2016-04-12	A thorough census has shown immature plants transition into mature plants
Out Total:		0	0	0	68	43	0	91	5	0	0	0	0	91	5	0		
Total for Taxon:		51	18	0	250	155	58	234	42	317	6	0	0	228	42	317		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Schiedea obovata										Target # of Matures: 100				# MFS PU Met Goal: 1 of 3				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki to Pahole	Manage for stability	65	25	0	283	1028	210	276	1094	203	0	0	0	276	1094	203	2016-04-13	Small changes were noted during monitoring in the last year
Keawapilau to West Makaleha	Manage for stability	24	12	0	58	526	67	36	458	36	11	458	36	25	0	0	2016-05-24	Thorough monitoring in the last year showed a decline
In Total:		89	37	0	341	1554	277	312	1552	239	11	458	36	301	1094	203		

Action Area: Out

TaxonName: Schiedea obovata										Target # of Matures: 100			# MFS PU Met Goal: 1 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Makaha	Manage reintroduction for stability	0	0	0	146	52	13	76	14	0	0	0	0	76	14	0	2016-06-15	Thorough monitoring in the last year showed a decline
Out Total:		0	0	0	146	52	13	76	14	0	0	0	0	76	14	0		
Total for Taxon:		89	37	0	487	1606	290	388	1566	239	11	458	36	377	1108	203		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Tetramolopium filiforme

Target # of Matures: 50

MFS PU Met Goal: 1 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahanahaiki	Genetic Storage	50	0	0	40	0	0	40	0	0	40	0	0	0	0	0	2006-10-04	No census taken in the last year
Kalena	Manage for stability				24	93	0	24	93	0	24	93	0	0	0	0	2013-05-21	No census taken in the last year
Keaau	Genetic Storage	25	0	0	30	41	17	30	41	17	30	41	17	0	0	0	2005-11-07	No census taken in the last year
Makaha/Ohikilolo Ridge	Genetic Storage				300	0	0	350	200	0	350	200	0	0	0	0	2016-06-21	A thorough census found more mature and immature plants
Ohikilolo	Manage for stability	2500	0	0	2394	1464	20	1902	1464	20	1902	1464	20	0	0	0	2016-06-23	A thorough census of just a single site found a substantial decline when none of the over 300 plants were observed
Puhawai	Manage for stability	6	6	0	21	9	2	3	3	1	0	0	0	3	3	1	2016-04-21	Thorough monitoring in the last year showed a decline at this outplanting site
In Total:		2581	6	0	2809	1607	39	2349	1801	38	2346	1798	37	3	3	1		

Action Area: Out

TaxonName: Tetramolopium filiforme

Target # of Matures: 50

MFS PU Met Goal: 1 of 4

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Waianae Kai	Manage for stability	20	2	0	20	0	0	20	0	0	20	0	0	0	0	0	2016-07-11	Monitoring in the last year found no change
Out Total:		20	2	0	20	0	0	20	0	0	20	0	0	0	0	0		
Total for Taxon:		2601	8	0	2829	1607	39	2369	1801	38	2366	1798	37	3	3	1		

Population Unit Status - Makua Implementation Plan

Action Area: In

TaxonName: Viola chamissoniana subsp. chamissoniana											Target # of Matures: 50			# MFS PU Met Goal: 2 of 4				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Keaau	Genetic Storage	40	10	0	40	10	0	40	10	0	40	10	0	0	0	0	2002-06-04	No census taken in the last year
Makaha/Ohikilolo Ridge	Genetic Storage	250	0	0	7	0	0	0	0	0	0	0	0	0	0	0	2016-06-21	A thorough census of this site found no remaining plants
Ohikilolo	Manage for stability				386	25	1	208	55	0	208	55	0	0	0	0	2016-06-21	A thorough census of three of the wild sites shows a substantial decline at two, but more observed at the third
Puu Kumakalii	Manage for stability	19	1	0	44	0	0	44	0	0	44	0	0	0	0	0	2004-10-21	No census taken in the last year
In Total:		309	11	0	477	35	1	292	65	0	292	65	0	0	0	0		

