Summary Results of Rare Plant Field Monitoring
City of San Diego MSCP

Species/Site		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Baseline Rare Plant Surveys / Citywide	Lead Monitor/s: Monitoring Method:		27 spp./citywide Scott McMillan reconnaissance	27 spp./citywide Scott McMillan reconnaissance											
Acanthomintha ilicifolia / PQ Cyn	Population: Lead Monitor/s: Monitoring Method:		1.053 Mike Kelly census	601 Mike Kelly census	0 Mike Kelly census	726 Mike Kelly census	501 Mike Kelly census	2.091 Mike Kelly census	147 Greer/Johnson/Kelly Census; HA/PM	43 Mike Kelly Census	0 Vaughan/Watts HA/PM	178 Miller/Greer Census/HA/PM	510 Miller/Billet HA/PM	743 Miller/Palmer	281 Miller/White HA/PM
Acanthomintha ilicifolia / BMR	Total Population: Lead Monitor/s: Monitoring Method:		1.115 Mike Kelly census	777 Mike Kelly census	0 Mike Kelly census	486 Mike Kelly census	105 Mike Kelly census	120 Mike Kelly census	36 Johnson/Kelly Census; HA/PM		16 Vaughan/Watts HA/PM	3 Miller/Billett Census/HA/PM	56 Miller/Hooker/Tracey HA/PM	95 Miller/Deodat HA/PM	3 Miller/White HA/PM
Acanthomintha ilicifolia /Sabre Springs	Population: Lead Monitor/s: Monitoring Method:		3.858 Mike Kelly census	2.832 Mike Kelly census	250 Mike Kelly census	19.721 Mike Kelly census	17.085 Mike Kelly census	13 Mike Kelly census	303 Greer/Johnson/Kelly Census; HA/PM		750 Miller/Brogado HA/PM	950 Miller/Greer HA/PM	1500 Miller/Billet HA/PM	2 Miller/Palmer HA/PM	30 Miller/White HA/PM
Acanthomintha ilicifolia / Otay Lakes	Population: Lead Monitor/s: Monitoring Method:			89 Scott McMillan census	0 Scott McMillan census	61 Holly Cheong census	0 Melanie Johnson census			0 Johnson/Miller HA/PA	0 Vaughan/Watts HA/PM		1 Miller HA/PM	1 Miller/Deodat HA/PM	0 Miller/White/Wehnger/Comer-Santos HA/PM
Acanthomintha ilicifolia / MTRP	Population: Lead Monitor/s: Monitoring Method:			354 Holly Cheong census	0 Mike Kelly census	296 Mike Kelly census	21 Mike Kelly census	120 Mike Kelly census	107 Greer/Johnson Census; HA/PM	469 Mike Kelly Census	250 Miller/Boner HA/PM	150 Miller/Greer Census/HA/PM	364 Miller/Priestholt HA/PM	302 Miller/Deodat HA/PM	598 Miller/White HA/PM
Acanthomintha ilicifolia/ Dennery Ranch	Population: Lead Monitor/s: Monitoring Method:											500 Miller/Gaudette HA/PM	500 Miller/Deodat HA/PM	11 Miller/Deodat HA/PM	536 Miller/Comer-Santos/White HA/PM
Ambrosia pumila /MTRP (Patch C6 only)	Estimated Population: Density: Lead Monitor/s: Monitoring Method:	208,855 M. Sweezy quadrat	121.702 17.5/m² Greer quadrat	178.624 24.23/m² Greer quadrat		205.826 27.92/m² Cheong/ Johnson quadrat			150.000 (est) - Johnson HA/PM		45,000 Miller/Boner HA/PM	7.000 - Miller HA/PM	364 - Miller/Priestholt HA/PM	3.000 - Miller/Deodat HA/PM	5.000 - Miller/Shamada/White HA/PM
