

State of California
The Resources Agency
Department of Fish and Game
Habitat Conservation Planning Branch

Annual Artichoke Thistle Control Status Report ^{1/}
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Prepared for:
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ABSTRACT

Following the Laguna Canyon Fire in October 1993, an effort to control artichoke thistle (*Cynara cardunculus*) began spring 1994 within the San Joaquin Hills portion of the Coastal Orange County NCCP Subregion. Artichoke thistle, which resprouts every year from a perennial taproot, has readily adapted to Southern California's climate, becoming a widespread problem. To control further spread and reduce cover and density of existing thistle patches, sites were selected within the San Joaquin Hills to be treated with an herbicide solution consisting of Roundup Pro and the pre-emergent Telar. In 2001, a second herbicide solution, Transline with Telar, was used in areas of artichoke infested native grasslands. Because of initial success with the use of Transline in 2001 in controlling thistle, the majority of the sites prioritized for treatment in 2002 were sprayed with Transline rather than Roundup Pro. A total of 2235 acres of artichoke thistle were treated by the Nature Reserve of Orange County in 2002. The Nature Conservancy established 20m² permanent monitoring plots within treatment areas on The Irvine Company lands in Muddy Canyon, Sand Canyon, Shady Canyon, and along Bommer Ridge in 1997. Since 1997, 20 additional plots have been established in Bommer, Shady, and north Laguna Canyons, Bonita Ridge, Crystal Cove State Park, Aliso and Wood Canyons Wilderness Park, and University of California - Irvine Reserve, and Peters Canyon Regional Park. Baseline data were collected before treatment. Each plot consisted of five transects at five-meter intervals along a pre-determined baseline. Along each transect, data were collected at five-meter intervals using a one-meter quadrat. Relative percent cover of artichoke thistle, other exotic species, native species, bare ground, rock, and litter were determined by ocular estimation. Individual artichoke seedlings and resprouts were counted in each quadrat. All transects were photo documented. This report reflects the sixth year of data collection. Not all plots were treated with herbicide every year and some received an additional treatment of prescribed fire. Additional spraying efforts were conducted in 2002 and data will be collected in 2003 to monitor the effectiveness of this treatment.

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INTRODUCTION

This report summarizes the Nature Reserve of Orange County's 2002 artichoke thistle (*Cynara cardunculus*) control efforts in the Coastal and Central NCCP Subregions of the Nature Reserve of Orange County (NROC). The NROC directed a total of \$160,000.00 toward thistle control in 2002. A total of 1620 acres of artichoke thistle were treated in 2001 by NROC. In 2002, a total of 2235 acres of thistle were treated by NROC.

In addition to the 2235 acres treated by NROC in 2002, The Irvine Company (TIC) and State Parks funded separate artichoke thistle treatment projects encompassing approximately 740 acres within the Coastal Subregion. Artichoke thistle control efforts funded by TIC were directed toward a 561-acre zone within the special linkage areas near the Shady Canyon development area. This control effort will be conducted over a three-year period (through 2003). In addition, 54 acres within Muddy Canyon have been treated for artichoke thistle over the last two years as part of TIC's Newport Coast Open Space Enhancement Project. A herbicide solution of Roundup Pro or Rodeo was used to treat both the Shady Canyon and Muddy Canyon areas. LSA Associates, Inc. served as biological monitor for each project. In 2002, State Parks also funded treatment of an additional 122 acres of thistle within CCSP at the "Meadows", the "Bowl" and "Sweeney Reservoir".

The NROC's artichoke thistle control efforts for 2002 began in mid-February, representing the ninth consecutive year of thistle control efforts in the Coastal Subregion and the first year of thistle control in Peters Canyon Regional Park (PCRP) in the Central Reserve. Thistle control in the Coastal Reserve began in the spring of 1994 following the Laguna Canyon fire. Since the spring of 1994, approximately \$1,210,000.00 has been directed at the artichoke thistle control in the Coastal Subregion.

Natures Image, Inc., under the direction of John Caruana, and the Orange County Department of Public Works (Public Works), under the direction of Manager Bill Hisey, conducted the 2002 artichoke control efforts. The Nature Conservancy (TNC), the State Department of Parks and

Recreation, and the County of Orange worked cooperatively to prioritize areas for treatment, identified in Figures 1-5.

Artichoke thistle control efforts focused on five general areas within the Laguna Canyon burn area: 1) Muddy Canyon, 2) Crystal Cove State Park (CCSP), 3) Laguna Coast Wilderness Park (LCWP), 4) Bommer Canyon, and 5) Shady Canyon. Remaining funds were applied to the control of artichoke thistle outside the Laguna Canyon burn area: Aliso and Wood Canyons Wilderness Park (AWCWP), the University of California-Irvine Reserve (UCI), Sand Canyon / Quail Hill, Buck Gully, and PCR. TNC served as the biological monitor at all sites with the exception of CCSP – park staff served as the biological monitor at this site.

BACKGROUND

Artichoke thistle, a perennial weed from the Mediterranean region, was introduced to California in the mid-1800s as a cultivated edible cardoon. This plant, well adapted to California's climate, has become a problem on poorly managed, grazed lands. Because it resprouts every year from a perennial taproot that can reach a depth of eight feet, it is difficult to control. The deep taproot makes it nearly impossible to remove through cultural methods such as plowing, mowing, or digging. Biological control is not possible because of the plant's close relationship to the cultivated artichoke (*C. scolymus*).

METHODS

Control efforts for 2002 focused on the re-treatment of seedlings and resprouts at previously sprayed sites as well as on the treatment at newly identified sites. Many of the new sites were selected for treatment based on the presence of remnant native grassland species growing among the artichoke thistle. The majority of sites in 2002 were treated with the herbicide Transline with Telar.

Transline

Treatment with Transline (clopyralid) is most effective when conducted in the early spring when artichoke thistle is still in the rosette stage, before the flower stock bolts. Transline is a broadleaf selective herbicide that does not affect grasses or other monocots. The presence of purple needlegrass (*Nassella pulchra*) in the understory of the artichoke thistle in many of the areas prioritized for treatment raised concern about the use of the non-selective herbicide Roundup Pro at these sites. For this reason, in 2000, TNC directed spray crews to use Transline (0.32 ounce/gallon) with Telar (chlorsulfuron), a broadleaf selective, pre-emergent herbicide (1.5 ounces/acre) at a small test site in Shady Canyon. This effort proved to be successful at killing artichoke thistle without harming any native grasses or bulbs. As a result, in 2001 and 2002, TNC directed spray crews to use Transline, rather than Roundup Pro, at sites with remnant native grassland species. Natures Image used a solution consisting of Transline (0.32 ounce/gallon), the pre-emergent herbicide, Telar (1.5 ounces/acre), and Blazon; Public Works used a solution of Transline (0.32 ounce/gallon), Telar (0.5 ounce/acre) and Blazon. Blazon, a marking dye, was added to the herbicide solution to guide the spraying effort and to ensure adequate coverage of individual thistle plants by the applicator.

Roundup Pro

Roundup Pro (glyphosate) is a non-selective contact herbicide. With Roundup Pro, in contrast with Transline, thistle spraying is conducted when the flower stock is bolting, which is the time of maximum growth for the plant. Control efforts involve selective spraying of artichoke thistle using a foliar spray application method. Natures Image used a rate of 2.67 ounces/gallon (two percent solution) of Roundup Pro, 1.5 ounces/acre of Telar, and Blazon. Public Works used a solution of Roundup Pro at 1.33 ounces/ gallon, Telar at 0.5 ounces/acre, and Blazon. With the use of Roundup Pro, it normally takes two to three years to control the thistle in given area, as the first year's spraying efforts are only between 40 and 90 percent successful (Bill Tidwell, pers. comm.).

MONITORING

Since 1997, TNC has collected vegetation data annually from 13 permanent monitoring plots within the NROC / Irvine Ranch Land Reserve (IRLR) including Bommer Canyon, Shady Canyon, Sand Canyon and Muddy Canyon. In 2001, 11 additional monitoring plots were established in Bommer Canyon, Laguna Canyon, CCSP, AWCWP, Bonita Ridge and at the UCI Reserve; in 2002, three additional plots were established in Shady Canyon, Laguna Canyon, and PCRP (Figures 6-9).

Each monitoring plot established was 20m² and data were collected along five 20m transects at the 0m, 5m, 10m, 15m and 20m intervals established along the baseline. Data on plant cover were collected from five 1m quadrats placed along each transect at 5m intervals. Ocular estimates were made on total percent cover of artichoke thistle and any other plant species occurring within each quadrat. In addition, the number of resprouts and seedlings of artichoke thistle were counted. Photos of each transect were taken from the baseline.

The Muddy Canyon monitoring plots have been abandoned as a result of the Newport Coast Open Space Enhancement Project, which began November of 2000. As part of this project, approximately 50 acres in Muddy Canyon has been treated (sprayed with herbicide, weed whipped, and hand-pulled) for exotic vegetation, including artichoke thistle, and revegetated with coastal sage scrub (CSS) species and native grasses. All five Muddy Canyon monitoring plots were located within this enhancement project area.

RESULTS

Results are summarized in Tables 1 through 27. These results include data collected from 1996 to 2002. Data collected from pre-treatment vs. post-treatment plots showed a significant reduction in thistle cover (50-100 percent) and density (44-100 percent) one year following treatment with either Roundup Pro or Transline. In plots left untreated the second year, artichoke thistle quickly recovered. Although the number of artichoke seedlings and resprouts did not increase in these

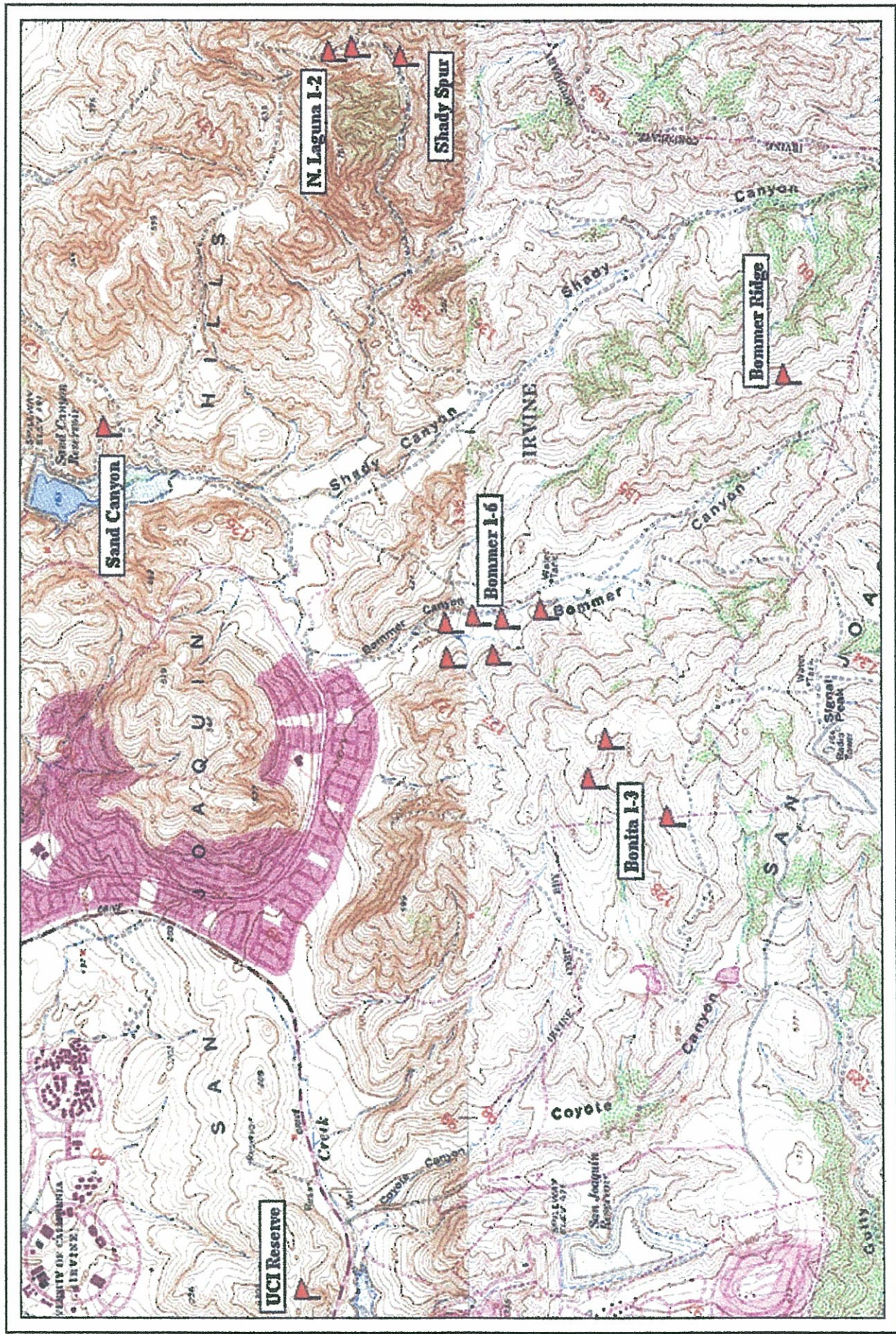


Figure 6. Artichoke thistle monitoring locations in Bommer, Shady, Sand, and Laguna Canyons, and UCI Reserve

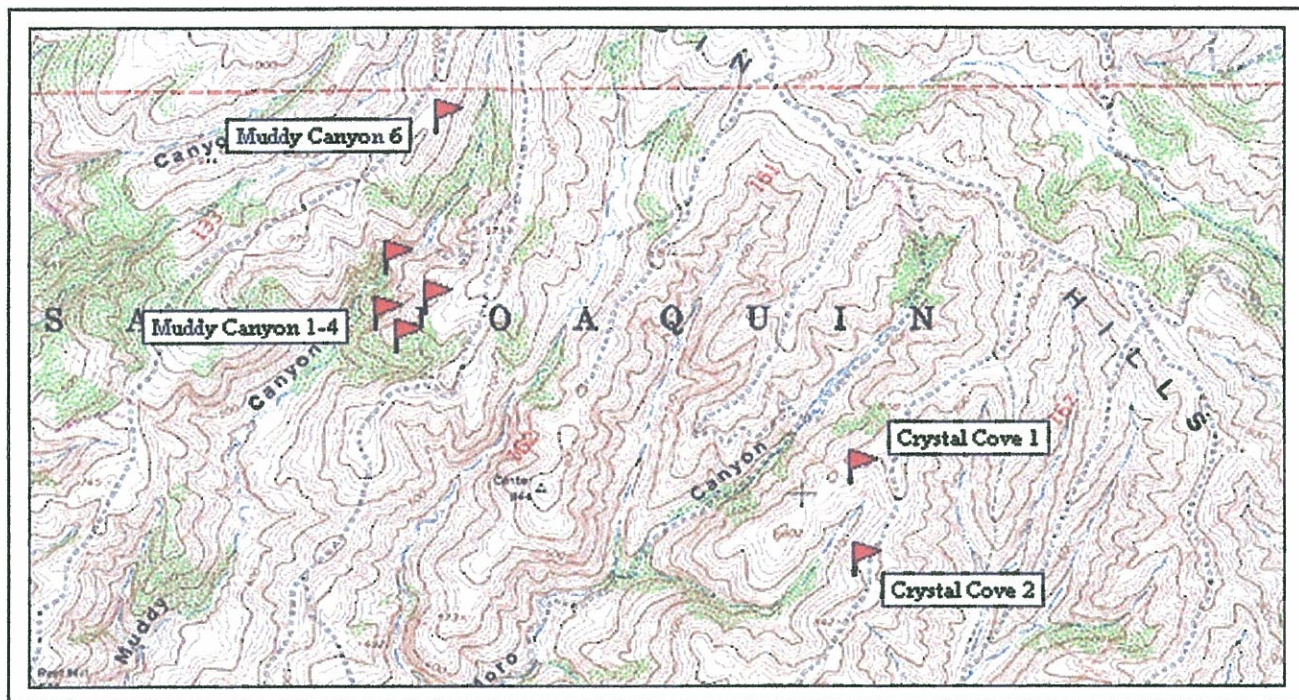
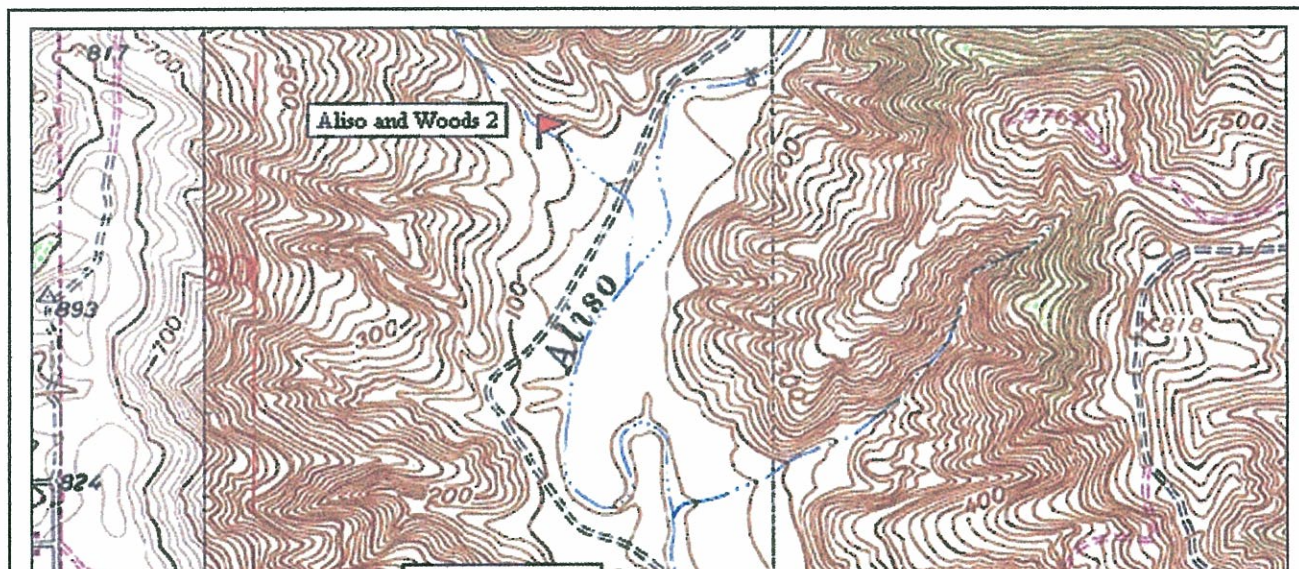


Figure 7. Artichoke thistle monitoring locations in Muddy Canyon and Crystal Cove State Park



untreated plots, percent cover increased an average of six to 24 percent (a total increase of 175-820 percent) with no follow-up treatment. The majority of the plots sprayed consecutively the second and third years showed a continuous decline or stabilization in both thistle cover and density. A few sites that increased in artichoke cover following the first or second spraying may have had other factors influencing the success of the treatment (i.e. cattle disturbance, soil type, rainfall amount, or poor herbicide cover).

After the first year of treatment, Transline appears to be more effective in reducing artichoke thistle compared to Roundup Pro. Adjacent test sites – one treated with Transline, the other with Roundup Pro - both resulted in a decrease of artichoke thistle cover. However, the site treated with Transline resulted in a 99.7 percent decrease in thistle cover after initial treatment and the site treated with Roundup Pro resulted in a 65 percent decrease.

Each monitoring site is discussed separately below.

Sand Canyon

Although not contained within the Laguna Canyon Burn area, the Sand Canyon / Quail Hill site was selected as a treatment location for artichoke thistle. Sand Canyon was selected because of a concern amongst researchers studying the California gnatcatcher (*Poliophtila californica californica*) and cactus wren (*Campylorhynchus brunneicapillus*) populations at this site that artichoke thistle was possibly interfering with the reproductive success of these species (Atwood, et al) (Photos 1 and 2). In 2000, because of gnatcatcher and cactus wren densities at this location, TNC contracted with consulting biologist Robb Hamilton to conduct nesting surveys prior to treatment to identify any locations where thistle spraying should be avoided due to nesting activity. No gnatcatcher or cactus wren nests were located by Hamilton in or near areas proposed for treatment. No nesting surveys were conducted in 2001 or 2002.

Although thistle has been successfully controlled over much of this site through the spraying efforts, results from the monitoring plot do not demonstrate this success. Although density decreased by 41 percent following the initial treatment, the percent cover of artichoke thistle in the monitoring plot increased from 43 to 57 percent (a total increase of 32 percent) (Table 1, Figure 10). And in 2001, despite four years of treatment, artichoke thistle cover within the monitoring plot remained just below 40 percent (an overall decrease of ten percent). There is no obvious explanation for why thistle cover has not declined within the monitoring plot, as there have been no other sources of recent disturbance (i.e., cattle) at this location. Monitoring was not conducted in 2002.

Cover of exotic species other than artichoke thistle has also remained high over the past several years. Exotic species observed included wild oats (*Avena barbata*), red brome (*Bromus rubens*), ripgut brome (*B. diandrus*), soft chess (*B. mollis*), foxtail fescue (*Vulpia myuros*), black mustard (*Brassica nigra*), shortpod / summer mustard (*Hirschfeldia incana*), tocalote (*Centaurea melitensis*), common sow-thistle (*Sonchus oleraceus*), prickly sow-thistle (*S. asper*), prickly lettuce (*Lactuca serriola*), smooth cat's ear (*Hypochaeris glabra*), bur-clover (*Medicago polymorpha*), windmill pink (*Silene gallica*), red-stemmed filaree (*Erodium cicutarium*), and field bindweed (*Convolvulus arvensis*).

Native species cover and diversity remains low at this site. Virgate sand aster (*Corethrogyne filaginifolia*) was the only native documented from 1997 through 2002.

Approximately 40 acres of artichoke thistle were treated at this site in 1997, 1999, and 2000 with Roundup Pro with Telar. In 2001, 61 acres were treated with Roundup Pro with Telar; in 2002, 132 acres were treated with Transline with Telar.

Bommer Ridge

Before the 1993 Laguna Canyon Fire, the Bommer Ridge site was dominated by artichoke thistle. In the spring following the fire, cattle grazing was terminated on the east side of Bommer Ridge (Shady Canyon area) and artichoke thistle control was initiated. The control efforts were

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	Baseline data before initial treatment	13.32 (4-41 seedlings & resprouts/m ²)	43.2%	0.0%	57.0%	0.0%*	0.0%*
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	7.84 (2-18 seedlings & resprouts/m ²)	57.2%	0.0%	42.8%*	0.0%*	0.0%*
1999	Treated in 1998 (2.67 oz/g Roundup Pro w/Telar)	No data	No data	No data	No data	No data	No data
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	3.36 (0-9 seedlings & resprouts/m ²)	41.6%	0.6%	37.3%	8.9%	11.6%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	2.52 (0-12 seedlings & resprouts/m ²)	38.7%	2.9%	46.1%	10.3%	2.0%
2002	Treated in 2001 (2.67 oz/g Roundup Pro w/Telar)	No data	No data	No data	No data	No data	No data

Table 1. Sand Canyon

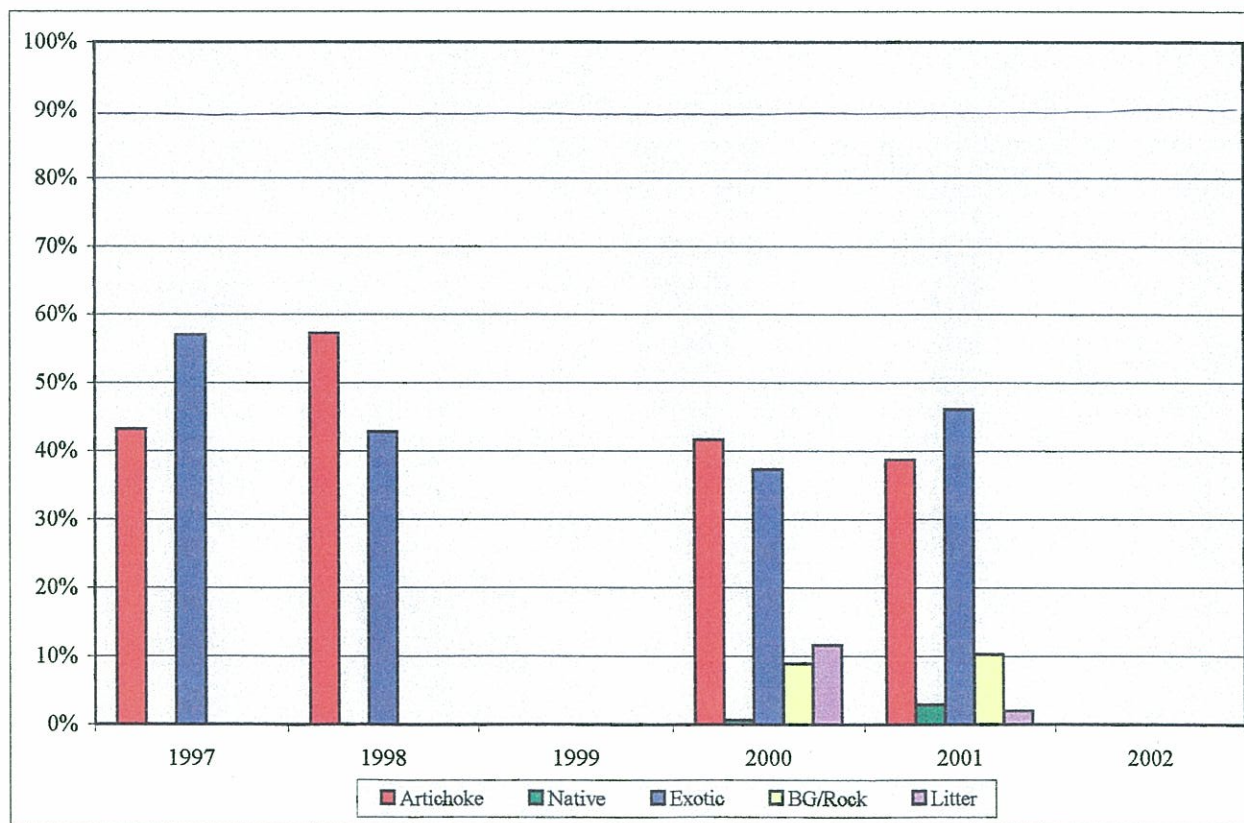


Figure 10. Sand Canyon



PHOTO 1. Sand Canyon: Pre-treatment 1997



PHOTO 2. Sand Canyon: Post-treatment 2001

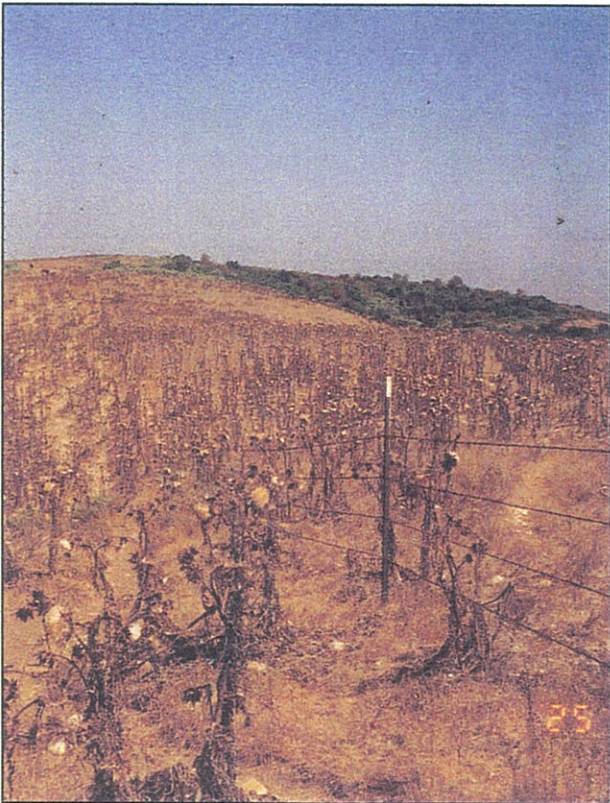


PHOTO 3. Bommer Ridge: Pre-treatment 1994

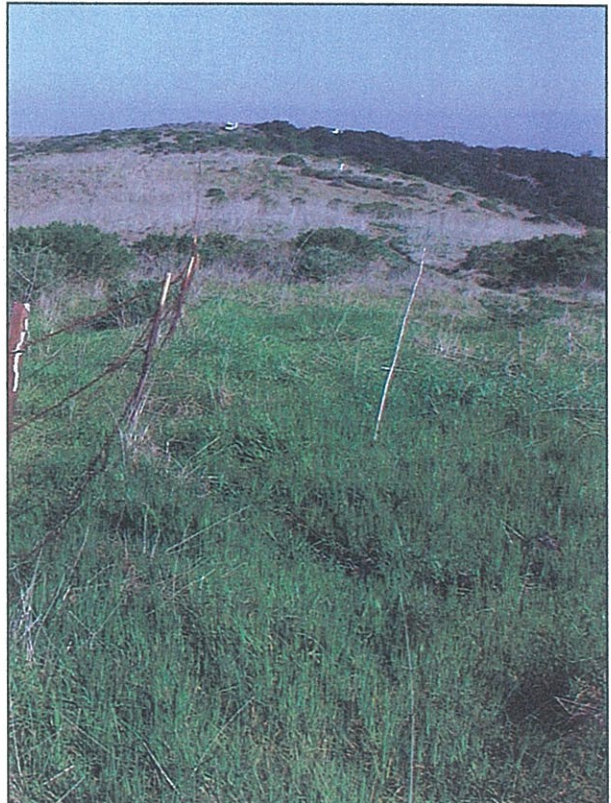


PHOTO 4. Bommer Ridge: Post-treatment 2002

successful, and within two years of initial treatment, native species such as purple needlegrass and coyote brush (*Baccharis pilularis* ssp. *consanguinea*) recolonized within the treated areas.

Artichoke thistle control was initiated on the west side of Bommer Ridge in 1997. TNC established a monitoring plot at this location before the first year of thistle treatment (Photos 3 and 4). The Bommer Ridge plot showed a considerable decrease in percent cover of artichoke thistle after the first year of treatment (Table 2, Figure 11). Cover declined from 38 to nine percent (a decrease of 77 percent). No control effort was conducted the second year and thistle increased to 24 percent (a 175 percent increase). However, because the pre-emergent Telar was included in the herbicide mix the first year, density of artichoke continued to decline without the second year of treatment (Table 2, Figure 37a). This site was sprayed again in 1999, 2000, and 2001 and the thistle was almost eliminated from the plot with percent cover documented at 0.1 percent in spring of 2002.

Bommer Ridge is dominated by many rock outcrops but with the thick growth of artichoke thistle before treatment, no bare ground/rock cover was observed in 1997. After the first year of treatment, percent cover of bare ground / rock increased from zero to 28 percent as a result of the thistle reduction. Over the next four years of monitoring, cover of bare ground / rock fluctuated from 15 to 24 percent.

Cover of exotic species has increased from 61 to 76 percent over the six-year period. Exotic grasses included wild oats, red brome, ripgut brome, soft chess, darnel (*Lolium temulentum*), English ryegrass (*L. perenne*), foxtail barley (*Hordeum murinum*), and purple false brome (*Brachypodium distachyon*). Exotic forbs included red-stemmed filaree, bur-clover, common and prickly sow-thistle, black and shortpod / summer mustard, tocalote, prickly lettuce, smooth cat's ear, and curly dock (*Rumex crispus*).

Purple needlegrass and arroyo lupine (*Lupinus succulentus*) were the only native species documented in 1997. In 1998 and 1999 only purple needlegrass was present and in 2000 and 2001, only pine goldenbush (*Ericameria pinifolia*) was documented in the Bommer Ridge plot. No native

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	Baseline data before initial treatment	6.16 (2-15 seedlings & resprouts/m ²)	37.8%	0.9%	61.3%*	0.0%*	0.0%*
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	1.24 (0-4 seedlings & resprouts/m ²)	8.8%	0.1%	60.5%	27.6%	3.0%*
1999	No treatment in 1998	0.88 (0-3 seedlings & resprouts/m ²)	24.1%	0.2%	45.6%	18.1%	12.0%*
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	0.28 (0-2 seedlings & resprouts/m ²)	2.2%	0.4%	59.7%	23.8%	13.9%*
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.12 (0-1 seedlings & resprouts/m ²)	3.2%	0.1%	72.3%	16.7%	7.7%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.0 (0 seedlings & resprouts/m ²)	0.1%	0.0%	76.0%	14.5%	9.4%

Table 2. Bommer Ridge

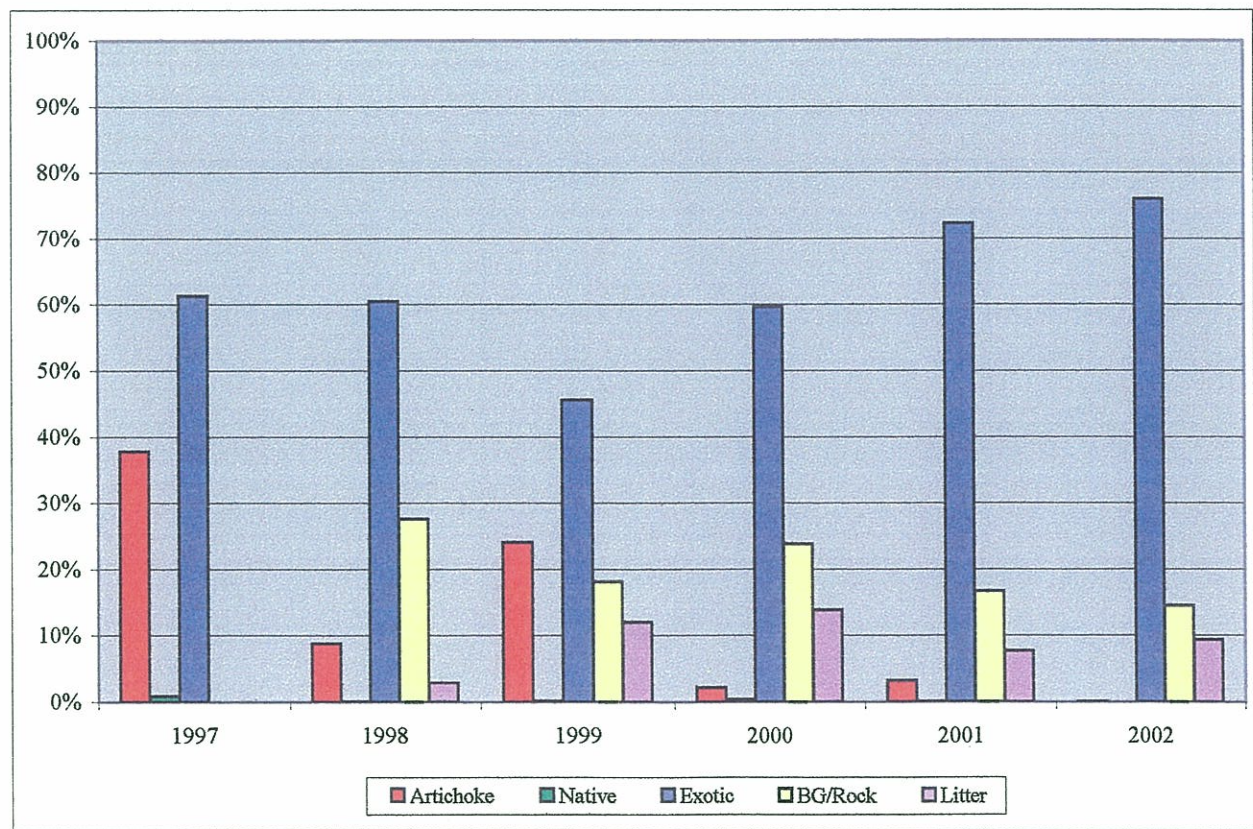


Figure 11. Bommer Ridge

species were observed within the individual quadrats in 2002, however, several natives including blue dicks (*Dichelostemma pulchellum*) and laurel sumac (*Malosma laurina*) were observed adjacent to and within the monitoring plot. Native species have not yet made a recovery following the reduction of thistle. This may be a result of increased exotic grass and artichoke thatch in each of the quadrats, inhibiting native plant germination.

In past years, Bommer Ridge has been sprayed with Roundup Pro with the pre-emergent Telar. In 2002, this site was sprayed with Transline with Telar because of the presence of native grasses at this site. Approximately 82 acres of artichoke thistle were sprayed on Bommer Ridge in 2001; 105 acres in 2002.

Bommer Canyon

Before control efforts were initiated, the Bommer Canyon area contained some of the largest patches of artichoke thistle within the Coastal Subregion. This site was heavily grazed historically, which encouraged the spread of artichoke thistle. Grazing was gradually terminated at this site beginning in 1998, providing an opportunity to initiate artichoke thistle control on approximately 100 acres. In 1998, TNC established five monitoring plots within the 100-acre treatment area; in 2001, an additional plot (Bommer 6) was established. Results from each monitoring plot are discussed separately below.

In past years, Bommer Canyon has been sprayed with Roundup Pro with Telar, with the exception of Bommer 6, which was initially sprayed with Transline with Telar in 2001. In 2002, all of Bommer Canyon was sprayed with Transline with Telar because of the time of year treatment was conducted (February) and/or because of the presence of native grasses. A total of 203 acres were treated in Bommer Canyon in 2001; 312 acres in 2002.

Bommer Canyon 1

Prior to initial treatment in 1998, artichoke thistle was the dominant species in this plot (Photos 5 and 6). Following the first year of control efforts with Roundup Pro with Telar, artichoke thistle cover decreased from 52 to three percent (a total decrease of 95 percent) (Table 3, Figure 12). Total thistle cover remained low after three years of treatment. In 2002, after four consecutive years of treatment, no artichoke thistle was observed within this plot. With the use of Telar, density of artichoke thistle seedlings and resprouts also declined after the initial treatment and remained low following the third year of spraying, dropping to zero after the fourth year of treatment (Figure 37a).

Other exotic species benefited from the reduction in thistle. Percent cover of exotic grasses and forbs has steadily increased since baseline data were collected in 1998 with overall cover doubling in the five-year period. Exotics included wild oats, ripgut brome, soft chess, English ryegrass, foxtail barley, foxtail fescue, bur-clover, common and prickly sow-thistle, curly dock, field bindweed, red-stemmed filaree, long-beaked filaree (*Erodium botrys*), white-stemmed filaree (*E. moschatum*), and wild radish (*Raphanus sativus*). In 2002, wild oats and ripgut brome dominated this site.

A less than one percent increase in native cover was observed over the five-year period with finger-leaved morning glory (*Calystegia macrostegia*), doveweed (*Eremocarpus setiger*), and narrow-leaved milkweed (*Asclepias fascicularis*) as the only natives documented. No natives were observed in 2001 or 2002.