Action Area: Out

TaxonName: Viola chamissoniana subsp. chamissoniana											Target # of Matures: 50			# MFS PU Met Goal: 2 of 4				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Halona	Manage for stability	3	0	0	22	5	0	15	5	0	15	5	0	0	0	0	2016-06-29	A thorough census at one of the two sites found a substantial decline. The other site will be surveyed in the coming year
Kamaileunu	Genetic Storage	38	0	0	35	0	0	35	0	0	35	0	0	0	0	0	2000-05-23	No census taken in the last year
Makaha	Manage for stability	50	0	0	68	11	0	68	11	0	68	11	0	0	0	0	2014-05-14	No census taken in the last year
Makaleha	Genetic Storage				18	9	0	19	9	1	19	9	1	0	0	0	2015-06-03	No census taken in the last year
Puu Hapapa	Genetic Storage	10	3	0	7	2	0	6	1	0	6	1	0	0	0	0	2016-05-11	A thorough census has shown a continuing decline
Out Total:		101	3	0	150	27	0	143	26	1	143	26	1	0	0	0		
Total for Taxon:		410	14	0	627	62	1	435	91	1	435	91	1	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Abutilon sandwicense											Target # of Matures: 50			# MFS PU Met Goal: 3 of 4				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaawa to Puulu	Manage for stability	36	88	6	32	59	0	30	49	1	30	49	1	0	0	0	2016-07-28	Almost all sites thoroughly monitored
Kahanahaiki	Manage reintroduction for stability	0	0	0	72	6	0	72	6	0	0	0	0	72	6	0	2015-07-28	More outplants; clonal stock is
Kaluakauila	Manage reintroduction for storage	0	4	0	0	7	0	0	3	0	0	0	0	0	3	0	2016-08-16	No monitoring in the last year
Keaau	Genetic Storage	1	0	10	1	0	10	1	0	10	1	0	10	0	0	0	2002-04-06	No monitoring in the last year
In Total:		37	92	16	105	72	10	103	58	11	31	49	11	72	9	0		

Population Unit Status - Oahu Implementation Plan

Action Area: Out

TaxonName: Abutilon sandwicense											Target # of Matures: 50			# MFS PU Met Goal: 3 of 4				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
East Makaleha	Genetic Storage	2	2	40	0	0	0	0	0	0	0	0	0	0	0	0	2013-09-10	No monitoring in the last year
Ekahanui and Huliwai	Manage for stability	14	30	0	46	118	5	57	118	0	5	37	0	52	81	0	2016-07-25	More outplants are starting to mature
Halona	Genetic Storage	0	0	0	0	0	0	10	5	0	10	5	0	0	0	0	2016-08-15	Thorough monitoring last year
Makaha Makai	Manage for stability	73	27	6	92	133	0	92	133	0	92	133	0	0	0	0	2015-07-08	No monitoring in the last year
Makaha Mauka	Genetic Storage	5	58	4	13	1	0	13	1	0	13	1	0	0	0	0	2015-07-09	No monitoring in the last year
Nanakuli	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Have yet to monitor this site
North Mikilua	Genetic Storage	2	39	0	9	11	0	9	11	0	9	11	0	0	0	0	2012-07-19	No monitoring in the last year
South Mikilua	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Have yet to monitor this site
Waianae Kai	Genetic Storage	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2015-07-09	No monitoring in the last year
West Makaleha	Genetic Storage	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2012-09-17	No monitoring in the last year
Out Total:		98	158	50	160	263	5	181	268	0	129	187	0	52	81	0		
Total for Taxon:		135	250	66	265	335	15	284	326	11	160	236	11	124	90	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Cyanea acuminata

