

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met		
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement	
<b>Action Area: In</b>															
<b>Alectryon macrococcus var. macrococcus</b>															
Kahanahaiki to Keawapilau	Manage for stability	1	0	0	0	0	0	0	0	0	0	0	0	0	0%
Makua	Manage for stability	4	0	2	0	0	0	2	0	0	0	2	2	33%	
South Mohiakea	Genetic Storage	2	0	0	0	0	0	1	0	0	0	1	1	50%	
West Makaleha	Genetic Storage	13	0	0	0	0	0	1	0	0	0	0	0	0%	
<b>Action Area: Out</b>															
<b>Alectryon macrococcus var. macrococcus</b>															
Central Kaluaa to Central Waieli	Manage for stability	3	0	0	0	0	0	0	0	0	0	0	0	0	0%
Makaha	Manage for stability	29	0	1	0	0	0	18	0	0	0	9	9	30%	
Waianae Kai	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0%	
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>		
		52	0	3	0	0	0	22	0	0	0	12	12		

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Cenchrus agrimonioides var. agrimonioides</b>														
Kahanahaiki and Pahole	Manage for stability	65	26	46	75	57	0	2	37	14	0	0	14	28%
Kuaokala	Genetic Storage	1	3	0	0	0	0	1	0	0	0	1	1	100%
<b>Action Area: Out</b>														
<b>Cenchrus agrimonioides var. agrimonioides</b>														
Central Ekahanui	Manage for stability	61	52	29	44	21	0	40	15	2	0	29	30	60%
Makaha and Waianae Kai	Manage for stability	5	7	6	5	3	0	9	0	0	0	3	3	27%
South Huliwai	Genetic Storage	17	17	19	27	19	0	20	10	4	0	16	17	47%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		149	105	100	151	100	0	72	62	20	0	49	65	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	
<b>Action Area: In</b>														
<b>Cyanea grimesiana subsp. obatae</b>														
Pahole to West Makaleha	Manage for stability	6	11	10	14	14	0	6	14	14	0	1	14	88%
<b>Action Area: Out</b>														
<b>Cyanea grimesiana subsp. obatae</b>														
Kaluaa	Manage for stability	2	1	1	3	3	0	1	3	3	0	1	3	100%
North branch of South Ekahanui	Manage reintroduction for stability	0	0	2	2	2	2	1	2	2	2	1	2	100%
Palikea (South Palawai)	Manage for stability	8	4	11	15	15	5	6	15	15	5	1	15	79%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		16	16	24	34	34	7	14	34	34	7	4	34	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Cyanea longiflora</b>														
Kapuna to West Makaleha	Manage for stability	12	18	15	20	20	8	4	20	20	8	2	20	74%
Pahole	Manage for stability	59	15	19	47	47	1	10	45	45	1	4	49	98%
<b>Action Area: Out</b>														
<b>Cyanea longiflora</b>														
Makaha and Waianae Kai	Manage for stability	7	2	3	4	4	1	2	4	4	1	2	4	40%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		78	35	37	71	71	10	16	69	69	10	8	73	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal		
<b>Action Area: In</b>															
<b>Cyanea superba subsp. superba</b>															
Kahanahaiki	Manage reintroduction for stability	0	0	3	3	3	1	3	3	3	1	3	3	100%	
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>		
		0	0	3	3	3	1	3	3	3	1	3	3		