Before any treatment, bare ground / rock cover was zero percent, but accounted for 14 percent of the plot after the first treatment. By 2000, 2001 and 2002, bare ground / rock cover returned to zero percent – once other exotic species became established in the areas artichoke thistle previously occupied. Percent cover of litter was highest in 1999 after the initial kill of artichoke thistle in 1998. Cover of litter has decreased over the last several years with the reduction in thistle cover and the increase in exotic grass cover.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	Baseline data before initial treatment	1.80 (0-7 seedlings & resprouts/m ²)	51.6%	0.0%	48.4%	0.0%*	0.0%*
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.16 (0-2 seedlings & resprouts/m ²)	2.5%	0.6%	57.1%	13.7%*	26.1%
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	0.40 (0-5 seedlings & resprouts/m ²)	3.8%	0.3%	80.2%	0.6%	15.1%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.12 (0-3 seedlings & resprouts/m ²)	0.8%	0.0%	97.4%	0.0%	1.8%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.0 (0 seedlings & resprouts/m ²)	0.0%	0.0%	93.6%	0.5%	5.9%

Table 3. Bommer Canyon 1

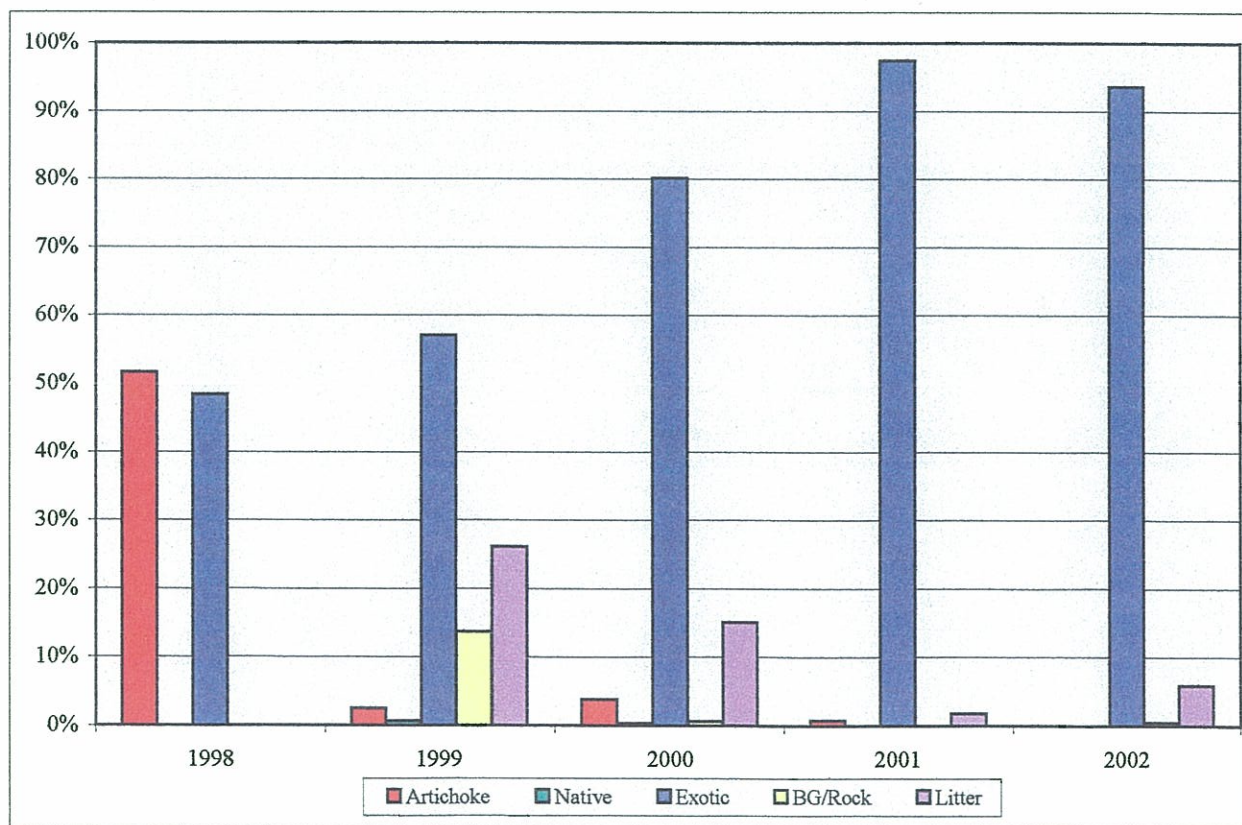


Figure 12. Bommer Canyon 1



PHOTO 5. Bommer Plot 1: Pre-treatment 1998

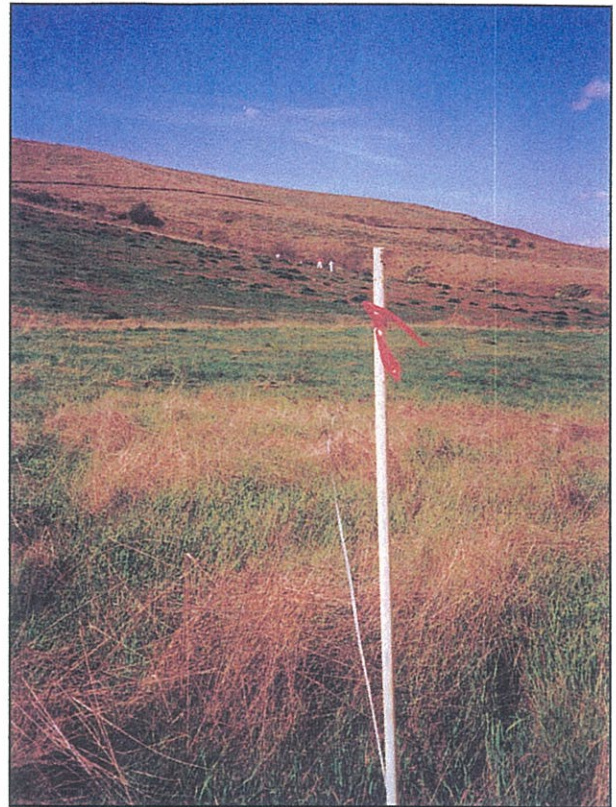


PHOTO 6. Bommer Plot 1: Post-treatment 2002

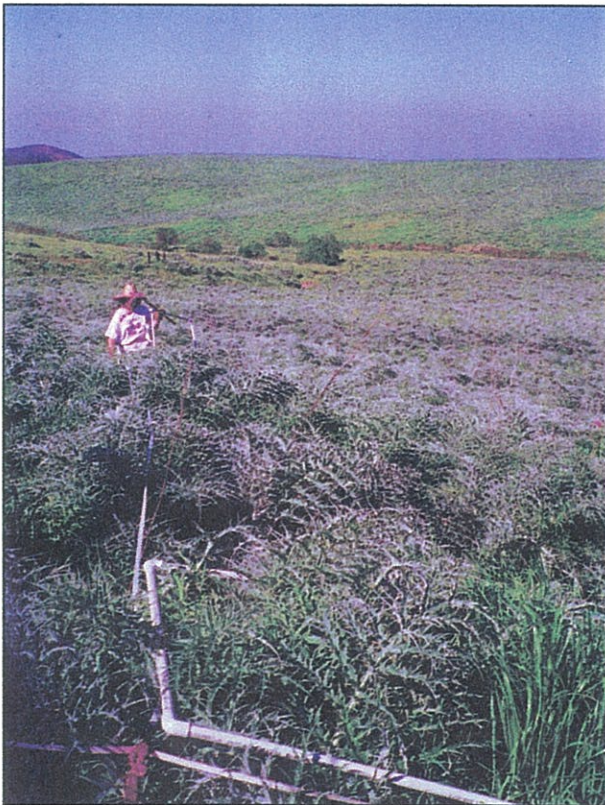


PHOTO 7. Bommer Plot 2: Pre-treatment 1998



PHOTO 8. Bommer Plot 2: Post-treatment 2002

Bommer Canyon 2

Thistle and other exotic species dominated Bommer Canyon 2 before initial spraying in 1998 (Photos 7 and 8). A 94 percent reduction in thistle cover was documented after the first treatment (Table 4, Figure 13). Thistle recovered following the second year of treatment (an increase from four to 36 percent). This plot may have been sprayed before the majority of artichoke thistle resprouted or germinated for that spring, and if spraying efforts were conducted too early, there would be little effect on artichoke thistle, as the data demonstrate. Cattle also may have been a factor in this recovery - approximately 40 head of cattle were temporarily held at this location during late spring of 1999. Not only do cattle consume and control the growth of grasses (leaving space for artichoke thistle to grow), but their presence also promotes soil disturbance, which may benefit thistle (as well as other exotic species). Following the second year of treatment, artichoke density rebounded but remained relatively low (Table 4, Figure 37a). Overall, artichoke thistle has been reduced from 64 percent before treatment to two percent in 2002 (an overall decrease of 97 percent); density has been reduced by 99 percent.

Over the past five years, exotic species documented in this site included ripgut brome, soft chess, wild oats, foxtail barley, black mustard, common and prickly sow-thistle, and several filaree species. In 2002, foxtail fescue, red brome, bur-clover, peppergrass (*Lepidium* spp.), and hairy cat's ear (*Hypochaeris radicata*) were documented in the plot area.

No native species were observed pre- or post-treatment until 2001; horseweed (*Conyza canadensis*), a weedy native, was documented in 2001, and in 2002, common fiddleneck (*Amsinckia menziesii* var. *intermedia*), fascicled tarweed (*Hemizonia fasciculata*), and popcorn flower (*Plagiobothrys* spp.) were observed. Because this area contained no native cover to recolonize the site after the elimination of artichoke thistle, it was selected to receive additional restoration treatments to enhance the habitat quality. In October 2001, native grassland topsoil material was salvaged from the Shady Canyon development area (Planning Area 22). The majority of this topsoil material was

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	Baseline data before initial treatment	6.28 (0-25 seedlings & resprouts/m ²)	64.0%	0.0%	36.0%*	0.0%*	0.0%*
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.28 (0-2 seedlings & resprouts/m ²)	3.9%	0.0%	3.5%	6.8%	85.8%
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	0.84 (0-3 seedlings & resprouts/m ²)	35.9%	0.0%	37.8%	10.2%*	16.1%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.76 (0-4 seedlings & resprouts/m ²)	10.2%	0.5%	50.8%	15.2%	23.3%
2002	Data after 2001 treatment and native topsoiling (2.67 oz/g Roundup Pro w/Telar)	0.08 (0-2 seedlings & resprouts/m ²)	2.0%	1.4%	41.1%	54.8%	0.6%

Table 4. Bommer Canyon 2

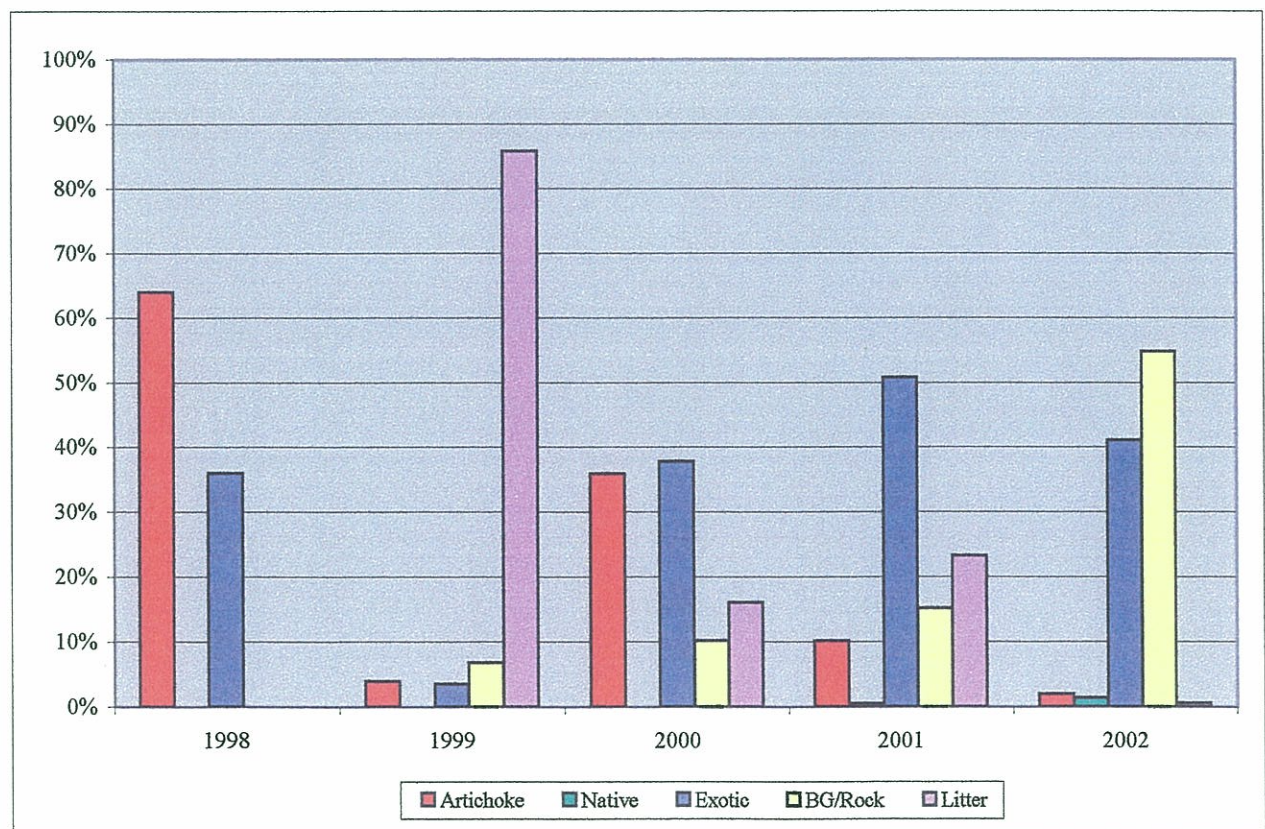


Figure 13. Bommer Canyon 2

relocated to a degraded area within Bommer Canyon. Bommer 2 was located within this site, which may explain the presence of native species in 2002. In preparation to receive the salvaged topsoil, this site was mowed and scarified. A layer (two to three inches deep) of topsoil material was spread within this two-acre site. As a result of this project, percent cover of bare ground / rock was significantly higher (an increase of 260 percent) and percent cover of litter was almost zero in 2002.

Bommer Canyon 3

Artichoke thistle has been all but eliminated from this plot following four years of treatment (Photos 9 and 10). No seedlings or resprouts were present in the sampled quadrats in 1999, 2000, 2001 or 2002 (Table 5, Figure 37a). Percent cover of thistle was reduced from 69.0 to 0.2 percent (a decrease of 99.7 percent) following the first spraying effort and remained almost zero following the second and third treatments (Table 5, Figure 14). In 2002, after the fourth consecutive year of treatment, there were no artichoke seedlings or resprouts within the monitoring plot and percent cover was zero percent.

Other exotic species including, ripgut brome, soft chess, red brome, wild oats, foxtail barley, English ryegrass, field bindweed, bur-clover, white-stemmed filaree, and common sow-thistle, have steadily increased in cover from 31 to 95 percent (a 207 percent increase) by 2002. In 2002, only wild oats and ripgut brome were observed.

Native cover has remained low (one percent or less) throughout the monitoring period. Before treatment in 1998, no native plant species were documented. There was one occurrence each of finger-leaved morning glory, calabazilla (*Cucurbita foetidissima*), and doveweed in 1999, 2000, and 2001, respectively. No natives were documented in 2002.

Cover of bare ground / rock was zero percent prior to treatment, increased after the first spray and was negligible following the second, third, and fourth treatments - once exotic grasses became established in the bare areas. Percent cover of litter increased from zero pre-treatment to 43 percent

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	Baseline data before initial treatment	2.16 (0-8 seedlings & resprouts/m ²)	69.0%	0.0%	31.0%*	0.0%*	0.0%*
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.00 (0 seedlings & resprouts/m ²)	0.2%	0.1%	46.9%	10.7%*	42.5%
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	0.00 (0 seedlings & resprouts/m ²)	1.0%	1.2%	76.2%	0.2%*	21.4%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.08 (0 seedlings & resprouts/m ²)	0.1%	0.1%	93.3%	0.7%	5.8%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.00 (0 seedlings & resprouts/m ²)	0.0%	0.0%	94.8%	0.0%	5.2%

Table 5. Bommer Canyon 3

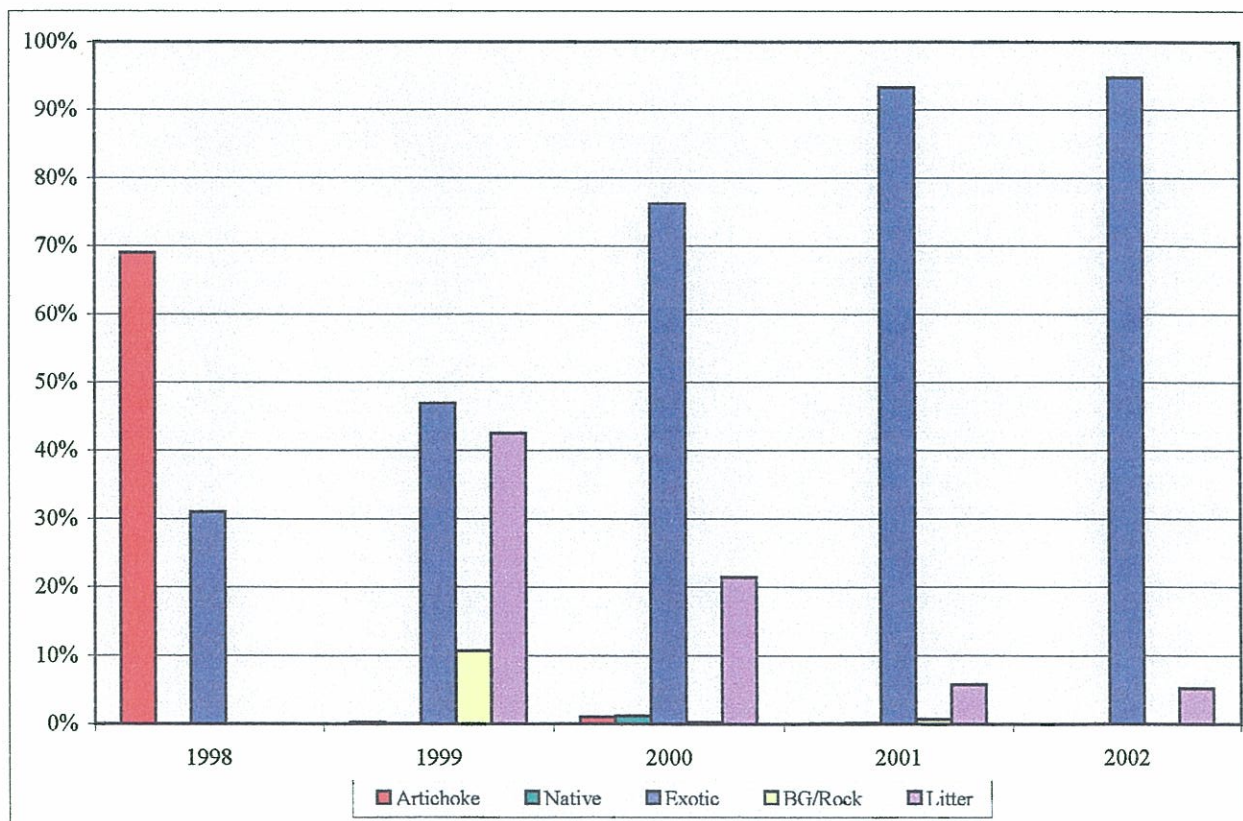


Figure 14. Bommer Canyon 3

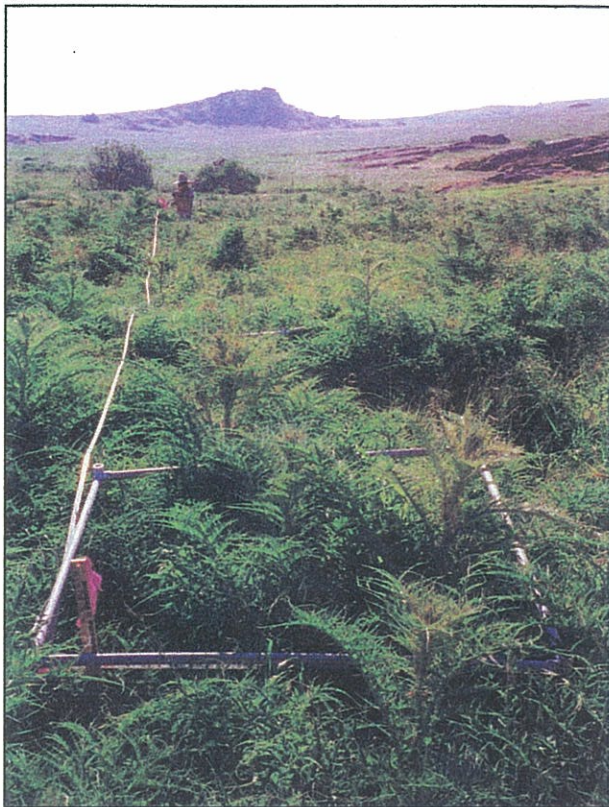


PHOTO 9. Bommer Plot 3: Pre-treatment 1998

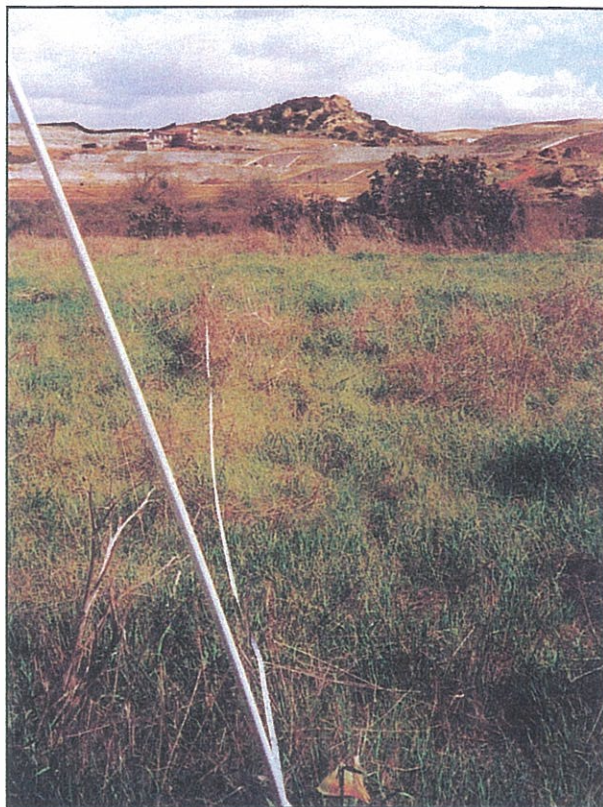


PHOTO 10. Bommer Plot 3: Post-treatment 2002

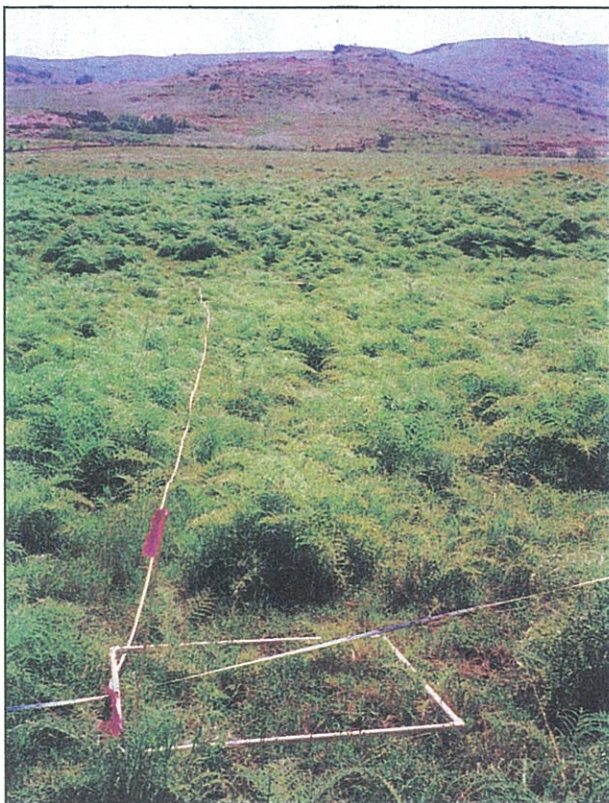


PHOTO 11. Bommer Plot 4: Pre-treatment 1998



PHOTO 12. Bommer Plot 4: Post-treatment 2002

post-treatment 1999. Cover of litter was lower after 2000 since the majority of artichoke had been killed the first year.

Bommer Canyon 4

As shown in Photos 11 and 12, artichoke thistle has been almost eradicated from the Bommer Canyon 4 monitoring plot. Both density and percent cover of thistle declined considerably after the initial treatment with Roundup Pro in 1998 (Table 6, Figures 15 and 37a). Density decreased 91 percent and cover decreased 95 percent after the first treatment. After four years of treatment, cover of artichoke thistle has been reduced by 96 percent and density has declined 96 percent.

Dominant exotic species documented throughout the monitoring period included ripgut brome, soft chess, wild oats, English ryegrass, purple false brome, foxtail fescue, black mustard, prickly and common sow-thistle, prickly lettuce, field bindweed, filaree species, and bur-clover. Although percent cover of exotics has increased over time, the majority of exotic annuals disappeared following the first year of treatment. Only the hardiest grasses and forbs were present in the plot following the 1999 treatment and every year thereafter.

Two natives were documented in the baseline data – California chicory (*Rafinesquia californica*) and silver puffs (*Microseris lindleyi*), but native cover has remained zero percent following four years of treatment. No natives were documented in 2002.

Cover of bare ground / rock was zero prior to spraying, increased to 11 percent following the first treatment, and by 2000, exotics invaded all bare areas, leaving little bare ground / rock cover. The cover of litter increased to 30 percent following initial spraying but declined every year thereafter, as most artichoke had been eliminated from the plot the previous year.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	Baseline data before initial treatment	7.84 (2-15 seedlings & resprouts/m ²)	54.2%	0.1%	45.7%*	0.0%*	0.0%*
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.68 (0-3 seedlings & resprouts/m ²)	2.8%	0.0%	56.7%	10.9%*	29.6%
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	0.68 (0-6 seedlings & resprouts/m ²)	8.3%	0.0%	72.2%	0.7%*	18.8%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.20 (0-2 seedlings & resprouts/m ²)	3.4%	0.0%	77.0%	1.4%	18.2%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.32 (0-2 seedlings & resprouts/m ²)	2.2%	0.0%	82.8%	2.2%	12.8%

Table 6. Bommer Canyon 4

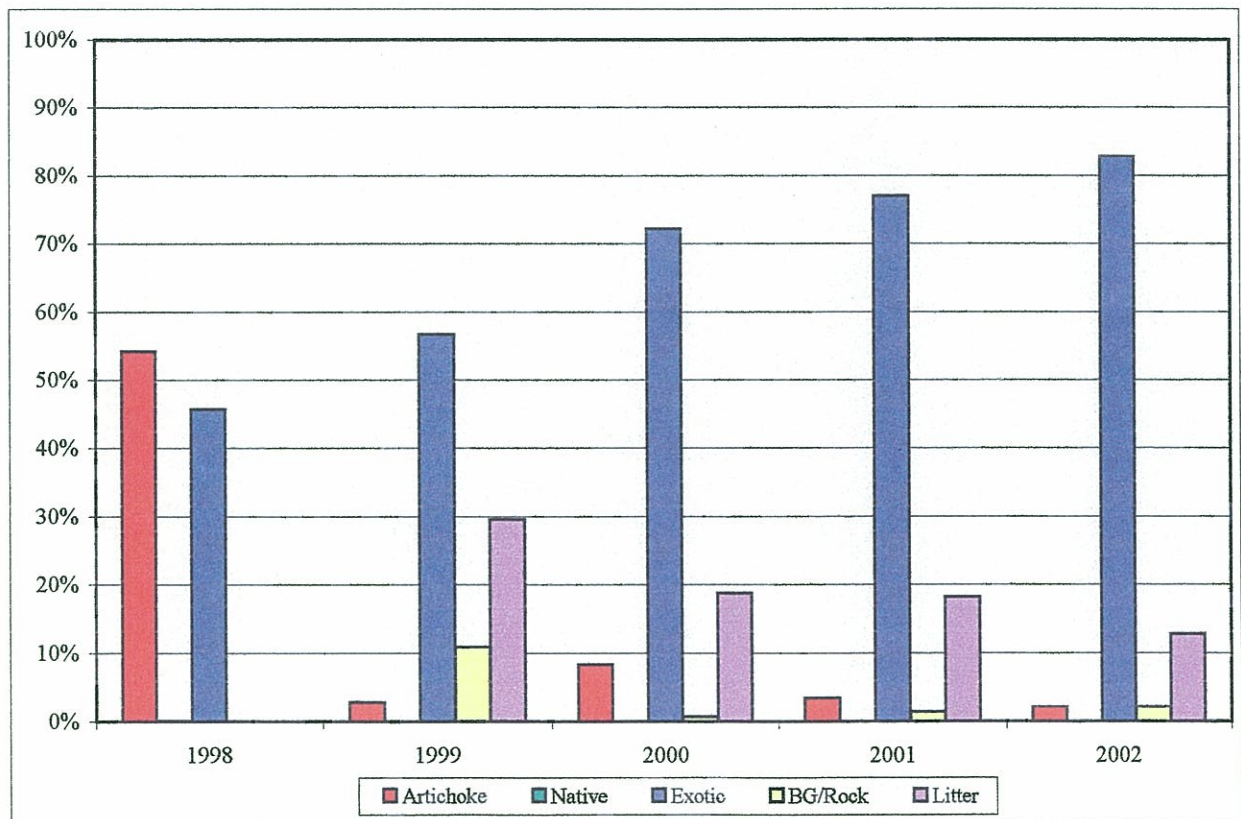


Figure 15. Bommer Canyon 4

Bommer Canyon 5

Before treatment in 1998, each quadrat sampled contained an average of 50 percent cover of artichoke thistle (Photos 13 and 14). After the initial treatment, almost 100 percent of the artichoke thistle was eliminated from this plot, however, data collected in 2000, showed an increase from 0.4 to 36 percent in thistle cover (Table 7, Figure 16). As with Bommer Canyon Plot 2, premature treatment or presence of cattle may have been a factor in the recovery of artichoke thistle. Despite the increase in thistle cover after the second treatment, artichoke thistle cover was reduced to four percent after four years of control.

Other exotic cover, mostly European grasses, followed a similar pattern to that of the artichoke thistle. There was 50 percent cover by exotics (other than thistle) in each quadrat in 1998. When sampled in 1999 after the first treatment, percent cover was only three percent. In 2000, exotic cover increased to 37 percent but dropped again in 2001 to 11 percent. In 2002, exotic plant cover was 17 percent. In addition to the exotic annual grasses, black mustard, sow-thistle, and red-stemmed filaree were documented in 2002.

No native species were observed in 1998 or 1999, but following the second year of treatment, calabazilla was documented. One occurrence of the native, but weedy, horseweed was observed in 2001. In 2002, only one single native plant, arroyo lupine, was observed.

Bommer 5 is located within the topsoil relocation site. As with Bommer 2, this site was mowed and scarified in preparation for topsoil material salvaged from the Shady Canyon development area. Consequently, percent cover of bare ground / rock increased by 111 percent and percent cover of litter decreased by 88 percent in 2002.

Bommer Canyon 6

Bommer Canyon 6 was established as a new monitoring plot in 2001 (Photos 15 and 16). Baseline data were collected before treatment in 2001, and, as shown in Table 8 and Figure 17,

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	Baseline data before initial treatment	7.80 (2-24 seedlings & resprouts/m ²)	50.2%	0.0%	49.8%*	0.0%*	0.0%*
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.24 (0-4 seedlings & resprouts/m ²)	0.4%	0.0%	3.1%	23.4%	73.0%
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	1.12 (0-3 seedlings & resprouts/m ²)	35.6%	1.1%	37.3%	9.2%*	16.8%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.48 (0-2 seedlings & resprouts/m ²)	3.0%	0.2%	10.6%	34.1%	52.1%
2002	Data after 2001 treatment and native topsoiling (2.67 oz/g Roundup Pro w/Telar)	3.32 (0-12 seedlings & resprouts/m ²)	4.4%	0.04%	17.0%	72.2%	6.3%

Table 7. Bommer Canyon 5

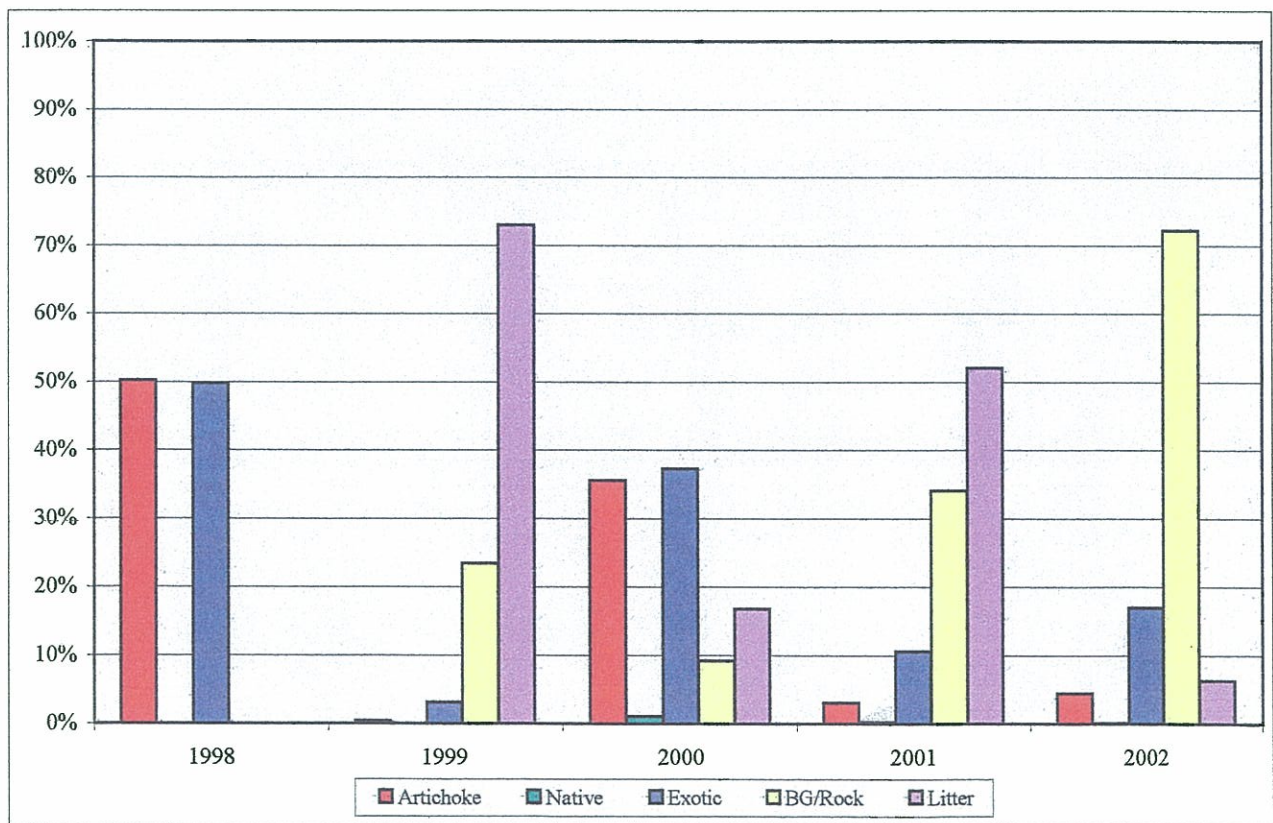


Figure 16. Bommer Canyon 5

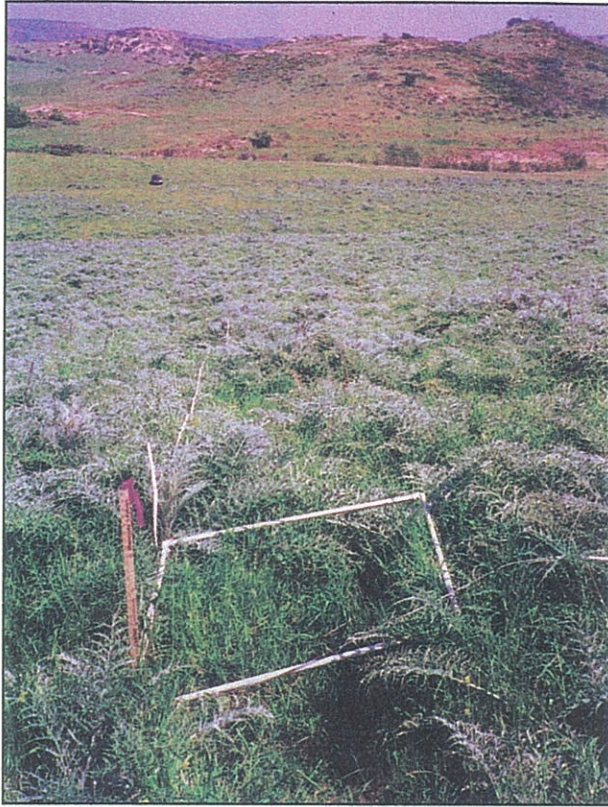


PHOTO 13. Bommer Plot 5: Pre-treatment 1998



PHOTO 14. Bommer Plot 5: Post-treatment 2002

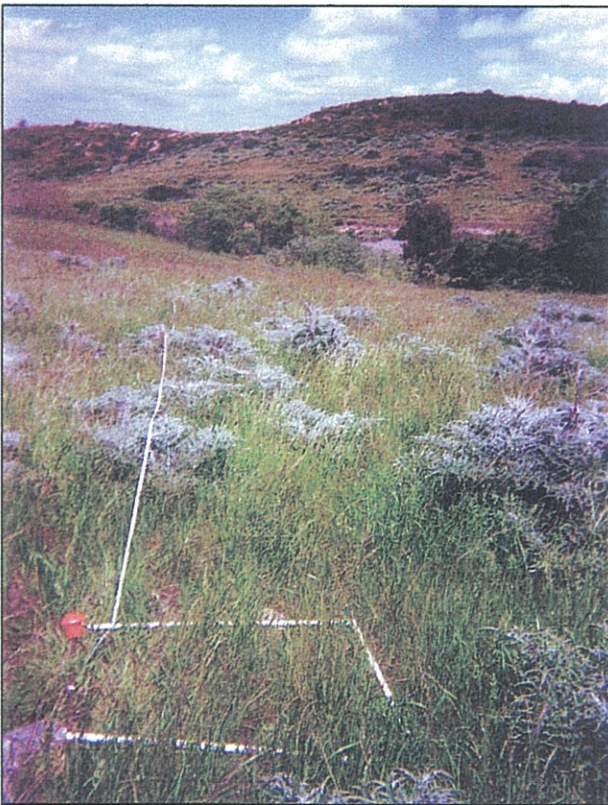


PHOTO 15. Bommer Plot 6: Pre-treatment 2001



PHOTO 16. Bommer Plot 6: Post-treatment 2002

artichoke thistle (27 percent) and other exotic cover (55 percent) dominated this plot. Because of the presence of native grass and bulb species at this site, the herbicide Transline was selected for spraying efforts. Following the first year of treatment, artichoke thistle decreased from 27 to 0.2 percent, a 99 percent decrease. Density of seedlings and resprouts dropped from 1.04 to 0.04 after one year of treatment.

Exotics other than artichoke thistle observed in Bommer Canyon 6 in 2001 included English ryegrass, ripgut brome, foxtail fescue, soft chess, wild oats, long-beaked filaree, black mustard, and prickly sow-thistle. In 2002, only English ryegrass and ripgut brome were observed. Exotic cover increased from 55 to 66 percent one year after initial treatment.

Unlike the other Bommer Canyon plots, native species occupied nine percent of Bommer Canyon 6 before treatment in 2001. In 2002, native cover increased slightly to 11 percent (a 13 percent increase). Purple needlegrass, and two bulb species, common golden stars (*Bloomeria crocea*) and blue dicks were documented at this site in both 2001 and 2002.

Bare ground / rock remained relatively unchanged, while cover of litter increased from five to 22 percent, an increase of 340 percent. The majority of the litter documented in 2002 was comprised of dead artichoke thistle.