Arctostaphylos glandulosa ssp. *crassifolia* /Carmel Mtn	Population: Lead Monitor/s: Monitoring Method:				96 Cheong/ Greer GPS census				10 (est) Johnson HA/PM		100 Forburger/Watts HA/PM				
Arctostaphylos glandulosa ssp. *crassifolia* /Crest Cyn	Population: Lead Monitor/s: Monitoring Method:				1.020 Holly Cheong GPS census				100 (est) Johnson HA/PM		110 Miller/Forburger/Watts HA/PM				
Arctostaphylos glandulosa ssp. *crassifolia* /DMM	Population: Lead Monitor/s: Monitoring Method:										120 Vaughan/Watts HA/PM				
Arctostaphylos glandulosa ssp. *crassifolia* /San Dieguito River Bluffs	Population: Lead Monitor/s: Monitoring Method:										100 Forburger/Watts HA/PM				
Arctostaphylos glandulosa ssp. *crassifolia* /PQ Canyon	Population: Lead Monitor/s: Monitoring Method:				94 Holly Cheong GPS census						10 Vaughan/Watts HA/PM				
Brodiaea orcuttii /General Dynamics	Results Lead Monitor/s: Monitoring Method:			Est Pop = 10,000+ Scott McMillan quadrat	Pop = 0 Scott McMillan quadrat	Est Pop = 46,018 Density = 20.08/m² Holly Cheong quadrat		Permanent Plot Density = 41.25 m2 Total Population Area = 7,022 m² Greer/Johnson Perm Plots/GPS			2,750 Miller/Rodgriuez HA/PM	332 Miller/Balo Census/HA/PM	100000+ Miller/Roeland/Palmer HA/PM	30.000 Miller/Palmer HA/PM	
Brodiaea orcuttii /Alliant University	Results Lead Monitor/s: Monitoring Method:			Est Pop = 11,000 Scott McMillan quadrat	0 Scott McMillan quadrat	Est Pop = 2,530 Density = 2.12/m² Holly Cheong belt transect									
Brodiaea orcuttii /Nobel Drive	Total Population: Lead Monitor/s: Monitoring Method:			43 Scott McMillan census	0 Scott McMillan census	37 Holly Cheong census		23 plants Melanie Johnson census			10 Miller/Watts HA/PM	5 Miller/Balo Census/HA/PM	0 Miller/Garcia/Palmer HA/PM	78 Miller/Fennelly HA/PM	0 Miller/White HA/PM
Brodiaea orcuttii /USIU	Total Population: Lead Monitor/s: Monitoring Method:										0 Miller/Watts HA/PM	0 Miller/Balo HA/PM	0 Miller/Palmer HA/PM	0 Miller/Marquez HA/PM	0 Miller/White HA/PM
Brodiaea orcuttii /Carroll Canyon	Results Lead Monitor/s: Monitoring Method:			Est Pop = 5,000 Scott McMillan quadrat	Est Pop = 0 Scott McMillan quadrat	Est Pop = 10,247 2.11/m² Holly Cheong quadrat		Permanent Plot Density = 36.78 m2 Total Population Area =18,006 m² Greer/Johnson Perm Plots/GPS			100 Miller/Watts HA/PM	93 Miller/Balo Census/HA/PM	2 Miller/Palmer HA/PM	770 Miller/Marquez HA/PM	0 Miller/Lang/White HA/PM
Brodiaea orcuttii /Del Mar Mesa	Estimated Population: Density: Lead Monitor/s: Monitoring Method:			30 plants/m2 Scott McMillan quadrat	0 Scott McMillan quadrat	7.181 8.27/m² Holly Cheong quadrat					1,500 Balo/Watts HA/PM	750 Miller/Greer HA/PM	231,323 /Billet/Washington/Palmer/Frieson/Ro HA/PM	750 Miller/Deodat HA/PM	0 Miller/Wilson/White/Miner HA/PM
Brodiaea orcuttii/ Lopez Ridge	Estimated Population: Density: Lead Monitor/s: Monitoring Method:											150 - Miller/Greer HA/PM	2.017 - Miller/Frieson HA/PM	500 - Miller/Fennelly HA/PM	42 - Miller/White HA/PM