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Cyrtandra dentata</b>														
Kahanahaiki	Manage for stability	33	142	3	17	17	0	2	16	16	0	2	16	44%
Kawaiiki (Koolaus)	Manage for stability	2	19	0	0	0	0	0	0	0	0	0	0	0%
Opaepala (Koolaus)	Manage for stability	35	161	0	2	2	0	0	2	2	0	0	2	6%
Pahole to West Makaleha	Manage for stability	330	484	0	45	45	0	1	45	45	0	1	45	90%
<b>Action Area: Out</b>														
<b>Cyrtandra dentata</b>														
Central Makaleha	Genetic Storage	3	0	0	0	0	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		403	806	3	64	64	0	3	63	63	0	3	63	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Delissea waianaensis</b>														
Kahanahaiki to Keawapilau	Manage for stability	5	1	10	14	14	1	0	14	14	1	0	14	93%
Paliikea Gulch	Genetic Storage	1	0	6	7	7	3	0	7	7	3	0	7	100%
South Mohiakea	Genetic Storage	10	15	5	14	14	0	0	12	12	0	0	12	80%
<b>Action Area: Out</b>														
<b>Delissea waianaensis</b>														
Ekahanui	Manage for stability	2	1	4	6	6	0	0	6	6	0	0	6	100%
Kaluaa	Manage for stability	5	2	3	8	8	0	0	8	8	0	0	8	100%
Kealia	Genetic Storage	4	13	4	5	5	0	0	5	5	0	0	5	63%
Palawai	Genetic Storage	24	30	8	30	30	0	0	28	28	0	0	28	88%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		51	62	40	84	84	4	0	80	80	4	0	80	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Dubautia herbstobatae</b>														
Keaau	Genetic Storage	70	0	0	0	0	0	0	0	0	0	0	0	0%
Makaha/Ohikilolo	Genetic Storage	229	0	0	3	0	0	0	3	0	0	0	0	0%
Ohikilolo Makai	Manage for stability	133	4	0	1	0	0	0	1	0	0	0	0	0%
Ohikilolo Mauka	Manage for stability	373	27	0	1	0	0	0	1	0	0	0	0	0%
<b>Action Area: Out</b>														
<b>Dubautia herbstobatae</b>														
Kamaileunu	Genetic Storage	0	0	1	1	0	0	1	1	0	0	1	1	100%
Makaha	Manage for stability	23	2	17	18	0	0	27	13	0	0	20	20	50%
Waianae Kai	Genetic Storage	10	4	0	5	0	0	3	4	0	0	3	3	30%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		838	37	18	29	0	0	31	23	0	0	24	24	



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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement	
<b>Action Area: In</b>															
<b>Euphorbia celastroides var. kaenana</b>															
East Kahanahaiki	Genetic Storage	2	0	0	1	0	0	0	0	0	0	0	0	0	0%
Kaluakauila	Genetic Storage	11	3	0	2	2	0	0	0	0	0	0	0	0	0%
Makua	Manage for stability	85	0	28	76	73	0	0	55	45	0	0	45	90%	
North Kahanahaiki	Genetic Storage	115	36	3	12	12	0	0	9	6	0	0	6	12%	
Puaakanoa	Manage for stability	135	15	4	50	44	0	0	31	28	0	0	28	56%	
<b>Action Area: Out</b>															
<b>Euphorbia celastroides var. kaenana</b>															
East of Alau	Manage for stability	20	2	6	26	26	0	0	23	18	0	0	18	69%	
Kaena	Manage for stability	880	274	1	59	58	0	0	56	45	0	0	45	90%	
Keawaula	Genetic Storage	43	1	6	31	27	0	0	18	10	0	0	10	20%	
Waianae Kai	Genetic Storage	34	0	0	0	0	0	0	0	0	0	0	0	0%	
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>		
		1325	331	48	257	242	0	0	192	152	0	0	152		