Bonita Ridge

Similar to Bommer Canyon, Bonita Ridge was historically grazed and the majority of this area was heavily infested by artichoke thistle. Mixed grasslands (native and exotic grasses) and large pockets of CSS dominate Bonita Ridge. Despite the abundance of artichoke thistle, native species are still present throughout this area. Common grassland natives observed included purple needlegrass, common golden stars, blue dicks, arroyo lupine, gumplant (*Grindelia camporum*), California blue-eyed grass (*Sisyrinchium bellum*), Padre's shooting star (*Dodecatheon clevelandii*), coastal paintbrush (*Castilleja affinis*) and California buttercup (*Ranunculus californicus*). Common CSS natives

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	1.04 (0-4 seedlings & resprouts/m ²)	27.4%	9.4%	55.3%	2.8%	5.1%
2002	Data after 2001 treatment (0.32oz/g Transline w/Telar)	0.04 (0-1 seedlings & resprouts/m ²)	0.2%	10.6%	66.3%	0.8%	22.1%

Table 8. Bommer Canyon 6

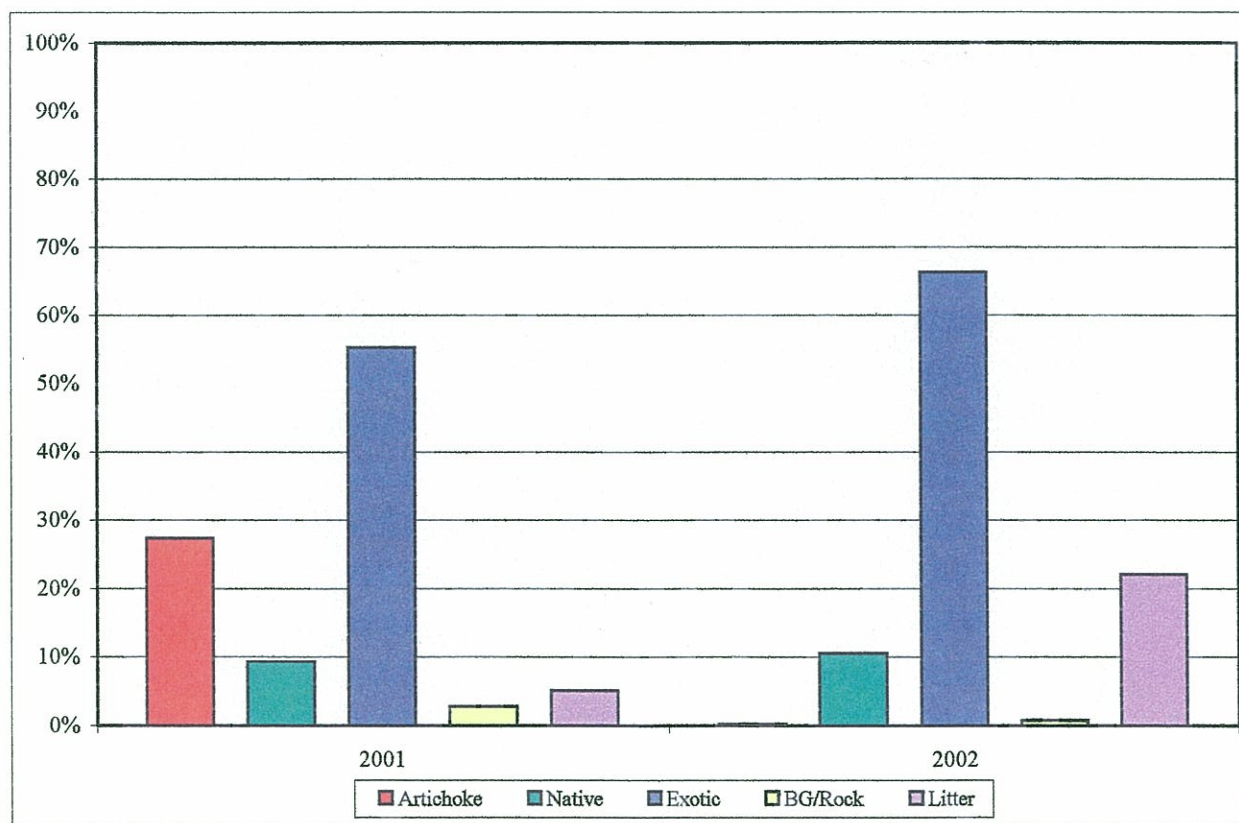


Figure 17. Bommer Canyon 6

included bush monkey flower (*Mimulus aurantiacus*), coastal sagebrush (*Artemisia californica*), California buckwheat (*Eriogonum fasciculatum*), coastal prickly pear (*Opuntia littoralis*), and coastal goldenbush (*Isocoma menziesii*).

Three monitoring plots were established in 2001 to document baseline cover of artichoke thistle, as well as native cover, before spraying efforts were initiated. A solution of Transline and Telar was used to treat this entire area in both 2001 and 2002. In 2001, a spray rig was used to spray herbicide in areas with little or no native cover. All other areas were sprayed by hand with backpack sprayers. In 2002, all areas were sprayed by hand with backpack sprayer. To prevent accidental spray of native species, artichoke thistle growing among native shrubs were pushed down and sprayed away from the natives. Approximately 64 acres were treated at the Bonita Ridge site in 2001; 90 acres were sprayed in 2002. Results from each monitoring plot are discussed separately below.

Bonita 1

Artichoke thistle accounted for 19 percent of total relative cover with a density of zero to four seedlings or resprouts per quadrat (Table 9, Figure 18) prior to initial treatment in 2001. Following treatment in 2001, artichoke thistle cover declined from 19 to three percent (an 88 percent decrease). Density of thistle decreased from 1.20 to 0.68 following initial treatment in 2001.

Additional exotic species observed at this plot were English ryegrass, wild oats ripgut brome, soft chess, purple false brome, long-beaked filaree, black and summer mustard, smooth cat's ear, prickly sow-thistle, and bur-clover. These species accounted for 35 percent total relative cover before initial treatment. Exotic cover was documented at 51 percent one year following initial treatment.

Bonita 1, was dominated by native grassland species (44 percent cover) in 2001 including (in decreasing order of cover) California blue-eyed grass, common golden stars, arroyo lupine, gumplant, purple needlegrass, California buttercup, coastal sagebrush, sharp tooth sanicle (*Sanicula arguta*), California hedge-nettle (*Stachys bullata*), blue dicks, alkali lotus (*Lotus salsuginosus*), bush monkey

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	1.20 (0-4 seedlings & resprouts/m ²)	18.7%	44.2%	34.8%	0.0%	0.0%
2002	Treated in 2001 (0.32oz/g Transline w/Telar)	0.68 (0-3 seedlings & resprouts/m ²)	2.3%	28.2%	50.8%	2.4%	16.3%

Table 9. Bonita 1

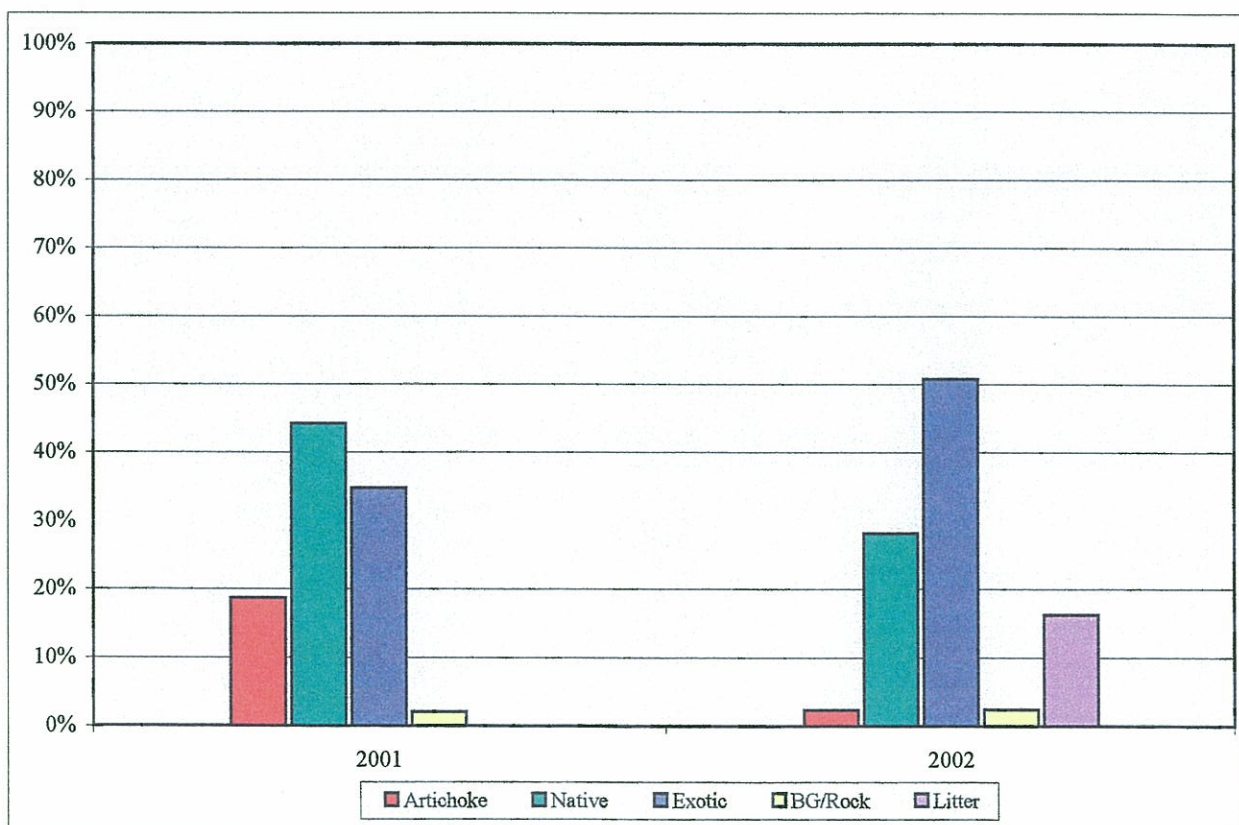


Figure 18. Bonita 1

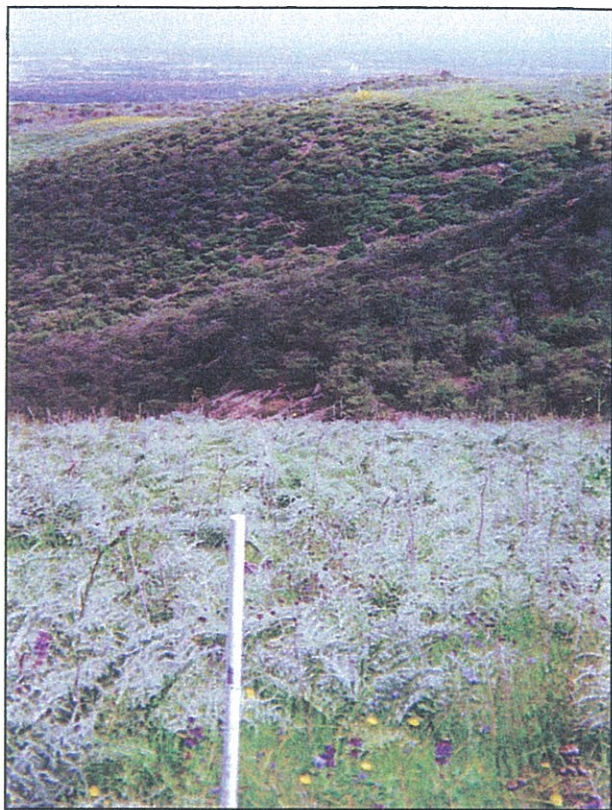


PHOTO 17. Bonita Plot 1: Pre-treatment 2001



PHOTO 18. Bonita Plot 1: Post-treatment 2002



PHOTO 19. Bonita Plot 2: Pre-treatment 2001



PHOTO 20. Bonita Plot 2: Post-treatment 2002

flower, rattlesnake weed (*Daucus pusillus*), San Diego bedstraw (*Galium nuttallii*), and California everlasting (*Gnaphalium californicum*) (Photos 17 and 18). The same species were documented again in 2002, following initial treatment efforts. Native cover declined from 44 percent in 2001 to 28 percent in 2002. Because monitoring was conducted six weeks earlier in 2002 to accommodate for the use of Transline, many of the native annual species were smaller than they were when documented in 2001, explaining the “decline” in native cover at this site.

Bare ground / rock cover increased slightly from zero to two percent following initial treatment. Cover of litter increased from zero to 16 percent.

Bonita 2

As shown in Table 10 and Figure 19, Bonita 2 had a high percentage of native species despite the abundance of artichoke thistle and other exotics prior to treatment in 2001. Baseline data show artichoke thistle occupied 26 percent of the plot (Photos 19 and 20). Following one year of treatment, cover of artichoke thistle declined 91 percent. Density of artichoke thistle was documented at 1.32 (zero to four seedlings or resprouts per quadrat) in 2001. In 2002, density of artichoke decreased to 0.28 (zero to two seedlings or resprouts per quadrat).

The two dominant exotic species in this plot were purple false brome and soft chess. Exotic cover was documented at 47 percent before initial treatment. In 2002, exotic plant cover was documented at 51 percent (a seven percent increase). Species documented in 2002 included purple false brome, soft chess, ripgut brome, wild oats, sow-thistle, and smooth cat's ear.

Baseline presence of native species, documented at 27 percent, included purple needlegrass, California blue-eyed grass, gumplant, common golden stars, arroyo lupine, and California hedge-nettle (in decreasing order of cover). In 2002, native cover increased three percent. The same species documented in 2001 were observed again in 2002.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	1.32 (0-4 seedlings & resprouts/m ²)	25.5%	27.3%	47.2%	0.0%	0.0%
2002	Treated in 2001 (0.32oz/g Transline w/Telar)	0.28 (0-2 seedlings & resprouts/m ²)	2.3%	28.2%	50.8%	2.4%	16.3%

Table 10. Bonita 2

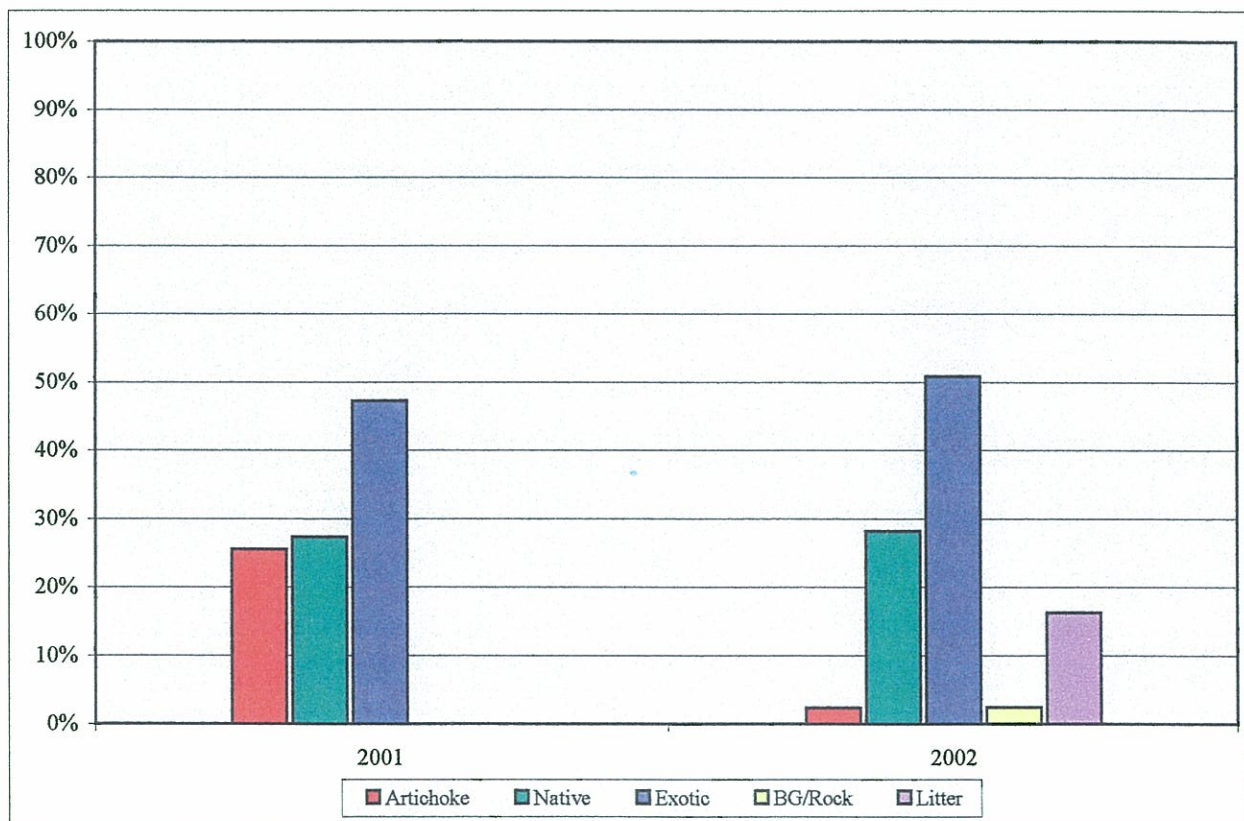


Figure 19. Bonita 2

Both bare ground / rock and litter were documented at zero percent cover in 2001 prior to treatment. In 2002, bare ground / rock cover slightly to two percent. With the reduction in thistle, however, the percent cover of litter increased from zero percent in 2001 to 16 percent in 2002.

Bonita 3

Baseline data show that artichoke thistle cover and density at Bonita 3 is higher than at the other Bonita monitoring plots (Photos 21 and 22). In 2001, artichoke thistle cover accounted for 36 percent of the plot and density was 3.92 (zero to seven seedlings or resprouts / quadrat) (Table 11, Figure 20). In 2002, after one year of control efforts, artichoke thistle cover decreased from 36 to three percent (a 92 percent decrease) and density decreased to 0.08 (a 98 percent decrease).

Exotic annuals, such as purple false brome, ripgut brome, soft chess, English ryegrass, wild oats, black mustard, prickly sow-thistle, and bur-clover dominated this monitoring plot in 2001 and 2002. Percent cover of exotic species increased from 42 to 57 percent (a 34 percent increase) following the first year of treatment.

Native cover is lower at this plot than at Bonita 1 and 2. However, following initial treatment, native cover increased six percent. In 2001 and 2002, natives documented included arroyo lupine, California blue-eyed grass, purple needlegrass, California buttercup, California hedge-nettle, and virgate sand aster. In 2002, big gumplant was also observed.

Cover of rock and bare ground has remained relatively unchanged, however, percent cover of litter increased from nine to 26 percent after one year of treatment at this site.

Shady Spur

The Shady Spur plots are located within the watershed of Shady Canyon. Portions of Shady Canyon have been heavily infested by artichoke thistle. Despite the presence and high infestation of artichoke thistle in some areas in Shady Canyon, remnant native grasses and other grassland species

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	3.92 (0-7 seedlings & resprouts/m ²)	36.3%	11.5%	42.2%	1.2%	8.8%
2002	Data after 2001 treatment (0.32oz/g Transline w/Telar)	0.08 (0-4 seedlings & resprouts/m ²)	2.8%	12.2%	56.7%	2.6%	25.7%

Table 11. Bonita 3

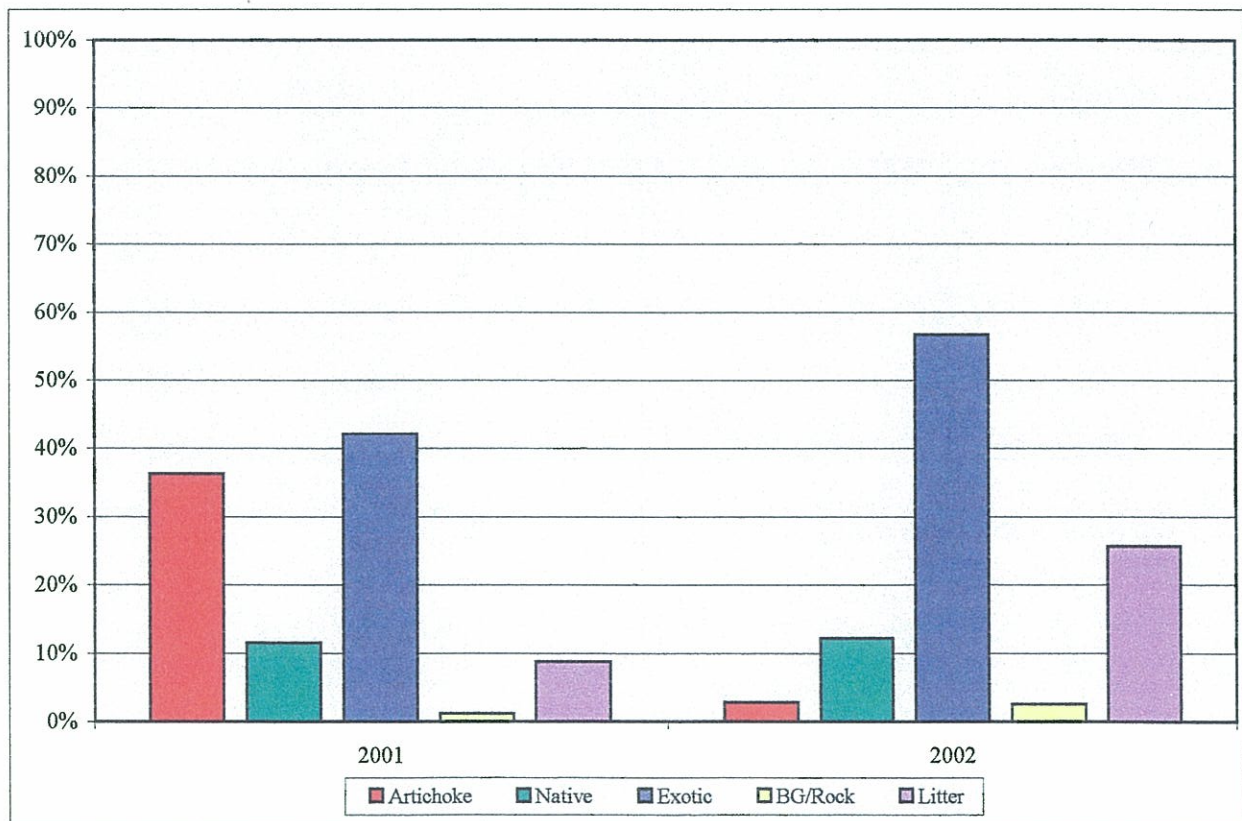


Figure 20. Bonita 3



PHOTO 21. Bonita Plot 3: Pre-treatment 2001



PHOTO 22. Bonita Plot 3: Post-treatment 2002

remain. Common grassland natives observed included purple needlegrass, common golden stars, blue dicks, gumplant, California blue-eyed grass, and California buttercup. A total of 123 acres were treated in Shady Canyon in 2001 and 2002.

Shady Spur 1

Before initial treatment in spring 1997, artichoke thistle dominated this site (Photos 23 and 24, Table 12). Following the first year of treatment, there was a 97 percent decrease (from 78 to three percent) in cover of thistle. No treatment was conducted in 1998 and artichoke cover increased from three to 24 percent. However, because the pre-emergent Telar was in the herbicide mix the first year, the density of thistle decreased despite the increase in cover (Table 12, Figure 37a). After treatment in 1999, cover of artichoke thistle dropped to five percent, and, after additional treatments in 2000 and 2001, percent cover of thistle was two percent. Density of thistle has continued to decline since initial treatment in 1997 – an overall decline in density of 99 percent (6.04 to 0.08).

Cover of exotic species included wild oats, soft chess, ripgut brome, foxtail fescue, tocalote, common and prickly sow-thistle, and black and summer mustard. Percentage of exotic cover increased by almost 100 percent from annually with an overall increase of 19 to 80 percent over the study period, replacing the eradicated artichoke thistle.

Natives identified over the study period included California everlasting, bicolored cudweed (*Gnaphalium bicolor*), purple needlegrass, Mexican elderberry (*Sambucus mexicana*), blue dicks, California chicory, Douglas' nightshade (*Solanum douglasii*), common golden stars, horseweed, and coastal goldenbush. Native cover decreased after the first year of treatment but increased from 0.5 to 13 percent the second year (with no treatment). Following the 1999 treatment, native cover decreased to two percent. With less competition for resources, the reduction in artichoke thistle could benefit native species. However, at this site, when the cover of artichoke declined, so did the native cover. Possible explanations for the decrease in native plant cover include 1) some natives may have been

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	Baseline data before initial treatment	6.04 (1-11 seedlings & resprouts/m ²)	77.6%	3.1%	19.3%*	0.0%*	0.0%*
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	3.40 (0-15 seedlings & resprouts/m ²)	2.6%	0.5%	40.5%	9.1%	46.8%
1999	No treatment in 1998	1.08 (0-4 seedlings & resprouts/m ²)	23.9%	12.5%	63.4%	0.2%	0.0%
2000	Data after 1999 treatment (2.67 oz/g Roundup Pro w/Telar)	0.36 (0-2 seedlings & resprouts/m ²)	4.6%	2.3%	75.1%	0.2%	18.1%
2001	Data after 2000 treatment (2.67 oz/g Roundup Pro w/Telar)	0.24 (0-2 seedlings & resprouts/m ²)	2.4%	7.3%	83.5%	2.2%	4.5%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.08 (0-1 seedlings & resprouts/m ²)	2.2%	1.6%	80.4%	1.5%	14.3%

Table 12. Shady Spur 1

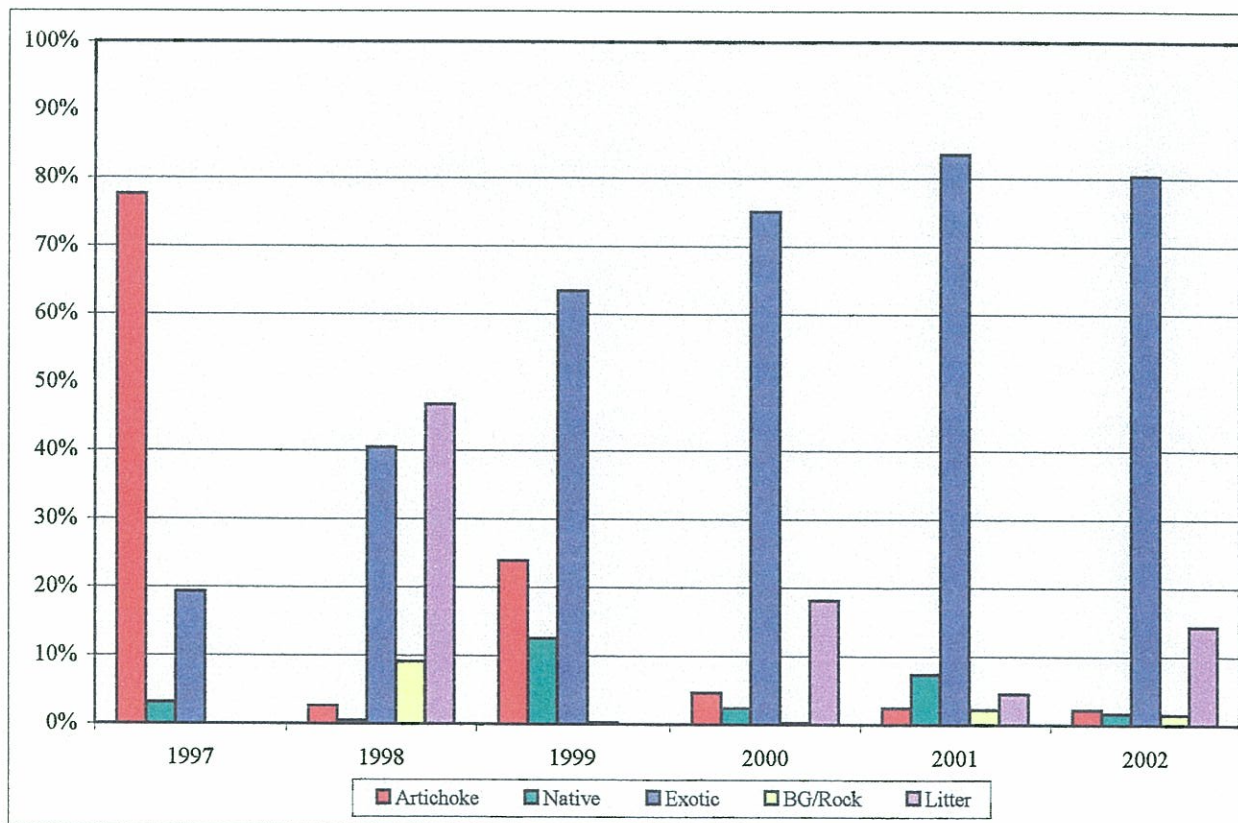


Figure 21. Shady Spur 1

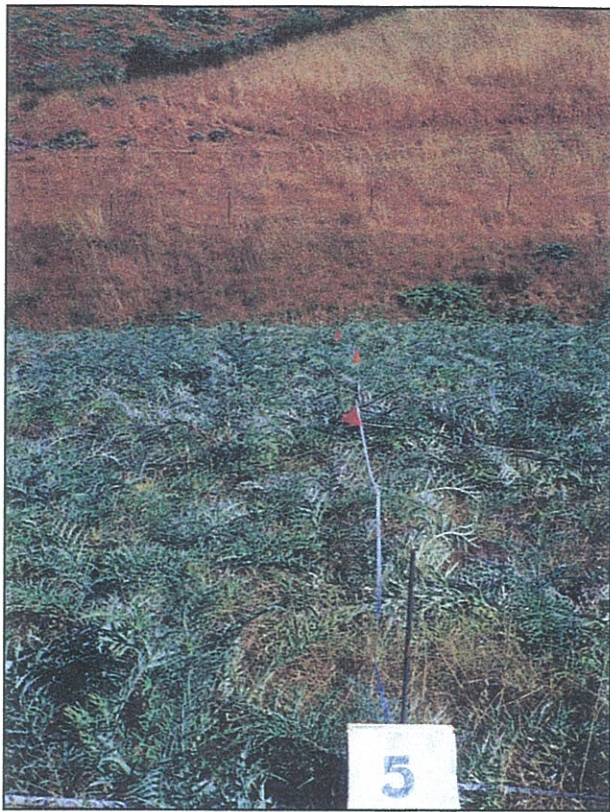


PHOTO 23. Shady Spur 1: Pre-treatment 1997



PHOTO 24. Shady Spur 1: Post-treatment 2002



PHOTO 25. Shady Spur 2: Pre-treatment 2002

accidentally sprayed with herbicide, 2) increased litter cover may have shaded out native species, or 3) monitoring transects / plots were placed inaccurately. After three years of treatment, native cover increased to seven percent and native diversity has slowly increased. Percent cover of natives declined in 2002 to two percent. Monitoring was conducted one month earlier than in 2001 to accommodate the use of Transline. Because monitoring was conducted earlier, fewer annual natives may have germinated by the time of the survey. Other new native species documented in the area, but not in the study plot included coastal sagebrush and mulefat (*Baccharis salicifolia*).

Cover of bare ground / rock increased to nine percent after the first treatment as a result of the reduction of thistle density, but, with no treatment in 1998, artichoke recovered and bare ground/rock cover decreased to almost zero. After treatments in 1999, 2000 and 2001, bare ground / rock cover remained low because of the consistent increase in exotic species cover. Percent cover of litter has fluctuated from year-to-year with an overall increase from zero percent in 1997 to 14 percent in 2002.

Shady Spur 2

In addition to areas that have been treated in the past, new areas in Shady Canyon were selected for treatment in 2002. Before initial treatment in spring 2002, TNC established a second monitoring station, Shady Spur 2, within Shady Canyon, located in a native grassland area infested with artichoke thistle (Photo 25). Baseline data was collected in February 2002. As shown in Table 13, artichoke thistle cover was documented at 18 percent and density at 6.08 (one to 20 seedlings or resprouts / m²).

Exotic cover was documented at 38 percent. Species observed include soft chess, foxtail fescue, wild oats, scarlet pimpernel, sow-thistle, tocalote, and black mustard. Soft chess and tocalote were the most abundant of the exotic species documented.

Numerous native species were observed at this site. Native cover was documented at 37 percent. Natives observed include (in order of abundance) purple needlegrass, saw-toothed

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	No data	No data	No data	No data	No data	No data	No data
2002	Baseline data before initial treatment	6.08 (1-20 seedlings & resprouts/m ²)	17.8%	37.8%	36.7%	3.6%	4.1%

Table 13. Shady Spur 2

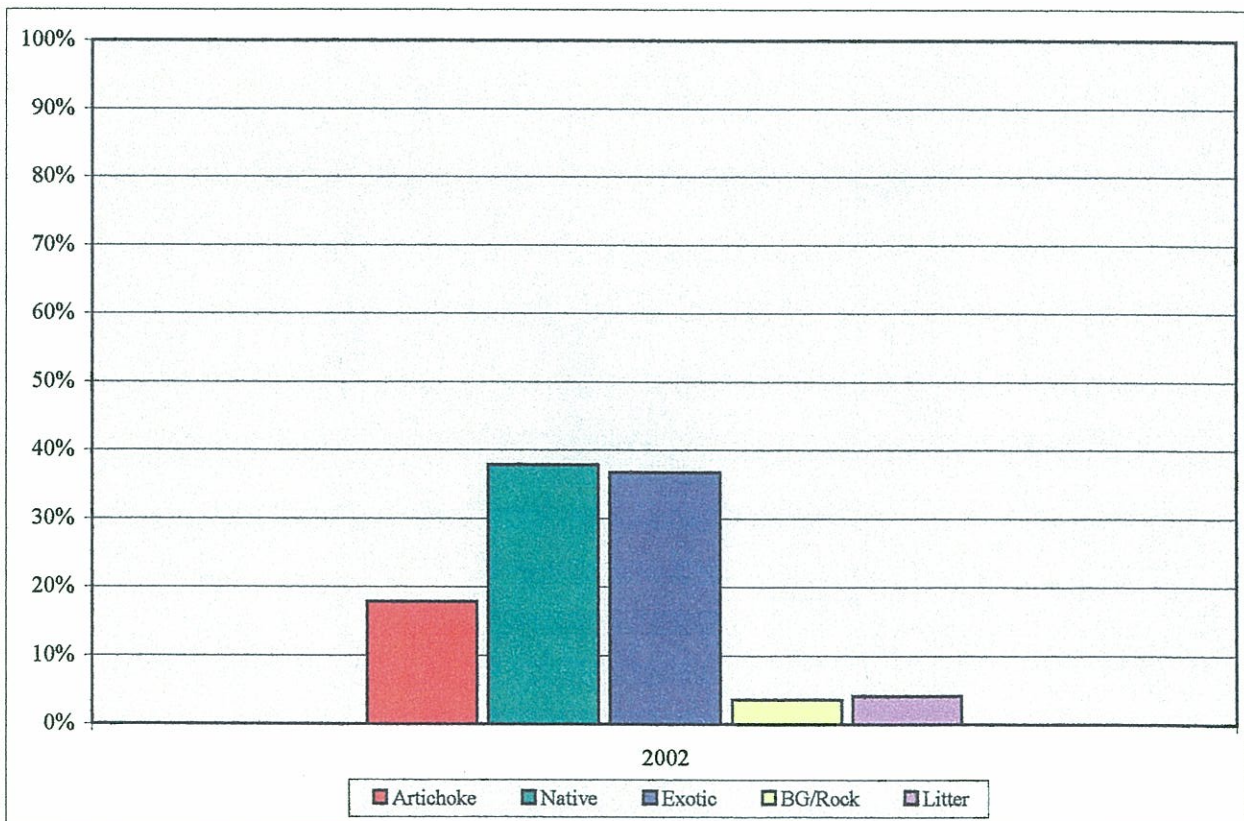


Figure 22. Shady Spur 2

goldenbush (*Hazardia squarrosa*), blue dicks, common golden stars, gumplant, California blue-eyed grass, California hedge-nettle common, arroyo lupine, California buttercup, moss, virgate sand aster, common bedstraw, and finger-leaved morning glory.

Bare ground and rock cover was documented at four percent; litter at four percent.

North Laguna

North Laguna monitoring sites (Plots 1 and 2) are located in mixed grassland (native and exotic grasses) bordered by CSS. The south side of the grassland area contains a high density of native grass. The north side is dominated more by annual exotic grasses with native grass scattered throughout. Common grassland natives observed were purple needlegrass, blue dicks, arroyo lupine, and virgate sand aster.

In 2001, two adjacent monitoring plots (North Laguna 1 and North Laguna 2) were established to compare the effectiveness of Roundup Pro vs. Transline on artichoke thistle. Both monitoring plots have similar site conditions - including slope, aspect, vegetation composition, and soil type. The south half (North Laguna 1) of this site was treated with Transline with Telar; the north half (North Laguna 2) was treated with Roundup Pro with Telar. After the first year of treatment, Transline appears to be more effective in reducing artichoke thistle compared to Roundup Pro (Photo 26). Each site was treated with its respective herbicide again in 2002 to determine the long-term effectiveness of each herbicide on thistle.

In 2002, a third monitoring station (North Laguna 3) was established in North Laguna Canyon. Baseline data was collected before treatment in 2002.

A total of 138 acres were treated in North Laguna Canyon in 2001; 250 acres in 2002. Results from each monitoring plot are discussed separately below.

North Laguna 1

Baseline data show artichoke thistle covered 38 percent of the plot with a density of 4.16 (Table 14, Figure 23). After the first year of treatment with Transline and Telar, artichoke thistle cover decreased from 38 to 0.1 percent (a total decrease of almost 100 percent). Density declined from 4.16 to 0.04 (a total decrease of 99 percent).

Other exotics (mostly soft chess) accounted for 38 percent of the cover at North Laguna 1 in 2001. Other exotics observed included black mustard, bur-clover, and prickly sow-thistle. In 2002, exotic cover increased from 38 to 50 percent (a total increase of 32 percent). Exotics observed in 2002 included wild oats, soft chess, and red brome.

In 2001, baseline native cover, mainly purple needlegrass, was documented at 16 percent cover. Blue dicks were observed scattered throughout the plot. In 2002, native cover dropped slightly from 16 to 14 percent cover. Because of the percentage of native grass cover in this plot, North Laguna 1 was treated with the herbicide Transline with Telar in both 2001 and 2002 (Photos 27 and 28).

Bare ground / rock percent cover remained low in 2001 and 2002 (0.2 to 0.3 percent). Percent cover of litter increased from eight percent to 36 percent following the first year of thistle control.

North Laguna 2

In 2001, cover of artichoke thistle at North Laguna 2 was documented at 31 percent with a density of 2.56 (Table 15, Figure 24). Following the first year of treatment in 2001, cover of artichoke thistle decreased from 31 to 11 percent (a total decrease of 65 percent). Density decreased from 2.56 to 0.44 (a total decrease of 83 percent).

Exotics documented in this plot in 2001 included only annual grasses - soft chess, purple false brome, wild oats, and ripgut brome. In 2002, smooth cat's ear, sow-thistle, and black mustard were

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	4.16 (1-8 seedlings & resprouts/m ²)	38.4%	16.0%	37.8%	0.2%	7.6%
2002	Data after 2001 treatment (0.32oz/g Transline w/Telar)	0.04 (0-1 seedlings & resprouts/m ²)	0.1%	13.9%	50.0%	0.3%	35.7%

Table 14. North Laguna 1

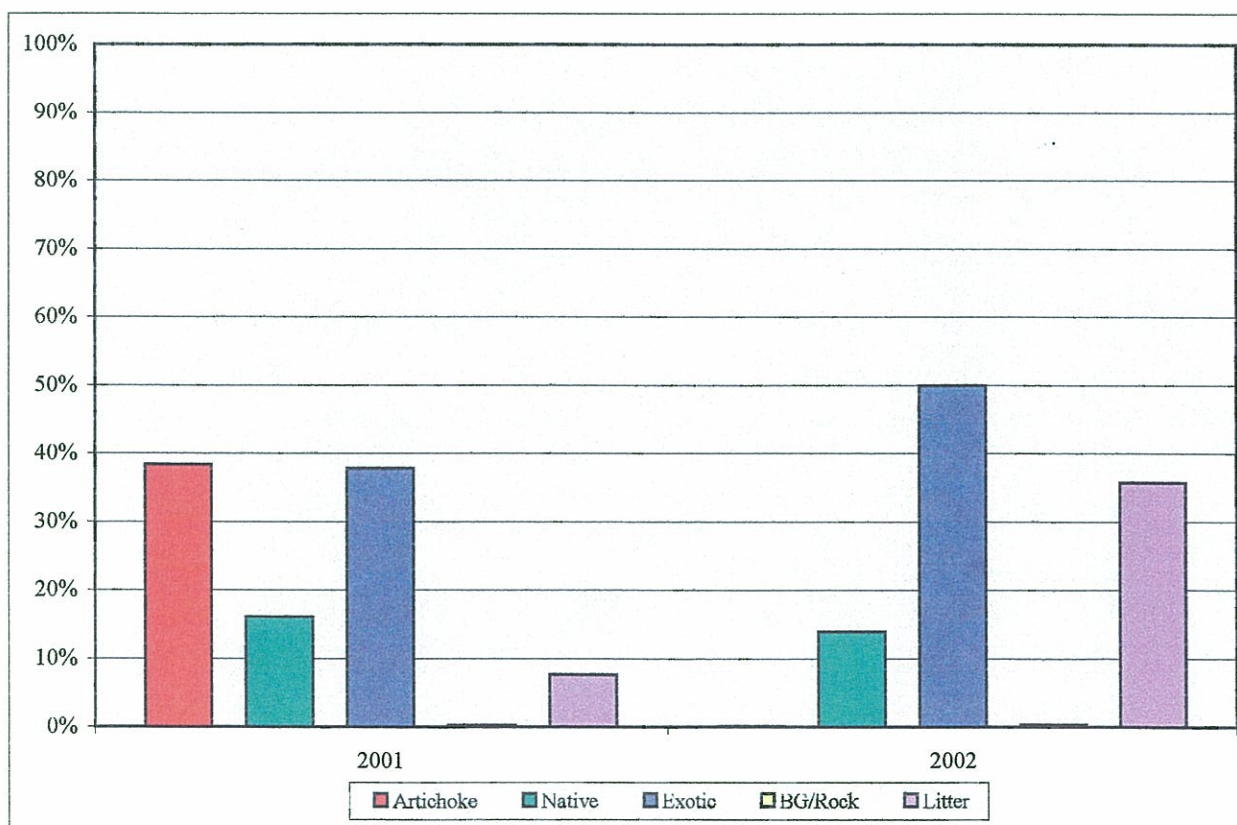


Figure 23. North Laguna 1

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	2.56 (0-7 seedlings & resprouts/m ²)	31.0%	8.1%	52.3%	1.4%	7.2%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.44 (0-3 seedlings & resprouts/m ²)	10.9%	5.7%	25.3%	2.0%	56.1%

Table 15. North Laguna 2

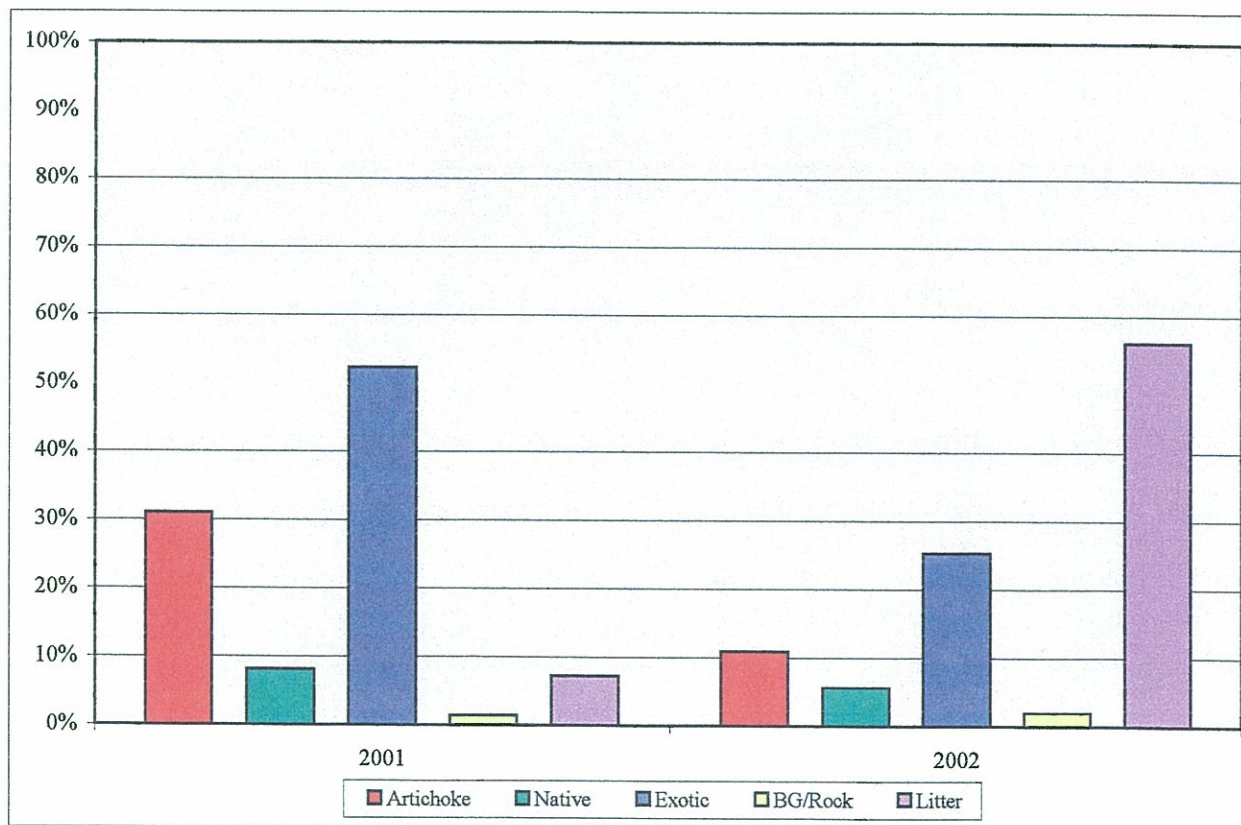


Figure 24. North Laguna 2



PHOTO 26. North Laguna 1 and 2: Transline (left) vs. Roundup (right). Photo taken May 2002 after initial spray in spring 2001.

