

Table 6-8
Interim Action Ranges MRA South Range 44 SCA and Central Area NCAs
Vegetation Cover in Areas Subject to Vegetation Cutting Conducted in 2011

ESCA RP 2014 Annual Natural Resource Report

Scientific Name	Common Name	Twenty-nine Baseline Transects				
		Baseline Data 2010 - 2011 (all IAR MRA baseline transects)				
		Mean Percent Cover	Standard Deviation	90% Confidence Interval	Mean Relative Cover	Frequency
Tree Species						
<i>Quercus agrifolia</i>	coast live oak	0.0%	0.0%	--	0.0%	0.0%
Total Cover by Native Tree Species		0.0%			0%	
Shrub and Sub-shrub Species						
<i>Arctostaphylos tomentosa</i> subsp. <i>tomentosa</i>	shaggy-barked manzanita	29.3%	15.6%	4.9%	31.0%	100%
<i>Ceanothus rigidus</i>	Monterey ceanothus	13.5%	9.3%	2.9%	14.3%	96.6%
<i>Ceanothus dentatus</i>	dwarf ceanothus	20.2%	16.0%	5.0%	21.4%	89.7%
<i>Adenostoma fasciculatum</i>	chamise	9.0%	6.9%	2.2%	9.5%	89.7%
<i>Crocanthemum scoparium</i>	rush-rose	8.1%	9.1%	2.9%	8.6%	86.2%
<i>Salvia mellifera</i>	black sage	5.3%	7.2%	2.3%	5.6%	69.0%
<i>Arctostaphylos pumila</i>	sandmat manzanita	1.6%	2.0%	0.6%	1.7%	65.5%
<i>Eriophyllum confertiflorum</i>	golden yarrow	1.5%	2.2%	0.7%	1.6%	65.5%
<i>Frangula californica</i> subsp. <i>californica</i>	California coffeeberry	0.9%	1.9%	0.6%	1.0%	31.0%
<i>Mimulus aurantiacus</i>	sticky monkeyflower	0.5%	0.9%	0.3%	0.5%	27.6%
<i>Ericameria ericoides</i>	dune-heather, mock-heather	1.5%	5.6%	1.8%	1.6%	24.1%
<i>Baccharis pilularis</i> subsp. <i>consanguinea</i>	coyote brush	0.7%	1.8%	0.6%	0.7%	24.1%
<i>Lepechinia calycina</i>	pitcher sage	0.4%	1.4%	0.5%	0.4%	20.7%
<i>Ericameria fasciculata</i>	Eastwood's ericameria	0.2%	0.5%	0.2%	0.2%	17.2%
<i>Lupinus chamissonis</i>	silver bush lupine	0.4%	1.1%	0.4%	0.4%	13.8%
<i>Acmispon glaber</i>	deerweed	1.4%	0.0%	--	1.5%	0.0%
<i>Garrya elliptica</i>	coast silk-tassel	0.0%	0.0%	--	0.0%	0.0%
<i>Symphoricarpos mollis</i>	creeping snowberry	0.0%	0.0%	--	0.0%	0.0%
<i>Toxicodendron diversilobum</i>	poison-oak	0.0%	0.0%	--	0.0%	0.0%
Total Cover by Native Shrub and Subshrub Species		94.5%			99%	
Total Combined Mean Cover Between Shrubs and Subshrubs		1.3%	2.3%	1.3%	1%	90%
Target Weed Total (<i>Carpobrotus edulis</i>)		0.0%	0.0%		0%	60%
Total Mean Percent Native Vegetative Cover		95.8%				
Total Mean Percent Bare Ground (Including Masticated Vegetation)		4.2%				
Total Mean Percent Masticated Vegetation (calculated in 2014 only)		--	--	--	--	--
Total Mean Percent Bare Ground Only		19.3%	9.3%	2.9%	--	100%

HMP Species in Bold

Note: Not all species observed along transects listed in this table

Table 6-8
Interim Action Ranges MRA South Range 44 SCA and Central Area NCAs
Vegetation Cover in Areas Subject to Vegetation Cutting Conducted in 2011