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<b>Action Area: In</b>														
<b>Euphorbia herbstii</b>														
Kapuna to Pahole	Manage for stability	13	8	45	32	30	0	15	17	15	0	8	18	36%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		13	8	45	32	30	0	15	17	15	0	8	18	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Flueggea neowawraea</b>														
Kahanahaiki to Kapuna	Manage for stability	5	0	2	1	1	0	3	1	1	0	1	2	29%
Ohikilolo	Manage for stability	1	0	1	1	0	0	1	0	0	0	1	1	50%
West Makaleha	Genetic Storage	6	0	0	1	1	0	6	1	1	0	1	2	33%
<b>Action Area: Out</b>														
<b>Flueggea neowawraea</b>														
Central and East Makaleha	Genetic Storage	4	0	3	1	1	0	7	1	1	0	5	5	71%
Halona	Genetic Storage	1	0	1	0	0	0	1	0	0	0	1	1	50%
Kauhiuhi	Genetic Storage	1	0	0	0	0	0	1	0	0	0	0	0	0%
Makaha	Manage for stability	9	0	2	0	0	0	10	0	0	0	4	4	36%
Mt. Kaala NAR	Genetic Storage	2	0	2	1	1	0	2	1	1	0	1	2	50%
Nanakuli, south branch	Genetic Storage	1	0	0	0	0	0	1	0	0	0	1	1	100%
Waianae Kai	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		31	0	11	5	4	0	32	4	4	0	15	18	

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<b>Action Area: In</b>														
<b>Gouania vitifolia</b>														
Keaau	Manage for stability	51	0	6	57	50	0	7	48	33	0	2	33	66%
<b>Action Area: Out</b>														
<b>Gouania vitifolia</b>														
Waianae Kai	Genetic Storage	3	0	0	0	0	0	2	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		54	0	6	57	50	0	9	48	33	0	2	33	

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		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement	
<b>Action Area: In</b>															
<b>Hesperomannia oahuensis</b>															
Haleauau	Manage for stability	1	0	0	0	0	0	1	0	0	0	0	0	0	0%
<b>Action Area: Out</b>															
<b>Hesperomannia oahuensis</b>															
Makaha	Manage for stability	5	0	1	1	1	0	3	0	0	0	0	0	0	0%
Waianae Kai	Genetic Storage	0	1	2	0	0	0	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>		
		6	1	3	1	1	0	4	0	0	0	0	0		

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Hibiscus brackenridgei subsp. mokuleianus</b>														
Keaau	Manage for stability	0	3	7	1	1	0	6	1	1	0	0	1	14%
Makua	Manage for stability	16	5	28	35	34	0	35	34	33	0	32	36	82%
<b>Action Area: Out</b>														
<b>Hibiscus brackenridgei subsp. mokuleianus</b>														
Haili to Kawaii	Manage for stability	1	5	15	0	0	0	16	0	0	0	9	9	56%
Waialua	Genetic Storage	49	85	24	7	5	0	57	3	0	0	57	57	100%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		66	98	74	43	40	0	114	38	34	0	98	103	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Kadua degeneri subsp. degeneri</b>														
Kahanahaiki to Pahole	Manage for stability	102	100	21	77	77	0	2	68	63	0	0	63	100%
<b>Action Area: Out</b>														
<b>Kadua degeneri subsp. degeneri</b>														
Alaiheihe and Manuwai	Manage for stability	19	18	19	32	32	1	0	31	29	1	0	30	79%
Central Makaleha and West Branch of East Makaleha	Manage for stability	22	10	24	40	38	0	0	37	31	0	0	31	67%
East branch of East Makaleha	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		143	128	64	149	147	1	2	136	123	1	0	124	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Kadua parvula</b>														
Ohikilolo	Manage for stability	76	86	28	47	43	0	3	41	37	0	0	37	74%
<b>Action Area: Out</b>														
<b>Kadua parvula</b>														
Halona	Manage for stability	31	4	29	35	33	0	4	25	18	0	3	20	40%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		107	90	57	82	76	0	7	66	55	0	3	57	



## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Melanthera tenuifolia</b>														
Kahanahaiki	Genetic Storage	1	0	22	11	0	0	10	5	0	0	10	10	43%
Kaluakauila	Genetic Storage	4	80	0	9	0	0	13	1	0	0	13	13	100%
Keawaula	Genetic Storage	200	50	0	0	0	0	0	0	0	0	0	0	0%
Ohikilolo	Manage for stability	571	11	19	16	0	0	8	13	0	0	6	6	12%
<b>Action Area: Out</b>														
<b>Melanthera tenuifolia</b>														
Kamaileunu and Waianae Kai	Manage for stability	815	246	0	0	0	0	0	0	0	0	0	0	0%
Mt. Kaala NAR	Manage for stability	131	24	0	0	0	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		1722	411	41	36	0	0	31	19	0	0	29	29	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Neraudia angulata</b>														
Kapuna	Genetic Storage	0	0	2	2	2	0	2	2	0	0	2	2	100%
Makua	Manage for stability	21	4	34	2	2	0	37	1	0	0	23	23	46%
Punapohaku	Genetic Storage	2	0	2	0	0	0	4	0	0	0	3	3	75%
<b>Action Area: Out</b>														
<b>Neraudia angulata</b>														
Halona	Genetic Storage	4	10	17	1	1	0	9	0	0	0	7	7	33%
Leeward Puu Kaua	Genetic Storage	9	0	0	1	0	0	1	0	0	0	1	1	11%
Makaha	Manage for stability (backup site)	3	8	12	3	2	0	15	2	1	0	14	14	93%
Manuwai	Manage for stability	0	4	2	0	0	0	4	0	0	0	4	4	100%
Waianae Kai Makai	Genetic Storage	13	0	0	0	0	0	13	0	0	0	8	8	62%
Waianae Kai Mauka	Manage for stability	7	2	9	1	1	0	11	0	0	0	10	10	63%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		59	28	78	10	8	0	96	5	1	0	72	72	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Nototrichium humile</b>														
Kahanahaiki	Genetic Storage	79	5	1	0	0	0	12	0	0	0	9	9	18%
Kaluakauila	Manage for stability	140	48	2	2	1	0	0	1	1	0	0	1	2%
Keaau	Genetic Storage	20	31	0	0	0	0	0	0	0	0	0	0	0%
Keawaula	Genetic Storage	70	70	1	0	0	0	8	0	0	0	7	7	14%
Makua (East rim)	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0%
Makua (south side)	Manage for stability	43	3	0	0	0	0	0	0	0	0	0	0	0%
Punapohaku	Genetic Storage	178	77	1	0	0	0	36	0	0	0	34	34	68%
<b>Action Area: Out</b>														
<b>Nototrichium humile</b>														
Kaimuhole and Palikea Gulch	Genetic Storage	29	1	12	0	0	0	43	0	0	0	40	40	98%
Keawapilau	Genetic Storage	1	0	4	0	0	0	5	0	0	0	3	3	60%
Kolekole	Genetic Storage	12	0	0	0	0	0	10	0	0	0	10	10	83%
Makaha	Genetic Storage	22	5	0	0	0	0	0	0	0	0	0	0	0%
Nanakuli	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0%
Puu Kaula (Leeward side)	Genetic Storage	2	0	0	0	0	0	0	0	0	0	0	0	0%
Waianae Kai	Manage for stability	204	101	0	0	0	0	2	0	0	0	0	0	0%