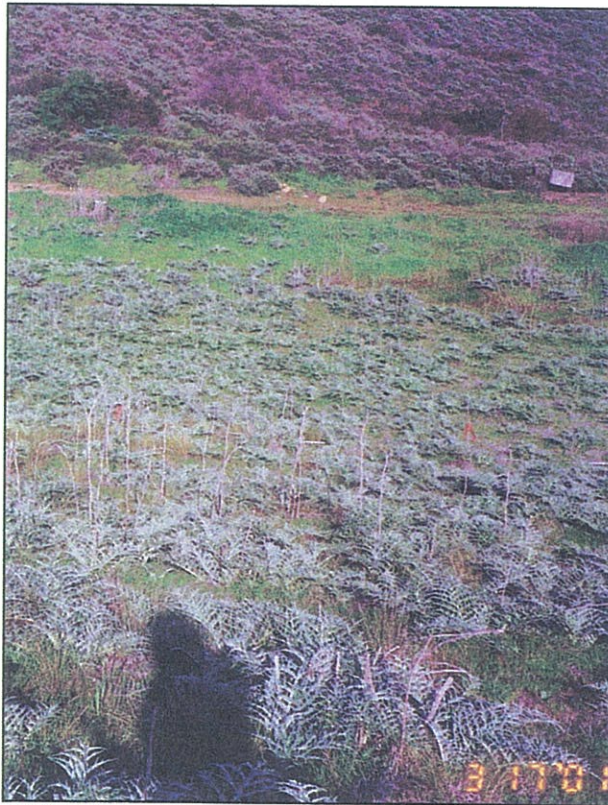


PHOTO 27. N. Laguna Plot 1: Pre-treatment 2001



PHOTO 28. N. Laguna Plot 1: Post-treatment 2002



PHOTO 29. N. Laguna Plot 2: Pre-treatment 2001



PHOTO 30. N. Laguna Plot 2: Post-treatment 2002



PHOTO 31. N. Laguna Plot 3: Pre-treatment 2002

also documented. Following one year of control, percent cover of exotic species decreased from 52 to 25 percent (a total decrease of 48 percent).

Baseline native cover was documented at only eight percent. Native species observed in 2001 and 2002 included purple needlegrass, arroyo lupine, blue dicks, and virgate sand aster. Native cover dropped from eight to six percent after the initial treatment.

In both 2001 and 2002, the North Laguna 2 plot was treated with Roundup Pro with Telar (Photos 29 and 30).

North Laguna 3

Baseline percent cover of artichoke thistle at North Laguna 3 before initial treatment in 2002 was documented at 21 percent with a density of 3.60 (Table 16, Figures 25 and 37b).

Exotic species, documented at 50 percent cover, included soft chess, red-stemmed filaree, wild oats, black mustard, and field bindweed. Soft chess accounted for 99 percent of the exotic species documented.

Native cover was documented at three percent. The majority of natives observed were arroyo lupine. Purple needlegrass was observed scattered throughout the plot.

In 2002, this plot was treated with Transline with Telar (Photo 31).

AWCWP

Before treatment in 2001, two monitoring plots were established in AWCWP to document baseline cover of artichoke thistle and native species. Both plots were established in Aliso Canyon. Artichoke thistle, one of the most dominant weeds in AWCWP, has established itself in many of the grasslands and has encroached into adjacent CSS. Some of these areas in AWCWP have been treated in past years with Roundup Pro plus Telar. In 2001, all thistle treatment areas were sprayed with Roundup Pro plus Telar. Most of these same areas, as well as some new areas, were treated in

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	No data	No data	No data	No data	No data	No data	No data
2002	Baseline data before initial treatment	3.60 (0-9 seedlings & resprouts/m ²)	21.4%	2.8%	50.0%	3.3%	22.4%

Table 16. North Laguna 3

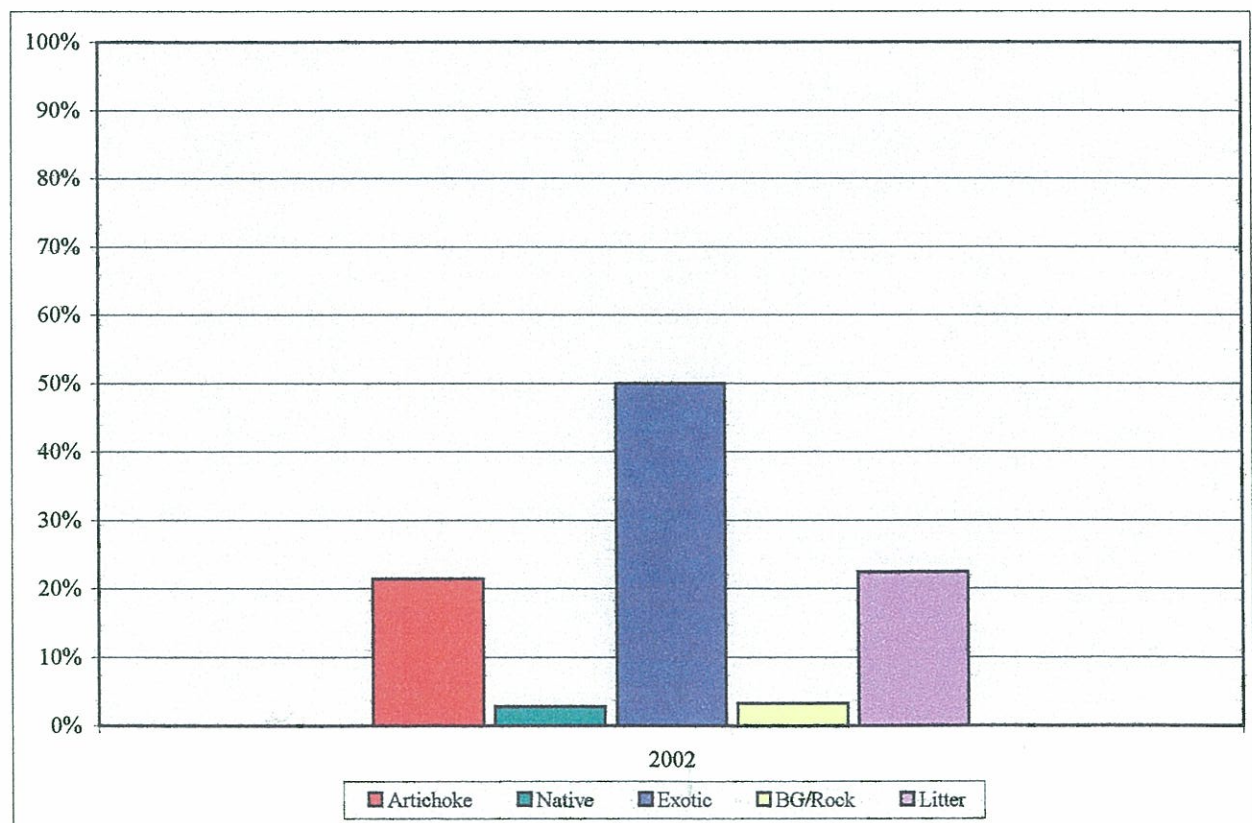


Figure 25. North Laguna 3

2002 with Transline with Telar. A total of 444 acres were treated in AWCWP in 2001; 378 acres in 2002.

AWCWP 1

As shown in Photos 32 and 33, AWCWP 1 is located in a small grassy area surrounded by CSS. This plot was sprayed for artichoke thistle in 2000 but cover and density remained high. Artichoke thistle cover in this plot was documented at almost 70 percent with a density of 7.20 (zero to 18 seedlings or resprouts per quadrat) in 2001 (Table 17, Figure 26). Following treatment in 2001, percent cover of thistle decreased from 68 percent to three percent (a total decrease of 95 percent). Density also declined from 7.20 to 1.60 following the 2001 control efforts.

Exotic cover, including soft chess, wild oats, red brome, ripgut brome, Italian thistle (*Carduus pycnocephalus*), common sow-thistle, red-stemmed filaree, shortpod / summer mustard and black mustard, occupied 14 percent of the plot in 2001. Percent cover of exotics increased from 14 to 37 percent following the 2001 control efforts. Many of the same exotics observed in 2001 were present in 2002. However, exotic annual grasses were the most dominant exotics observed. Very little Italian thistle, sow-thistle or mustard were observed in 2002.

Despite the high percentage of exotic cover, native species were documented at five percent cover in both 2001 and 2002. Natives observed included coastal sagebrush, arroyo lupine, virgate sand aster, coyote brush, common bedstraw (*Galium aparine*), and a native filaree (*Erodium macrophyllum*). Many coastal sagebrush seedlings were observed underneath artichoke that was sprayed the previous year.

Percent cover of bare ground and rock increased slightly from three to six percent. As a result of the reduction of thistle by 95 percent, percent cover of litter increased from nine to 49 percent (a total increase of 435 percent).

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No baseline data before 2000 treatment	No data	No data	No data	No data	No data	No data
2001	Data after 2000 treatment (1.33 oz/g Roundup Pro w/Telar)	7.20 (0-18 seedlings & resprouts/m ²)	68.2%	5.1%	14.4%	3.2%	9.1%
2002	Data after 2001 treatment (1.33 oz/g Roundup Pro w/Telar)	1.60 (0-7 seedlings & resprouts/m ²)	3.4%	4.8%	36.5%	6.7%	48.7%

Table 17. AWCWP 1

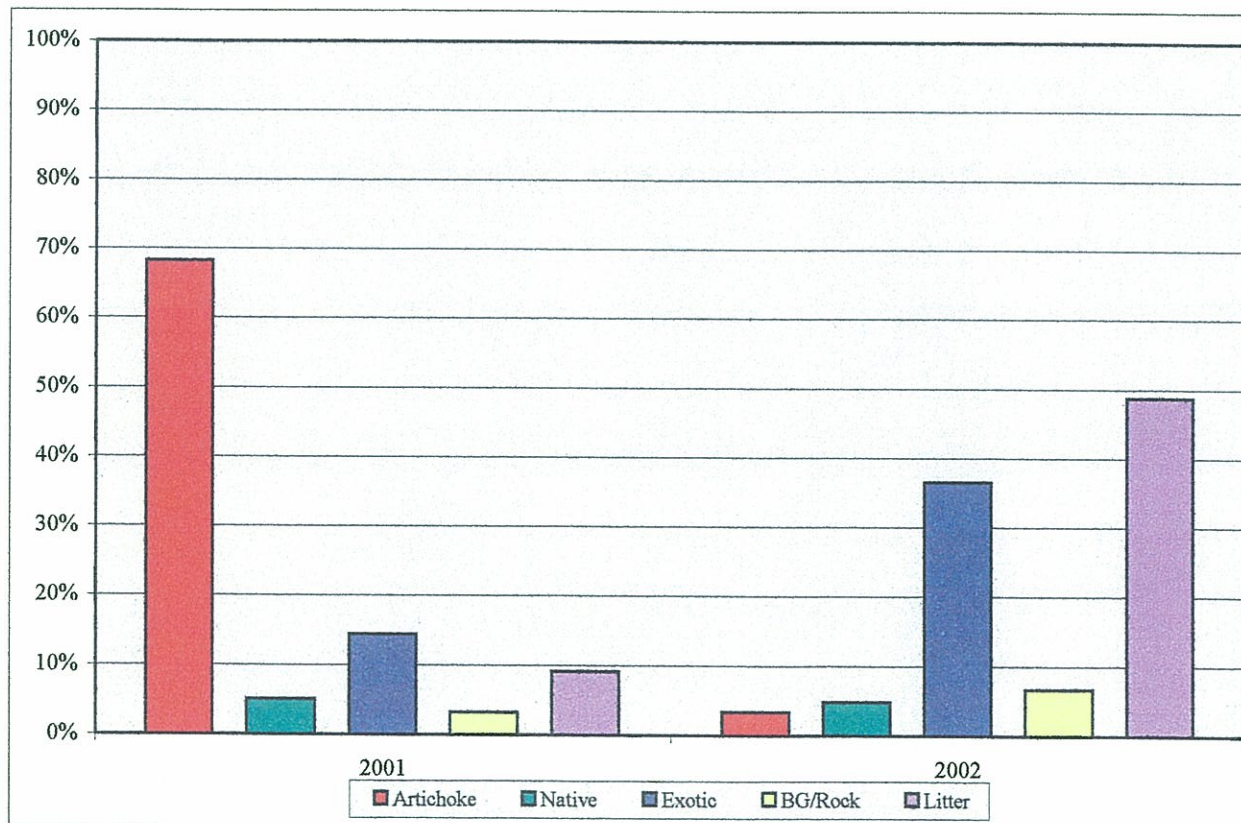


Figure 26. AWCWP 1



PHOTO 32. AWCWP Plot 1: Pre-treatment 2001



PHOTO 33. AWCWP Plot 1: Post-treatment 2002

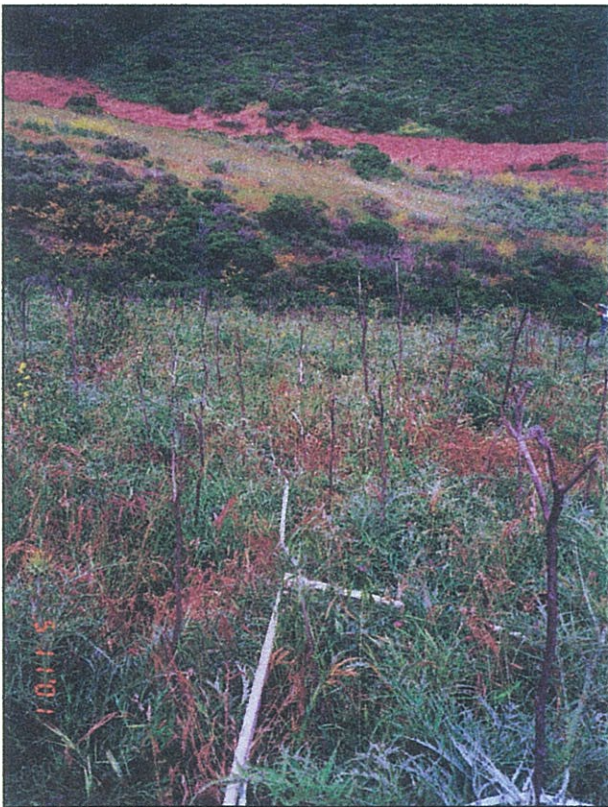


PHOTO 34. AWCWP Plot 2: Pre-treatment 2001



PHOTO 35. AWCWP Plot 2: Post-treatment 2002

AWCWP 2

AWCWP 2 was established in a native grassland with an infestation of artichoke thistle and exotic annual grasses (Photos 34 and 35). In 2001, artichoke thistle cover was documented at 52 percent and density at 6.12 (Table 18, Figure 27). Following the first year of treatment, thistle cover declined from 52 to two percent (a total decrease of 95 percent). Density of thistle also decreased – from 6.12 to 0.48 (a total decrease of 92 percent).

Italian thistle, tocalote, black mustard, purple false brome, soft chess, wild oats, and ripgut brome occupied 34 percent of the monitoring plot before treatment in 2001. Exotic cover increased by 21 percent after the initial control efforts. The majority of exotic cover documented in 2002, however, was comprised of only soft chess. Very little Italian thistle and tocalote were documented within the plot in 2002.

Native diversity is higher at this plot than at AWCWP 1. Natives observed included bugle hedge-nettle, common golden stars, purple needlegrass, dense-flowered chick lupine (*Lupinus microcarpus* var. *densiflorus*), California blue-eyed grass, and the native filaree. Natives occupied nine percent of the monitoring plot in 2001. Native cover dropped to two percent in 2002. Monitoring was conducted two months earlier this year to accommodate an earlier spraying schedule. This may explain the decrease in native cover documented in 2002. Although less abundant due to time of year, all of the same native species were observed throughout the plot in 2002 as were observed in 2001.

Percent cover of bare ground and rock increased slightly from one to four percent. With the successful kill of 95 percent of the artichoke thistle, percent cover of litter increased from four to 50 percent.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	6.12 (2-16 seedlings & resprouts/m ²)	52.1%	8.8%	34.4%	0.5%	4.2%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.48 (0-3 seedlings & resprouts/m ²)	2.4%	1.6%	41.7%	4.2%	50.1%

Table 18. AWCWP 2

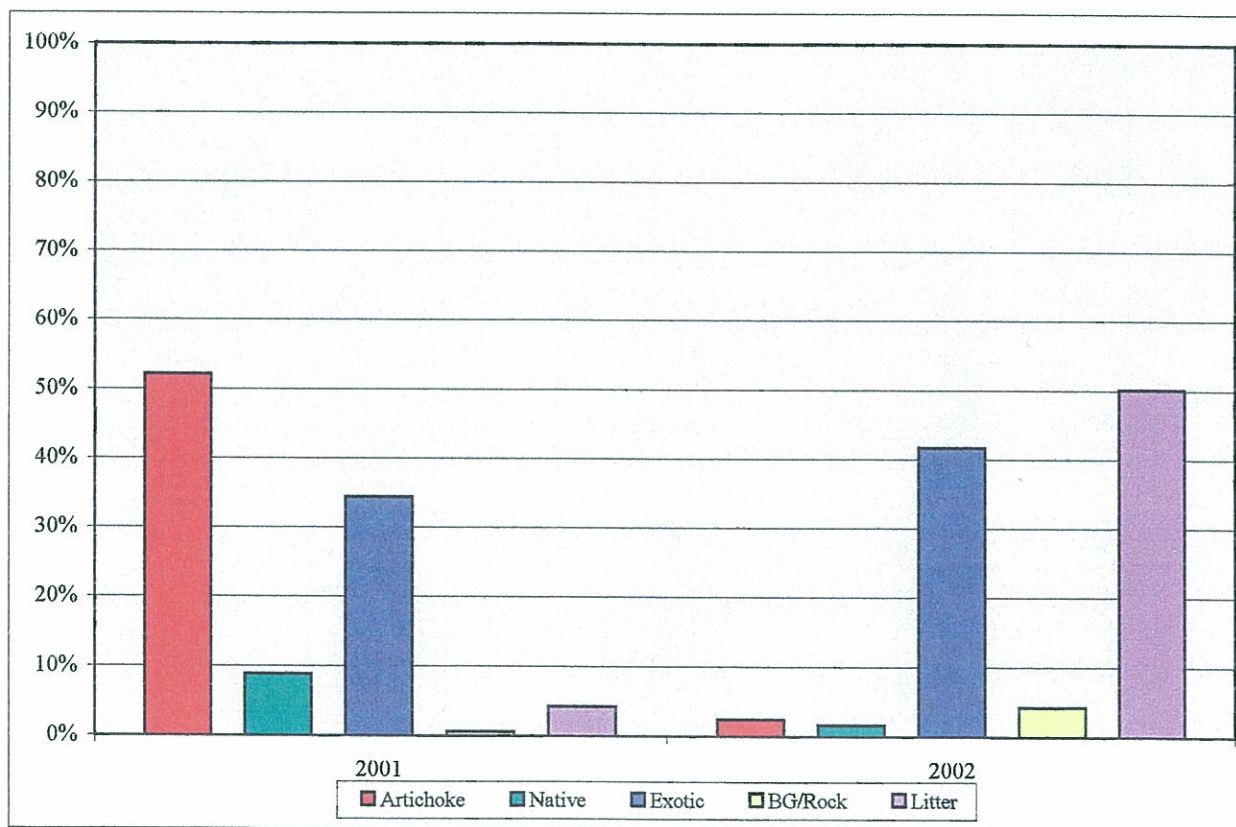


Figure 27. AWCWP 2

CCSP

CCSP monitoring sites are located along Moro Ridge Road (Figure 2). Baseline data was collected before treatment in May 2001. Neither site was treated for artichoke thistle in the past. Results from each monitoring plot are discussed separately below.

In 2001, all CCSP thistle treatment areas were treated with Roundup Pro plus Telar in 2001 (250 acres). In 2002, 360 acres were treated in CCSP. The majority of the sites were treated with Transline with Telar; a few sites were treated with Roundup Pro with Telar. In addition to the areas treated by NROC, staff at CCSP treated an additional 122 acres of thistle with Transline in 2002.

CCSP 1

CCSP Plot 1 is located in a remnant native grassland surrounded by CSS (Photos 36 and 37). In 2001, artichoke thistle occupied 68 percent of this plot (Table 19, Figure 28). After the initial herbicide treatment, percent cover decreased from 68 to one percent, a total decline of 98 percent. Density also decreased following treatment from 4.76 to 0.68, a total reduction of 86 percent (Figure 37b).

Other exotic species, including ripgut brome, red brome, soft chess, English ryegrass, wild oats, foxtail fescue, black mustard, prickly and common sow-thistle, red-stemmed and long-beaked filaree, and bur-clover, accounted for 23 percent of the cover at this plot in 2001. Percent cover increased following spray efforts in 2001 from 23 to 36 percent (a total increase of 54 percent). The same exotic species documented in 2001 were observed in 2002.

Native cover was documented at four percent in 2001; one percent in 2002. Native species observed in 2001 (in decreasing order of abundance) were purple needlegrass, common bedstraw, coyote brush, fascicled tarweed, and horseweed. Only purple needlegrass was observed within the plot in 2002. Several of the native grasses and a couple of the coyote brush shrubs appeared to have been sprayed with herbicide and were dead or dying.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	4.76 (0-20 seedlings & resprouts/m ²)	67.8%	3.9%	23.2%	2.6%	2.5%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.68 (0-9 seedlings & resprouts/m ²)	1.1%	0.8%	35.8%	6.8%	55.5%

Table 19. CCSP 1

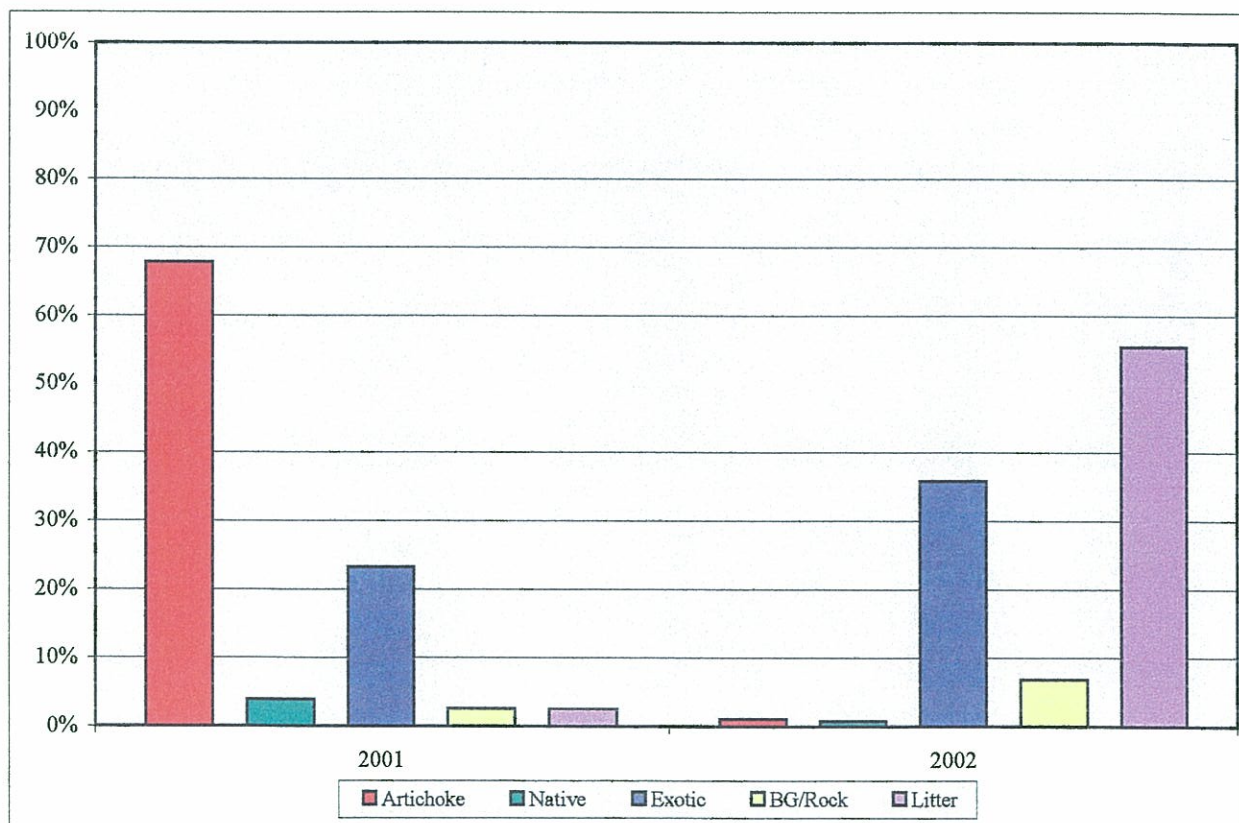


Figure 28. CCSP 1



PHOTO 36. CCSP Plot 1: Pre-treatment 2001



PHOTO 37. CCSP Plot 1: Post-treatment 2002

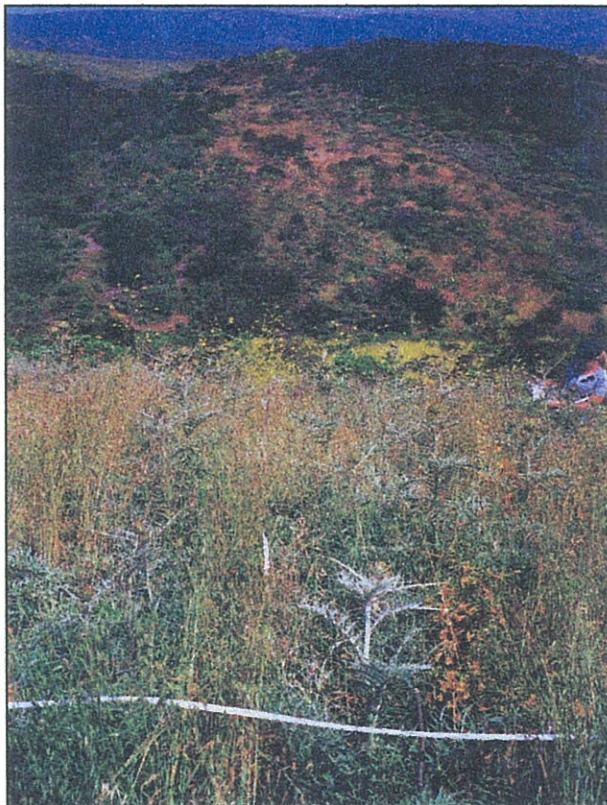


PHOTO 38. CCSP Plot 2: Pre-treatment 2001

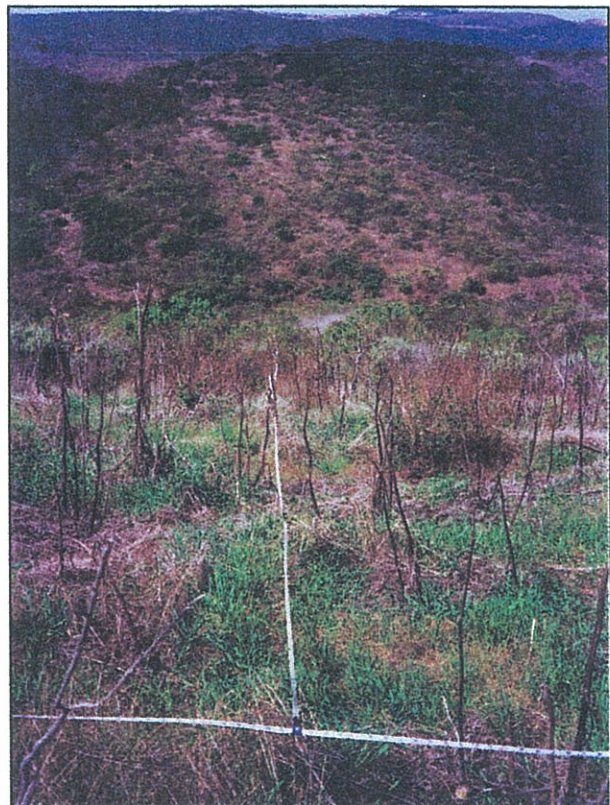


PHOTO 39. CCSP Plot 2: Post-treatment 2002

Bare ground and rock percent cover increased from three to seven percent. Percent cover of litter, however, increased significantly from three to 56 percent following the first year of control efforts.

CCSP 2

CCSP Plot 2 is located along Moro Ridge Road in a native grassland / CSS mixed community (Photos 38 and 39). As shown in Table 20 and Figure 29, thirty-six percent of the monitoring plot in 2001 was occupied by artichoke thistle with a density of 2.80 (zero to seven seedlings or resprouts per quadrat). After one year of treatment, artichoke thistle cover decreased 99 percent and density decreased 90 percent.

Black mustard, sow-thistle, scarlet pimpernel, bur-clover, as well as several European grasses were documented in 28 percent of the plot in 2001. Exotic cover increased 31 percent after the first year of treatment at this site. The same exotic species documented in 2001 were observed in 2002.

In 2001 before treatment, native cover was documented at 28 percent. Thirteen different native species were observed: bush monkeyflower, bugle hedge-nettle, a native erodium, coastal sagebrush, sharp tooth sanicle, purple needlegrass, common bedstraw, coyote brush, California blue-eyed grass, laurel sumac, California everlasting, blue dicks, and small-flowered melic grass (*Melica imperfecta*). Percent cover of natives decreased from 28 to 22 percent following control efforts. It appeared that a few of the native shrubs had been inadvertently sprayed and possibly killed by the herbicide, thus resulting in the lower percent cover of native species in 2002.

Bare ground and rock percent cover remained relatively unchanged after the first year of treatment. Percent cover of litter, however, increased significantly from four to 36 percent following the first year of control efforts. Litter was mostly composed of artichoke thistle but did include several dead coastal sagebrush and bush monkeyflower shrubs.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before initial treatment	2.80 (0-7 seedlings & resprouts/m ²)	35.6%	27.8%	28.2%	4.3%	4.1%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro w/Telar)	0.28 (0-2 seedlings & resprouts/m ²)	0.5%	22.2%	36.8%	4.9%	35.6%

Table 20. CCSP 2

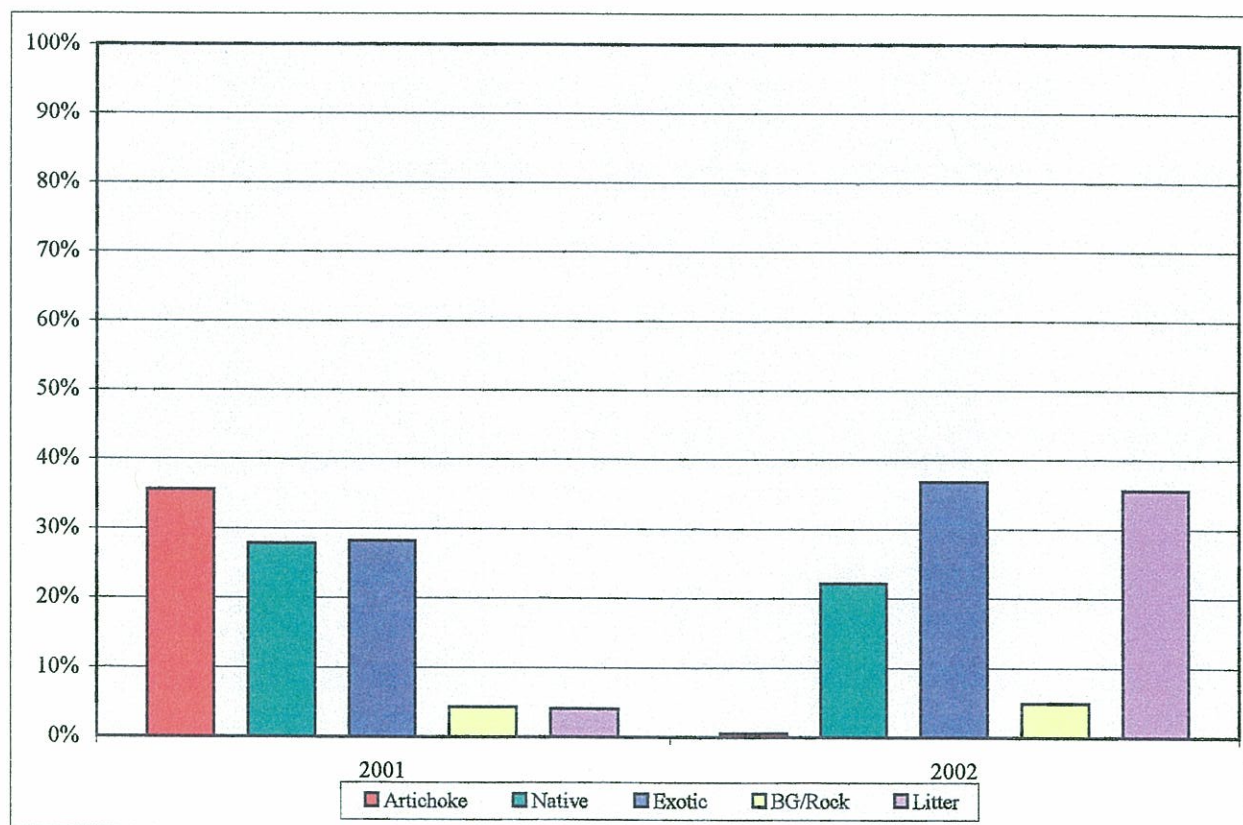


Figure 29. CCSP 2

UCI Reserve

Portions of the UCI Reserve are heavily infested with artichoke thistle (Photo 40 and 41). Thistle within the Reserve has been treated over the years under the direction of Reserve Manager, Peter Bowler Ph.D., and his students. Despite treatment, artichoke thistle still dominated many areas within this Reserve.

A monitoring plot was established by TNC to collect baseline data before treatment in 2001. Baseline data indicate artichoke thistle dominated over 60 percent of the monitoring plot, with as many as 15 seedlings per 1m² quadrat. In 2002, percent cover of artichoke thistle decreased 96 percent. Telaar was not used in the herbicide mix in 2001. This may explain why density of thistle at this plot did not decrease as much after the initial treatment (40 percent), relative to the other study plots (average decrease of 86 percent). Density decreased to a maximum of nine seedlings per 1m² quadrat (Table 21, Figures 30 and 37b),

Other dominant exotics observed in this plot were wild oats, foxtail fescue, ripgut brome, purple false brome, red brome, soft chess, black mustard, bur-clover, prickly sow-thistle, hairy cat's ear, prickly lettuce, and scarlet pimpernel. Percent cover of these exotic species declined from 23 to 13 percent from 2001 to 2002. There may be several possible explanations to explain the lower percent cover of exotic species in 2002: 1) monitoring was conducted earlier in the season in 2002 than 2001, thus plants were not as large at the time of monitoring 2) it was a dry spring, affecting both the abundance and size of the plants, and/or 3) the use of Roundup Pro possibly killed many of these annual exotics before they were able to set seed.