Cordylanthus orcuttianus (Otay River Valley	Results Lead Monitor/s: Monitoring Method:			Est Pop = 1,000+ Scott McMillan quadrat	Pop = 166 Scott McMillan census	Est Pop = 84,727 Holly Cheong quadrat	35 populations Betsy Miller presence/absence	Permanent Plot Density = 18.83 m2 Total Population Area = 684 m² Melanie Johnson Perm Plots/GPS	150 (est-at obs site only) Johnson HA/PM		1,500 Vaughan/Watts HA/PM	500 Vaughan/Watts HA/PM	3542 Miller/Ball/Friesen/Roeland HA/PM	0 Miller/Deodat HA/PM	200 Miller/White/Comer-Santos/Barone HA/PM
Cylindropuntia californica var. *californica* /Otay Mesa	Results: Lead Monitor/s: Monitoring Method:				173 Greer/ Cheong census			Present Melanie Johnson presence/absence		Present Johnson/Greer HA/PM	15 Miller/Vaughan HA/PM	25 Balo/Gaudette Census/HA/PM	21 Miller/Ball/Friesen/Roeland HA/PM	13 Miller/Deodat HA/PM	20 Miller/White/Comer-Santos HA/PM
Cylindropuntia californica var. *californica* /Balboa Park	Results: Lead Monitor/s: Monitoring Method:				21 Greer/ Cheong census					1 Johnson HA/PM	3 Vaughan/Watts HA/PM	30 Miller/Jennings HA/PM	2 Miller/Friesen/Deodat HA/PM	2 Miller/Deodat/Billett HA/PM	
Cylindropuntia californica var. *californica* /Spring Canyon	Results: Lead Monitor/s: Monitoring Method:				47 Greer/ Cheong census			Present Melanie Johnson presence/absence		Present Johnson/Greer HA/PM	30 Miller/Vaughan HA/PM	30 Balo/Gaudette HA/PM	40 Miller/Friesen HA/PM	4 Miller/Deodat HA/PM	38 Miller/White/Comer-Santos HA/PM
Deinandra conjugens Dennery Ranch	Results: Lead Monitor/s: Monitoring Method:										1 Miller/Vaughan HA/PM	2001 Miller/Gaudette/Cass Census/HA/PM	1,050 Miller/Deodat HA/PM	3500 Miller/Deodat HA/PM	1,000 Miller/White/Comer-Santos HA/PM
Deinandra conjugens Proctor Valley	Results: Lead Monitor/s: Monitoring Method:					Est Pop = 45,737 Holly Cheong quadrat	Pop = 25 Holly Cheong census	Population Area = 3,347 m2 Melanie Johnson Belt Transects, GPS	150 (est) Johnson HA/PM		2,000 Miller/Vaughan HA/PM	150 Miller/Cass HA/PM	1919 Miller/Ball/Billet/Roeland HA/PM	0 Miller/Deodat HA/PM	30 Miller/White/Comer-Santos HA/PM
Dudleya brevifolia /Carmel Mountain	Estimated Population: Density: Lead Monitor/s: Monitoring Method:	10,024 Holly Cheong quadrat	23,486 19.76/m² Holly Cheong quadrat	66,573 77.32/m² Holly Cheong quadrat	1,447 1.63/m² Holly Cheong quadrat	111,313 90.18/m² Holly Cheong quadrat	18,907 15.32/m² Holly Cheong quadrat	123,200 * 99.81/m² Greer/Johnson quadrat	260 (est) - Greer/Johnson HA/PM		4,900 Miller/Greer HA/PM	- 2.538 Miller/Washington Census/HA/PM	3.799 Garcia HA/PM	26.673 Miller/Washington/Adair HA/PM	14.892 Miller/Putko HA/PM
Dudleya brevifolia /Skeleton Canyon	Population: Lead Monitor/s: Monitoring Method:			62 Holly Cheong census	0 Holly Cheong census	191 Holly Cheong census	1 Holly Cheong census		10 (est) Greer/Johnson HA/PM		30 Miller/Greer HA/PM				