Target # of Matures: 50

MFS PU Met Goal: 3 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Helemano-Punaluu Summit Ridge to North Kaukonahua	Manage for stability	59	13	7	130	142	0	130	142	0	130	142	0	0	0	0	2015-06-02	No monitoring in the last year
Kahana and South Kaukonahua	Genetic Storage	2	0	0	2	0	0	2	0	0	2	0	0	0	0	0	1993-01-01	No monitoring in the last year
Kawaiiki	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Have yet to monitor this site
Makaleha to Mohiakea	Manage for stability	85	33	0	151	65	0	190	89	0	190	89	0	0	0	0	2015-10-01	A more thorough monitoring discovered more plants at one site in Kaala
In Total:		147	46	7	283	207	0	322	231	0	322	231	0	0	0	0		

Action Area: Out

TaxonName: Cyanea acuminata

Target # of Matures: 50

MFS PU Met Goal: 3 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kahana and Makaua	Genetic Storage	5	0	0	11	3	0	11	3	0	11	3	0	0	0	0	2008-11-06	No monitoring in the last year
Kaipapau and Koloa	Genetic Storage	0	0	0	70	30	0	70	30	0	70	30	0	0	0	0	2013-12-16	No monitoring in the last year
Kaluanui and Maakua	Manage for stability	0	0	0	123	126	50	123	126	50	123	126	50	0	0	0	2015-01-14	No monitoring in the last year
Konahuanui	Genetic Storage	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Have yet to monitor this site
Pia	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Have yet to monitor this site
Puukeahiakahoe	Genetic Storage	3	0	0	3	0	0	3	0	0	3	0	0	0	0	0	1997-02-04	Have not yet visited this site
Puuokona	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Have yet to visit this site
Out Total:		39	0	0	207	159	50	207	159	50	207	159	50	0	0	0		
Total for Taxon:		186	46	7	490	366	50	529	390	50	529	390	50	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Cyanea koolauensis

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaipapau, Koloa and Kawainui	Manage for stability	51	25	6	106	13	0	93	16	0	93	16	0	0	0	0	2015-10-07	Revisiting sites has uncovered population decline; a few new sites were discovered
Kamananui-Kawainui Ridge	Genetic Storage	6	2	0	6	2	0	6	2	0	6	2	0	0	0	0	2001-03-12	No monitoring data since 2001
Kaukonahua	Genetic Storage	11	1	0	8	3	0	8	3	0	8	3	0	0	0	0	2015-07-01	No monitoring in the last year
Kawaiiki	Genetic Storage	3	4	0	4	4	0	4	4	0	4	4	0	0	0	0	2000-01-01	No monitoring data since 2000
Lower Opaepala	Genetic Storage	3	1	0	1	0	0	1	0	0	1	0	0	0	0	0	2011-07-12	No monitoring since 2011
Opaepala to Helemanohi	Manage for stability	10	3	0	23	4	0	22	2	0	22	2	0	0	0	0	2015-08-17	Small decline was noted this year
Poamohi	Manage for stability	12	0	0	21	18	0	20	19	0	20	19	0	0	0	0	2015-10-29	Revisiting sites has uncovered population decline; a few new sites were discovered
In Total:		96	36	6	169	44	0	154	46	0	154	46	0	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: Out