Only two native species were documented in this plot in 2001: purple needlegrass and common golden stars. In 2002, fascicled tarweed was also observed. Although native cover was low in 2001 and 2002 in the monitoring plot, both golden stars and purple needlegrass were observed throughout the area. Native cover did increase slightly from one to three percent after treatment.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	Baseline data before treatment	5.80 (0-15 seedlings & resprouts/m ²)	61.6%	0.9%	23.0%	2.4%	12.1%
2002	Data after 2001 treatment (2.67 oz/g Roundup Pro)	1.56 (0-9 seedlings & resprouts/m ²)	2.2%	2.5%	13.0%	2.6%	79.7%

Table 21. UCI Reserve

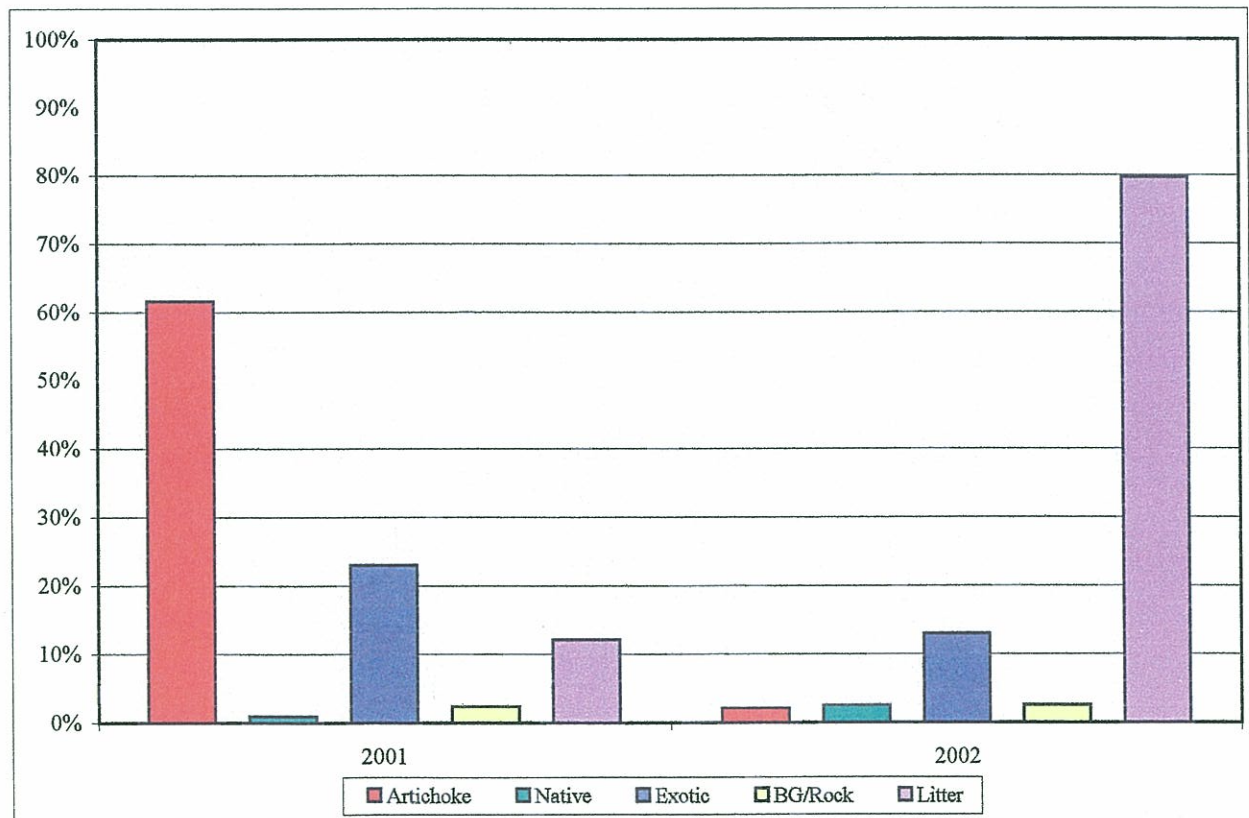


Figure 30. UCI Reserve



PHOTO 40. UCI Reserve: Pre-treatment 2001



PHOTO 41. UCI Reserve: Post-treatment 2002



PHOTO 42. Peters Canyon: Pre-treatment 2002

Other natives observed outside the plot included California encelia (*Encelia californica*) and bladder pod (*Isomeris arborea*).

Bare ground and rock cover remained unchanged but litter cover increased from 12 to 80 percent following the initial treatment of thistle in this plot.

Twenty-four acres of artichoke thistle within the UCI Reserve were treated with Roundup Pro (no Telar) in 2001; 49 acres were treated with Transline with Telar in 2002.

Peters Canyon

Peters Canyon Regional Park is located within the Central Subregion of the NROC. Before initial treatment by NROC in spring 2002, TNC established a monitoring station within a native grassland area infested with artichoke thistle (Photo 42). Baseline data was collected in March 2002. However, this site was treated for artichoke thistle two weeks earlier by Public Works on behalf of the County of Orange.

Because of the earlier treatment by Public Works, percent cover of thistle recorded before treatment (on behalf of NROC) was lower than it actually was in spring 2002. Artichoke thistle cover was documented at 17 percent (Table 22). Much of the artichoke was killed back by the initial spray in 2002. However, many of the plants resprouted - artichoke density was 12.68 with two to 28 seedlings per m² quadrat (Table 22, Figures 31 and 37b).

Exotic species other than artichoke thistle were documented in 23 percent of the plot. Species included tocalote, bur-clover, black mustard, sow-thistle, red-stemmed filaree, soft chess, and red brome.

Native cover was documented at one percent. Purple needlegrass and rattlesnake weed were the only natives observed.

Bare ground was documented at 15 percent and litter at 44 percent, the majority of which was artichoke thistle.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	No data	No data	No data	No data	No data	No data	No data
1997	No data	No data	No data	No data	No data	No data	No data
1998	No data	No data	No data	No data	No data	No data	No data
1999	No data	No data	No data	No data	No data	No data	No data
2000	No data	No data	No data	No data	No data	No data	No data
2001	No data	No data	No data	No data	No data	No data	No data
2002	Baseline data before initial treatment	12.68 (2-28 seedlings & resprouts/m ²)	16.9%	0.9%	22.8%	15.0%	44.4%

Table 22. Peters Canyon

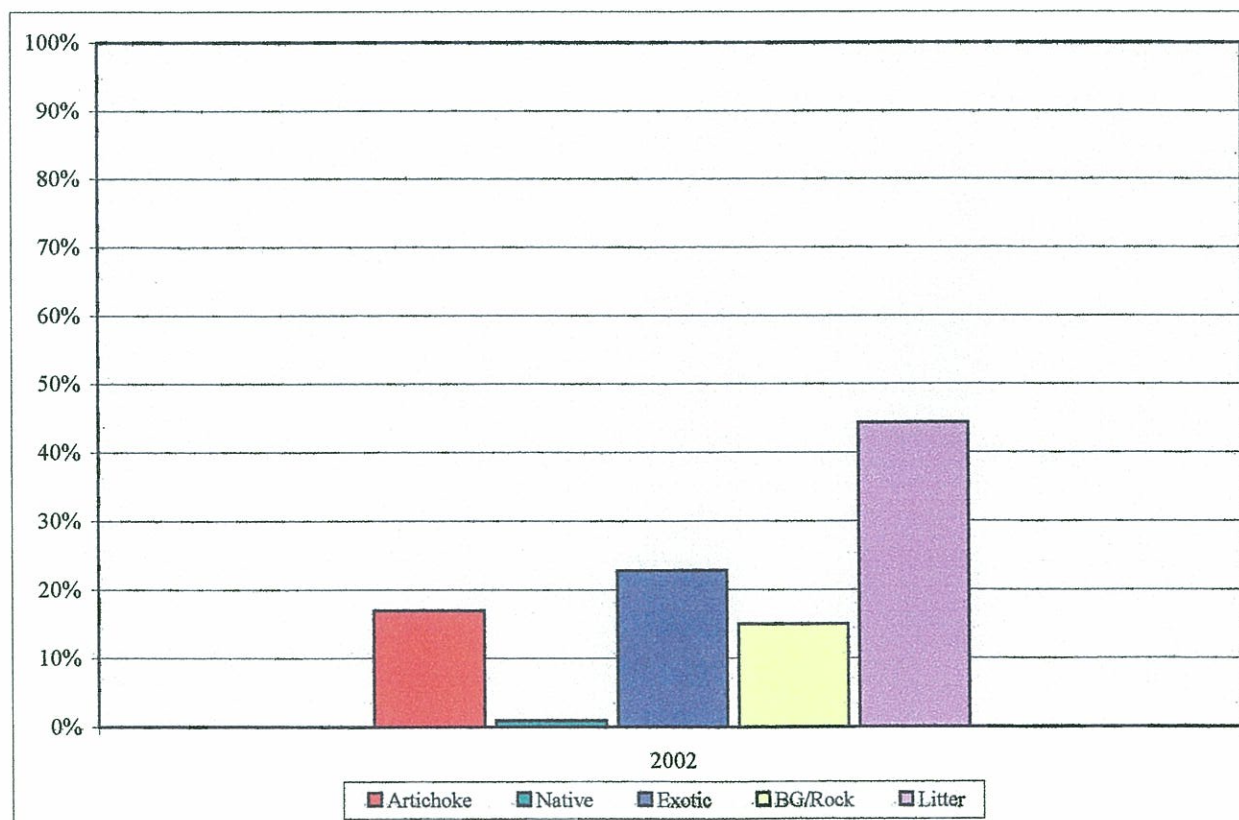


Figure 31. Peters Canyon

In 2002, 121 acres of artichoke thistle within Peters Canyon were treated with Roundup Pro with Telar. Although native grasses were present at many of the areas treated for artichoke thistle, Roundup Pro, rather than Transline, was selected for use because of the potential to contaminate groundwater at this site.

Muddy Canyon 1,2,3,4

Before thistle control efforts, Muddy Canyon was dominated by artichoke thistle and black mustard (Photos 43 to 52). A few isolated patches of purple needlegrass were scattered throughout the site. For three consecutive years (1996-1998), each of these plots was burned under prescription with a late spring/early summer fire. Fire was used as an additional tool to herbicide treatment of thistle to control the spread of other exotic species and to promote the growth of remnant native grasses and forbs. In addition to the burns, other restoration activities were implemented to establish native shrubs, forbs, and grasses back into the system over the past several years. These activities included seeding and mycorrhizal inoculation (fall 1998), mowing (1999) and revegetation with salvaged plants (purple needlegrass and cholla (*Opuntia prolifera*)) and nursery container plants (winter 2000 / spring 2001).

Baseline data was documented collectively for Muddy 1,2,3 in 1996. As shown in Tables 23-25 and Figures 32-34, percent cover of artichoke thistle in Muddy Canyon decreased from an average of 48 to seven percent (an 86 percent average decrease) following the first year of spraying (except for Muddy 4, which was not established until 1998). The following three years, average percent cover of thistle remained fairly low (< eight percent) and constant. Density decreased 50-100 percent.

Other exotic cover, predominantly annual grasses (wild oats and bromes) and black mustard decreased overall since pre-treatment in 1996. Following the first spray, exotic species took advantage of the immediate reduction in artichoke thistle; an average increase of 49 to 90 percent was documented. The following two years, however, a gradual decline in exotics occurred, possibly a

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	Baseline data before initial treatment	No data (1-5 seedlings & resprouts/m ²)	48.0%	0.0%	49.0%	1.5%	1.5%
1997	Data after 1996 treatment (2.67 oz/g Roundup Pro w/Telar)	0.00 (0 seedlings & resprouts/m ²)	0.0%	1.8%	98.2%*	0.0%*	0.0%*
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	0.00 (0 seedlings & resprouts/m ²)	0.0%	0.1%	97.2%	2.7%*	0.0%
1999	Data after 1998 treatment and seeding (2.67 oz/g Roundup Pro w/Telar)	0.00 (0 seedlings & resprouts/m ²)	0.0%	2.5%	29.0%	24.5%	44.1%
2000	Treated 1999 (2.67 oz/g Roundup Pro w/Telar)	No data	No data	No data	No data	No data	No data
2001	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data
2002	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data

Table 23. Muddy Canyon 1

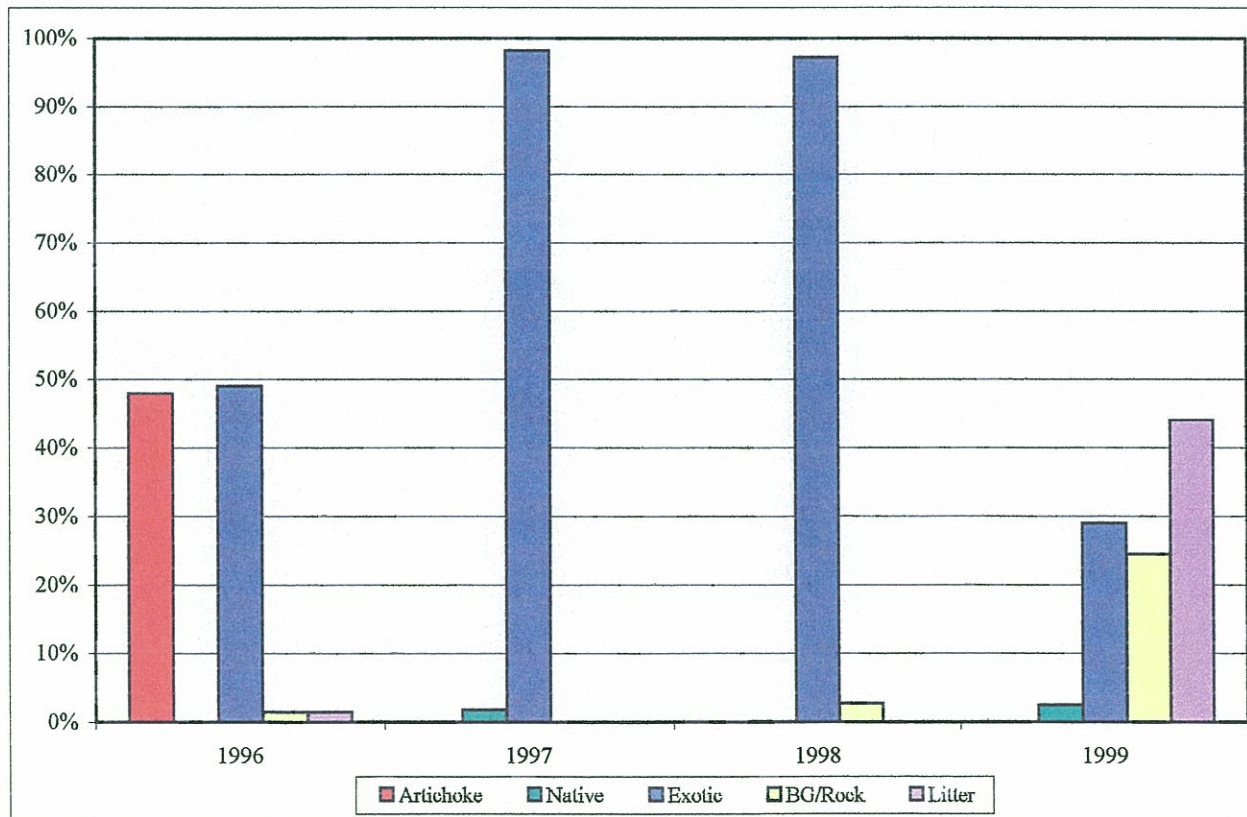


Figure 32. Muddy Canyon 1



PHOTO 43. Muddy Plot 1: Pre-treatment 1997

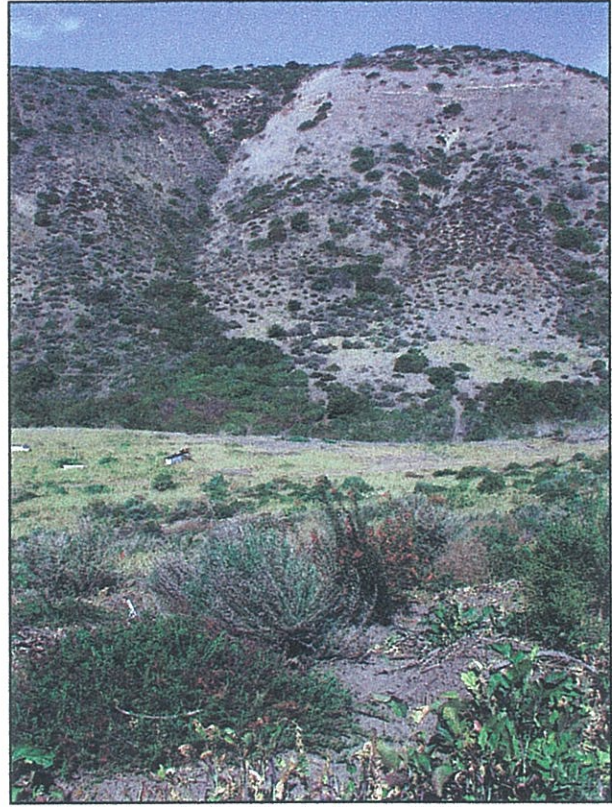


PHOTO 44. Muddy Plot 1: Spring 2002

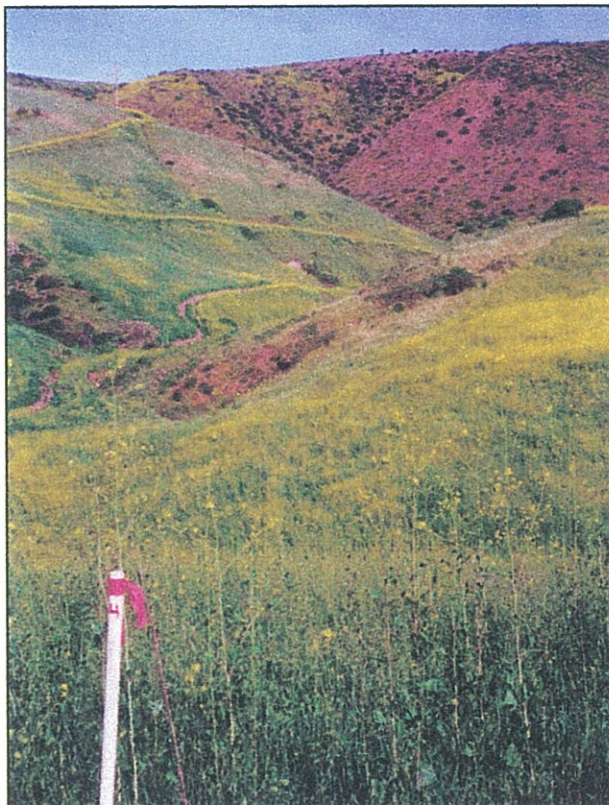


PHOTO 45. Muddy Plot 2: Pre-treatment 1997

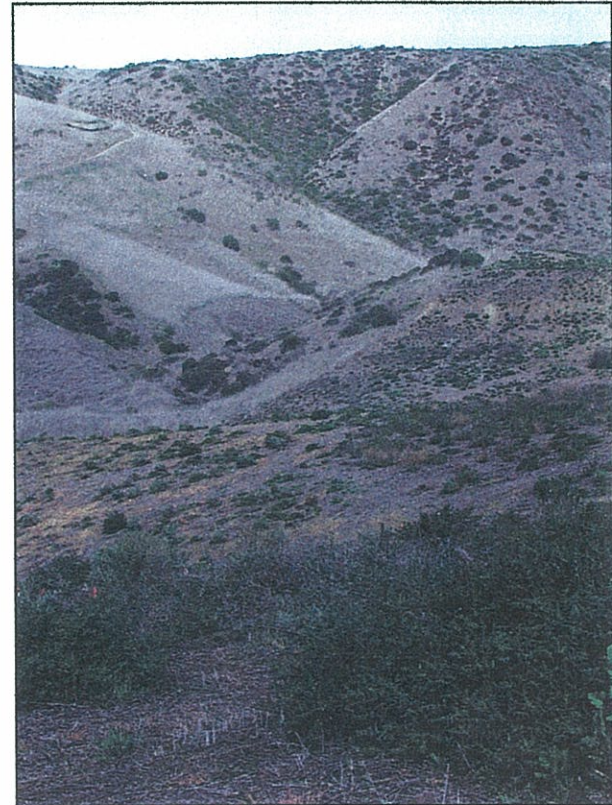


PHOTO 46. Muddy Plot 2: Spring 2002

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	Baseline data before initial treatment	No data (1-5 seedlings & resprouts/m ²)	48.0%	0.0%	49.0%	1.5%	1.5%
1997	Data after 1996 treatment (2.67 oz/g Roundup Pro w/Telar)	14.84 (4-42 seedlings & resprouts/m ²)	16.3%	2.6%	76.6%	4.4%*	0.1%
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	4.92 (1-14 seedlings & resprouts/m ²)	13.7%	1.0%	70.6%	15.0%	0.0%
1999	Data after 1998 treatment and seeding (2.67 oz/g Roundup Pro Treated 1999 w/Telar)	0.56 (0-3 seedlings & resprouts/m ²)	16.9%	1.2%	69.5%	12.8%	0.0%
2000	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data
2001	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data
2002	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data

Table 24. Muddy Canyon 2

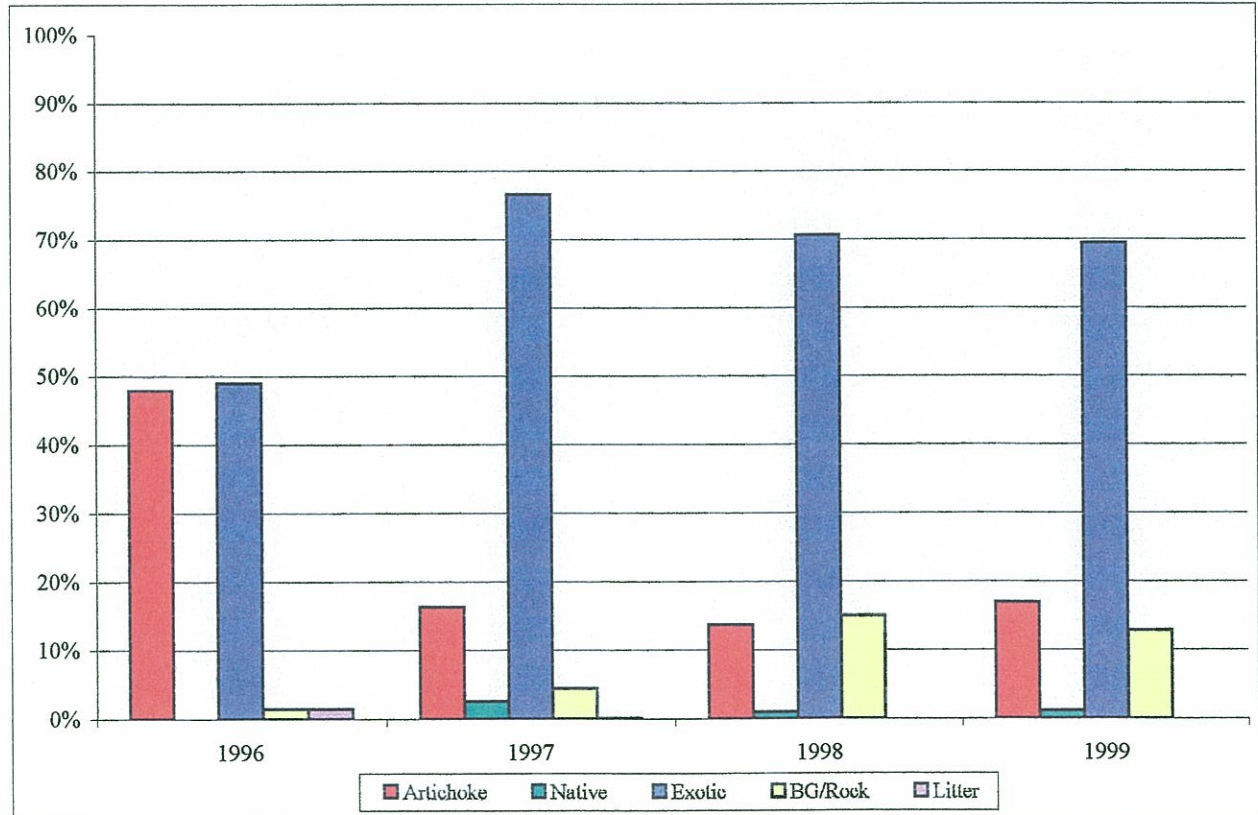


Figure 33. Muddy Canyon 2

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	Baseline data before initial treatment	No data (1-5 seedlings & resprouts/m ²)	48.0%	0.0%	49.0%	1.5%	1.5%
1997	Data after 1996 treatment (2.67 oz/g Roundup Pro w/Telar)	0.84 (1-4 seedlings & resprouts/m ²)	4.5%	0.2%	95.3%*	0.0%*	0.0%
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	0.68 (0-5 seedlings & resprouts/m ²)	15.2%	0.1%	84.7%*	0.0%*	0.0%
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.12 (0-1 seedlings & resprouts/m ²)	5.8%	1.1%	74.9%	18.2%*	0.0%
2000	Treated 1999 (2.67 oz/g Roundup Pro w/Telar)	No data	No data	No data	No data	No data	No data
2001	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data
2002	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data

Table 25. Muddy Canyon 3

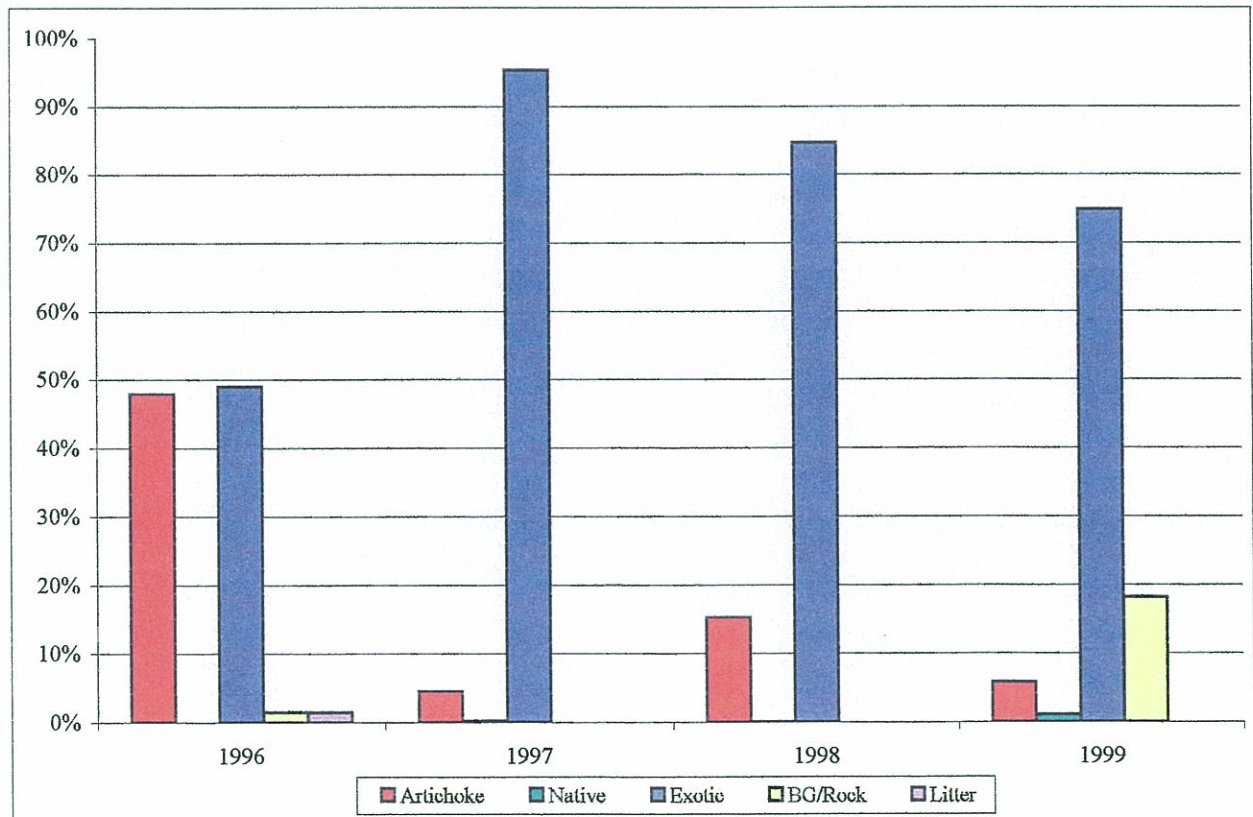


Figure 34. Muddy Canyon 3

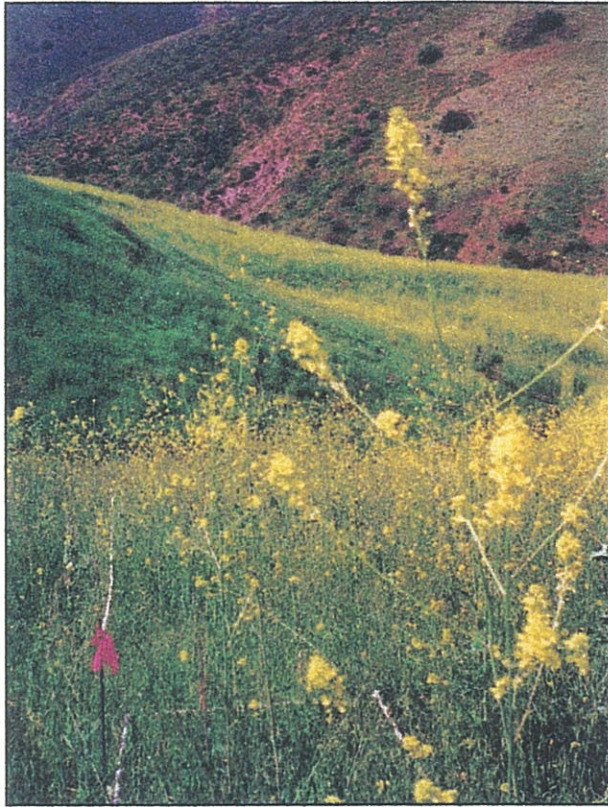


PHOTO 47. Muddy Plot 3: Pre-treatment 1997

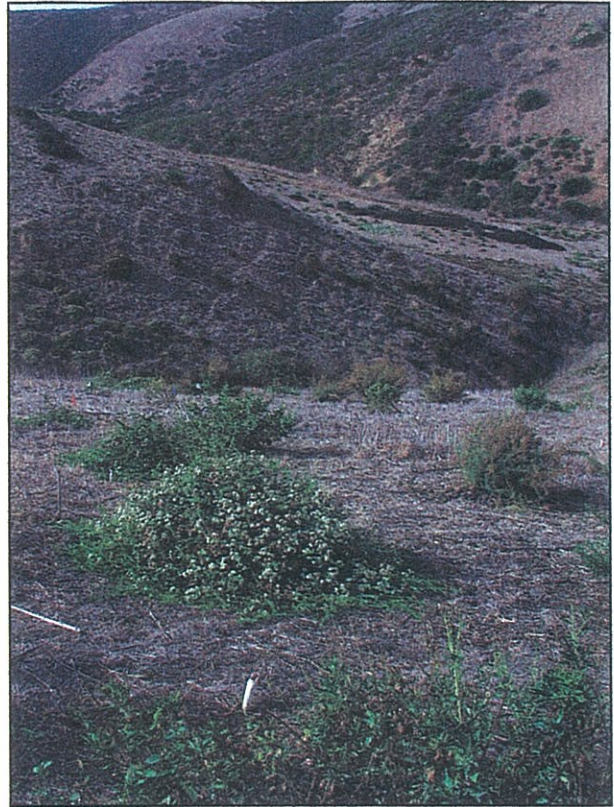


PHOTO 48. Muddy Plot 3: October 2001

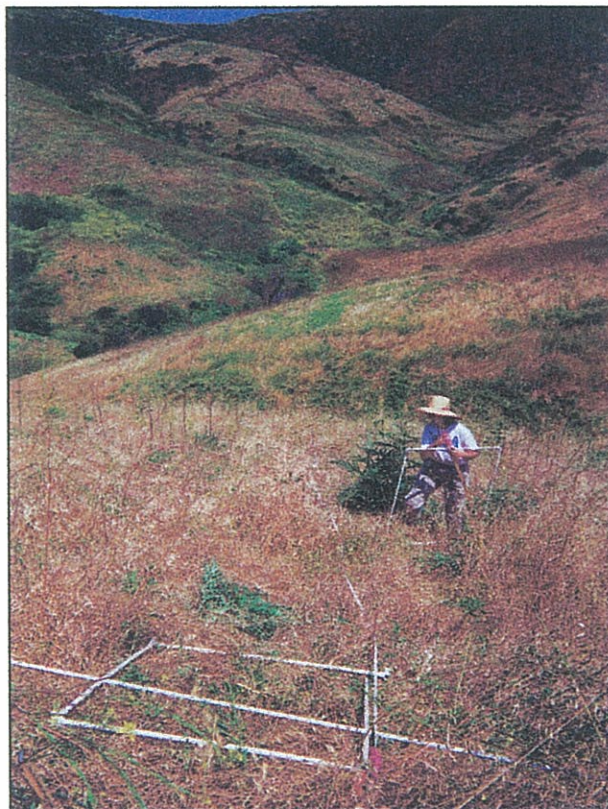


PHOTO 49. Muddy Plot 4: Post-treatment 1998

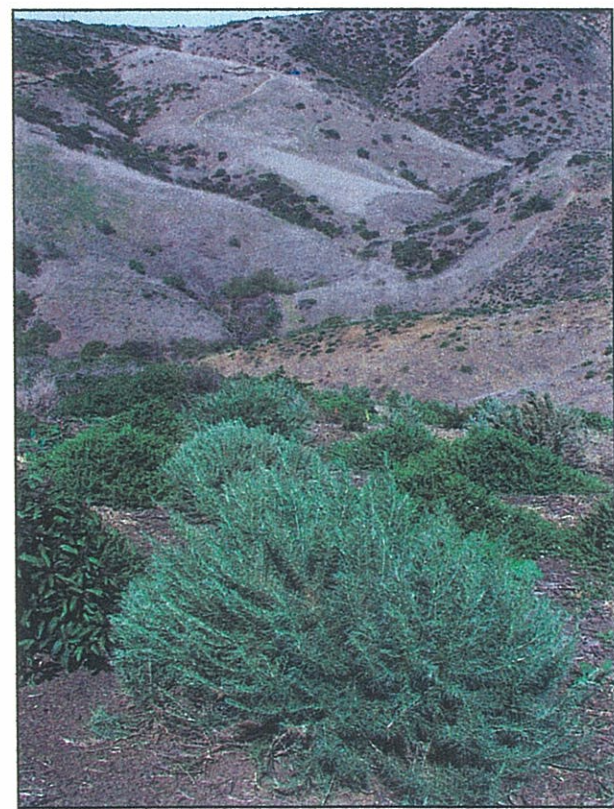


PHOTO 50. Muddy Plot 4: Spring 2002

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	Sprayed / burned	No data	No data	No data	No data	No data	No data
1997	Sprayed / burned	No data	No data	No data	No data	No data	No data
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	0.48 (0-3 seedlings & resprouts/m ²)	3.2%	6.3%	90.5%*	0.0%*	0.0%
1999	Data after 1998 treatment and seeding (2.67 oz/g Roundup Pro Treated 1999 w/Telar)	0.24 (0-1 seedlings & resprouts/m ²)	3.3%	3.4%	77.1%	14.3%	2.0%
2000		No data	No data	No data	No data	No data	No data
2001	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data
2002	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data

Table 26. Muddy Canyon 4

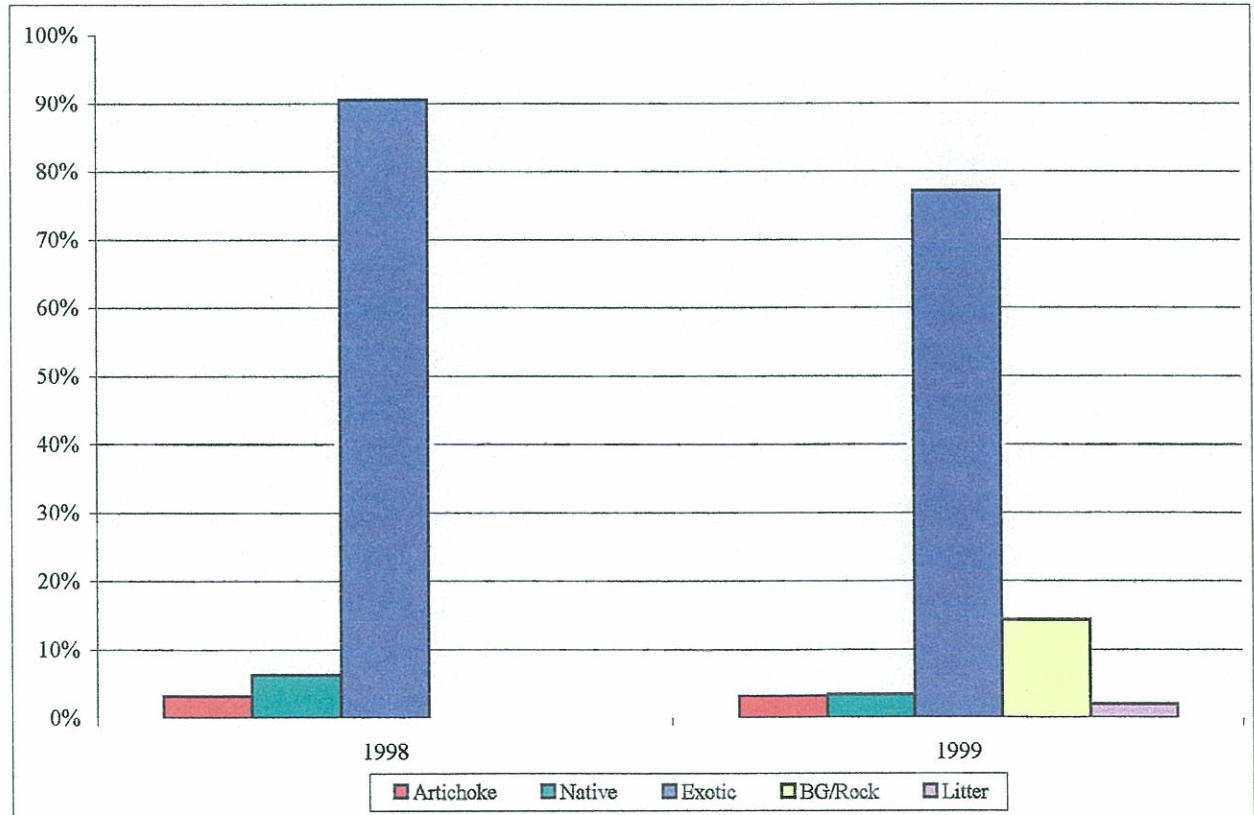


Figure 35. Muddy Canyon 4

result of the continuous burning over the past several years. It appears that, in the short-term, prescribed fire serves to promote germination of the thistle by reducing thatch cover and exposing the seed to light. Several years of burning and herbicide treatment, however, may help to deplete the seed bank of thistle, thereby ensuring better long-term control.

Quantitative monitoring was not conducted in 2000 because the plot markers had been removed, but visual estimates of thistle cover from the vicinity of each plot showed that artichoke thistle cover was generally less than ten percent. The Muddy Canyon plots are located within TIC's Newport Coast Open Space Enhancement area. Because of this project, which involves seeding, planting over 13,000 container plants, and weed maintenance over a three-year period, beginning fall of 2000, these plots will not be monitored after spring of 2000.

Native shrubs included in the seed mix and found growing in the test plots after seeding in fall 1998 included black sage (*Salvia mellifera*), white sage (*Salvia apiana*), coastal goldenbush, and long-stemmed buckwheat (*Eriogonum elongatum*). Native herbs and grasses included California poppy (*Eschscholzia californica*), doveweed, fascicled tarweed, bugle hedge-nettle, coastal goldfields (*Lasthenia californica*), California plantain (*Plantago erecta*), branching phacelia (*Phacelia ramosissima*), and purple needlegrass. All species were detected in at least one of the test plots. Although percent cover of natives is not significant yet, over time shrub seedlings should become established and more dominant in each of the plots.

In 2001, approximately 58 acres of artichoke thistle within Muddy Canyon and along Los Trancos Ridge were sprayed on behalf of NROC; in 2002, 81 acres were sprayed. In the areas treated along Los Trancos Ridge and in Los Trancos Canyon, garland chrysanthemum (*Chrysanthemum coronatum*) was also treated in 2002.

Muddy Canyon 6

This site is also part of TIC's Newport Coast Open Space Enhancement Project (Photos 51 and 52). Cover of artichoke thistle decreased from 48 to 23 percent (a decrease of 52 percent) following the first spray and an additional 81 percent following the second spray (Table 27, Figure 36). However, after the third treatment, thistle cover increased from four to 17 percent. The initial decrease in thistle cover is less dramatic than that of the other Muddy Canyon test plots, which might be explained by the absence of spring burning. Although cover did not decrease as much as the Muddy Canyon Plots 1-4, density of thistle did – thistle density at this plot decreased 76 percent from 1997 to 1998 with an overall density reduction of 94 percent.

Exotic cover, including black mustard, summer mustard, prickly lettuce, common sow-thistle, several filaree species, ripgut brome, soft chess, red chess, wild oats, and foxtail fescue, remained constant until 1999. In 1999, this plot was dominated by black and summer mustards, doubling the exotic cover from previous years to 65 percent.

Native shrub and herb cover has remained both low and constant over the study period. Natives identified over the study period included California chicory and a *Microseris* species in 1997; California chicory and fascicled tarweed in 1998; Douglas' nightshade in 1999. This site was sprayed and weeded in 2000 to control black mustard and Russian thistle (*Salsola tragus*), as well as artichoke thistle. Monitoring was not conducted after spring 1999.

LCWP

There are no monitoring plots established within LCWP. However, approximately 173 acres of artichoke thistle were treated within this park in 2001. The majority of the thistle treated in 2001 was located in Laurel Canyon. In 2002, 175 acres were treated throughout LCWP including Laurel and Emerald Canyons as well as Bommer Ridge.