Dudleya brevifolia /Crest Canyon	Results: Lead Monitor/s: Monitoring Method:			Est Pop = 2,629 Holly Cheong nearest neighbor	Pop = 0 Holly Cheong census	Pop = 12,945 Holly Cheong census	Pop = 10 Holly Cheong census	Pop Area (N SubPop) = 1,704 m2 Pop (S SubPop) = 31 plants Melanie Johnson Census/GPS	N Subpop=250 (est) S Subpop=10 (est) Greer/Johnson HA/PM	North Pop: 200 (est) South Pop: 0 Johnson/Crookston/Mai HA/PM	504 Miller/Greer HA/PM	1209 Miller Census/HA/PM	409 Garcia HA/PM	1264 Miller/Palmer HA/PM	4017 Miller/White/Wilson HA/PM
Dudleya brevifolia /Torrey Pines	Population area: Lead Monitor/s: Monitoring Method:					77.796 sq ft Holly Cheong GPS only									
Dudleya variegata /Spring Canyon	Population: Lead Monitor/s: Monitoring Method:			1.000+ Scott McMillan quadrat	0 Scott McMillan quadrat	3.004 Holly Cheong census	2.024 BM census	2.996 plants Melanie Johnson Censused and GPSd	500 (est) Johnson HA/PM		0 Miller/Vaughan HA/PM	0 Balo/Gaudette HA/PM	2652 Betsy/Friesen HA/PM	52 Miller/Deodat HA/PM	634 Miller/White/Comer-Santos HA/PM
Dudleya variegata /Otay Lakes	Results Lead Monitor/s: Monitoring Method:			10,000+ Scott McMillan quadrat	0 Scott McMillan quadrat	Est Pop = 24,921 0.127 plants/m² Holly Cheong quadrat	Est Pop = 2,457 0.0338 plants/m² MJ belt transect	Est Pop = 45,377 0.23 plants/m² Melanie Johnson belt transect	- Johnson HA/PM	200 (est) Johnson/Miller HA/PM	0 Vaughan/Watts HA/PM	- 500 Miller/Snapp-Cook HA/PM	- 5000 Miller HA/PM	- 2500 Miller/Deodat HA/PM	2500 Miller/White/Wehnger/Comer-Santos HA/PM
Dudleya variegata/ Otay Mesa (Ocean View Hills)	Results: Lead Monitor/s: Monitoring Method:										0 Miller/Watts Presence/Absence				
Dudleya variegata/ Paradise Hills	Results: Lead Monitor/s: Monitoring Method:										100 Miller/Watts Presence/Absence				
Dudleya variegata/ Lake Murray	Results: Lead Monitor/s: Monitoring Method:										0 Vaughan/Watts HA/PM	0 Miller/Gaudette HA/PM	0 Garcia HA/PM	0 Miller/Deodat HA/PM	
Dudleya variegata /Margerum Ave/Navajo Mission Gorge	Population: Lead Monitor/s: Monitoring Method:			215 Scott McMillan census	0 Scott McMillan census	3.209 Holly Cheong census	566 HC census			400 (est) Johnson/Schmalbach HA/PM	500 Vaughan/Watts HA/PM	1500 Miller/Logan HA/PM	500 Garcia HA/PM	402 Miller/Deodat HA/PM	505 Miller/Putko HA/PM
Dudleya variegata /Marron Valley	Population: Lead Monitor/s: Monitoring Method:							7.973 plants Melanie Johnson census	1.000 (est) Johnson HA/PM		800 Miller/Balo HA/PM	1200 Miller/Cass HA/PM	950 Miller/Greer/Roeland HA/PM	1827 Miller/Deodat HA/PM	426 Miller/White/Wehnger/Comer-Santos HA/PM
Dudleya variegata /MTRP	Population: Lead Monitor/s: Monitoring Method:			316 Scott McMillan census	0 Scott McMillan census	2.368 Holly Cheong census	1.129 Holly Cheong census	2.878 plants Mike Kelly census	1.400 (est) Greer/Johnson HA/PM		120 Vaughan/Watts HA/PM	200 Miller/Logan Census/HA/PM	1595 Miller/Garcia HA/PM	65 Miller/Deodat HA/PM	2621 Miller/Putko HA/PM