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	% Completed Genetic Storage Requirement
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	
		Total Current Mature	Total Current Imm.	Total Dead and Repres.	Total # Plants w/ >=10 Seeds in SeedLab	Total # Plants w/ >=10 Est Vaible Seeds in SeedLab	Total # Plants w/ >=1 Microprop	Total # Plants w/ >=1 Army Nursery	Total # Plants w/ >=50 Seeds in SeedLab	Total # Plants w/ >=50 Est Viable Seeds in SeedLab	Total # Plants w/ >=3 in Microprop	Total # Plants w/ >=3 Army Nursery	Total # Plants that Met Goal	
		801	341	21	2	1	0	116	1	1	0	103	104	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Phyllostegia kaalaensis</b>														
Keawapilau to Kapuna	Manage reintroduction for stability	0	0	1	0	0	1	1	0	0	1	1	1	100%
Pahole	Manage reintroduction for stability	0	0	2	0	0	2	2	0	0	2	2	2	100%
Palikeya Gulch	Genetic Storage	0	0	3	0	0	3	3	0	0	3	3	3	100%
<b>Action Area: Out</b>														
<b>Phyllostegia kaalaensis</b>														
Waianae Kai	Genetic Storage	0	0	2	1	0	2	2	0	0	2	2	2	100%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		0	0	8	1	0	8	8	0	0	8	8	8	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Plantago princeps var. princeps</b>														
North Mohiakea	Manage for stability	39	12	9	20	20	0	0	19	19	0	0	19	40%
Ohikilolo	Manage for stability	0	0	17	19	18	0	2	14	14	0	0	14	82%
Pahole	Genetic Storage	4	5	2	5	4	0	1	4	4	0	1	5	83%
<b>Action Area: Out</b>														
<b>Plantago princeps var. princeps</b>														
Ekahanui	Manage for stability	5	50	67	68	66	0	2	59	42	0	0	42	84%
Halona	Manage for stability	6	9	22	22	22	0	0	22	18	0	0	18	64%
North Palawai	Genetic Storage	1	0	2	2	2	0	0	2	2	0	0	2	67%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		55	76	119	136	132	0	5	120	99	0	1	100	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Pritchardia kaalae</b>														
Ohikilolo	Manage for stability	72	1178	0	1	0	0	0	0	0	0	0	0	0%
<b>Action Area: Out</b>														
<b>Pritchardia kaalae</b>														
Makaha	Genetic Storage	1	0	0	0	0	0	0	0	0	0	0	0	0%
Makaleha to Manuwai	Manage for stability	123	11	0	0	0	0	0	0	0	0	0	0	0%
Waianae Kai	Genetic Storage	4	5	0	0	0	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		200	1194	0	1	0	0	0	0	0	0	0	0	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Sanicula marivera</b>														
Keaau	Manage for stability	0	28	27	44	40	0	0	24	4	0	0	4	15%
Ohikilolo	Manage for stability	0	97	51	56	40	0	1	22	16	0	0	16	32%
<b>Action Area: Out</b>														
<b>Sanicula marivera</b>														
Kamaileunu	Manage for stability	31	182	26	69	69	0	0	54	46	0	0	46	92%
Puu Kawiwi	Genetic Storage	0	0	2	3	3	0	0	3	1	0	0	1	50%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		31	307	106	172	152	0	1	103	67	0	0	67	



## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Schiedea kaalae</b>														
Pahole	Manage for stability	2	0	0	2	2	2	2	2	2	2	0	2	100%
<b>Action Area: Out</b>														
<b>Schiedea kaalae</b>														
Kahana	Genetic Storage	5	0	4	2	1	9	8	0	0	9	5	9	100%
Kaluaa and Waieli	Manage for stability	0	0	1	1	1	1	0	1	1	1	0	1	100%
Maakua (Koolaus)	Manage for stability	10	0	0	1	1	6	4	0	0	5	3	5	50%
Makaua (Koolaus)	Genetic Storage	1	0	0	0	0	1	1	0	0	1	1	1	100%
North Palawai	Genetic Storage	0	0	1	1	1	1	1	1	1	1	0	1	100%
South Ekahanui	Manage for stability	9	2	8	16	15	12	12	12	7	12	5	15	88%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		27	2	14	23	21	32	28	16	11	31	14	34	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	% Completed Genetic Storage Requirement	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal		
<b>Action Area: In</b>															
<b>Schiedea nuttallii</b>															
Kahanahaiki to Pahole	Manage for stability	6	0	41	39	37	2	42	32	15	2	39	41	87%	
Kapuna-Keawapilau Ridge	Manage for stability	0	0	2	2	2	0	2	2	1	0	2	2	100%	
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>		
		6	0	43	41	39	2	44	34	16	2	41	43		