TaxonName: Cyanea koolauensis

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Halawa	Genetic Storage	3	0	0	4	0	0	4	0	0	4	0	0	0	0	0	1990-09-16	No monitoring in the last year
Halawa-Kalauao Ridge	Genetic Storage	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored
Lulumahu	Genetic Storage	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0		The site has yet to be monitored
Waialae Nui	Genetic Storage	2	0	0	2	0	0	2	0	0	2	0	0	0	0	0	1990-09-06	No data available as of 1990
Waiawa to Waimano	Genetic Storage	1	0	0	11	2	0	11	2	0	11	2	0	0	0	0	2012-09-18	No monitoring since 2012
Wailupe	Genetic Storage	15	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2006-08-10	No monitoring since 2006
Waimalu	Genetic Storage	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Out Total:		39	0	0	18	2	0	18	2	0	18	2	0	0	0	0		
Total for Taxon:		135	36	6	187	46	0	172	48	0	172	48	0	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Eugenia koolauensis											Target # of Matures: 50			# MFS PU Met Goal: 0 of 3						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes		
Aimuu	Genetic Storage	0	0	0	8	10	0	8	10	0	8	10	0	0	0	0	2015-04-09	No monitoring in the last year		
Kaiwikoele and Kamananui	Genetic Storage	16	16	15	21	26	1	21	26	1	21	26	1	0	0	0	2016-03-30	Only a subset of plants were monitored this year		
Kaleleiki	Genetic Storage	25	30	250	14	54	80	14	54	80	14	54	80	0	0	0	2015-05-06	No monitoring in the last year		
Kaunala	Manage for stability	48	93	6	20	39	27	20	39	27	20	39	27	0	0	0	2015-06-09			
Malaekahana	Genetic Storage				5	21	0	5	21	0	5	21	0	0	0	0	2014-04-09	No monitoring in the last year		
Ohiaai and East Oio	Genetic Storage	5	8	10	1	1	0	1	1	0	1	1	0	0	0	0	2015-03-18	No monitoring in the last year		
Oio	Manage for stability	18	56	0	5	2	0	6	2	0	6	2	0	0	0	0	2015-07-07	No monitoring in the last year, but one new plant was found in a new site		
Pahipahialua	Manage for stability	57	234	1	22	6	141	22	6	141	22	6	141	0	0	0	2014-07-23	No monitoring in the last year		
In Total:		169	437	282	96	159	249	97	159	249	97	159	249	0	0	0				

Action Area: Out

TaxonName: Eugenia koolauensis										Target # of Matures: 50			# MFS PU Met Goal: 0 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Hanaimoa	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2015-06-25	No monitoring in the last year
Palikea and Kaimuhole	Genetic Storage	3	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2014-05-28	No monitoring in the last year
Papali	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Out Total:		5	0	0	2	0	0	2	0	0	2	0	0	0	0	0		
Total for Taxon:		174	437	282	98	159	249	99	159	249	99	159	249	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Gardenia mannii

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Haleauau	Manage for stability	2	0	0	69	0	0	77	0	0	3	0	0	74	0	0	2016-07-19	More plants were planted
Helemano and Poamoho	Manage for stability	18	0	0	17	0	0	21	1	0	21	1	0	0	0	0	2016-06-27	New plants were discovered during surveys, others were observed dead
Kaiwikoele, Kamananui, and Kawainui	Genetic Storage	20	0	0	13	0	0	13	0	0	13	0	0	0	0	0	2015-06-17	No monitoring in the last year
Lower Peahinaia	Manage for stability	45	1	0	9	1	0	10	20	0	10	0	0	0	20	0	2016-04-28	A reintroduction was started this year
South Kaukonahua	Genetic Storage	2	0	0	1	0	0	2	0	0	2	0	0	0	0	0	2016-03-30	2 of 4 old sites re-visited, one tree found alive
Upper Opaepala/Helemano	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2016-03-28	Monitoring showed no change
In Total:		88	1	0	110	1	0	124	21	0	50	1	0	74	20	0		

Population Unit Status - Oahu Implementation Plan

Action Area: Out

TaxonName: Gardenia mannii

Target # of Matures: 50

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ihiihi-Kawainui ridge	Genetic Storage	2	0	0	2	0	0	2	0	0	2	0	0	0	0	0	1993-01-01	No data available as of 1993
Kahana and Makaua	Genetic Storage	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Kaipapau to Punaluu	Genetic Storage	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Kalauao	Genetic Storage	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Kaluaa and Maunauna	Genetic Storage	1	0	0	2	0	0	2	0	0	2	0	0	0	0	0	2014-06-17	No monitoring in the last year
Kamananui-Malaekahana Summit Ridge	Genetic Storage	13	0	0	3	0	0	3	0	0	3	0	0	0	0	0	2015-08-25	No change observed this year
Kapakahi	Genetic Storage	4	0	0	2	0	0	2	0	0	2	0	0	0	0	0	2016-06-25	1 of 2 sites monitored; no change
Manana-Waimano Ridge	Genetic Storage	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Pukele	Genetic Storage	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1986-07-29	No data available as of 1986
Waialae Nui	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Out Total:		36	0	0	10	0	0	10	0	0	10	0	0	0	0	0		
Total for Taxon:		124	1	0	120	1	0	134	21	0	60	1	0	74	20	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Hesperomannia swezeyi											Target # of Matures: 25			# MFS PU Met Goal: 2 of 3				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kamananui to Kaluanui	Manage for stability	54	45	14	134	112	45	134	112	45	134	112	45	0	0	0	2015-07-29	Monitoring showed no change
Kaukonahua	Manage for stability	76	51	122	55	54	2	55	54	2	55	54	2	0	0	0	2015-07-29	Monitoring showed no change
Lower Opaepala	Manage for stability	9	15	0	18	21	0	15	23	0	15	23	0	0	0	0	2016-07-28	Monitoring showed no change
Ohiaai ridge	Genetic Storage	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Poamoho	Genetic Storage	38	16	3	21	12	5	21	12	5	21	12	5	0	0	0	2015-06-01	No census taken in the last year
In Total:		182	128	139	228	199	52	225	201	52	225	201	52	0	0	0		