Dudleya variegata /Mercy Road	Est Population: Lead Monitor/s: Monitoring Method:			1.000+ Scott McMillan quadrat	0 Scott McMillan quadrat	738 Holly Cheong census			0 Johnson HA/PM		30 Vaughan/Watts HA/PM	150 Miller/Billett Census/HA/PM	450 Miller/Hooker HA/PM	185 Miller/Deodat HA/PM	130 Miller/White HA/PM
Dudleya variegata /BMR	Population: Lead Monitor/s: Monitoring Method:			114 Scott McMillan census	0 Scott McMillan census	22 Holly Cheong census			40 (est) Johnson HA/PM		0 Vaughan/Watts HA/PM	24 Miller/Billett CensusHA/PM	0 Miller/Hooker HA/PM	0 Miller/Deodat HA/PM	0 Miller/White HA/PM
***Dudleya variegata* /East Elliot**	Est Population: Lead Monitor/s: Monitoring Method:								450 (est) Johnson HA/PM		520 Vaughan/Watts HA/PM	0 Miller/Billett HA/PM	190 Miller/Friesen HA/PM	2 Miller/Deodat HA/PM	28 Miller/White HA/PM
Dudleya variegata /Santa Luz	Est Population: Lead Monitor/s: Monitoring Method:										70 Vaughan/Watts HA/PM	142 Miller/Jennings Census/HA/PM	1 Miller/Hooker HA/PM	0 Miller/Deodat HA/PM	0 Miller/White HA/PM
Lessingia filaginifolia /Torrey Highlands	Population: Lead Monitor/s: Monitoring Method:			200 Scott McMillan census	2 Scott McMillan census	120 Holly Cheong census		1.184 plants Melanie Johnson census			400 Miller/Vaughan HA/PM	750 Miller/Logan HA/PM	1340 Miller/Friesen HA/PM	611 Miller/Deodat HA/PM	4234 Miller/White/Putko HA/PM
Lessingia filaginifolia /Carmel Mountain (E)	Results: Lead Monitor/s: Monitoring Method:			33 plants/10m² Scott McMillan quadrat	5 Scott McMillan census	181 Holly Cheong census		353 plants Melanie Johnson census			7 Miller/Vaughan HA/PM	100 Miller/Logan Census/HA/PM	93 Miller/Friesen HA/PM	720 Miller/Deodat/Fennelly HA/PM	124 Miller/White/Putko HA/PM
Lessingia filaginifolia /Overlook Park	Results: Lead Monitor/s: Monitoring Method:			18 plants/10m² Scott McMillan quadrat	125 Scott McMillan census	1.384 Holly Cheong census		1.173 Melanie Johnson Census			150 Miller/Vaughan HA/PM	1000 Miller/Logan HA/PM	244 Miller/Friesen HA/PM	153 Miller/Deodat/Fennelly HA/PM	417 Miller/White/Putko HA/PM
Lessingia filaginifolia /Crest Canyon	Results: Lead Monitor/s: Monitoring Method:			21 plants/10m2 Scott McMillan quadrat	0 Scott McMillan census	451 Holly Cheong census		730 plants Melanie Johnson census			275 Miller/Vaughan HA/PM	530 Miller/Logan HA/PM	495 Miller/PellyForburger HA/PM	708 Miller/Deodat/Fennelly HA/PM	1293 Miller/White/Putko HA/PM
Lotus nuttallianus /Mission Bay	Results: Lead Monitor/s: Monitoring Method:		592 Greer/ Cheong census	3.388 Holly Cheong census	3.301 Holly Cheong census	5.393 Holly Cheong census/transect	375 Melanie Johnson census/transect	14.557 Melanie Johnson line intercept (sites 1,6); census	450 (est) Johnson HA/PM		1,120 Miller/Vaughan/Watts HA/PM	2.150 Miller/Gaudette HA/PM	19.317 Miller/Martino HA/PM	2.505 Miller/Deodat HA/PM	879 Miller/White/Putko/Laduie HA/PM