	Control Effort	Artichoke Thistle Density	Artichoke Cover	Native Cover	Exotic Cover	BG/Rock Cover	Litter Cover
1996	Baseline data before initial treatment	No data (1-5 seedlings & resprouts/m ²)	48.0%	0.0%	49.0%	1.5%	1.5%
1997	Data after 1996 treatment (2.67 oz/g Roundup Pro w/Telar)	12.00 (4-31 seedlings & resprouts/m ²)	23.0%	0.7%	35.0%	0.0%*	41.3*%
1998	Data after 1997 treatment (2.67 oz/g Roundup Pro w/Telar)	2.88 (0-12 seedlings & resprouts/m ²)	4.3%	0.1%	31.3%	47.4%*	16.9%
1999	Data after 1998 treatment (2.67 oz/g Roundup Pro w/Telar)	0.72 (0-4 seedlings & resprouts/m ²)	16.6%	0.2%	65.2%	16.8%*	1.2%
2000	Treated 1999 (2.67 oz/g Roundup Pro w/Telar)	No data	No data	No data	No data	No data	No data
2001	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data
2002	Plot included in Newport Coast Open Space Enhancement Project ICD-738	No data	No data	No data	No data	No data	No data

Table 27. Muddy Canyon 6

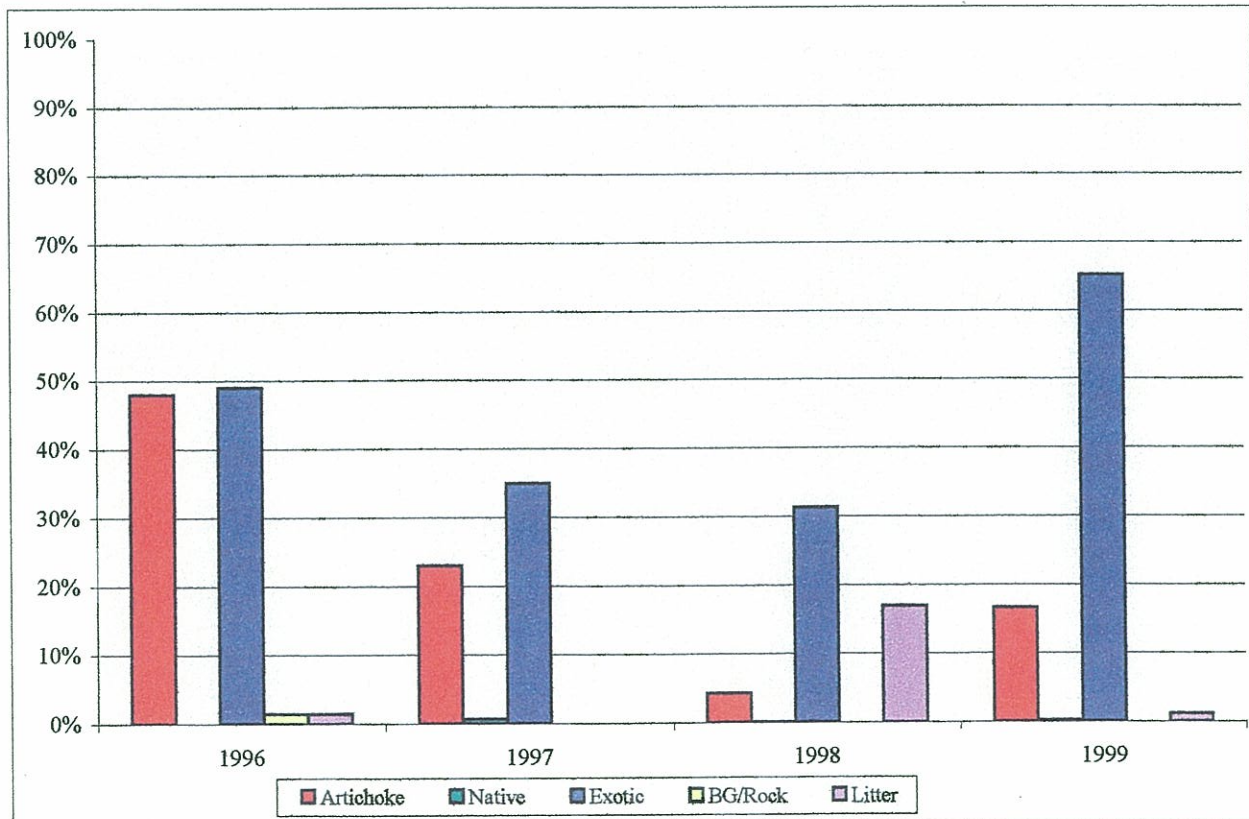


Figure 36. Muddy Canyon 6

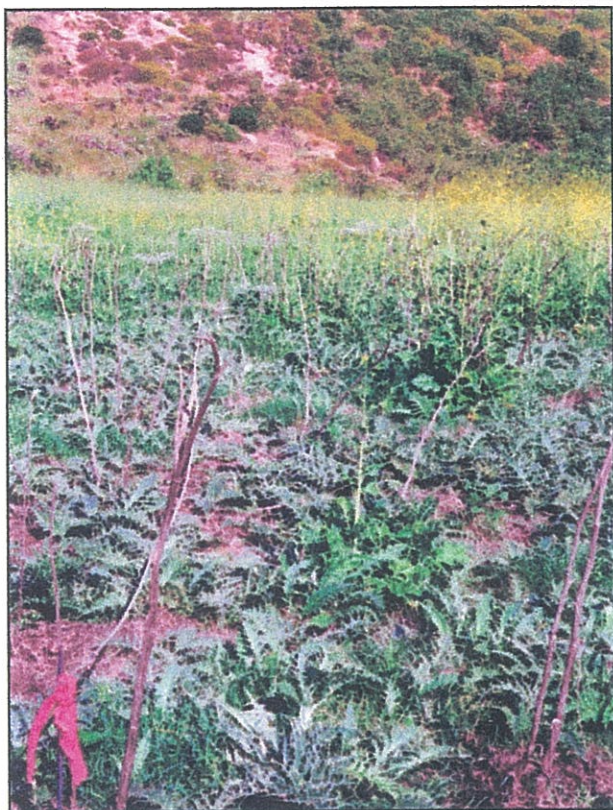


PHOTO 51. Muddy 6: Pre-treatment 1997



PHOTO 52. Muddy 6: Spring 2002

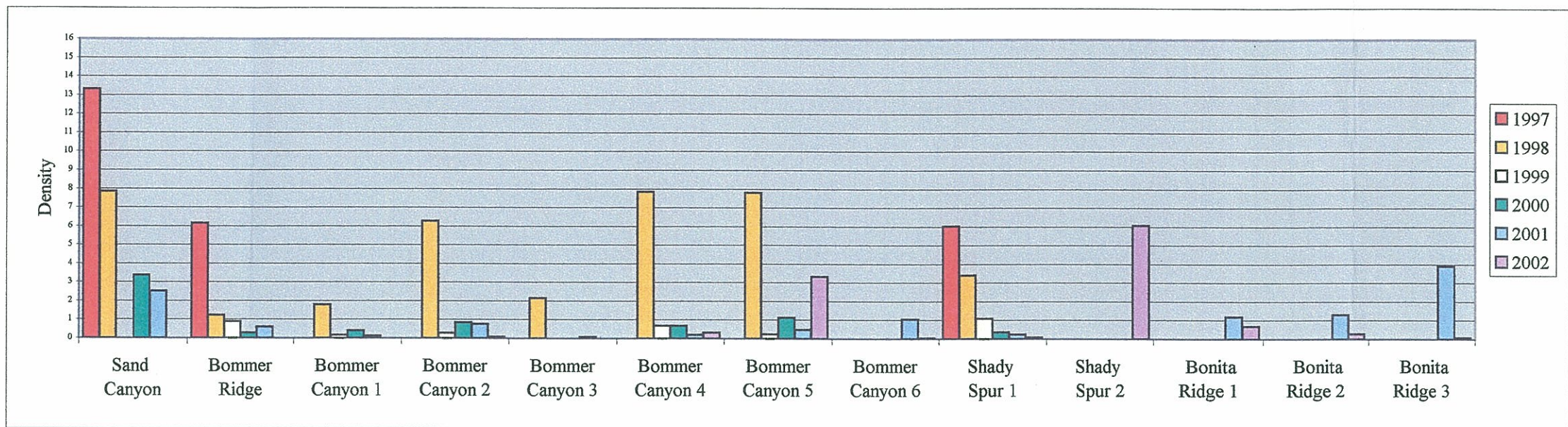


Figure 37a: Density of Artichoke Thistle (1997-2002)

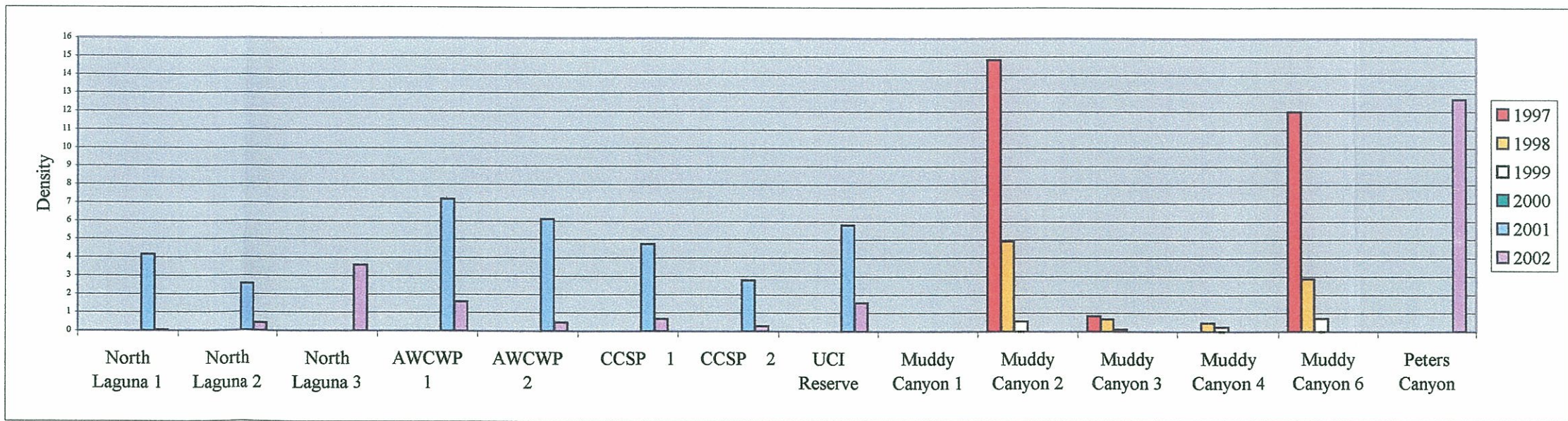


Figure 37b: Density of Artichoke Thistle (1997-2002)

APPENDIX C

1999 DATA SUMMARY SHEETS

Buck Gully

There are no monitoring plots established within Buck Gully. However, 39 acres of artichoke thistle were treated within Buck Gully in 2002. The majority of the thistle treated was located along the main trail through the canyon. In addition to the artichoke thistle, garland chrysanthemum was also treated at this site. Fifty-nine acres (including the 39 acres of artichoke thistle) were treated for the chrysanthemum; the majority of this invasive was located along San Joaquin Hills Road near Newport Coast Drive.

Note: Data collection reflected Actual Cover not Relative Cover. In areas with high artichoke thistle density, bare ground, litter, and exotic species were often present under the thistle. They were included in the percent cover value that often resulted in a value over 100%. The percent cover values (*) were adjusted to reflect Relative Cover for each category.

RECOMMENDATIONS

The NROC's Draft Habitat Restoration and Enhancement Plan identifies artichoke thistle infested sites as the second highest priority for restoration (following abandoned agricultural sites). In 2000, it was estimated that, within the Coastal Subregion, adequate control of the remaining artichoke thistle would require an expenditure of \$2.4 million over the next 15 years (\$80,000-\$200,000 annually). Beyond this 15-year period, approximately \$60,000 in thistle control efforts would be required annually to keep artichoke thistle in check.

Because NROC's management endowment funding is limited, additional long-term funding sources for artichoke thistle control need to be identified and secured. Through the IRLR Environmental Enhancement Fund, supplemental funding will be directed toward the control of exotic plant species on the Reserve in future years. In 2003, \$200,000.00 will be directed toward control of exotic plant species including artichoke thistle, sweet fennel (*Foeniculum vulgare*), garland chrysanthemum, and

pampas grass (*Cortaderia selloana*) within the Central and Coastal Subregions of the Reserve. TNC will coordinate all exotic plant control activities.

Specific recommendations for the 2003 artichoke thistle control program include:

1. Allocate \$80,000 towards the control of artichoke thistle in the NROC in 2003, focusing on re-treating thistle-dominated areas treated in 2002. Identify additional locations within the Central Subregion where thistle control might be initiated.
2. Conduct field assessments in winter 2002/2003 to assess effectiveness of Transline in controlling artichoke thistle. If Transline continues to be successful in the control of artichoke thistle, initiate artichoke thistle control efforts using this herbicide in February/March 2003. Switch to the use of Roundup Pro once the artichoke thistle has terminated the basal rosette stage (April).
3. Conduct field assessments before treatment in 2003 to evaluate sites treated with different concentrations of the pre-emergent Telar. If sites sprayed with Telar at a rate of 1.5 ounces/acre appear completely denuded of any vegetation (other than thistle) relative to those sites treated with 0.5 ounce/acre, consider reducing the rate for all treatment locations.
4. Assess the need to conduct avian surveys prior to initiation of thistle control in selected areas.

ACKNOWLEDGEMENTS

This study was commissioned by NROC through funds provided by a California Department of Fish and Game NCCP Local Assistance Grant with matching funds provided by NROC. Access to the study areas was provided by The Irvine Company, the County of Orange Public Facilities & Resources Department, the University of California-Irvine, and California Department of State Parks. Special thanks go to Natures Image, Inc. and the County of Orange Public Facilities and Resources Department for their efforts to eradicate artichoke thistle from the San Joaquin Hills.

APPENDIX A

1997 DATA SUMMARY SHEETS

SAND CANYON

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	40.0%	0.0%	56.0%	10.0%	8.0%	0.0%
	2	10.0%	NW	Loam	30.0%	0.0%	42.0%	13.0%	15.0%	0.0%
	3	10.0%	NW	Loam	97.0%	0.0%	4.5%	0.0%	50.0%	0.0%
	4	10.0%	NW	Loam	25.0%	0.0%	66.0%	5.0%	3.0%	1.0%
	5	10.0%	NW	Loam	25.0%	0.0%	23.0%	32.0%	20.0%	0.0%
Total Average Cover (T1)					43.4%	0.0%	38.3%	12.0%	19.2%	1.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	40.0%	0.0%	77.0%	18.0%	3.0%	2.0%
	2	10.0%	NW	Loam	45.0%	0.0%	69.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	20.0%	0.0%	62.0%	0.0%	20.0%	1.0%
	4	10.0%	NW	Loam	60.0%	0.0%	18.5%	0.0%	30.0%	0.0%
	5	10.0%	NW	Loam	5.0%	0.0%	107.5%	0.0%	0.0%	0.0%
Total Average Cover (T2)					34.0%	0.0%	66.8%	3.6%	10.6%	3.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	80.0%	0.0%	41.0%	0.0%	20.0%	0.0%
	2	10.0%	NW	Loam	50.0%	0.0%	77.0%	0.0%	7.0%	0.0%
	3	10.0%	NW	Loam	70.0%	0.0%	47.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Loam	50.0%	0.0%	32.0%	10.0%	30.0%	0.0%
	5	10.0%	NW	Loam	5.0%	0.0%	108.0%	0.0%	4.0%	0.0%
Total Average Cover (T3)					51.0%	0.0%	61.0%	2.0%	12.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	32.0%	0.0%	85.0%	0.0%	12.0%	0.0%
	2	10.0%	NW	Loam	80.0%	0.0%	32.0%	0.0%	50.0%	0.0%
	3	10.0%	NW	Loam	40.0%	0.0%	65.0%	0.0%	25.0%	0.0%
	4	10.0%	NW	Loam	40.0%	0.0%	54.0%	4.0%	25.0%	0.0%
	5	10.0%	NW	Loam	5.0%	0.0%	57.0%	2.0%	36.0%	0.0%
Total Average Cover (T4)					39.4%	0.0%	58.6%	1.2%	29.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	65.0%	0.0%	59.0%	1.0%	20.0%	0.0%
	2	10.0%	NW	Loam	60.0%	0.0%	30.0%	0.0%	30.0%	0.0%
	3	10.0%	NW	Loam	60.0%	0.0%	56.0%	8.0%	10.0%	0.0%
	4	10.0%	NW	Loam	50.0%	0.0%	57.0%	13.0%	10.0%	0.0%
	5	10.0%	NW	Loam	5.0%	0.0%	100.0%	0.0%	2.0%	0.0%
Total Average Cover (T5)					48.0%	0.0%	60.4%	4.4%	14.4%	0.0%

TOTAL AVERAGE COVER (T1-T5)					43.2%	0.0%	57.0%	4.6%	17.2%	0.2%
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BOMMER RIDGE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	90.0%	0.0%	75.5%	0.0%	15.0%	0.0%
	2	10.0%	W	Clay	55.0%	0.0%	87.0%	0.5%	0.0%	0.0%
	3	10.0%	W	Clay	40.0%	0.0%	53.0%	4.0%	3.0%	0.0%
	4	10.0%	W	Clay	15.0%	0.0%	43.0%	37.0%	5.0%	0.0%
	5	10.0%	W	Clay	25.0%	2.0%	54.0%	19.0%	0.0%	0.0%
Total Average Cover (T1)					45.0%	0.4%	62.5%	12.1%	4.6%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	5.0%	0.0%	90.0%	12.0%	0.0%	0.0%
	2	10.0%	W	Clay	50.0%	0.0%	84.0%	0.0%	4.0%	0.0%
	3	10.0%	W	Clay	15.0%	0.0%	101.0%	0.0%	0.0%	0.0%
	4	10.0%	W	Clay	25.0%	0.0%	77.0%	8.0%	10.0%	0.0%
	5	10.0%	W	Clay	60.0%	5.0%	71.0%	5.0%	5.0%	0.0%
Total Average Cover (T2)					31.0%	1.0%	84.6%	5.0%	3.8%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	20.0%	0.0%	105.5%	7.0%	0.0%	0.0%
	2	10.0%	W	Clay	70.0%	0.0%	45.0%	7.0%	15.0%	0.0%
	3	10.0%	W	Clay	35.0%	0.0%	43.0%	35.0%	0.0%	0.0%
	4	10.0%	W	Clay	25.0%	0.0%	49.0%	22.0%	4.0%	0.0%
	5	10.0%	W	Clay	40.0%	0.0%	89.0%	2.0%	3.0%	0.0%
Total Average Cover (T3)					38.0%	0.0%	66.3%	14.6%	4.4%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	30.0%	11.0%	24.0%	33.0%	2.0%	0.0%
	2	10.0%	W	Clay	10.0%	0.0%	56.0%	34.0%	0.0%	0.0%
	3	10.0%	W	Clay	15.0%	0.0%	35.0%	70.0%	7.0%	0.0%
	4	10.0%	W	Clay	55.0%	0.0%	62.0%	12.0%	4.0%	0.0%
	5	10.0%	W	Clay	20.0%	0.0%	81.0%	20.0%	2.0%	0.0%
Total Average Cover (T4)					26.0%	2.2%	51.6%	33.8%	3.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	80.0%	5.0%	40.0%	0.0%	3.0%	0.0%
	2	10.0%	W	Clay	30.0%	0.0%	37.0%	33.0%	0.0%	0.0%
	3	10.0%	W	Clay	60.0%	0.0%	61.0%	10.0%	3.0%	0.0%
	4	10.0%	W	Clay	25.0%	0.0%	37.5%	38.0%	0.0%	0.0%
	5	10.0%	W	Clay	50.0%	0.0%	51.0%	25.0%	5.0%	0.0%
Total Average Cover (T5)					49.0%	1.0%	45.3%	21.2%	2.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					37.8%	0.9%	62.1%	17.3%	3.6%	0.0%
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SHADY SPUR

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	30.0%	10.0%	65.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	90.0%	5.0%	20.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	95.0%	0.0%	5.0%	7.0%	0.0%	0.0%
	4	10.0%	NW	Clay	75.0%	0.0%	30.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	95.0%	0.0%	15.0%	5.0%	0.0%	0.0%
Total Average Cover (T1)					77.0%	3.0%	27.0%	2.4%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	65.0%	15.0%	7.0%	0.0%	10.0%	0.0%
	2	10.0%	NW	Clay	100.0%	0.0%	25.0%	0.0%	60.0%	0.0%
	3	10.0%	NW	Clay	100.0%	0.0%	0.0%	0.0%	65.0%	0.0%
	4	10.0%	NW	Clay	100.0%	0.0%	0.0%	0.0%	10.0%	0.0%
	5	10.0%	NW	Clay	85.0%	0.0%	10.0%	0.0%	10.0%	0.0%
Total Average Cover (T2)					90.0%	3.0%	8.4%	0.0%	31.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	65.0%	10.0%	15.0%	0.0%	55.0%	0.0%
	2	10.0%	NW	Clay	100.0%	0.0%	10.0%	0.0%	60.0%	0.0%
	3	10.0%	NW	Clay	95.0%	0.0%	10.0%	10.0%	5.0%	0.0%
	4	10.0%	NW	Clay	30.0%	5.0%	40.0%	25.0%	0.0%	0.0%
	5	10.0%	NW	Clay	45.0%	10.0%	40.0%	0.0%	60.0%	0.0%
Total Average Cover (T3)					67.0%	5.0%	23.0%	7.0%	36.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	85.0%	10.0%	10.0%	0.0%	40.0%	0.0%
	2	10.0%	NW	Clay	70.0%	0.0%	25.0%	0.0%	35.0%	0.0%
	3	10.0%	NW	Clay	100.0%	2.0%	20.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	65.0%	0.0%	35.0%	10.0%	0.0%	0.0%
	5	10.0%	NW	Clay	95.0%	0.0%	15.0%	0.0%	60.0%	0.0%
Total Average Cover (T4)					83.0%	2.4%	21.0%	2.0%	27.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	65.0%	5.0%	30.0%	0.0%	35.0%	0.0%
	2	10.0%	NW	Clay	80.0%	5.0%	15.0%	0.0%	60.0%	0.0%
	3	10.0%	NW	Clay	85.0%	0.0%	15.0%	0.0%	75.0%	0.0%
	4	10.0%	NW	Clay	35.0%	0.0%	65.0%	0.0%	10.0%	0.0%
	5	10.0%	NW	Clay	90.0%	0.0%	10.0%	0.0%	70.0%	0.0%
Total Average Cover (T5)					71.0%	2.0%	27.0%	0.0%	50.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					77.6%	3.1%	21.3%	2.3%	28.8%	0.0%
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MUDDY CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	101.0%	0.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	6.0%	100.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	3.0%	117.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	161.0%	0.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	170.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					0.0%	1.8%	129.8%	0.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	2.0%	160.0%	0.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	10.0%	143.5%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	150.0%	5.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	125.0%	12.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					0.0%	2.4%	134.7%	3.4%	1.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	105.0%	2.0%	5.0%	0.0%
	2	0-10%	E	Clay	0.0%	2.0%	157.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	15.0%	91.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	97.0%	5.0%	5.0%	0.0%
	5	0-10%	E	Clay	0.0%	1.0%	100.0%	10.0%	0.0%	0.0%
Total Average Cover (T3)					0.0%	3.6%	110.0%	3.4%	2.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	1.0%	95.0%	0.0%	15.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	3	0-10%	E	Clay	0.0%	3.0%	117.0%	0.0%	15.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	130.0%	20.0%	15.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	118.0%	0.0%	15.0%	0.0%
Total Average Cover (T4)					0.0%	0.8%	108.0%	4.0%	16.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	10.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	140.0%	0.0%	12.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	120.0%	0.0%	10.0%	0.0%
	4	0-10%	E	Clay	0.0%	1.0%	130.0%	0.0%	15.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	122.0%	0.0%	30.0%	0.0%
Total Average Cover (T5)					0.0%	0.2%	122.4%	0.0%	15.4%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.0%	1.8%	121.0%	2.2%	6.9%	0.0%
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MUDDY CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	25.0%	0.0%	54.0%	21.0%	0.0%	0.0%
	2	0-10%	NE	Clay	20.0%	0.0%	49.0%	31.0%	0.0%	0.0%
	3	0-10%	NE	Clay	20.0%	0.0%	87.0%	25.0%	0.0%	0.0%
	4	0-10%	NE	Clay	20.0%	0.0%	97.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	6.0%	0.0%	136.0%	6.0%	0.0%	0.0%
Total Average Cover (T1)					18.2%	0.0%	84.6%	18.6%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	13.0%	8.0%	55.0%	40.0%	0.0%	0.0%
	2	0-10%	NE	Clay	10.0%	0.0%	98.0%	11.0%	0.0%	0.0%
	3	0-10%	NE	Clay	12.0%	0.0%	83.0%	20.0%	0.0%	0.0%
	4	0-10%	NE	Clay	10.0%	0.0%	96.0%	10.0%	2.0%	0.0%
	5	0-10%	NE	Clay	20.0%	0.0%	83.0%	10.0%	0.0%	0.0%
Total Average Cover (T2)					13.0%	1.6%	83.0%	18.2%	0.4%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	40.0%	0.0%	52.0%	30.0%	0.0%	0.0%
	2	0-10%	NE	Clay	20.0%	1.0%	65.0%	22.0%	0.0%	0.0%
	3	0-10%	NE	Clay	11.0%	1.0%	79.0%	20.0%	0.0%	0.0%
	4	0-10%	NE	Clay	20.0%	0.0%	115.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	18.0%	0.0%	94.0%	8.0%	0.0%	0.0%
Total Average Cover (T3)					21.8%	0.4%	81.0%	18.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	16.0%	0.0%	53.5%	31.0%	0.0%	0.0%
	2	0-10%	NE	Clay	8.0%	52.0%	40.0%	14.0%	0.0%	0.0%
	3	0-10%	NE	Clay	20.0%	0.0%	79.0%	13.0%	0.0%	0.0%
	4	0-10%	NE	Clay	13.0%	0.0%	75.0%	12.0%	0.0%	0.0%
	5	0-10%	NE	Clay	8.0%	1.5%	86.0%	30.0%	0.0%	0.0%
Total Average Cover (T4)					13.0%	10.7%	66.7%	20.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	22.0%	0.0%	34.0%	50.0%	0.0%	0.0%
	2	0-10%	NE	Clay	5.0%	1.0%	68.0%	26.0%	0.0%	0.0%
	3	0-10%	NE	Clay	10.0%	1.0%	81.0%	12.0%	0.0%	0.0%
	4	0-10%	NE	Clay	18.0%	0.0%	75.0%	25.0%	0.0%	0.0%
	5	0-10%	NE	Clay	22.0%	0.0%	81.0%	12.0%	0.0%	0.0%
Total Average Cover (T5)					15.4%	0.4%	67.8%	25.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					16.3%	2.6%	76.6%	20.0%	0.1%	0.0%
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MUDDY CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	1.0%	0.0%	90.0%	20.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.5%	110.5%	5.0%	0.0%	0.0%
	3	35-60%	E	Clay	1.0%	0.0%	102.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	5	35-60%	E	Clay	50.0%	0.0%	60.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					10.4%	0.1%	90.5%	7.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	3.0%	76.0%	21.0%	0.0%	0.0%
	2	35-60%	E	Clay	3.0%	0.0%	97.0%	7.0%	0.0%	0.0%
	3	35-60%	E	Clay	10.0%	0.0%	98.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	108.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	0.0%	0.0%	117.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					2.6%	0.6%	99.2%	5.6%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	8.0%	2.0%	91.0%	15.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	130.0%	0.0%	0.0%	0.0%
	3	35-60%	E	Clay	3.0%	0.0%	94.5%	5.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	111.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	0.0%	0.0%	112.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					2.2%	0.4%	107.7%	4.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	3.0%	0.0%	93.0%	15.0%	0.0%	0.0%
	2	35-60%	E	Clay	25.0%	0.0%	91.0%	5.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	117.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	3.0%	0.0%	112.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	5.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					7.2%	0.0%	102.6%	4.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.5%	0.0%	80.0%	25.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	114.0%	0.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	106.5%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	0.0%	0.0%	117.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					0.1%	0.0%	103.5%	5.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					4.5%	0.2%	100.7%	5.1%	0.0%	0.0%
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MUDDY CANYON 6

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	40.0%	0.0%	24.0%	0.0%	50.0%	0.0%
	2	10-35%	E	Clay	30.0%	6.0%	7.0%	0.0%	70.0%	0.0%
	3	10-35%	E	Clay	60.0%	5.5%	26.0%	0.0%	10.0%	0.0%
	4	10-35%	E	Clay	15.0%	0.0%	22.5%	3.0%	60.0%	0.0%
	5	10-35%	E	Clay	35.0%	0.0%	54.0%	11.0%	10.0%	0.0%
Total Average Cover (T1)					36.0%	2.3%	26.7%	2.8%	40.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	55.0%	0.0%	9.0%	3.0%	60.0%	0.0%
	2	10-35%	E	Clay	42.0%	0.0%	11.0%	0.0%	75.0%	0.0%
	3	10-35%	E	Clay	55.0%	0.0%	23.0%	0.0%	55.0%	0.0%
	4	10-35%	E	Clay	10.0%	0.0%	82.0%	0.0%	40.0%	0.0%
	5	10-35%	E	Clay	7.0%	0.0%	11.0%	0.0%	95.0%	0.0%
Total Average Cover (T2)					33.8%	0.0%	27.2%	0.6%	65.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	13.0%	0.0%	47.0%	0.0%	42.0%	0.0%
	2	10-35%	E	Clay	18.0%	0.0%	12.0%	3.0%	89.0%	0.0%
	3	10-35%	E	Clay	16.0%	3.0%	36.5%	0.0%	47.0%	0.0%
	4	10-35%	E	Clay	14.0%	0.0%	38.5%	0.0%	48.0%	0.0%
	5	10-35%	E	Clay	8.0%	0.0%	13.0%	0.0%	99.0%	0.0%
Total Average Cover (T3)					13.8%	0.6%	29.4%	0.6%	65.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	16.0%	3.0%	83.0%	4.0%	6.0%	0.0%
	2	10-35%	E	Clay	34.0%	0.0%	63.0%	0.0%	20.0%	0.0%
	3	10-35%	E	Clay	28.0%	0.0%	31.0%	17.0%	24.0%	0.0%
	4	10-35%	E	Clay	3.0%	0.0%	20.0%	17.0%	60.0%	0.0%
	5	10-35%	E	Clay	16.0%	0.0%	48.5%	0.0%	69.0%	0.0%
Total Average Cover (T4)					19.4%	0.6%	49.1%	7.6%	35.8%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	25.0%	0.0%	60.0%	5.0%	15.0%	0.0%
	2	10-35%	E	Clay	11.0%	0.0%	56.0%	11.0%	22.0%	0.0%
	3	10-35%	E	Clay	7.0%	0.0%	22.0%	0.0%	87.0%	0.0%
	4	10-35%	E	Clay	7.0%	1.0%	44.0%	0.0%	40.0%	0.0%
	5	10-35%	E	Clay	10.0%	0.0%	32.0%	3.0%	55.0%	0.0%
Total Average Cover (T5)					12.0%	0.2%	42.8%	3.8%	43.8%	0.0%

TOTAL AVERAGE COVER (T1-T5)					23.0%	0.7%	35.0%	3.1%	49.9%	0.0%
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APPENDIX B

1998 DATA SUMMARY SHEETS

SAND CANYON

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	60.0%	0.0%	40.0%	10.0%	0.0%	0.0%
	2	10.0%	NW	Loam	40.0%	0.0%	80.0%	10.0%	0.0%	0.0%
	3	10.0%	NW	Loam	95.0%	0.0%	18.0%	40.0%	0.0%	0.0%
	4	10.0%	NW	Loam	25.0%	0.0%	76.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Loam	80.0%	0.0%	20.0%	20.0%	10.0%	0.0%
Total Average Cover (T1)					60.0%	0.0%	46.8%	16.0%	2.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	100.0%	0.0%	14.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	25.0%	0.0%	66.0%	20.0%	0.0%	0.0%
	3	10.0%	NW	Loam	80.0%	0.0%	26.0%	10.0%	0.0%	0.0%
	4	10.0%	NW	Loam	80.0%	0.0%	17.0%	30.0%	0.0%	0.0%
	5	10.0%	NW	Loam	20.0%	0.0%	61.0%	45.0%	0.0%	0.0%
Total Average Cover (T2)					61.0%	0.0%	36.8%	21.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	50.0%	0.0%	62.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	90.0%	0.0%	6.0%	20.0%	0.0%	0.0%
	3	10.0%	NW	Loam	100.0%	0.0%	26.5%	10.0%	0.0%	0.0%
	4	10.0%	NW	Loam	70.0%	0.0%	32.0%	10.0%	0.0%	0.0%
	5	10.0%	NW	Loam	20.0%	0.0%	80.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					66.0%	0.0%	41.3%	8.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	70.0%	0.0%	52.5%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	70.0%	0.0%	61.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	70.0%	0.0%	35.0%	25.0%	0.0%	0.0%
	4	10.0%	NW	Loam	80.0%	0.0%	13.0%	15.0%	0.0%	0.0%
	5	10.0%	NW	Loam	25.0%	0.0%	77.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					63.0%	0.0%	47.7%	8.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	45.0%	0.0%	50.0%	5.0%	0.0%	0.0%
	2	10.0%	NW	Loam	75.0%	0.0%	46.0%	15.0%	0.0%	0.0%
	3	10.0%	NW	Loam	40.0%	0.0%	61.0%	5.0%	0.0%	0.0%
	4	10.0%	NW	Loam	10.0%	0.0%	90.5%	5.0%	0.0%	0.0%
	5	10.0%	NW	Loam	10.0%	0.0%	96.5%	0.0%	0.0%	0.0%
Total Average Cover (T5)					36.0%	0.0%	68.8%	6.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					57.2%	0.0%	48.3%	11.8%	0.4%	0.0%
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BOMMER RIDGE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	30.0%	0.0%	50.0%	10.0%	10.0%	0.0%
	2	10.0%	W	Clay	30.0%	0.0%	75.5%	0.0%	10.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	70.5%	22.0%	8.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	60.0%	15.0%	25.0%	0.0%
	5	10.0%	W	Clay	5.0%	0.0%	80.5%	15.0%	0.0%	0.0%
Total Average Cover (T1)					13.0%	0.0%	67.3%	12.4%	10.6%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%
	2	10.0%	W	Clay	25.0%	0.0%	39.0%	18.0%	25.0%	0.0%
	3	10.0%	W	Clay	5.0%	0.0%	78.0%	10.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	75.5%	25.0%	0.0%	0.0%
	5	10.0%	W	Clay	15.0%	0.0%	65.0%	20.0%	0.0%	0.0%
Total Average Cover (T2)					9.0%	0.0%	61.5%	24.6%	7.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	5.0%	0.0%	45.5%	60.0%	0.0%	0.0%
	2	10.0%	W	Clay	5.0%	0.0%	70.0%	15.0%	10.0%	0.0%
	3	10.0%	W	Clay	8.0%	0.0%	60.0%	35.0%	0.0%	0.0%
	4	10.0%	W	Clay	18.0%	0.0%	55.0%	40.0%	5.0%	0.0%
	5	10.0%	W	Clay	10.0%	0.0%	85.5%	5.0%	5.0%	0.0%
Total Average Cover (T3)					9.2%	0.0%	63.2%	31.0%	4.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	5.0%	0.0%	70.0%	25.0%	0.0%	0.0%
	2	10.0%	W	Clay	2.0%	0.0%	78.0%	25.0%	0.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	43.0%	70.0%	0.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	73.0%	17.0%	10.0%	0.0%
	5	10.0%	W	Clay	22.0%	0.0%	68.0%	10.0%	0.0%	0.0%
Total Average Cover (T4)					5.8%	0.0%	66.4%	29.4%	2.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	25.0%	3.0%	44.0%	30.0%	0.0%	0.0%
	2	10.0%	W	Clay	10.0%	0.0%	35.0%	40.0%	15.0%	0.0%
	3	10.0%	W	Clay	0.5%	0.0%	47.0%	42.5%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	30.0%	55.0%	15.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	65.5%	35.0%	0.0%	0.0%
Total Average Cover (T5)					7.1%	0.6%	44.3%	40.5%	8.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					8.8%	0.1%	60.5%	27.6%	6.3%	0.0%
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BOMMER CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	13.0%	0.0%	87.5%	1.0%	0.0%	0.0%
	2	0.0%	NW	Clay	2.0%	0.0%	103.5%	2.0%	0.0%	0.0%
	3	0.0%	NW	Clay	100.0%	0.0%	50.0%	0.0%	0.0%	0.0%
	4	0.0%	NW	Clay	90.0%	0.5%	60.5%	5.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.5%	1.0%	0.0%	0.0%
Total Average Cover (T1)					41.0%	0.1%	80.4%	1.8%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	60.0%	0.0%	43.0%	10.0%	0.0%	0.0%
	2	0.0%	NW	Clay	85.0%	0.0%	42.0%	5.0%	0.0%	0.0%
	3	0.0%	NW	Clay	60.0%	0.0%	40.0%	10.0%	0.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	70.5%	30.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	97.0%	5.0%	0.0%	0.0%
Total Average Cover (T2)					41.0%	0.0%	58.5%	12.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	55.0%	0.0%	98.0%	2.0%	0.0%	0.0%
	2	0.0%	NW	Clay	95.0%	0.0%	52.0%	0.0%	2.0%	0.0%
	3	0.0%	NW	Clay	40.0%	0.0%	66.0%	2.0%	0.0%	0.0%
	4	0.0%	NW	Clay	20.0%	0.0%	81.5%	2.0%	0.0%	0.0%
	5	0.0%	NW	Clay	70.0%	0.0%	61.0%	6.0%	2.0%	0.0%
Total Average Cover (T3)					56.0%	0.0%	71.7%	2.4%	0.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	45.0%	0.0%	33.0%	22.0%	0.0%	0.0%
	2	0.0%	NW	Clay	40.0%	0.0%	67.0%	10.0%	0.0%	0.0%
	3	0.0%	NW	Clay	25.0%	0.0%	32.0%	50.0%	0.0%	0.0%
	4	0.0%	NW	Clay	100.0%	0.0%	32.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	60.0%	0.0%	50.5%	0.0%	0.0%	0.0%
Total Average Cover (T4)					54.0%	0.0%	42.9%	16.4%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	100.0%	0.0%	50.0%	0.0%	5.0%	0.0%
	2	0.0%	NW	Clay	90.0%	0.0%	40.5%	0.0%	5.0%	0.0%
	3	0.0%	NW	Clay	40.0%	0.0%	50.5%	10.0%	5.0%	0.0%
	4	0.0%	NW	Clay	55.0%	0.0%	67.0%	0.0%	25.0%	0.0%
	5	0.0%	NW	Clay	45.0%	0.0%	69.0%	10.0%	0.0%	0.0%
Total Average Cover (T5)					66.0%	0.0%	55.4%	4.0%	8.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					51.6%	0.0%	61.8%	7.3%	1.8%	0.0%
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BOMMER CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	100.5%	10.0%	0.0%	0.0%
	2	0-10%	N	Clay	100.0%	0.0%	20.5%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	75.0%	0.0%	30.5%	10.0%	20.0%	0.0%
	4	0-10%	N	Clay	80.0%	0.0%	71.0%	0.0%	10.0%	0.0%
	5	0-10%	N	Clay	85.0%	0.0%	40.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					68.0%	0.0%	52.5%	4.0%	8.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	92.0%	0.0%	29.0%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	100.0%	0.0%	21.0%	0.0%	10.0%	0.0%
	3	0-10%	N	Clay	95.0%	0.0%	24.5%	0.0%	5.0%	0.0%
	4	0-10%	N	Clay	75.0%	0.0%	47.0%	0.0%	10.0%	0.0%
	5	0-10%	N	Clay	25.0%	0.0%	63.5%	20.0%	0.0%	0.0%
Total Average Cover (T2)					77.4%	0.0%	37.0%	4.0%	7.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	100.0%	0.0%	38.0%	10.0%	0.0%	0.0%
	2	0-10%	N	Clay	25.0%	0.0%	83.0%	10.0%	0.0%	0.0%
	3	0-10%	N	Clay	40.0%	0.0%	94.5%	3.0%	0.0%	0.0%
	4	0-10%	N	Clay	45.0%	0.0%	40.0%	15.0%	0.0%	0.0%
	5	0-10%	N	Clay	95.0%	0.0%	21.5%	0.0%	15.0%	0.0%
Total Average Cover (T3)					61.0%	0.0%	55.4%	7.6%	3.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	87.0%	0.0%	37.5%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	100.0%	0.0%	3.5%	0.0%	20.0%	0.0%
	3	0-10%	N	Clay	100.0%	0.0%	1.5%	0.0%	15.0%	0.0%
	4	0-10%	N	Clay	100.0%	0.0%	20.0%	0.0%	20.0%	0.0%
	5	0-10%	N	Clay	70.0%	0.0%	26.0%	20.0%	0.0%	0.0%
Total Average Cover (T4)					91.4%	0.0%	17.7%	4.0%	13.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	50.0%	1.0%	73.0%	10.0%	0.0%	0.0%
	2	0-10%	N	Clay	5.0%	0.0%	96.0%	5.0%	0.0%	0.0%
	3	0-10%	N	Clay	20.0%	0.0%	88.0%	4.0%	0.0%	0.0%
	4	0-10%	N	Clay	10.0%	0.0%	117.5%	8.0%	0.0%	0.0%
	5	0-10%	N	Clay	25.0%	0.0%	102.0%	5.0%	0.0%	0.0%
Total Average Cover (T5)					22.0%	0.2%	95.3%	6.4%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					64.0%	0.0%	51.6%	5.2%	6.2%	0.0%
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BOMMER CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	70.0%	0.0%	41.5%	5.0%	0.0%	0.0%
	2	0.0%	E	Clay	100.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	3	0.0%	E	Clay	85.0%	0.0%	22.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	25.0%	0.0%	55.0%	20.0%	0.0%	0.0%
Total Average Cover (T1)					74.0%	0.0%	27.7%	5.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	80.0%	0.0%	5.0%	30.0%	0.0%	0.0%
	2	0.0%	E	Clay	100.0%	0.0%	7.0%	0.0%	0.0%	0.0%
	3	0.0%	E	Clay	20.0%	0.0%	70.0%	10.0%	0.0%	0.0%
	4	0.0%	E	Clay	95.0%	0.0%	27.0%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	40.0%	0.0%	70.0%	15.0%	0.0%	0.0%
Total Average Cover (T2)					67.0%	0.0%	35.8%	11.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	100.0%	0.0%	5.0%	0.0%	0.0%	0.0%
	2	0.0%	E	Clay	90.0%	0.0%	25.0%	10.0%	10.0%	0.0%
	3	0.0%	E	Clay	55.0%	0.0%	52.5%	5.0%	0.0%	0.0%
	4	0.0%	E	Clay	95.0%	0.0%	10.5%	0.0%	10.0%	0.0%
	5	0.0%	E	Clay	95.0%	0.0%	20.5%	0.0%	10.0%	0.0%
Total Average Cover (T3)					87.0%	0.0%	22.7%	3.0%	6.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	30.0%	0.0%	54.0%	30.0%	0.0%	0.0%
	2	0.0%	E	Clay	95.0%	0.0%	22.0%	0.0%	0.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	4	0.0%	E	Clay	98.0%	0.0%	35.5%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	80.0%	0.0%	30.5%	0.0%	10.0%	0.0%
Total Average Cover (T4)					60.6%	0.0%	47.4%	7.0%	2.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	20.0%	0.0%	70.0%	10.0%	0.0%	0.0%
	2	0.0%	E	Clay	90.0%	0.0%	30.0%	0.0%	10.0%	0.0%
	3	0.0%	E	Clay	32.0%	0.0%	78.5%	3.0%	0.0%	0.0%
	4	0.0%	E	Clay	85.0%	0.0%	50.5%	0.0%	5.0%	0.0%
	5	0.0%	E	Clay	55.0%	0.0%	30.0%	25.0%	0.0%	0.0%
Total Average Cover (T5)					56.4%	0.0%	51.8%	7.6%	3.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					69.0%	0.0%	37.1%	6.7%	2.2%	0.0%
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BOMMER CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	70.0%	1.0%	24.0%	5.0%	0.0%	0.0%
	2	10.0%	E	Clay	75.0%	0.0%	45.5%	0.0%	0.0%	0.0%
	3	10.0%	E	Clay	50.0%	0.0%	64.0%	5.0%	0.0%	0.0%
	4	10.0%	E	Clay	100.0%	0.0%	62.0%	5.0%	0.0%	0.0%
	5	10.0%	E	Clay	25.0%	0.0%	50.0%	25.0%	0.0%	0.0%
Total Average Cover (T1)					64.0%	0.2%	49.1%	8.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	40.0%	0.0%	35.5%	24.5%	0.0%	0.0%
	2	10.0%	E	Clay	20.0%	0.0%	55.0%	25.0%	0.0%	0.0%
	3	10.0%	E	Clay	95.0%	0.0%	61.5%	5.0%	0.0%	0.0%
	4	10.0%	E	Clay	35.0%	0.0%	45.0%	30.0%	0.0%	0.0%
	5	10.0%	E	Clay	100.0%	0.0%	60.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					58.0%	0.0%	51.4%	16.9%	1.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	20.0%	0.0%	50.5%	30.0%	0.0%	0.0%
	2	10.0%	E	Clay	35.0%	0.0%	54.0%	30.0%	5.0%	0.0%
	3	10.0%	E	Clay	40.0%	0.0%	37.0%	30.0%	0.0%	0.0%
	4	10.0%	E	Clay	90.0%	0.0%	41.5%	0.0%	0.0%	0.0%
	5	10.0%	E	Clay	60.0%	0.0%	51.5%	15.0%	0.0%	0.0%
Total Average Cover (T3)					49.0%	0.0%	46.9%	21.0%	1.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	80.0%	0.0%	42.0%	10.0%	0.0%	0.0%
	2	10.0%	E	Clay	60.0%	0.5%	44.0%	10.0%	0.0%	0.0%
	3	10.0%	E	Clay	45.0%	0.0%	46.5%	30.0%	0.0%	0.0%
	4	10.0%	E	Clay	75.0%	0.0%	50.0%	0.0%	5.0%	0.0%
	5	10.0%	E	Clay	75.0%	0.0%	42.5%	10.0%	0.0%	0.0%
Total Average Cover (T4)					67.0%	0.1%	45.0%	12.0%	1.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	15.0%	0.0%	69.5%	15.0%	0.0%	2.0%
	2	10.0%	E	Clay	10.0%	0.0%	48.0%	42.0%	0.0%	0.0%
	3	10.0%	E	Clay	85.0%	0.0%	41.5%	5.0%	0.0%	0.0%
	4	10.0%	E	Clay	35.0%	0.0%	41.0%	24.0%	0.0%	0.0%
	5	10.0%	E	Clay	20.0%	0.0%	50.5%	30.0%	0.0%	0.0%
Total Average Cover (T5)					33.0%	0.0%	50.1%	23.2%	0.0%	0.4%