Action Area: Out

TaxonName: Hesperomannia swezeyi											Target # of Matures: 25			# MFS PU Met Goal: 2 of 3				
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Halawa	Genetic Storage	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Kapakahi	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Niu-Waimanalo Summit Ridge	Genetic Storage	4	0	0	1	4	1	1	4	1	1	4	1	0	0	0	2015-05-29	No census taken in the last year
Waimano	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		This site has yet to be monitored by OANRP
Out Total:		8	0	0	1	4	1	1	4	1	1	4	1	0	0	0		
Total for Taxon:		190	128	139	229	203	53	226	205	53	226	205	53	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Labordia cyrtandrae										Target # of Matures: 50			# MFS PU Met Goal: 1 of 2						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
East Makaleha to North Mohiakea	Manage for stability	84	16	2	295	40	0	298	51	0	71	0	0	227	51	0	2016-06-02	More plants were added to the outplanting site and more immature outplants transitioned into mature plants	
In Total:		84	16	2	295	40	0	298	51	0	71	0	0	227	51	0			

Action Area: Out

TaxonName: Labordia cyrtandrae										Target # of Matures: 50			# MFS PU Met Goal: 1 of 2					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Koloa	Manage reintroduction for stability				33	48	0	9	5	0	0	0	0	9	5	0	2016-05-25	A thorough census has shown a substantial decline in the number of outplants
Out Total:					33	48	0	9	5	0	0	0	0	9	5	0		
Total for Taxon:		84	16	2	328	88	0	307	56	0	71	0	0	236	56	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: *Phyllostegia hirsuta*

Target # of Matures: 100

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Haleauau to Mohiakea	Manage for stability	6	12	0	71	76	0	96	2	0	11	2	0	85	0	0	2016-05-12	A thorough census has shown immature plants transition into mature plants
Helemano and Opaepala	Genetic Storage	14	5	6	1	4	0	1	4	0	1	4	0	0	0	0	2013-11-20	No census taken in the last year
Helemano to Poamoho	Genetic Storage	1	0	0	2	0	0	2	0	0	2	0	0	0	0	0	2016-06-02	Monitoring showed no change
Kaipapau and Kawainui	Genetic Storage	7	0	0	4	0	0	4	0	0	4	0	0	0	0	0	2013-12-17	No census taken in the last year
Kaukonahua	Genetic Storage	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2010-07-28	No census taken in the last year
Kawaiiki	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2008-10-09	No census taken in the last year
Koloa	Manage for stability	0	0	0	97	123	1	114	39	1	6	3	1	108	36	0	2016-05-25	A thorough census has shown immature plants transition into mature plants
In Total:		32	19	6	175	203	1	217	45	1	24	9	1	193	36	0		