Monardella viminea /Lopez Canyon	Results: Lead Monitor/s: Monitoring Method:		5 points/ 22 plants Greer/ Cheong census	8 points Greer/ Cheong census	8 points/44 plants Greer/ Cheong census	8 points/ 82 plants Holly Cheong census	82 points RR census	7 points + 900 plantings** Melanie Johnson census	5 points Johnson HA/PM	7 + 93 transplants Mike Kelly Census	8 Miller/Vaughan HA/PM	9 Balo/Gaudette Census/HA/PM	10 Miller/Friesen HA/PM	8 Miller/Deodat/Fennelly HA/PM	10 Miller/White/Putko/Laduie HA/PM
Monardella viminea /Marron Valley	Results: Lead Monitor/s: Monitoring Method:		42 clumps Greer/ Cheong census	66 points Greer/ Cheong census	86 points/103 plants Greer/ Cheong census	83 points/ 192 plants Holly Cheong census	113 points Holly Cheong census	82 points/102 plants Greer/Johnson census	95 points Johnson census		95 Miller/Vaughan HA/PM	95 Miller/Cass HA/PM	95 Miller/Greer/Roeland HA/PM	3 Miller/Deodat HA/PM	47 Miller/White/Roeland/West/Ford HA/PM
Monardella viminea /Sycamore Canyon	Results: Lead Monitor/s: Monitoring Method:		262 clumps Greer/ Cheong census	77 points/170 plants Greer/ Cheong census	89 points/153 plants Greer/ Cheong census	85 points/390 plants Holly Cheong census	99 points/354 plants Holly Cheong census	51 points/99 plants Greer/Miller census	22 points Greer/Miller census	8 plants Greer/Miller HA/PM	29 Miller/Watts HA/PM	43 Miller/Balo Census/HA/PM	43 Miller/Friesen HA/PM	57 Miller/Garcia/Deodat HA/PM	46 Miller/White HA/PM
Monardellav iminea / Otay Lakes	Results: Lead Monitor/s: Monitoring Method:		2 points Greer/ Cheong census	2 points Greer/ Cheong census	2 points Greer/ Cheong census	2 points Holly Cheong census	2 points Holly Cheong census		1 point Johnson HA/PM		0 Miller/Vaughan HA/PM	0 Miller/Cass HA/PM	0 Miller/Greer/Roeland HA/PM	1 Miller/Deodat HA/PM	2 Miller/White/Wehnger/Comer-Santos HA/PM
Bloomeria clevelandii (Muilla clevelandii) /Marron Valley	Results Lead Monitor/s: Monitoring Method:		Pop = 1,515 Gordon-Reedy census		Pop = 0 Scott McMillan census		Est Pop = 27,281 Density = 0.55/m² Holly Cheong belt transect				75,000 Vaughan/Balo HA/PM	47,000 Miller/Cass HA/PM	55,000 Miller/Greer/Roeland HA/PM	40,500 Miller/Deodat HA/PM	2,500 Miller/White/Wehnger/Comer-Santos HA/PM
Bloomeria clevelandii /Otay *clevelandii/Otay Lakes*	Results Lead Monitor/s: Monitoring Method:			Est Pop = 10,000+ Scott McMillan quadrat	Pop = 0 Scott McMillan census		Est Pop = 40,936 Density = 0.12/m² Holly Cheong belt transect	Est Pop = 3,904,505 Density = 11.59/m² Greer/Johnson belt transect		200-300 (est) Johnson/Miller HA/PM	6,000 Miller/Watts HA/PM	1.750 Miller/Snapp-Cook HA/PM	29.085 Greer/Roeland HA/PM	880 Miller/Deodat HA/PM	10 Miller/White/Wehnger/Comer-Santos HA/PM