ESCA RP 2014 Annual Natural Resource Report

Scientific Name	Common Name	Seven Baseline Transects				
		Baseline Data 2010 - 2011 (South Range 44 MRA baseline transects only)				
		Mean Percent Cover	Standard Deviation	90% Confidence Interval	Mean Relative Cover	Frequency
Tree Species						
<i>Quercus agrifolia</i>	coast live oak	0.0%	0.0%	--	0.0%	0.0%
Total Cover by Native Tree Species		0%			0.0%	
Shrub and Sub-shrub Species						
<i>Arctostaphylos tomentosa</i> subsp. <i>tomentosa</i>	shaggy-barked manzanita	25.8%	9.5%	6.9%	23.7%	100%
<i>Ceanothus rigidus</i>	Monterey ceanothus	16.3%	5.0%	3.7%	14.9%	100%
<i>Ceanothus dentatus</i>	dwarf ceanothus	30.4%	14.9%	10.9%	27.9%	100%
<i>Adenostoma fasciculatum</i>	chamise	9.9%	7.1%	5.2%	9.1%	100%
<i>Crocanthemum scoparium</i>	rush-rose	10.0%	8.5%	6.2%	9.2%	100%
<i>Salvia mellifera</i>	black sage	8.7%	9.7%	7.1%	8.0%	100%
<i>Arctostaphylos pumila</i>	sandmat manzanita	0.7%	0.6%	0.4%	0.7%	71.4%
<i>Eriophyllum confertiflorum</i>	golden yarrow	3.0%	2.7%	2.0%	2.8%	85.7%
<i>Frangula californica</i> subsp. <i>californica</i>	California coffeeberry	0.1%	0.2%	0.2%	0.1%	14.3%
<i>Mimulus aurantiacus</i>	sticky monkeyflower	0.0%	0.0%	--	0.0%	0.0%
<i>Ericameria ericoides</i>	dune-heather, mock-heather	0.0%	0.0%	--	0.0%	0.0%
<i>Baccharis pilularis</i> subsp. <i>consanguinea</i>	coyote brush	0.2%	0.4%	0.3%	0.2%	28.6%
<i>Lepechinia calycina</i>	pitcher sage	0.0%	0.0%	--	0.0%	0.0%
<i>Ericameria fasciculata</i>	Eastwood's ericameria	0.1%	0.2%	0.2%	0.1%	14.3%
<i>Lupinus chamissonis</i>	silver bush lupine	1.2%	2.1%	1.5%	1.1%	28.6%
<i>Acmispon glaber</i>	deerweed	1.2%	1.1%	0.8%	1.1%	85.7%
<i>Garrya elliptica</i>	coast silk-tassel	0.0%	0.0%	--	0.0%	0.0%
<i>Symphoricarpos mollis</i>	creeping snowberry	0.0%	0.0%	--	0.0%	0.0%
<i>Toxicodendron diversilobum</i>	poison-oak	0.0%	0.0%	--	0.0%	0.0%
Total Cover by Native Shrub and Subshrub Species		108%			99%	
Total Combined Mean Cover Between Shrubs and Subshrubs		1.2%	1.2%	0.9%	1.1%	71%
Target Weed Total (<i>Carpobrotus edulis</i>)		0%	0%	--	0%	0%
Total Mean Percent Native Vegetative Cover		108.8%				
Total Mean Percent Bare Ground (Including Masticated Vegetation)		16.2%				
Total Mean Percent Masticated Vegetation (calculated in 2014 only)		--	--	--	--	--
Total Mean Percent Bare Ground Only		16%	8%	6%	15%	100%

HMP Species in Bold

Note: Not all species observed along transects listed in this table

Table 6-8
Interim Action Ranges MRA South Range 44 SCA and Central Area NCAs
Vegetation Cover in Areas Subject to Vegetation Cutting Conducted in 2011