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	% Completed Genetic Storage Requirement
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	
<b>Action Area: In</b>														
<b>Schiedea obovata</b>														
Kahanahaiki to Pahole	Manage for stability	0	0	5	5	5	1	0	5	5	1	0	5	100%
Keawapilau to West Makaleha	Manage for stability	24	363	73	80	79	0	0	79	77	0	0	77	100%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		24	363	78	85	84	1	0	84	82	1	0	82	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Tetramolopium filiforme</b>														
Kahanahaiki	Genetic Storage	40	0	28	92	54	0	0	52	1	0	0	1	2%
Kalena	Manage for stability	24	93	7	9	8	0	7	9	8	0	7	8	26%
Keaau	Genetic Storage	30	41	0	17	15	0	0	2	1	0	0	1	3%
Makaha/Ohikilolo Ridge	Genetic Storage	350	200	0	0	0	0	0	0	0	0	0	0	0%
Ohikilolo	Manage for stability	1903	1464	38	147	64	0	0	52	6	0	0	6	12%
Puhawai	Manage for stability	0	0	5	4	4	0	0	4	4	0	0	4	80%
<b>Action Area: Out</b>														
<b>Tetramolopium filiforme</b>														
Waianae Kai	Manage for stability	20	0	0	1	1	0	0	0	0	0	0	0	0%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		2367	1798	78	270	146	0	7	119	20	0	7	20	

## Genetic Storage Summary Makua Implementation Plan

Population Unit Name	Management Designation	# of Potential Founders			Partial Storage Status				Storage Goals				Storage Goals Met	
		Current Mature	Current Imm.	Dead and Repres.	# Plants >= 10 in SeedLab	# Plants >= 10 Est Viable in SeedLab	# Plants >=1 Microprop	# Plants >=1 Army Nursery	# Plants >= 50 in SeedLab	# Plants >= 50 Est. Viable in SeedLab	# Plants >=3 in Microprop	# Plants >=3 Army Nursery	# Plants that Met Goal	% Completed Genetic Storage Requirement
<b>Action Area: In</b>														
<b>Viola chamissoniana subsp. chamissoniana</b>														
Keaau	Genetic Storage	40	10	0	0	0	0	0	0	0	0	0	0	0%
Makaha/Ohikilolo Ridge	Genetic Storage	0	0	0	0	0	0	0	0	0	0	0	0	0%
Ohikilolo	Manage for stability	191	52	0	1	0	0	0	0	0	0	0	0	0%
Puu Kumakalii	Manage for stability	44	0	0	12	0	0	8	3	0	0	7	7	16%
<b>Action Area: Out</b>														
<b>Viola chamissoniana subsp. chamissoniana</b>														
Halona	Manage for stability	16	5	6	4	0	0	3	1	0	0	2	2	9%
Kamaileunu	Genetic Storage	35	0	0	0	0	0	0	0	0	0	0	0	0%
Makaha	Manage for stability	68	11	0	0	0	0	0	0	0	0	0	0	0%
Makaleha	Genetic Storage	19	9	2	8	0	0	11	1	0	0	8	8	38%
Puu Hapapa	Genetic Storage	6	1	7	7	0	0	6	4	0	0	5	5	38%
		<b>Total Current Mature</b>	<b>Total Current Imm.</b>	<b>Total Dead and Repres.</b>	<b>Total # Plants w/ &gt;=10 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=10 Est Vaible Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=1 Microprop</b>	<b>Total # Plants w/ &gt;=1 Army Nursery</b>	<b>Total # Plants w/ &gt;=50 Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=50 Est Viable Seeds in SeedLab</b>	<b>Total # Plants w/ &gt;=3 in Microprop</b>	<b>Total # Plants w/ &gt;=3 Army Nursery</b>	<b>Total # Plants that Met Goal</b>	
		419	88	15	32	0	0	28	9	0	0	22	22	