Bloomeria clevelandii /Lopez Ridge	Population: Lead Monitor/s: Monitoring Method:											37 Miller/Greer Census/HA/PM	28 Miller/Friesen HA/PM	480 Miller/Fennelly HA/PM	140 Miller/White HA/PM
Bloomeria clevelandii /MTRP	Population: Lead Monitor/s: Monitoring Method:			12 Scott McMillan census	0 Scott McMillan census	6 Scott McMillan census					0 Miller/Vaughan HA/PM	0 Miller/Jennings/Alexander HA/PM	0 Miller/Priestholt HA/PM	0 Miller/Deodat HA/PM	0 Miller/Lang/White HA/PM
Bloomeria clevelandii /Del Mar Mesa	Results: Lead Monitor/s: Monitoring Method:			Density = 19 plants/m Scott McMillan quadrat	0 Scott McMillan census	312 Holly Cheong census					56 Balo/Watts HA/PM	21 Miller/Greer Census/HA/PM		33 Miller/Deodat HA/PM	0 Miller/White/Miner HA/PM
Bloomeria clevelandii /East Elliot	Results: Lead Monitor/s: Monitoring Method:										13.755 Miller/Balo HA/PM	160 Miller/Jennings/Alexander HA/PM	832 Miller/Palmer/Martins HA/PM	1.213 Miller/Deodat HA/PM	6.039 Miller/White HA/PM
Navarretia fossalis /Carroll Canyon	Est Population: Lead Monitor/s: Monitoring Method:								0 Johnson HA/PM		0 Miller/Watts HA/PM	110 Miller/Balo Census/HA/PM	296 Miller/Palmer/Roeland HA/PM	798 Miller/Marquez HA/PM	0 Miller/Lang/White HA/PM
Navarretia fossalis /Goat Mesa/Spring Canyon	Est Population: Lead Monitor/s: Monitoring Method:										0 Miller/Vaughan HA/PM	87 Miller/Balo Census/HA/PM	0 Miller/Friesen HA/PM	14 Miller/Deodat HA/PM	0 Miller/Comer-Santos/White HA/PM
Navarretia fossalis /Nobel Dr	Est Population: Lead Monitor/s: Monitoring Method:								20 (est) Johnson HA/PM		100 Miller/Watts HA/PM	50 Miller/Gaudette Census/HA/PM	10 Miller/Garcia/Palmer/Roeland HA/PM	22 Miller/Fennelly HA/PM	0 Miller/White HA/PM
Navarretia fossalis /Robinhood Ridge	Est Population: Lead Monitor/s: Monitoring Method:								0 Johnson HA/PM		0 Miller/Vaughan HA/PM	53 Miller/Snapp-Cook Census/HA/PM	14 Miller/Garcia HA/PM	0 Miller HA/PM	
Navarretia fossalis /Otay Lakes	Est Population: Lead Monitor/s: Monitoring Method:										32 Miller/Balo HA/PM	0 Balo/Gaudette HA/PM	48 Miller/Greer/Roeland HA/PM	354 Miller/Deodat HA/PM	0 Miller/White/Wehnger/Comer-Santos HA/PM
Orcuttia californica /Robinhood Ridge	Est Population: Lead Monitor/s: Monitoring Method:								0 Johnson HA/PM						
Pinus torreyana spp. Torreyana (Crest Canyon	Est Population: Lead Monitor/s: Monitoring Method:										15 Vaughan/Watts HA/PM				
Pogogyne abramsii/ Del Mar Mesa	Est Population: Lead Monitor/s: Monitoring Method:										1,050 Balo/Watts HA/PM	1300 Miller/Greer HA/PM	2625 iller/Billet/Washington/Palmer/Friese HA/PM	1782 Miller/Deodat HA/PM	2818 Miller/White/Miner HA/PM
Pogogyne abramsii/ General Dynamics	Est Population: Lead Monitor/s: Monitoring Method:										250 Miller/Rodgriuez HA/PM	300 Miller/Balo HA/PM	5400 Miller/Palmer/Roeland HA/PM	15000 Miller/Palmer HA/PM	