ESCA RP 2014 Annual Natural Resource Report

Scientific Name	Common Name	Seven Transects in Cut Vegetation Conducted in 2011				
		Post-activity Data 2012 (Year 1)				
		Mean Percent Cover	Standard Deviation	90% Confidence Interval	Mean Relative Cover	Frequency
Tree Species						
<i>Quercus agrifolia</i>	coast live oak	0.0%	0.0%	--	0.0%	0.0%
Total Cover by Native Tree Species		0.0%			0.0%	
Shrub and Sub-shrub Species						
<i>Arctostaphylos tomentosa</i> subsp. <i>tomentosa</i>	shaggy-barked manzanita	9.4%	4.9%	3.6%	43.7%	100%
<i>Ceanothus rigidus</i>	Monterey ceanothus	0.7%	0.7%	0.5%	3.0%	57.1%
<i>Ceanothus dentatus</i>	dwarf ceanothus	0.0%	0.0%	--	0.0%	0.0%
<i>Adenostoma fasciculatum</i>	chamise	3.3%	1.5%	1.1%	15.5%	100%
<i>Crocanthemum scoparium</i>	rush-rose	2.0%	5.2%	3.8%	9.5%	42.9%
<i>Salvia mellifera</i>	black sage	1.5%	2.2%	1.6%	7.1%	85.7%
<i>Arctostaphylos pumila</i>	sandmat manzanita	1.6%	1.3%	0.9%	7.4%	85.7%
<i>Eriophyllum confertiflorum</i>	golden yarrow	0.1%	0.1%	0.1%	0.4%	42.9%
<i>Frangula californica</i> subsp. <i>californica</i>	California coffeeberry	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Mimulus aurantiacus</i>	sticky monkeyflower	0.0%	0.1%	0.1%	0.2%	14.3%
<i>Ericameria ericoides</i>	dune-heather, mock-heather	0.5%	1.2%	0.9%	2.1%	14.3%
<i>Baccharis pilularis</i> subsp. <i>consanguinea</i>	coyote brush	0.0%	0.0%	--	0.0%	0.0%
<i>Lepechinia calycina</i>	pitcher sage	0.0%	0.0%	--	0.0%	0.0%
<i>Ericameria fasciculata</i>	Eastwood's ericameria	0.1%	0.2%	0.1%	0.3%	14.3%
<i>Lupinus chamissonis</i>	silver bush lupine	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Acmispon glaber</i>	deerweed	1.2%	1.3%	0.9%	5.7%	85.7%
<i>Garrya elliptica</i>	coast silk-tassel	0.4%	1.0%	0.7%	2.1%	28.6%
<i>Symphoricarpos mollis</i>	creeping snowberry	0.1%	0.3%	0.2%	0.6%	14.3%
<i>Toxicodendron diversilobum</i>	poison-oak	0.1%	0.1%	0.1%	0.3%	28.6%
Total Cover by Native Shrub and Subshrub Species		21.1%			85.7%	
Total Combined Mean Cover Between Shrubs and Subshrubs		3.5%	5.3%	4.7%	8.0%	90.0%
Target Weed Total (<i>Carpobrotus edulis</i>)		0.5%	0.5%	0.4%	2.2%	57.1%
Total Mean Percent Native Vegetative Cover		24.6%				
Total Mean Percent Bare Ground (Including Masticated Vegetation)		75.2%				
Total Mean Percent Masticated Vegetation (calculated in 2014 only)		--	--	--	--	--
Total Mean Percent Bare Ground Only		75%	7.9%	5.8%	--	100%

HMP Species in Bold

Note: Not all species observed along transects listed in this table

Table 6-8
Interim Action Ranges MRA South Range 44 SCA and Central Area NCAs
Vegetation Cover in Areas Subject to Vegetation Cutting Conducted in 2011

ESCA RP 2014 Annual Natural Resource Report

Scientific Name	Common Name	Seven Transects in Cut Vegetation Conducted in 2011				
		Post-activity Data 2013 (Year 2)				
		Mean Percent Cover	Standard Deviation	90% Confidence Interval	Mean Relative Cover	Frequency
Tree Species						
<i>Quercus agrifolia</i>	coast live oak	0.0%	0.1%	0.1%	0.1%	14.3%
Total Cover by Native Tree Species		0.0%			0.1%	
Shrub and Sub-shrub Species						
<i>Arctostaphylos tomentosa</i> subsp. <i>tomentosa</i>	shaggy-barked manzanita	11.6%	6.7%	4.9%	36.2%	100%
<i>Ceanothus rigidus</i>	Monterey ceanothus	1.1%	1.4%	1.0%	3.3%	71.4%
<i>Ceanothus dentatus</i>	dwarf ceanothus	0.0%	0.1%	0.1%	0.1%	14.3%
<i>Adenostoma fasciculatum</i>	chamise	4.5%	2.4%	1.7%	14.2%	100%
<i>Crocanthemum scoparium</i>	rush-rose	2.0%	4.9%	3.6%	6.4%	85.7%
<i>Salvia mellifera</i>	black sage	3.5%	6.1%	4.5%	10.9%	85.7%
<i>Arctostaphylos pumila</i>	sandmat manzanita	2.7%	1.9%	1.4%	8.5%	85.7%
<i>Eriophyllum confertiflorum</i>	golden yarrow	0.3%	0.4%	0.3%	0.9%	57.1%
<i>Frangula californica</i> subsp. <i>californica</i>	California coffeeberry	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Mimulus aurantiacus</i>	sticky monkeyflower	0.1%	0.2%	0.1%	0.3%	28.6%
<i>Ericameria ericoides</i>	dune-heather, mock-heather	0.6%	1.5%	1.1%	1.8%	14.3%
<i>Baccharis pilularis</i> subsp. <i>consanguinea</i>	coyote brush	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Lepechinia calycina</i>	pitcher sage	0.1%	0.2%	0.1%	0.2%	10.0%
<i>Ericameria fasciculata</i>	Eastwood's ericameria	0.0%	0.1%	0.1%	0.2%	14.3%
<i>Lupinus chamissonis</i>	silver bush lupine	0.0%	0.0%	0.0%	0.0%	0.0%
<i>Acmispon glaber</i>	deerweed	3.8%	3.9%	2.9%	11.8%	85.7%
<i>Garrya elliptica</i>	coast silk-tassel	0.5%	1.4%	1.0%	1.7%	28.6%
<i>Symphoricarpos mollis</i>	creeping snowberry	0.3%	0.8%	0.6%	0.9%	14.3%
<i>Toxicodendron diversilobum</i>	poison-oak	0.1%	0.2%	0.1%	0.2%	14.3%
Total Cover by Native Shrub and Subshrub Species		31.3%			91.7%	
Total Combined Mean Cover Between Shrubs and Subshrubs		2.8%	4.4%	2.6%	8.2%	80.0%
Target Weed Total (<i>Carpobrotus edulis</i>)		0.5%	0.5%	0.3%	1.6%	71.4%
Total Mean Percent Native Vegetative Cover		34.1%				
Total Mean Percent Bare Ground (Including Masticated Vegetation)		68.3%				
Total Mean Percent Masticated Vegetation (calculated in 2014 only)		--	--	--	--	--
Total Mean Percent Bare Ground Only		68.3%	9.2%	6.8%	--	100%