TOTAL AVERAGE COVER (T1-T5)					54.2%	0.1%	48.5%	16.2%	0.6%	0.1%
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BOMMER CANYON 5

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	30.0%	0.0%	63.5%	6.5%	0.0%	0.0%
	2	10-35%	E	Clay	35.0%	0.0%	93.0%	5.0%	0.0%	0.0%
	3	10-35%	E	Clay	20.0%	0.0%	70.0%	10.0%	0.0%	0.0%
	4	10-35%	E	Clay	70.0%	0.0%	62.0%	0.0%	0.0%	0.0%
	5	10-35%	E	Clay	100.0%	0.0%	25.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					51.0%	0.0%	62.7%	4.3%	2.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	15.0%	0.0%	76.5%	10.0%	0.0%	0.0%
	2	10-35%	E	Clay	35.0%	0.0%	81.0%	10.0%	0.0%	0.0%
	3	10-35%	E	Clay	35.0%	0.0%	53.0%	12.0%	0.0%	0.0%
	4	10-35%	E	Clay	80.0%	0.0%	50.5%	10.0%	0.0%	0.0%
	5	10-35%	E	Clay	65.0%	0.0%	51.0%	5.0%	0.0%	0.0%
Total Average Cover (T2)					46.0%	0.0%	62.4%	9.4%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	15.0%	0.0%	78.0%	7.0%	0.0%	0.0%
	2	10-35%	E	Clay	30.0%	0.0%	80.5%	10.0%	0.0%	0.0%
	3	10-35%	E	Clay	80.0%	0.0%	54.0%	15.0%	0.0%	0.0%
	4	10-35%	E	Clay	50.0%	0.0%	84.5%	3.0%	0.0%	0.0%
	5	10-35%	E	Clay	70.0%	0.0%	52.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					49.0%	0.0%	69.8%	7.0%	2.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	100.0%	0.0%	31.0%	0.0%	20.0%	0.0%
	2	10-35%	E	Clay	40.0%	0.0%	56.5%	10.0%	0.0%	0.0%
	3	10-35%	E	Clay	80.0%	0.0%	62.0%	0.0%	0.0%	0.0%
	4	10-35%	E	Clay	20.0%	0.0%	51.0%	30.0%	0.0%	0.0%
	5	10-35%	E	Clay	35.0%	0.0%	76.5%	5.0%	0.0%	0.0%
Total Average Cover (T4)					55.0%	0.0%	55.4%	9.0%	4.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	40.0%	0.0%	50.0%	0.0%	10.0%	0.0%
	2	10-35%	E	Clay	75.0%	0.0%	50.5%	0.0%	10.0%	0.0%
	3	10-35%	E	Clay	35.0%	0.0%	45.0%	30.0%	0.0%	0.0%
	4	10-35%	E	Clay	60.0%	0.0%	65.0%	10.0%	0.0%	0.0%
	5	10-35%	E	Clay	40.0%	0.0%	64.5%	10.0%	5.0%	0.0%
Total Average Cover (T5)					50.0%	0.0%	55.0%	10.0%	5.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					50.2%	0.0%	61.1%	7.9%	2.6%	0.0%
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SHADY SPUR

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	0.0%	25.0%	0.0%	75.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	5.5%	35.0%	60.0%	0.0%
	3	10.0%	NW	Clay	10.0%	0.0%	52.0%	1.0%	40.0%	0.0%
	4	10.0%	NW	Clay	0.5%	0.0%	35.0%	5.0%	65.0%	0.0%
	5	10.0%	NW	Clay	5.0%	0.5%	61.0%	3.0%	34.0%	0.0%
Total Average Cover (T1)					3.1%	0.1%	35.7%	8.8%	54.8%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	2.0%	1.0%	57.0%	0.0%	30.0%	0.0%
	2	10.0%	NW	Clay	0.5%	0.0%	5.0%	8.0%	87.0%	0.0%
	3	10.0%	NW	Clay	1.0%	0.0%	21.0%	18.0%	60.0%	0.0%
	4	10.0%	NW	Clay	1.0%	0.0%	60.0%	1.0%	38.0%	0.0%
	5	10.0%	NW	Clay	1.0%	0.0%	50.0%	8.0%	41.0%	0.0%
Total Average Cover (T2)					1.1%	0.2%	38.6%	7.0%	51.2%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	2.0%	0.0%	25.0%	10.0%	63.0%	0.0%
	2	10.0%	NW	Clay	8.0%	0.0%	38.0%	10.0%	44.0%	0.0%
	3	10.0%	NW	Clay	2.0%	0.0%	22.0%	10.0%	66.0%	0.0%
	4	10.0%	NW	Clay	1.0%	0.0%	36.0%	40.0%	23.0%	0.0%
	5	10.0%	NW	Clay	5.0%	0.5%	37.0%	12.0%	46.0%	0.0%
Total Average Cover (T3)					3.6%	0.1%	31.6%	16.4%	48.4%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	2.0%	0.0%	30.0%	2.0%	66.0%	0.0%
	2	10.0%	NW	Clay	0.5%	0.5%	86.0%	0.0%	13.0%	0.0%
	3	10.0%	NW	Clay	5.0%	0.0%	60.5%	4.5%	30.0%	0.0%
	4	10.0%	NW	Clay	2.0%	0.0%	53.0%	25.0%	20.0%	0.0%
	5	10.0%	NW	Clay	10.0%	0.5%	70.5%	0.0%	20.0%	0.0%
Total Average Cover (T4)					3.9%	0.2%	60.0%	6.3%	29.8%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.5%	5.0%	45.0%	0.0%	54.0%	0.0%
	2	10.0%	NW	Clay	0.5%	3.0%	10.0%	3.0%	83.5%	0.0%
	3	10.0%	NW	Clay	0.0%	2.0%	20.0%	17.0%	41.0%	0.0%
	4	10.0%	NW	Clay	0.5%	0.0%	73.5%	1.0%	25.0%	0.0%
	5	10.0%	NW	Clay	5.0%	0.0%	35.0%	15.0%	45.0%	0.0%
Total Average Cover (T5)					1.3%	2.0%	36.7%	7.2%	49.7%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.6%	0.5%	40.5%	9.1%	46.8%	0.0%
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MUDDY CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	1.0%	99.0%	0.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					0.0%	0.2%	98.8%	1.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	99.0%	1.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
Total Average Cover (T2)					0.0%	0.0%	96.8%	3.2%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	85.0%	15.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	97.0%	3.0%	0.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	95.4%	4.6%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	92.0%	8.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	100.0%	20.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	88.0%	12.0%	0.0%	0.0%
Total Average Cover (T4)					0.0%	0.0%	96.0%	8.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.5%	99.5%	0.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					0.0%	0.1%	98.9%	1.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.0%	0.1%	97.2%	3.6%	0.0%	0.0%
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MUDDY CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	15.0%	0.0%	75.0%	10.0%	0.0%	0.0%
	2	0-10%	NE	Clay	8.0%	0.0%	77.0%	15.0%	0.0%	0.0%
	3	0-10%	NE	Clay	50.0%	0.0%	40.0%	10.0%	0.0%	0.0%
	4	0-10%	NE	Clay	3.0%	0.0%	89.0%	8.0%	0.0%	0.0%
	5	0-10%	NE	Clay	5.0%	0.0%	92.0%	3.0%	0.0%	0.0%
Total Average Cover (T1)					16.2%	0.0%	74.6%	9.2%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	8.0%	0.0%	87.0%	5.0%	0.0%	0.0%
	2	0-10%	NE	Clay	8.0%	0.0%	82.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	20.0%	0.0%	65.0%	15.0%	0.0%	0.0%
	4	0-10%	NE	Clay	10.0%	0.0%	80.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	8.0%	0.0%	87.0%	5.0%	0.0%	0.0%
Total Average Cover (T2)					10.8%	0.0%	80.2%	9.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	8.0%	5.0%	62.0%	25.0%	0.0%	0.0%
	2	0-10%	NE	Clay	40.0%	0.0%	30.0%	30.0%	0.0%	0.0%
	3	0-10%	NE	Clay	5.0%	0.0%	75.0%	20.0%	0.0%	0.0%
	4	0-10%	NE	Clay	15.0%	0.0%	85.0%	0.0%	0.0%	0.0%
	5	0-10%	NE	Clay	5.0%	0.0%	90.0%	5.0%	0.0%	0.0%
Total Average Cover (T3)					14.6%	1.0%	68.4%	16.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	5.0%	0.0%	65.0%	30.0%	0.0%	0.0%
	2	0-10%	NE	Clay	10.0%	15.0%	50.0%	25.0%	0.0%	0.0%
	3	0-10%	NE	Clay	5.0%	3.0%	77.0%	15.0%	0.0%	0.0%
	4	0-10%	NE	Clay	15.0%	0.0%	75.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	25.0%	0.0%	63.0%	12.0%	0.0%	0.0%
Total Average Cover (T4)					12.0%	3.6%	66.0%	18.4%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	8.0%	0.0%	72.0%	20.0%	0.0%	0.0%
	2	0-10%	NE	Clay	12.0%	3.0%	55.0%	30.0%	0.0%	0.0%
	3	0-10%	NE	Clay	20.0%	0.0%	70.0%	20.0%	0.0%	0.0%
	4	0-10%	NE	Clay	5.0%	0.0%	62.0%	33.0%	0.0%	0.0%
	5	0-10%	NE	Clay	30.0%	0.0%	60.0%	10.0%	0.0%	0.0%
Total Average Cover (T5)					15.0%	0.6%	63.8%	22.6%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					13.7%	1.0%	70.6%	15.0%	0.0%	0.0%
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MUDDY CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	117.0%	5.0%	0.0%	0.0%
	2	35-60%	E	Clay	6.0%	0.0%	98.0%	20.0%	0.0%	0.0%
	3	35-60%	E	Clay	5.0%	0.0%	90.0%	5.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	110.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
Total Average Cover (T1)					2.2%	0.0%	102.0%	7.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	1.0%	89.0%	10.0%	0.0%	0.0%
	3	35-60%	E	Clay	30.0%	0.0%	97.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	5.0%	2.0%	73.0%	20.0%	0.0%	0.0%
	5	35-60%	E	Clay	45.0%	0.0%	90.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					16.0%	0.6%	87.8%	8.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	30.0%	0.0%	60.0%	10.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	130.0%	0.0%	0.0%	0.0%
	3	35-60%	E	Clay	15.0%	0.0%	75.0%	10.0%	0.0%	0.0%
	4	35-60%	E	Clay	10.0%	0.0%	125.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	40.0%	0.0%	60.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					19.0%	0.0%	90.0%	4.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	3.0%	0.0%	117.0%	5.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	93.0%	25.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	110.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	116.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	60.0%	0.0%	65.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					12.6%	0.0%	100.2%	6.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	98.0%	20.0%	0.0%	0.0%
	2	35-60%	E	Clay	35.0%	0.0%	55.0%	10.0%	0.0%	0.0%
	3	35-60%	E	Clay	65.0%	0.0%	70.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	30.0%	0.0%	70.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	0.0%	0.0%	104.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					26.0%	0.0%	79.4%	6.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					15.2%	0.1%	91.9%	6.2%	0.0%	0.0%
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MUDDY CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	106.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	95.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	2.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	30.0%	0.0%	60.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	10.0%	3.0%	112.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					8.4%	0.6%	94.6%	4.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	131.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	0.0%	133.0%	0.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	2.0%	93.0%	5.0%	0.0%	0.0%
Total Average Cover (T2)					0.0%	0.4%	110.4%	2.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	25.0%	0.5%	102.0%	5.0%	0.0%	0.0%
	2	0-10%	NE	Clay	3.0%	0.0%	97.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	23.0%	77.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	2.0%	93.0%	5.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	8.0%	105.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					5.6%	6.7%	94.8%	2.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	2.0%	98.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	1.0%	40.0%	72.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	20.0%	80.0%	0.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	5.0%	95.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					0.2%	13.4%	89.0%	0.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	1.0%	99.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	11.0%	79.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	5.0%	20.0%	85.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	5.0%	21.0%	76.0%	5.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					2.0%	10.6%	87.8%	3.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.2%	6.3%	95.3%	2.2%	0.0%	0.0%
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MUDDY CANYON 6

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	12.0%	2.0%	78.0%	20.0%	0.0%	0.0%
	2	10-35%	E	Clay	3.0%	0.0%	27.0%	70.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.0%	90.0%	10.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	85.0%	15.0%	0.0%	0.0%
Total Average Cover (T1)					3.0%	0.4%	38.0%	59.0%	2.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	12.0%	0.0%	83.0%	5.0%	0.0%	0.0%
	2	10-35%	E	Clay	2.0%	0.0%	45.0%	53.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	16.0%	76.0%	8.0%	0.0%
	4	10-35%	E	Clay	1.0%	0.0%	0.0%	94.0%	5.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	0.0%	20.0%	80.0%	0.0%
Total Average Cover (T2)					3.0%	0.0%	28.8%	49.6%	18.6%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	2.0%	0.0%	98.0%	0.0%	0.0%	0.0%
	2	10-35%	E	Clay	5.0%	0.0%	85.0%	10.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.5%	79.5%	20.0%	0.0%
	4	10-35%	E	Clay	0.5%	0.0%	0.0%	79.5%	20.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%
Total Average Cover (T3)					1.5%	0.0%	36.7%	43.8%	18.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	45.0%	1.0%	54.0%	0.0%	0.0%	0.0%
	2	10-35%	E	Clay	4.0%	0.0%	96.0%	0.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.0%	90.0%	10.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	0.0%	80.0%	20.0%	0.0%
	5	10-35%	E	Clay	10.0%	0.0%	37.0%	13.0%	40.0%	0.0%
Total Average Cover (T4)					11.8%	0.2%	37.4%	36.6%	14.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	8.0%	0.0%	52.0%	40.0%	0.0%	0.0%
	2	10-35%	E	Clay	2.0%	0.0%	5.5%	77.5%	15.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	0.5%	84.0%	15.5%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	20.0%	0.0%	80.0%	0.0%
Total Average Cover (T5)					2.0%	0.0%	15.6%	50.3%	32.1%	0.0%

TOTAL AVERAGE COVER (T1-T5)					4.3%	0.1%	31.3%	47.9%	16.9%	0.0%
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BOMMER RIDGE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	35.0%	0.0%	45.0%	15.0%	5.0%	0.0%
	2	10.0%	W	Clay	15.0%	0.0%	49.0%	6.0%	30.0%	0.0%
	3	10.0%	W	Clay	15.0%	0.0%	52.0%	8.0%	25.0%	0.0%
	4	10.0%	W	Clay	10.0%	0.0%	50.0%	15.0%	25.0%	0.0%
	5	10.0%	W	Clay	5.0%	0.0%	50.0%	15.0%	30.0%	0.0%
Total Average Cover (T1)					16.0%	0.0%	49.2%	11.8%	23.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	25.0%	0.0%	40.0%	20.0%	15.0%	0.0%
	2	10.0%	W	Clay	20.0%	0.0%	54.0%	16.0%	10.0%	0.0%
	3	10.0%	W	Clay	20.0%	0.0%	48.0%	17.0%	15.0%	0.0%
	4	10.0%	W	Clay	15.0%	0.0%	60.0%	5.0%	20.0%	0.0%
	5	10.0%	W	Clay	30.0%	0.0%	22.0%	28.0%	20.0%	0.0%
Total Average Cover (T2)					22.0%	0.0%	44.8%	17.2%	16.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	20.0%	0.0%	50.0%	20.0%	15.0%	0.0%
	2	10.0%	W	Clay	35.0%	0.0%	35.0%	15.0%	15.0%	0.0%
	3	10.0%	W	Clay	70.0%	0.0%	25.0%	15.0%	0.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	80.0%	10.0%	10.0%	0.0%
	5	10.0%	W	Clay	10.0%	0.0%	80.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					27.0%	0.0%	54.0%	12.0%	10.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	40.0%	0.0%	20.0%	30.0%	10.0%	0.0%
	2	10.0%	W	Clay	35.0%	0.0%	40.0%	30.0%	10.0%	0.0%
	3	10.0%	W	Clay	2.0%	0.0%	48.0%	50.0%	0.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	58.0%	13.0%	30.0%	0.0%
	5	10.0%	W	Clay	80.0%	0.0%	20.0%	10.0%	10.0%	0.0%
Total Average Cover (T4)					31.4%	0.0%	37.2%	26.6%	12.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	30.0%	5.0%	30.0%	15.0%	20.0%	0.0%
	2	10.0%	W	Clay	65.0%	0.0%	37.0%	15.0%	10.0%	0.0%
	3	10.0%	W	Clay	5.0%	0.0%	40.0%	35.0%	20.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	56.0%	30.0%	15.0%	0.0%
	5	10.0%	W	Clay	20.0%	0.0%	50.0%	20.0%	10.0%	0.0%
Total Average Cover (T5)					24.0%	1.0%	42.6%	23.0%	15.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					24.1%	0.2%	45.6%	18.1%	15.2%	0.0%
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BOMMER CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	97.0%	5.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	98.0%	2.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	20.0%	30.0%	50.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	5	0.0%	NW	Clay	0.0%	3.0%	90.0%	0.0%	7.0%	0.0%
Total Average Cover (T1)					0.0%	0.6%	73.0%	7.4%	19.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	50.0%	30.0%	20.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	45.0%	25.0%	30.0%	0.0%
	3	0.0%	NW	Clay	0.0%	1.0%	95.0%	10.0%	5.0%	0.0%
	4	0.0%	NW	Clay	0.0%	2.0%	60.0%	40.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
Total Average Cover (T2)					0.0%	0.6%	67.0%	22.0%	13.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	40.0%	0.0%	15.0%	20.0%	25.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	40.0%	15.0%	45.0%	0.0%
	4	0.0%	NW	Clay	0.0%	3.0%	95.0%	0.0%	15.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
Total Average Cover (T3)					8.0%	0.6%	58.0%	9.0%	27.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	3.0%	15.0%	82.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	20.0%	25.0%	55.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	4	0.0%	NW	Clay	2.0%	0.0%	50.0%	15.0%	35.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	98.0%	2.0%	0.0%	0.0%
Total Average Cover (T4)					0.4%	0.0%	53.2%	12.4%	34.4%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	20.0%	1.0%	2.0%	20.0%	57.0%	0.0%
	2	0.0%	NW	Clay	0.0%	1.0%	14.0%	0.0%	85.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	50.0%	20.0%	30.0%	0.0%
	4	0.0%	NW	Clay	0.0%	4.0%	36.0%	70.0%	2.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	70.0%	25.0%	10.0%	0.0%
Total Average Cover (T5)					4.0%	1.2%	34.4%	27.0%	36.8%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.5%	0.6%	57.1%	15.6%	26.1%	0.0%
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BOMMER CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	26.0%	0.0%	74.0%	0.0%
	2	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	3	0-10%	N	Clay	30.0%	0.0%	4.0%	0.0%	66.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	5	0-10%	N	Clay	5.0%	0.0%	0.0%	0.0%	95.0%	0.0%
Total Average Cover (T1)					7.0%	0.0%	6.0%	0.0%	87.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	2	0-10%	N	Clay	8.0%	0.0%	0.0%	0.0%	92.0%	0.0%
	3	0-10%	N	Clay	1.0%	0.0%	0.0%	0.0%	99.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Total Average Cover (T2)					1.8%	0.0%	0.0%	0.0%	98.2%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	3.0%	0.0%	97.0%	0.0%
	2	0-10%	N	Clay	15.0%	0.0%	5.0%	0.0%	80.0%	0.0%
	3	0-10%	N	Clay	0.0%	0.0%	3.0%	0.0%	97.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Total Average Cover (T3)					3.0%	0.0%	2.2%	0.0%	94.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	2	0-10%	N	Clay	15.0%	0.0%	0.0%	20.0%	65.0%	0.0%
	3	0-10%	N	Clay	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%
	4	0-10%	N	Clay	3.0%	0.0%	3.0%	0.0%	94.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
Total Average Cover (T4)					3.6%	0.0%	0.6%	14.0%	81.8%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	3.0%	5.0%	92.0%	0.0%
	2	0-10%	N	Clay	0.0%	0.0%	26.0%	60.0%	14.0%	0.0%
	3	0-10%	N	Clay	20.0%	0.0%	8.0%	5.0%	67.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	7.0%	20.0%	73.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	0.0%	10.0%	90.0%	0.0%
Total Average Cover (T5)					4.0%	0.0%	8.8%	20.0%	67.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.9%	0.0%	3.5%	6.8%	85.8%	0.0%
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BOMMER CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	40.0%	20.0%	40.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	95.0%	15.0%	0.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	74.0%	9.0%	19.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	70.0%	5.0%	25.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	3	0.0%	E	Clay	5.0%	0.0%	70.0%	5.0%	20.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	25.0%	5.0%	70.0%	0.0%
Total Average Cover (T2)					1.0%	0.0%	67.0%	4.0%	28.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	30.0%	40.0%	30.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	55.0%	5.0%	50.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	30.0%	5.0%	65.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	15.0%	5.0%	80.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	3.0%	5.0%	92.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	26.6%	12.0%	63.4%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	15.0%	20.0%	65.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	15.0%	5.0%	80.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	85.0%	5.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	10.0%	0.0%	90.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	25.0%	10.0%	65.0%	0.0%
Total Average Cover (T4)					0.0%	0.0%	30.0%	8.0%	60.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	40.0%	0.0%	60.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	10.0%	15.0%	75.0%	0.0%
	3	0.0%	E	Clay	0.0%	3.0%	80.0%	17.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	30.0%	15.0%	55.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	25.0%	55.0%	20.0%	0.0%
Total Average Cover (T5)					0.0%	0.6%	37.0%	20.4%	42.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.2%	0.1%	46.9%	10.7%	42.5%	0.0%
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BOMMER CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	71.0%	9.0%	20.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	4	10.0%	E	Clay	5.0%	1.0%	25.0%	20.0%	54.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	54.0%	10.0%	26.0%	0.0%
Total Average Cover (T1)					3.0%	0.2%	59.0%	7.8%	31.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	40.0%	5.0%	55.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	45.0%	0.0%	55.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	5	10.0%	E	Clay	5.0%	0.0%	65.0%	15.0%	15.0%	0.0%
Total Average Cover (T2)					1.0%	0.0%	56.0%	4.0%	39.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	55.0%	35.0%	10.0%	0.0%
	2	10.0%	E	Clay	4.0%	0.0%	80.0%	10.0%	6.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	75.0%	10.0%	30.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	67.0%	10.0%	25.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	40.0%	40.0%	10.0%	0.0%
Total Average Cover (T3)					2.8%	0.0%	63.4%	21.0%	16.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	55.0%	5.0%	40.0%	0.0%
	2	10.0%	E	Clay	5.0%	0.0%	50.0%	0.0%	45.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	70.0%	25.0%	5.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	55.0%	0.0%	45.0%	0.0%
	5	10.0%	E	Clay	11.0%	0.0%	25.0%	0.0%	80.0%	0.0%
Total Average Cover (T4)					3.2%	0.0%	51.0%	6.0%	43.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	70.0%	20.0%	10.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	40.0%	50.0%	10.0%	0.0%
	3	10.0%	E	Clay	8.0%	0.0%	37.0%	5.0%	50.0%	0.0%
	4	10.0%	E	Clay	1.0%	0.0%	64.0%	15.0%	20.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	60.0%	25.0%	5.0%	0.0%
Total Average Cover (T5)					3.8%	0.0%	54.2%	23.0%	19.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.8%	0.0%	56.7%	12.4%	29.6%	0.0%
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BOMMER CANYON 5

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	2.0%	0.0%	98.0%	0.0%
	2	10-35%	E	Clay	2.0%	0.0%	7.0%	31.0%	60.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	40.0%	20.0%	40.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	0.0%	3.0%	97.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	0.0%	10.0%	90.0%	0.0%
Total Average Cover (T1)					0.4%	0.0%	9.8%	12.8%	77.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	2.0%	75.0%	23.0%	0.0%
	2	10-35%	E	Clay	2.0%	0.0%	1.0%	17.0%	80.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.0%	10.0%	90.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	1.0%	85.0%	14.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	1.0%	4.0%	95.0%	0.0%
Total Average Cover (T2)					0.4%	0.0%	1.0%	38.2%	60.4%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	0.0%	65.0%	35.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	0.0%	5.0%	95.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	1.0%	0.0%	99.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	1.0%	0.0%	99.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	0.4%	14.0%	85.6%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	0.0%	3.0%	97.0%	0.0%
	2	10-35%	E	Clay	7.0%	0.0%	3.0%	40.0%	50.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	0.0%	5.0%	95.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	1.0%	55.0%	44.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	1.0%	10.0%	89.0%	0.0%
Total Average Cover (T4)					1.4%	0.0%	1.0%	22.6%	75.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	10.0%	0.0%	90.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	0.0%	50.0%	50.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	2.0%	70.0%	28.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	3.0%	25.0%	72.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	2.0%	3.0%	95.0%	0.0%
Total Average Cover (T5)					0.0%	0.0%	3.4%	29.6%	67.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.4%	0.0%	3.1%	23.4%	73.0%	0.0%
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SHADY SPUR

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	20.0%	15.0%	65.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	10.0%	0.0%	90.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	25.0%	15.0%	60.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	0.0%	5.0%	95.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	70.0%	0.0%	30.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					25.0%	7.0%	68.0%	0.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	40.0%	60.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	70.0%	10.0%	20.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	25.0%	0.0%	75.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	60.0%	10.0%	30.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					31.0%	12.0%	57.0%	0.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	5.0%	35.0%	60.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	3.0%	20.0%	77.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	90.0%	5.0%	5.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	0.0%	10.0%	85.0%	5.0%	0.0%	0.0%
	5	10.0%	NW	Clay	10.0%	2.0%	88.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					21.6%	14.4%	63.0%	1.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	10.0%	50.0%	40.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.5%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	10.0%	5.0%	85.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	50.0%	1.0%	49.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	5.0%	10.0%	85.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					15.0%	13.3%	71.8%	0.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	30.0%	70.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	20.0%	30.0%	50.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	40.0%	0.0%	60.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	50.0%	10.0%	40.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	25.0%	10.0%	65.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					27.0%	16.0%	57.0%	0.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					23.9%	12.5%	63.4%	0.2%	0.0%	0.0%
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MUDDY CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	1.0%	66.0%	10.0%	23.0%	0.0%
	2	0-10%	E	Clay	0.0%	1.0%	45.0%	10.0%	44.0%	0.0%
	3	0-10%	E	Clay	0.0%	2.0%	11.0%	20.0%	67.0%	0.0%
	4	0-10%	E	Clay	0.0%	6.0%	65.0%	19.0%	10.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	27.0%	63.0%	10.0%	0.0%
Total Average Cover (T1)					0.0%	2.0%	42.8%	24.4%	30.8%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	0.0%	56.0%	10.0%	34.0%	0.0%
	2	0-10%	E	Clay	0.0%	4.0%	5.0%	10.0%	81.0%	0.0%
	3	0-10%	E	Clay	0.0%	0.0%	25.0%	20.0%	55.0%	0.0%
	4	0-10%	E	Clay	0.0%	3.0%	0.0%	35.0%	62.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	28.0%	20.0%	52.0%	0.0%
Total Average Cover (T2)					0.0%	1.4%	22.8%	19.0%	56.8%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	10.0%	35.0%	25.0%	30.0%	0.0%
	2	0-10%	E	Clay	0.0%	7.0%	46.0%	30.0%	17.0%	0.0%
	3	0-10%	E	Clay	0.0%	1.0%	4.0%	30.0%	65.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	67.0%	23.0%	10.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	0.0%	10.0%	90.0%	0.0%
Total Average Cover (T3)					0.0%	3.6%	30.4%	23.6%	42.4%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	3.0%	5.0%	20.0%	72.0%	0.0%
	2	0-10%	E	Clay	0.0%	8.0%	55.0%	17.0%	20.0%	0.0%
	3	0-10%	E	Clay	0.0%	4.0%	7.0%	20.0%	69.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	58.0%	20.0%	22.0%	0.0%
	5	0-10%	E	Clay	0.0%	2.0%	3.0%	35.0%	60.0%	0.0%
Total Average Cover (T4)					0.0%	3.4%	25.6%	22.4%	48.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	3.0%	35.0%	62.0%	0.0%	0.0%
	2	0-10%	E	Clay	0.0%	1.0%	8.0%	10.0%	81.0%	0.0%
	3	0-10%	E	Clay	0.0%	2.0%	57.0%	15.0%	28.0%	0.0%
	4	0-10%	E	Clay	0.0%	3.0%	14.0%	28.0%	55.0%	0.0%
	5	0-10%	E	Clay	0.0%	2.0%	2.0%	50.0%	46.0%	0.0%
Total Average Cover (T5)					0.0%	2.2%	23.2%	33.0%	42.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.0%	2.5%	29.0%	24.5%	44.1%	0.0%
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MUDDY CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	40.0%	0.0%	55.0%	5.0%	0.0%	0.0%
	4	0-10%	NE	Clay	80.0%	0.0%	20.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	75.0%	0.0%	15.0%	10.0%	0.0%	0.0%
Total Average Cover (T1)					39.0%	0.0%	54.0%	9.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	10.0%	0.0%	90.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	14.0%	56.0%	30.0%	0.0%	0.0%
	4	0-10%	NE	Clay	10.0%	0.0%	60.0%	30.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
Total Average Cover (T2)					4.0%	2.8%	77.2%	16.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	10.0%	2.0%	73.0%	15.0%	0.0%	0.0%
	2	0-10%	NE	Clay	25.0%	0.0%	65.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	7.0%	88.0%	5.0%	0.0%	0.0%
	4	0-10%	NE	Clay	30.0%	3.0%	57.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	50.0%	2.0%	33.0%	15.0%	0.0%	0.0%
Total Average Cover (T3)					23.0%	2.8%	63.2%	11.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	85.0%	15.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	3	0-10%	NE	Clay	40.0%	0.0%	50.0%	10.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	0.0%	70.0%	30.0%	0.0%	0.0%
	5	0-10%	NE	Clay	20.0%	0.0%	75.0%	5.0%	0.0%	0.0%
Total Average Cover (T4)					12.0%	0.0%	74.0%	14.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%
	2	0-10%	NE	Clay	10.0%	0.0%	75.0%	15.0%	0.0%	0.0%
	3	0-10%	NE	Clay	15.0%	0.0%	75.0%	10.0%	0.0%	0.0%
	4	0-10%	NE	Clay	7.0%	0.0%	88.0%	5.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	2.0%	78.0%	20.0%	0.0%	0.0%
Total Average Cover (T5)					6.4%	0.4%	79.2%	14.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					16.9%	1.2%	69.5%	12.8%	0.0%	0.0%
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MUDDY CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	1.0%	74.0%	25.0%	0.0%	0.0%
	2	35-60%	E	Clay	1.0%	1.0%	63.0%	35.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	5	35-60%	E	Clay	35.0%	0.0%	55.0%	10.0%	0.0%	0.0%
Total Average Cover (T1)					7.2%	0.4%	72.4%	20.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	3.0%	72.0%	25.0%	0.0%	0.0%
	3	35-60%	E	Clay	20.0%	3.0%	82.0%	15.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	1.0%	64.0%	35.0%	0.0%	0.0%
	5	35-60%	E	Clay	40.0%	0.0%	50.0%	10.0%	0.0%	0.0%
Total Average Cover (T2)					12.0%	1.4%	69.6%	21.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	85.0%	15.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	75.0%	25.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	60.0%	40.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	5	35-60%	E	Clay	5.0%	0.0%	70.0%	25.0%	0.0%	0.0%
Total Average Cover (T3)					1.0%	0.0%	76.0%	23.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	15.0%	50.0%	35.0%	0.0%	0.0%
	2	35-60%	E	Clay	20.0%	2.0%	63.0%	15.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	75.0%	25.0%	0.0%	0.0%
	4	35-60%	E	Clay	15.0%	0.0%	75.0%	10.0%	0.0%	0.0%
	5	35-60%	E	Clay	10.0%	0.0%	80.0%	10.0%	0.0%	0.0%
Total Average Cover (T4)					9.0%	3.4%	68.6%	19.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	1.0%	89.0%	10.0%	0.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%
	5	35-60%	E	Clay	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%
Total Average Cover (T5)					0.0%	0.2%	87.8%	12.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					5.8%	1.1%	74.9%	19.0%	0.0%	0.0%
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MUDDY CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	70.0%	10.0%	20.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	0.0%	55.0%	30.0%	15.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	84.0%	9.0%	7.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	80.0%	10.0%	10.0%	0.0%
	4	0-10%	NE	Clay	0.0%	10.0%	70.0%	20.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	5.0%	65.0%	30.0%	0.0%	0.0%
Total Average Cover (T2)					0.0%	3.0%	82.0%	13.0%	2.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	10.0%	0.0%	50.0%	40.0%	0.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	0.0%	65.0%	35.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
Total Average Cover (T3)					2.0%	0.0%	80.0%	18.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	15.0%	2.0%	73.0%	10.0%	0.0%	0.0%
	2	0-10%	NE	Clay	15.0%	0.0%	60.0%	25.0%	0.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	21.0%	74.0%	5.0%	0.0%
	4	0-10%	NE	Clay	0.0%	1.0%	84.0%	15.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	10.0%	82.0%	8.0%	0.0%	0.0%
Total Average Cover (T4)					6.0%	2.6%	64.0%	26.4%	1.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	27.0%	3.0%	60.0%	10.0%	0.0%	0.0%
	2	0-10%	NE	Clay	5.0%	3.0%	92.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	10.0%	0.0%	85.0%	5.0%	0.0%	0.0%
	4	0-10%	NE	Clay	0.0%	25.0%	65.0%	10.0%	0.0%	0.0%
	5	0-10%	NE	Clay	0.0%	25.0%	75.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					8.4%	11.2%	75.4%	5.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.3%	3.4%	77.1%	14.3%	2.0%	0.0%
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MUDDY CANYON 6