Pogogyne abramsii/ Carroll Canyon	Est Population: Lead Monitor/s: Monitoring Method:										500 Miller/Watts HA/PM	250 Miller/Balo HA/PM	960 Miller/Palmer/Roeland HA/PM	2500 Miller/Marquez HA/PM	12000 Miller/Lang/White HA/PM
Pogogyne abramsii/ Lopez Ridge	Est Population: Lead Monitor/s: Monitoring Method:											5000 Mmiller/Greer HA/PM	9500 Miller/Friesen HA/PM	2000 Miller/Fennelly HA/PM	8000 Miller/White HA/PM
Pogogyne nudiscula /Robinhood Ridge	Est Population: Lead Monitor/s: Monitoring Method:										10 Miller/Vaughan HA/PM	120 Miller/Gaudette HA/PM	400 Miller/Garcia HA/PM	576 Miller/Deodat HA/PM	132 Miller/Comer-Santos/White HA/PM
Erynigium aristulatum/ Otay Lakes	Est Population: Lead Monitor/s: Monitoring Method:										100 Miller/Watts HA/PM				
Erynigium aristulatum/ Goat Mesa/Spring Canyon	Est Population: Lead Monitor/s: Monitoring Method:										450 Miller/Vaughan HA/PM	850 Balo/Gaudette HA/PM	1.635 Miller/Friesen HA/PM	1.219 Miller/Deodat HA/PM	1.273 Miller/Comer-Santos/White HA/PM
Erynigium aristulatum/ General Dynamics	Est Population: Lead Monitor/s: Monitoring Method:										2.500 Miller/Rodgriuez HA/PM	950 Miller/Balo HA/PM	251 Miller/Palmer/Roeland HA/PM	450 Miller/Palmer HA/PM	
Erynigium aristulatum/ Del Mar Mesa	Est Population: Lead Monitor/s: Monitoring Method:										1,800 Balo/Watts HA/PM	1300 Miller/Greer HA/PM	341.773 /Billet/Washington/Palmer/Friesen/Ro HA/PM	52.808 Miller/Deodat HA/PM	276.830 Miller/Wilson/White/Miner HA/PM
Ceanothus verrocusus/ Carmel Mountain	Est Population: Lead Monitor/s: Monitoring Method:										200 Vaughan/Watts HA/PM				
Ceanothus verrocusus/ Crest Canyon	Est Population: Lead Monitor/s: Monitoring Method:										1 Vaughan/Watts HA/PM				
Rosa Munitifolia/ Dennery Ranch	Est Population: Lead Monitor/s: Monitoring Method:										1 Miller/Vaughan HA/PM	13 Miller/Cass Census/HA/PM	8 Miller/Deodat HA/PM	9 Miller/Deodat HA/PM	7 Miller/Comer-Santos/White HA/PM

HA/PM = Habitat Assessment/Photomonitoring. This revised methodology, implemented by the City beginnning in 2006, is based on 2004/2005 outside review of the MSCP rare plant monitoring program. The advisor's report is available online at http://www.sandiego.gov/planning/mscp/rareplantmonitor.shtml.

*Note: Carmel Mountain *Dudleya brevifolia* population estimates for 2005 were calculated using 2003 population area (1999 population area could not be located). Note potential statistical problem as transects were established based on 1999 population area. The same issue appears to apply to 2000-2004 calculations.

**Lopez Canyon Willowy Monardella plantings were installed by California Native Plant Society (CNPS) volunteers; seeds were collected and grown by Recon Consulting pursuant to a federal grant to CNPS.

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