HMP Species in Bold

Note: Not all species observed along transects listed in this table

Table 6-8
Interim Action Ranges MRA South Range 44 SCA and Central Area NCAs
Vegetation Cover in Areas Subject to Vegetation Cutting Conducted in 2011

ESCA RP 2014 Annual Natural Resource Report

Scientific Name	Common Name	Seven Transects in Cut Vegetation Conducted in 2011				
		Post-activity Data 2014 (Year 3)				
		Mean Percent Cover	Standard Deviation	90% Confidence Interval	Mean Relative Cover	Frequency
Tree Species						
<i>Quercus agrifolia</i>	coast live oak	0.0%	0.0%	0.0%	0.0%	14.3%
Total Cover by Native Tree Species		0.0%			0.0%	
Shrub and Sub-shrub Species						
<i>Arctostaphylos tomentosa</i> subsp. <i>tomentosa</i>	shaggy-barked manzanita	11.8%	5.5%	4.0%	38.6%	100%
<i>Ceanothus rigidus</i>	Monterey ceanothus	0.8%	0.9%	0.6%	2.5%	85.7%
<i>Ceanothus dentatus</i>	dwarf ceanothus	0.0%	0.0%	--	0.0%	0.0%
<i>Adenostoma fasciculatum</i>	chamise	5.0%	3.1%	2.3%	16.3%	100%
<i>Crocanthemum scoparium</i>	rush-rose	1.8%	4.2%	3.1%	5.8%	85.7%
<i>Salvia mellifera</i>	black sage	2.6%	3.8%	2.8%	8.6%	71.4%
<i>Arctostaphylos pumila</i>	sandmat manzanita	2.8%	2.4%	1.8%	9.3%	85.7%
<i>Eriophyllum confertiflorum</i>	golden yarrow	0.1%	0.2%	0.1%	0.3%	42.9%
<i>Frangula californica</i> subsp. <i>californica</i>	California coffeeberry	0.0%	0.0%	--	0.0%	0.0%
<i>Mimulus aurantiacus</i>	sticky monkeyflower	0.1%	0.2%	0.2%	0.3%	14.3%
<i>Ericameria ericoides</i>	dune-heather, mock-heather	0.8%	2.0%	1.5%	2.5%	14.3%
<i>Baccharis pilularis</i> subsp. <i>consanguinea</i>	coyote brush	0.0%	0.0%	--	0.0%	0.0%
<i>Lepechinia calycina</i>	pitcher sage	0.0%	0.0%	--	0.0%	0.0%
<i>Ericameria fasciculata</i>	Eastwood's ericameria	0.0%	0.0%	--	0.0%	0.0%
<i>Lupinus chamissonis</i>	silver bush lupine	0.0%	0.0%	--	0.0%	0.0%
<i>Acmispon glaber</i>	deerweed	2.0%	1.5%	1.1%	6.6%	100%
<i>Garrya elliptica</i>	coast silk-tassel	0.3%	0.8%	0.6%	0.9%	14.3%
<i>Symphoricarpos mollis</i>	creeping snowberry	0.2%	0.6%	0.4%	0.8%	14.3%
<i>Toxicodendron diversilobum</i>	poison-oak	0.1%	0.2%	0.1%	0.2%	14.3%
Total Cover by Native Shrub and Subshrub Species		28.4%			92.7%	
Total Combined Mean Cover Between Shrubs and Subshrubs		2.2%	4.7%	3.4%	7.3%	85.7%
Target Weed Total (<i>Carpobrotus edulis</i>)		0.0%	0.0%	-	--	0.0%
Total Mean Percent Native Vegetative Cover		30.6%				
Total Mean Percent Bare Ground (Including Masticated Vegetation)		70.3%				
Total Mean Percent Masticated Vegetation (calculated in 2014 only)		19.2%	13.5%	9.9%	--	85.7%
Total Mean Percent Bare Ground Only		51.1%	14.0%	10.3%	--	100%

HMP Species in Bold

Note: Not all species observed along transects listed in this table