Population Unit Status - Oahu Implementation Plan

Action Area: Out

TaxonName: <i>Phyllostegia hirsuta</i>										Target # of Matures: 100			# MFS PU Met Goal: 1 of 3						
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes	
Hapapa to Kaluaa	Genetic Storage	11	9	7	2	10	0	1	27	0	1	27	0	0	0	0	2016-07-20	Small changes were noted during monitoring in the last year	
Kaluanui and Punaluu	Genetic Storage	5	0	0	5	3	0	5	3	0	5	3	0	0	0	0	2011-05-17	No census taken in the last year	
Makaha-Waianae Kai Ridge	Genetic Storage	2	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2013-08-27	No census taken in the last year	
Palawai	Genetic Storage	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2009-03-03	No census taken in the last year	
Puu Palikea	Manage reintroduction for stability				114	127	0	87	55	0	0	0	0	87	55	0	2016-04-12	Thorough monitoring in the last year showed a decline	
Waiamano	Genetic Storage				1	0	0	1	0	0	1	0	0	0	0	0	2006-01-01	No census taken in the last year	
Out Total:		18	10	7	123	140	0	95	85	0	8	30	0	87	55	0			
Total for Taxon:		50	29	13	298	343	1	312	130	1	32	39	1	280	91	0			

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Phyllostegia mollis										Target # of Matures: 100			# MFS PU Met Goal: 0 of 3					
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Mohiakea	Genetic Storage	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2015-06-23	No census taken in the last year
In Total:		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0		

Action Area: Out

TaxonName: Phyllostegia mollis					Target # of Matures: 100						# MFS PU Met Goal: 0 of 3							
Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Ekahanui	Manage for stability	35	0	0	11	1	0	1	0	0	0	0	0	1	0	0	2016-05-11	Many of the outplants were observed to have died in the last year leaving just a single plant
Kaluaa	Manage for stability	38	11	0	88	42	0	74	63	0	0	0	0	74	63	0	2016-02-16	More plants were added to the outplanting site and a decline was observed in the number of mature outplants already at the site
Pualii	Manage reintroduction for stability	0	0	0	11	0	0	11	0	0	0	0	0	11	0	0	2015-05-06	No census taken in the last year
Waieli	Genetic Storage	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	2012-12-04	No census taken in the last year
Out Total:		73	11	0	111	43	0	87	63	0	1	0	0	86	63	0		
Total for Taxon:		73	15	0	111	43	0	87	63	0	1	0	0	86	63	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Schiedea trinervis

Target # of Matures: 50

MFS PU Met Goal: 1 of 1

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kalena to East Makaleha	Manage for stability	180	196	318	296	351	377	296	351	377	296	351	377	0	0	0	2015-08-04	Monitoring in the last year showed no change
In Total:		180	196	318	296	351	377	296	351	377	296	351	377	0	0	0		
Total for Taxon:		180	196	318	296	351	377	296	351	377	296	351	377	0	0	0		

Population Unit Status - Oahu Implementation Plan

Action Area: In

TaxonName: Stenogyne kanehoana

Target # of Matures: 100

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Haleauau	Manage reintroduction for stability	1	0	0	0	129	0	281	0	0	0	0	0	281	0	0	2016-04-19	
In Total:		1	0	0	0	129	0	281	0	0	0	0	0	281	0	0		

Action Area: Out

TaxonName: Stenogyne kanehoana

Target # of Matures: 100

MFS PU Met Goal: 1 of 3

Population Unit Name	Management Designation	Total Mature Original IP	Total Imm Original IP	Total Seedling Original IP	Total Mature 2015	Total Immature 2015	Total Seedling 2015	Total Mature Current	Total Immature Current	Total Seedling Current	Wild Mature Current	Wild Immature Current	Wild Seedling Current	Outplanted Mature Current	Outplanted Immature Current	Outplanted Seedling Current	PU LastObs Date	Population Trend Notes
Kaluaa	Manage reintroduction for stability	0	79	0	26	178	0	26	178	0	0	0	0	26	178	0	2015-03-23	
Makaha	Manage reintroduction for stability				0	130	0	0	60	0	0	0	0	0	60	0	2016-06-15	
Out Total:		0	79	0	26	308	0	26	238	0	0	0	0	26	238	0		
Total for Taxon:		1	79	0	26	437	0	307	238	0	0	0	0	307	238	0		