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	30.0%	5.0%	55.0%	10.0%	0.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10-35%	E	Clay	3.0%	0.0%	100.0%	90.0%	0.0%	0.0%
	4	10-35%	E	Clay	0.0%	1.0%	25.0%	74.0%	0.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	100.0%	90.0%	0.0%	0.0%
Total Average Cover (T1)					6.6%	1.2%	76.0%	52.8%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	70.0%	0.0%	45.0%	0.0%	30.0%	0.0%
	2	10-35%	E	Clay	2.0%	0.0%	20.0%	78.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	80.0%	80.0%	0.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	70.0%	80.0%	0.0%	0.0%
	5	10-35%	E	Clay	40.0%	0.0%	50.0%	60.0%	0.0%	0.0%
Total Average Cover (T2)					22.4%	0.0%	53.0%	59.6%	6.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	107.0%	0.0%	0.0%	0.0%
	2	10-35%	E	Clay	80.0%	0.0%	65.0%	0.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	80.0%	80.0%	0.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	80.0%	80.0%	0.0%	0.0%
	5	10-35%	E	Clay	5.0%	0.0%	20.0%	90.0%	0.0%	0.0%
Total Average Cover (T3)					17.0%	0.0%	70.4%	50.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	27.0%	0.0%	70.0%	5.0%	0.0%	0.0%
	2	10-35%	E	Clay	50.0%	0.0%	70.0%	10.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	30.0%	80.0%	0.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	70.0%	30.0%	0.0%	0.0%
	5	10-35%	E	Clay	8.0%	0.0%	70.0%	35.0%	0.0%	0.0%
Total Average Cover (T4)					17.0%	0.0%	62.0%	32.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	95.0%	0.0%	0.0%	5.0%	0.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	81.0%	30.0%	0.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	100.0%	80.0%	0.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	70.0%	80.0%	0.0%	0.0%
	5	10-35%	E	Clay	4.0%	0.0%	71.0%	80.0%	0.0%	0.0%
Total Average Cover (T5)					19.8%	0.0%	64.4%	55.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					16.6%	0.2%	65.2%	49.9%	1.2%	0.0%
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APPENDIX D

2000 DATA SUMMARY SHEETS

SAND CANYON

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	45.0%	0.0%	55.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	55.0%	0.0%	45.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	60.0%	0.0%	25.0%	2.0%	13.0%	0.0%
	4	10.0%	NW	Loam	30.0%	0.0%	45.0%	5.0%	20.0%	0.0%
	5	10.0%	NW	Loam	15.0%	0.0%	50.0%	35.0%	0.0%	0.0%
Total Average Cover (T1)					41.0%	0.0%	44.0%	8.4%	6.6%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	95.0%	0.0%	5.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	5.0%	0.0%	45.0%	0.0%	50.0%	0.0%
	3	10.0%	NW	Loam	50.0%	0.0%	37.0%	0.0%	13.0%	0.0%
	4	10.0%	NW	Loam	45.0%	0.0%	30.0%	10.0%	15.0%	0.0%
	5	10.0%	NW	Loam	15.0%	0.0%	65.0%	0.0%	20.0%	0.0%
Total Average Cover (T2)					42.0%	0.0%	36.4%	2.0%	19.6%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	10.0%	0.0%	60.0%	15.0%	15.0%	0.0%
	2	10.0%	NW	Loam	65.0%	0.0%	15.0%	5.0%	15.0%	0.0%
	3	10.0%	NW	Loam	90.0%	0.0%	0.0%	0.0%	10.0%	0.0%
	4	10.0%	NW	Loam	34.0%	0.0%	31.0%	30.0%	5.0%	0.0%
	5	10.0%	NW	Loam	5.0%	0.0%	65.0%	10.0%	20.0%	0.0%
Total Average Cover (T3)					40.8%	0.0%	34.2%	12.0%	13.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	85.0%	0.0%	15.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	75.0%	0.0%	20.0%	0.0%	5.0%	0.0%
	3	10.0%	NW	Loam	70.0%	0.0%	15.0%	0.0%	15.0%	0.0%
	4	10.0%	NW	Loam	30.0%	0.0%	15.0%	15.0%	40.0%	0.0%
	5	10.0%	NW	Loam	45.0%	0.0%	40.0%	15.0%	0.0%	0.0%
Total Average Cover (T4)					61.0%	0.0%	21.0%	6.0%	12.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	35.0%	0.0%	45.0%	20.0%	0.0%	0.0%
	3	10.0%	NW	Loam	5.0%	0.0%	35.0%	30.0%	30.0%	0.0%
	4	10.0%	NW	Loam	0.0%	0.0%	90.0%	5.0%	5.0%	0.0%
	5	10.0%	NW	Loam	25.0%	15.0%	35.0%	25.0%	0.0%	0.0%
Total Average Cover (T5)					23.0%	3.0%	51.0%	16.0%	7.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					41.6%	0.6%	37.3%	8.9%	11.6%	0.0%
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BOMMER RIDGE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	40.0%	5.0%	55.0%	0.0%
	2	10.0%	W	Clay	10.0%	0.0%	65.0%	15.0%	10.0%	0.0%
	3	10.0%	W	Clay	2.0%	0.0%	68.0%	20.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	70.0%	10.0%	20.0%	0.0%
	5	10.0%	W	Clay	0.0%	10.0%	65.0%	10.0%	15.0%	0.0%
Total Average Cover (T1)					2.4%	2.0%	61.6%	12.0%	22.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	63.0%	27.0%	10.0%	0.0%
	2	10.0%	W	Clay	8.0%	0.0%	70.0%	2.0%	20.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	70.0%	10.0%	20.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	80.0%	5.0%	15.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	20.0%	50.0%	30.0%	0.0%
Total Average Cover (T2)					1.6%	0.0%	60.6%	18.8%	19.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	75.0%	15.0%	10.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	60.0%	15.0%	25.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	60.0%	15.0%	25.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	60.0%	30.0%	10.0%	0.0%
	5	10.0%	W	Clay	10.0%	0.0%	55.0%	5.0%	30.0%	0.0%
Total Average Cover (T3)					2.0%	0.0%	62.0%	16.0%	20.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	8.0%	0.0%	42.0%	40.0%	10.0%	0.0%
	2	10.0%	W	Clay	10.0%	0.0%	55.0%	40.0%	30.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	55.0%	55.0%	0.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	50.0%	25.0%	25.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	60.0%	10.0%	30.0%	0.0%
Total Average Cover (T4)					3.6%	0.0%	52.4%	34.0%	19.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	5.0%	0.0%	110.0%	0.0%	0.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	60.0%	20.0%	50.0%	0.0%
	3	10.0%	W	Clay	2.0%	0.0%	75.0%	50.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	25.0%	85.0%	0.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	40.0%	35.0%	25.0%	0.0%
Total Average Cover (T5)					1.4%	0.0%	62.0%	38.0%	17.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.2%	0.4%	59.7%	23.8%	19.4%	0.0%
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BOMMER CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	3	0.0%	NW	Clay	0.0%	1.0%	79.0%	0.0%	20.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	5	0.0%	NW	Clay	0.0%	6.0%	85.0%	0.0%	9.0%	0.0%
Total Average Cover (T1)					0.0%	1.4%	79.8%	0.0%	18.8%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0.0%	NW	Clay	5.0%	0.0%	75.0%	0.0%	20.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	65.0%	0.0%	35.0%	0.0%
Total Average Cover (T2)					1.0%	0.0%	79.0%	0.0%	20.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	5.0%	0.0%	85.0%	0.0%	10.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	21.0%	0.0%	79.0%	0.0%
	5	0.0%	NW	Clay	70.0%	0.0%	30.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					15.0%	0.0%	65.2%	0.0%	19.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	5.0%	0.0%	75.0%	15.0%	5.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
Total Average Cover (T4)					1.0%	0.0%	88.0%	3.0%	8.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	2	0.0%	NW	Clay	10.0%	0.0%	90.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
Total Average Cover (T5)					2.0%	0.0%	89.0%	0.0%	9.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.8%	0.3%	80.2%	0.6%	15.1%	0.0%
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BOMMER CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	105.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	65.0%	0.0%	10.0%	10.0%	15.0%	0.0%
	3	0-10%	N	Clay	20.0%	0.0%	31.0%	20.0%	30.0%	0.0%
	4	0-10%	N	Clay	80.0%	0.0%	10.0%	0.0%	10.0%	0.0%
	5	0-10%	N	Clay	70.0%	0.0%	30.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					47.0%	0.0%	37.2%	6.0%	11.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	125.0%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	90.0%	0.0%	15.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	95.0%	0.0%	11.0%	0.0%	5.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	35.0%	30.0%	35.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	15.0%	60.0%	25.0%	0.0%
Total Average Cover (T2)					37.0%	0.0%	40.2%	18.0%	15.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	96.0%	5.0%	0.0%	0.0%
	2	0-10%	N	Clay	5.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	3	0-10%	N	Clay	60.0%	0.0%	35.0%	5.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	0.0%	6.0%	5.0%	84.0%	0.0%
	5	0-10%	N	Clay	15.0%	0.0%	10.0%	25.0%	50.0%	0.0%
Total Average Cover (T3)					17.0%	0.0%	47.4%	10.0%	26.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	35.0%	0.0%	50.0%	10.0%	5.0%	0.0%
	2	0-10%	N	Clay	95.0%	0.0%	6.0%	0.0%	3.0%	0.0%
	3	0-10%	N	Clay	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	50.0%	0.0%	25.0%	0.0%	25.0%	0.0%
	5	0-10%	N	Clay	65.0%	0.0%	7.0%	20.0%	10.0%	0.0%
Total Average Cover (T4)					69.0%	0.0%	17.6%	6.0%	8.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	10.0%	0.0%	115.0%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	8.0%	0.0%	35.0%	35.0%	30.0%	0.0%
	3	0-10%	N	Clay	15.0%	0.0%	50.0%	25.0%	10.0%	0.0%
	4	0-10%	N	Clay	5.0%	0.0%	12.0%	58.0%	25.0%	0.0%
	5	0-10%	N	Clay	10.0%	0.0%	20.0%	50.0%	20.0%	0.0%
Total Average Cover (T5)					9.6%	0.0%	46.4%	33.6%	19.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					35.9%	0.0%	37.8%	14.7%	16.1%	0.0%
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BOMMER CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	40.0%	0.0%	60.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	66.0%	0.0%	34.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	72.0%	0.0%	28.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	83.0%	0.0%	17.0%	0.0%
Total Average Cover (T2)					0.0%	0.0%	79.0%	0.0%	21.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	87.0%	1.0%	12.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	40.0%	0.0%	60.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	0.0%	E	Clay	5.0%	0.0%	85.0%	5.0%	10.0%	0.0%
Total Average Cover (T4)					1.0%	0.0%	74.0%	2.0%	24.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	4	0.0%	E	Clay	20.0%	0.0%	75.0%	0.0%	5.0%	0.0%
	5	0.0%	E	Clay	0.0%	30.0%	55.0%	5.0%	20.0%	0.0%
Total Average Cover (T5)					4.0%	6.0%	75.0%	1.0%	16.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					1.0%	1.2%	76.2%	0.8%	21.4%	0.0%
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BOMMER CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	4	10.0%	E	Clay	2.0%	0.0%	68.0%	5.0%	25.0%	0.0%
	5	10.0%	E	Clay	13.0%	0.0%	57.0%	20.0%	10.0%	0.0%
Total Average Cover (T1)					3.0%	0.0%	71.0%	5.0%	21.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	10.0%	0.0%	70.0%	0.0%	20.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	5	10.0%	E	Clay	55.0%	0.0%	46.0%	5.0%	10.0%	0.0%
Total Average Cover (T2)					13.0%	0.0%	74.2%	1.0%	15.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	4	10.0%	E	Clay	3.0%	0.0%	82.0%	0.0%	15.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	75.0%	0.0%	15.0%	0.0%
Total Average Cover (T3)					2.6%	0.0%	78.4%	0.0%	19.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	80.0%	5.0%	15.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	75.0%	5.0%	20.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	80.0%	5.0%	15.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	5	10.0%	E	Clay	60.0%	0.0%	38.0%	0.0%	20.0%	0.0%
Total Average Cover (T4)					12.0%	0.0%	70.6%	3.0%	18.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	83.0%	2.0%	15.0%	0.0%
	2	10.0%	E	Clay	10.0%	0.0%	60.0%	5.0%	25.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	70.0%	10.0%	20.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	5	10.0%	E	Clay	45.0%	0.0%	50.0%	10.0%	15.0%	0.0%
Total Average Cover (T5)					11.0%	0.0%	66.6%	5.4%	21.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					8.3%	0.0%	72.2%	2.9%	18.8%	0.0%
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BOMMER CANYON 5

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	25.0%	0.0%	20.0%	45.0%	10.0%	0.0%
	2	10-35%	E	Clay	5.0%	0.0%	85.0%	20.0%	10.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	85.0%	20.0%	10.0%	0.0%
	4	10-35%	E	Clay	80.0%	0.0%	10.0%	0.0%	10.0%	0.0%
	5	10-35%	E	Clay	95.0%	0.0%	0.0%	0.0%	5.0%	0.0%
Total Average Cover (T1)					41.0%	0.0%	40.0%	17.0%	9.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	10.0%	0.0%	102.0%	0.0%	10.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	60.0%	30.0%	10.0%	0.0%
	3	10-35%	E	Clay	10.0%	0.0%	35.0%	45.0%	10.0%	0.0%
	4	10-35%	E	Clay	15.0%	0.0%	58.0%	30.0%	5.0%	0.0%
	5	10-35%	E	Clay	5.0%	0.0%	5.0%	15.0%	75.0%	0.0%
Total Average Cover (T2)					8.0%	0.0%	52.0%	24.0%	22.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	15.0%	2.0%	30.0%	45.0%	10.0%	0.0%
	2	10-35%	E	Clay	40.0%	0.0%	10.0%	10.0%	40.0%	0.0%
	3	10-35%	E	Clay	90.0%	0.0%	0.0%	5.0%	5.0%	0.0%
	4	10-35%	E	Clay	40.0%	0.0%	55.0%	0.0%	5.0%	0.0%
	5	10-35%	E	Clay	5.0%	0.0%	10.0%	5.0%	80.0%	0.0%
Total Average Cover (T3)					38.0%	0.4%	21.0%	13.0%	28.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	2	10-35%	E	Clay	10.0%	0.0%	6.0%	74.0%	10.0%	0.0%
	3	10-35%	E	Clay	40.0%	0.0%	40.0%	0.0%	20.0%	0.0%
	4	10-35%	E	Clay	5.0%	0.0%	65.0%	15.0%	30.0%	0.0%
	5	10-35%	E	Clay	15.0%	0.0%	77.0%	10.0%	25.0%	0.0%
Total Average Cover (T4)					32.0%	0.0%	39.6%	19.8%	17.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	90.0%	25.0%	0.5%	0.0%	0.0%	0.0%
	2	10-35%	E	Clay	60.0%	0.0%	0.0%	8.0%	32.0%	0.0%
	3	10-35%	E	Clay	90.0%	0.0%	9.0%	5.0%	2.0%	0.0%
	4	10-35%	E	Clay	35.0%	0.0%	81.0%	0.0%	5.0%	0.0%
	5	10-35%	E	Clay	20.0%	0.0%	80.0%	25.0%	0.0%	0.0%
Total Average Cover (T5)					59.0%	5.0%	34.1%	7.6%	7.8%	0.0%

TOTAL AVERAGE COVER (T1-T5)					35.6%	1.1%	37.3%	16.3%	16.8%	0.0%
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SHADY SPUR

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	4.0%	96.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	6.0%	27.0%	0.0%	67.0%	0.0%
	3	10.0%	NW	Clay	10.0%	0.0%	65.0%	0.0%	25.0%	0.0%
	4	10.0%	NW	Clay	0.0%	5.0%	75.0%	0.0%	20.0%	0.0%
	5	10.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					2.0%	3.0%	70.6%	0.0%	24.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	4.0%	78.0%	0.0%	20.0%	0.0%
	2	10.0%	NW	Clay	5.0%	0.0%	95.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	25.0%	0.0%	75.0%	0.0%
	4	10.0%	NW	Clay	45.0%	0.0%	55.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	0.0%	2.0%	98.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					10.0%	1.2%	70.2%	0.0%	19.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	10.0%	90.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	1.0%	99.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	5.0%	5.0%	90.0%	0.0%	5.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	25.0%	0.0%	75.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					6.0%	3.2%	90.8%	0.0%	1.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	5.0%	0.5%	70.5%	0.0%	25.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	5.0%	0.0%	85.0%	0.0%	10.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.5%	60.0%	0.0%	40.0%	0.0%
	5	10.0%	NW	Clay	15.0%	5.0%	50.0%	0.0%	30.0%	0.0%
Total Average Cover (T4)					5.0%	1.2%	73.1%	0.0%	21.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	5.0%	95.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	10.0%	90.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	80.0%	5.0%	15.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	45.0%	0.0%	55.0%	0.0%
	5	10.0%	NW	Clay	0.0%	0.0%	45.0%	0.0%	55.0%	0.0%
Total Average Cover (T5)					0.0%	3.0%	71.0%	1.0%	25.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					4.6%	2.3%	75.1%	0.2%	18.1%	0.0%
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APPENDIX E

2001 DATA SUMMARY SHEETS

SAND CANYON

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	30.0%	0.0%	50.0%	10.0%	10.0%	0.0%
	2	10.0%	NW	Loam	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	50.0%	0.0%	35.0%	15.0%	0.0%	0.0%
	4	10.0%	NW	Loam	30.0%	60.0%	0.0%	0.0%	10.0%	0.0%
	5	10.0%	NW	Loam	15.0%	0.0%	65.0%	20.0%	0.0%	0.0%
Total Average Cover (T1)					35.0%	12.0%	40.0%	9.0%	4.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	5.0%	0.0%	85.0%	10.0%	0.0%	0.0%
	2	10.0%	NW	Loam	40.0%	0.0%	40.0%	20.0%	0.0%	0.0%
	3	10.0%	NW	Loam	28.0%	0.0%	30.0%	42.0%	0.0%	0.0%
	4	10.0%	NW	Loam	75.0%	0.0%	25.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Loam	10.0%	0.0%	90.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					31.6%	0.0%	54.0%	14.4%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	75.0%	0.0%	25.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	70.0%	0.0%	30.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	85.0%	0.0%	15.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Loam	20.0%	0.0%	45.0%	35.0%	0.0%	0.0%
	5	10.0%	NW	Loam	5.0%	0.0%	90.0%	5.0%	0.0%	0.0%
Total Average Cover (T3)					51.0%	0.0%	41.0%	8.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	20.0%	0.0%	70.0%	10.0%	0.0%	0.0%
	2	10.0%	NW	Loam	75.0%	0.0%	25.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	30.0%	0.0%	45.0%	25.0%	0.0%	0.0%
	4	10.0%	NW	Loam	25.0%	0.0%	45.0%	10.0%	20.0%	0.0%
	5	10.0%	NW	Loam	0.0%	0.0%	80.0%	10.0%	10.0%	0.0%
Total Average Cover (T4)					30.0%	0.0%	53.0%	11.0%	6.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	85.0%	0.0%	15.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Loam	35.0%	0.0%	65.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Loam	50.0%	0.0%	35.0%	15.0%	0.0%	0.0%
	4	10.0%	NW	Loam	50.0%	0.0%	40.0%	10.0%	0.0%	0.0%
	5	10.0%	NW	Loam	10.0%	12.0%	58.0%	20.0%	0.0%	0.0%
Total Average Cover (T5)					46.0%	2.4%	42.6%	9.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					38.7%	2.9%	46.1%	10.3%	2.0%	0.0%
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BOMMER RIDGE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	10.0%	W	Clay	12.0%	0.0%	68.0%	0.0%	20.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	92.0%	3.0%	5.0%	0.0%
	5	10.0%	W	Clay	0.0%	2.0%	88.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					2.4%	0.4%	86.6%	0.6%	10.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%
	2	10.0%	W	Clay	15.0%	0.0%	75.0%	5.0%	5.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	10.0%	W	Clay	22.0%	0.0%	43.0%	30.0%	5.0%	0.0%
Total Average Cover (T2)					7.4%	0.0%	78.6%	9.0%	5.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	80.0%	12.0%	8.0%	0.0%
	3	10.0%	W	Clay	5.0%	0.0%	65.0%	25.0%	5.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	60.0%	30.0%	10.0%	0.0%
	5	10.0%	W	Clay	5.0%	0.0%	79.0%	1.0%	15.0%	0.0%
Total Average Cover (T3)					2.0%	0.0%	76.8%	13.6%	7.6%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	60.0%	25.0%	15.0%	0.0%
	2	10.0%	W	Clay	20.0%	0.0%	45.0%	30.0%	5.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	45.0%	50.0%	5.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	75.0%	20.0%	5.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	65.0%	25.0%	10.0%	0.0%
Total Average Cover (T4)					4.0%	0.0%	58.0%	30.0%	8.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	80.0%	10.0%	10.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	80.0%	15.0%	5.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	65.0%	30.0%	5.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	23.0%	72.0%	5.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	60.0%	25.0%	15.0%	0.0%
Total Average Cover (T5)					0.0%	0.0%	61.6%	30.4%	8.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.2%	0.1%	72.3%	16.7%	7.7%	0.0%
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BOMMER CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	99.0%	0.0%	1.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					0.0%	0.0%	99.0%	0.0%	1.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	99.0%	0.0%	1.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					0.0%	0.0%	98.0%	0.0%	2.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	20.0%	0.0%	80.0%	0.0%	0.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					4.0%	0.0%	94.0%	0.0%	2.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.8%	0.0%	97.8%	0.0%	1.4%	0.0%
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BOMMER CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	0.0%	3.0%	5.0%	5.0%	87.0%	0.0%
	3	0-10%	N	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
	4	0-10%	N	Clay	10.0%	0.0%	25.0%	20.0%	45.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	30.0%	0.0%	70.0%	0.0%
Total Average Cover (T1)					2.0%	0.6%	47.0%	6.0%	44.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	70.0%	0.0%	20.0%	0.0%	10.0%	0.0%
	3	0-10%	N	Clay	10.0%	0.0%	40.0%	30.0%	20.0%	0.0%
	4	0-10%	N	Clay	10.0%	0.0%	55.0%	30.0%	5.0%	0.0%
	5	0-10%	N	Clay	20.0%	0.0%	60.0%	20.0%	0.0%	0.0%
Total Average Cover (T2)					22.0%	0.0%	55.0%	16.0%	7.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	3.0%	0.0%	82.0%	10.0%	5.0%	0.0%
	3	0-10%	N	Clay	0.0%	0.0%	65.0%	25.0%	10.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	45.0%	35.0%	20.0%	0.0%
	5	0-10%	N	Clay	20.0%	0.0%	65.0%	10.0%	5.0%	0.0%
Total Average Cover (T3)					4.6%	0.0%	69.4%	16.0%	10.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	70.0%	0.0%	25.0%	0.0%	5.0%	0.0%
	2	0-10%	N	Clay	4.0%	0.0%	13.0%	20.0%	63.0%	0.0%
	3	0-10%	N	Clay	8.0%	0.0%	13.0%	10.0%	69.0%	0.0%
	4	0-10%	N	Clay	8.0%	0.0%	67.0%	5.0%	20.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	80.0%	10.0%	10.0%	0.0%
Total Average Cover (T4)					18.0%	0.0%	39.6%	9.0%	33.4%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	13.0%	0.0%	30.0%	20.0%	37.0%	0.0%
	2	0-10%	N	Clay	10.0%	10.0%	60.0%	10.0%	10.0%	0.0%
	3	0-10%	N	Clay	0.0%	0.0%	20.0%	30.0%	50.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	10.0%	85.0%	5.0%	0.0%
Total Average Cover (T5)					4.6%	2.0%	43.0%	29.0%	21.4%	0.0%

TOTAL AVERAGE COVER (T1-T5)					10.2%	0.5%	50.8%	15.2%	23.2%	0.0%
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BOMMER CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	94.0%	0.0%	6.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	98.0%	0.0%	2.0%	0.0%
	5	0.0%	E	Clay	0.0%	2.0%	93.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					0.0%	0.4%	96.2%	0.0%	3.4%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	1.0%	0.0%	90.0%	0.0%	9.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	92.0%	3.0%	5.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
Total Average Cover (T3)					0.2%	0.0%	90.4%	1.6%	7.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	1.0%	95.0%	0.0%	4.0%	0.0%
	2	0.0%	E	Clay	1.0%	0.0%	90.0%	0.0%	9.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
Total Average Cover (T4)					0.2%	0.2%	92.0%	0.0%	7.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	85.0%	10.0%	5.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
Total Average Cover (T5)					0.0%	0.0%	94.0%	2.0%	4.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.1%	0.1%	93.3%	0.7%	5.8%	0.0%
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BOMMER CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	55.0%	5.0%	30.0%	0.0%
Total Average Cover (T1)					2.0%	0.0%	80.0%	1.0%	17.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	40.0%	0.0%	50.0%	0.0%
Total Average Cover (T2)					2.0%	0.0%	79.0%	1.0%	18.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	10.0%	E	Clay	10.0%	0.0%	79.0%	1.0%	10.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	10.0%	E	Clay	30.0%	0.0%	25.0%	5.0%	40.0%	0.0%
Total Average Cover (T3)					8.0%	0.0%	76.8%	1.2%	14.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	89.0%	1.0%	10.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	10.0%	E	Clay	10.0%	0.0%	10.0%	5.0%	75.0%	0.0%
Total Average Cover (T4)					2.0%	0.0%	73.8%	1.2%	23.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	89.0%	1.0%	10.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	80.0%	5.0%	15.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	94.0%	1.0%	5.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	89.0%	1.0%	10.0%	0.0%
	5	10.0%	E	Clay	15.0%	0.0%	25.0%	5.0%	55.0%	0.0%
Total Average Cover (T5)					3.0%	0.0%	75.4%	2.6%	19.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.4%	0.0%	77.0%	1.4%	18.2%	0.0%
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BOMMER CANYON 5

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	5.0%	0.0%	11.0%	64.0%	20.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	10.0%	85.0%	5.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	5.0%	80.0%	15.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	5.0%	10.0%	85.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	3.0%	5.0%	92.0%	0.0%
Total Average Cover (T1)					1.0%	0.0%	6.8%	48.8%	43.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	7.0%	15.0%	78.0%	0.0%
	2	10-35%	E	Clay	2.0%	2.0%	5.0%	81.0%	10.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	10.0%	40.0%	50.0%	0.0%
	4	10-35%	E	Clay	20.0%	0.0%	12.0%	61.0%	7.0%	0.0%
	5	10-35%	E	Clay	0.5%	0.0%	1.0%	88.5%	10.0%	0.0%
Total Average Cover (T2)					4.5%	0.4%	7.0%	57.1%	31.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	5.0%	25.0%	70.0%	0.0%
	2	10-35%	E	Clay	8.0%	0.0%	10.0%	30.0%	52.0%	0.0%
	3	10-35%	E	Clay	0.0%	2.0%	2.0%	35.0%	61.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	2.0%	5.0%	93.0%	0.0%
	5	10-35%	E	Clay	2.0%	0.0%	6.0%	82.0%	10.0%	0.0%
Total Average Cover (T3)					2.0%	0.4%	5.0%	35.4%	57.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	1.0%	0.0%	25.0%	20.0%	54.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	3.0%	0.0%	97.0%	0.0%
	3	10-35%	E	Clay	18.0%	0.0%	23.0%	20.0%	39.0%	0.0%
	4	10-35%	E	Clay	10.0%	0.0%	13.0%	15.0%	62.0%	0.0%
	5	10-35%	E	Clay	0.0%	1.0%	12.0%	20.0%	67.0%	0.0%
Total Average Cover (T4)					5.8%	0.2%	15.2%	15.0%	63.8%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	5.0%	0.0%	20.0%	0.0%	75.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	36.0%	25.0%	39.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	10.0%	25.0%	65.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	20.0%	10.0%	70.0%	0.0%
	5	10-35%	E	Clay	5.0%	0.0%	8.0%	10.0%	77.0%	0.0%
Total Average Cover (T5)					2.0%	0.0%	18.8%	14.0%	65.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.1%	0.2%	10.6%	34.1%	52.1%	0.0%
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BOMMER CANYON 6

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	0.0%	15.0%	70.0%	5.0%	10.0%	0.0%
	2	15.0%	NE	Clay	55.0%	35.0%	5.0%	5.0%	0.0%	0.0%
	3	15.0%	NE	Clay	0.0%	12.0%	78.0%	0.0%	10.0%	0.0%
	4	15.0%	NE	Clay	12.0%	15.0%	63.0%	0.0%	10.0%	0.0%
	5	15.0%	NE	Clay	0.0%	10.0%	80.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					13.4%	17.4%	59.2%	2.0%	8.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	22.0%	20.0%	45.0%	10.0%	3.0%	0.0%
	2	15.0%	NE	Clay	35.0%	0.0%	55.0%	0.0%	10.0%	0.0%
	3	15.0%	NE	Clay	0.0%	10.0%	60.0%	30.0%	0.0%	0.0%
	4	15.0%	NE	Clay	10.0%	25.0%	65.0%	0.0%	0.0%	0.0%
	5	15.0%	NE	Clay	80.0%	0.0%	20.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					29.4%	11.0%	49.0%	8.0%	2.6%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	15.0%	NE	Clay	45.0%	0.0%	55.0%	0.0%	0.0%	0.0%
	3	15.0%	NE	Clay	20.0%	15.0%	55.0%	0.0%	10.0%	0.0%
	4	15.0%	NE	Clay	10.0%	0.0%	90.0%	0.0%	0.0%	0.0%
	5	15.0%	NE	Clay	5.0%	0.0%	75.0%	20.0%	0.0%	0.0%
Total Average Cover (T3)					16.0%	3.0%	73.0%	4.0%	4.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	70.0%	0.0%	30.0%	0.0%	0.0%	0.0%
	2	15.0%	NE	Clay	0.0%	12.0%	73.0%	0.0%	15.0%	0.0%
	3	15.0%	NE	Clay	50.0%	15.0%	35.0%	0.0%	0.0%	0.0%
	4	15.0%	NE	Clay	30.0%	25.0%	45.0%	0.0%	0.0%	0.0%
	5	15.0%	NE	Clay	0.0%	17.0%	83.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					30.0%	13.8%	53.2%	0.0%	3.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	85.0%	0.0%	15.0%	0.0%	0.0%	0.0%
	2	15.0%	NE	Clay	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%
	3	15.0%	NE	Clay	45.0%	0.0%	50.0%	0.0%	5.0%	0.0%
	4	15.0%	NE	Clay	15.0%	10.0%	55.0%	0.0%	20.0%	0.0%
	5	15.0%	NE	Clay	45.0%	0.0%	40.0%	0.0%	15.0%	0.0%
Total Average Cover (T5)					48.0%	2.0%	42.0%	0.0%	8.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					27.4%	9.4%	55.3%	2.8%	5.1%	0.0%
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BONITA 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	30.0%	30.0%	35.0%	5.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	70.0%	30.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	44.0%	56.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	22.0%	78.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	77.0%	23.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					6.0%	48.6%	44.4%	1.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	7.0%	77.0%	16.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	25.0%	53.0%	22.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	13.0%	45.0%	12.0%	30.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	60.0%	35.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	20.0%	52.0%	28.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					14.0%	57.4%	22.6%	6.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	10.0%	65.0%	25.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	45.0%	33.0%	22.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	70.0%	20.0%	10.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	70.0%	5.0%	25.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	15.0%	13.0%	72.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					42.0%	27.2%	30.8%	0.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	45.0%	25.0%	30.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	40.0%	60.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	12.0%	53.0%	35.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	85.0%	10.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	55.0%	30.0%	15.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					23.4%	46.6%	30.0%	0.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	33.0%	28.0%	39.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	35.0%	65.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	3.0%	36.0%	51.0%	10.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	55.0%	35.0%	5.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	60.0%	40.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					8.2%	42.8%	46.0%	3.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					18.7%	44.5%	34.8%	2.0%	0.0%	0.0%
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BONITA 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	3.0%	10.0%	87.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	38.0%	62.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	85.0%	15.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	30.0%	65.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	45.0%	20.0%	35.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					10.6%	36.6%	52.8%	0.0%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	5.0%	35.0%	60.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	30.0%	70.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	5.0%	53.0%	42.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	37.0%	58.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	15.0%	34.0%	51.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					6.0%	37.8%	56.2%	0.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	35.0%	30.0%	35.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	48.0%	52.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	8.0%	92.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	85.0%	5.0%	10.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	60.0%	18.0%	22.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					36.0%	21.8%	42.2%	0.0%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	90.0%	5.0%	5.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	40.0%	21.0%	39.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	20.0%	32.0%	48.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	10.0%	18.0%	72.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	85.0%	11.0%	4.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					49.0%	17.4%	33.6%	0.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	50.0%	10.0%	40.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	30.0%	20.0%	50.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	5.0%	29.0%	66.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	25.0%	18.0%	57.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	20.0%	37.0%	43.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					26.0%	22.8%	51.2%	0.0%	0.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					25.5%	27.3%	47.2%	0.0%	0.0%	0.0%
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BONITA 3										
Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	40.0%	5.0%	45.0%	0.0%	10.0%	0.0%
	2	15.0%	N	Clay	17.0%	8.0%	65.0%	0.0%	10.0%	0.0%
	3	15.0%	N	Clay	55.0%	18.0%	22.0%	0.0%	5.0%	0.0%
	4	15.0%	N	Clay	77.0%	15.0%	8.0%	0.0%	0.0%	0.0%
	5	15.0%	N	Clay	32.0%	8.0%	50.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					44.2%	10.8%	38.0%	0.0%	7.0%	0.0%
Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	30.0%	5.0%	55.0%	0.0%	10.0%	0.0%
	2	15.0%	N	Clay	3.0%	7.0%	65.0%	5.0%	20.0%	0.0%
	3	15.0%	N	Clay	55.0%	10.0%	20.0%	5.0%	10.0%	0.0%
	4	15.0%	N	Clay	50.0%	15.0%	30.0%	0.0%	5.0%	0.0%
	5	15.0%	N	Clay	30.0%	13.0%	47.0%	0.0%	10.0%	0.0%
Total Average Cover (T2)					33.6%	10.0%	43.4%	2.0%	11.0%	0.0%
Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	25.0%	10.0%	50.0%	0.0%	15.0%	0.0%
	2	15.0%	N	Clay	15.0%	10.0%	60.0%	0.0%	15.0%	0.0%
	3	15.0%	N	Clay	46.0%	14.0%	28.0%	7.0%	5.0%	0.0%
	4	15.0%	N	Clay	7.0%	23.0%	57.0%	8.0%	5.0%	0.0%
	5	15.0%	N	Clay	25.0%	17.0%	48.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					23.6%	14.8%	48.6%	3.0%	10.0%	0.0%
Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	2	15.0%	N	Clay	45.0%	0.0%	45.0%	0.0%	10.0%	0.0%
	3	15.0%	N	Clay	15.0%	50.0%	30.0%	0.0%	5.0%	0.0%
	4	15.0%	N	Clay	52.0%	15.0%	28.0%	0.0%	5.0%	0.0%
	5	15.0%	N	Clay	25.0%	10.0%	53.0%	2.0%	10.0%	0.0%
Total Average Cover (T4)					45.4%	15.0%	33.2%	0.4%	6.0%	0.0%
Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	25.0%	0.0%	65.0%	0.0%	10.0%	0.0%
	2	15.0%	N	Clay	42.0%	0.0%	48.0%	0.0%	10.0%	0.0%
	3	15.0%	N	Clay	50.0%	5.0%	40.0%	0.0%	5.0%	0.0%
	4	15.0%	N	Clay	7.0%	25.0%	50.0%	3.0%	15.0%	0.0%
	5	15.0%	N	Clay	50.0%	5.0%	35.0%	0.0%	10.0%	0.0%
Total Average Cover (T5)					34.8%	7.0%	47.6%	0.6%	10.0%	0.0%
TOTAL AVERAGE COVER (T1-T5)					36.3%	11.5%	42.2%	1.2%	8.8%	0.0%

SHADY SPUR

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	2.0%	98.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	4	10.0%	NW	Clay	0.0%	1.0%	99.0%	0.0%	0.0%	0.0%
	5	10.0%	NW	Clay	1.0%	5.0%	94.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					0.2%	1.6%	94.2%	0.0%	4.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	5.0%	95.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	3	10.0%	NW	Clay	30.0%	0.0%	70.0%	0.0%	0.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	10.0%	NW	Clay	20.0%	0.0%	80.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					10.0%	1.0%	86.0%	0.0%	3.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	30.0%	70.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	0.0%	80.0%	0.0%	0.0%	20.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	10.0%	NW	Clay	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					0.0%	32.0%	62.0%	0.0%	6.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	NW	Clay	0.0%	10.0%	70.0%	0.0%	20.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	90.0%	5.0%	5.0%	0.0%
	5	10.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					0.0%	2.0%	92.0%	1.0%	5.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	50.0%	50.0%	0.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	97.0%	0.0%	3.0%	0.0%
	5	10.0%	NW	Clay	10.0%	0.0%	85.0%	0.0%	5.0%	0.0%
Total Average Cover (T5)					2.0%	0.0%	83.4%	10.0%	4.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.4%	7.3%	83.5%	2.2%	4.5%	0.0%
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NORTH LAGUNA 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	40.0%	40.0%	15.0%	0.0%	5.0%	0.0%
	2	0-10%	E	Clay	60.0%	15.0%	25.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	60.0%	20.0%	15.0%	5.0%	0.0%	0.0%
	4	0-10%	E	Clay	45.0%	15.0%	40.0%	0.0%	0.0%	0.0%
	5	0-10%	E	Clay	60.0%	18.0%	20.0%	0.0%	2.0%	0.0%
Total Average Cover (T1)					53.0%	21.6%	23.0%	1.0%	1.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	25.0%	25.0%	40.0%	0.0%	10.0%	0.0%
	2	0-10%	E	Clay	55.0%	25.0%	20.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	35.0%	18.0%	47.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	No data collected at this quadrat					0.0%
	5	0-10%	E	Clay	15.0%	8.0%	67.0%	0.0%	10.0%	0.0%
Total Average Cover (T2)					32.5%	19.0%	43.5%	0.0%	5.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	35.0%	9.0%	51.0%	0.0%	5.0%	0.0%
	2	0-10%	E	Clay	35.0%	18.0%	37.0%	0.0%	10.0%	0.0%
	3	0-10%	E	Clay	75.0%	15.0%	10.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	45.0%	10.0%	35.0%	0.0%	10.0%	0.0%
	5	0-10%	E	Clay	30.0%	0.0%	60.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					44.0%	10.4%	38.6%	0.0%	7.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	15.0%	15.0%	50.0%	0.0%	20.0%	0.0%
	2	0-10%	E	Clay	15.0%	8.0%	59.0%	0.0%	18.0%	0.0%
	3	0-10%	E	Clay	45.0%	30.0%	15.0%	0.0%	10.0%	0.0%
	4	0-10%	E	Clay	25.0%	15.0%	50.0%	0.0%	10.0%	0.0%
	5	0-10%	E	Clay	17.0%	20.0%	58.0%	0.0%	5.0%	0.0%
Total Average Cover (T4)					23.4%	17.6%	46.4%	0.0%	12.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	20.0%	18.0%	52.0%	0.0%	10.0%	0.0%
	2	0-10%	E	Clay	55.0%	25.0%	20.0%	0.0%	0.0%	0.0%
	3	0-10%	E	Clay	60.0%	5.0%	35.0%	0.0%	0.0%	0.0%
	4	0-10%	E	Clay	25.0%	10.0%	25.0%	0.0%	40.0%	0.0%
	5	0-10%	E	Clay	35.0%	0.0%	55.0%	0.0%	10.0%	0.0%
Total Average Cover (T5)					39.0%	11.6%	37.4%	0.0%	12.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					38.6%	15.9%	37.5%	0.2%	7.7%	0.0%
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NORTH LAGUNA 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	50.0%	30.0%	20.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	50.0%	12.0%	28.0%	0.0%	10.0%	0.0%
	3	0-10%	NE	Clay	30.0%	0.0%	45.0%	0.0%	25.0%	0.0%
	4	0-10%	NE	Clay	35.0%	2.0%	33.0%	0.0%	30.0%	0.0%
	5	0-10%	NE	Clay	30.0%	0.0%	55.0%	0.0%	15.0%	0.0%
Total Average Cover (T1)					39.0%	8.8%	36.2%	0.0%	16.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	10.0%	25.0%	45.0%	20.0%	0.0%	0.0%
	2	0-10%	NE	Clay	50.0%	3.0%	47.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	50.0%	5.0%	35.0%	0.0%	10.0%	0.0%
	5	0-10%	NE	Clay	50.0%	0.0%	50.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					50.0%	6.6%	37.4%	4.0%	2.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	5.0%	28.0%	57.0%	0.0%	10.0%	0.0%
	2	0-10%	NE	Clay	10.0%	5.0%	65.0%	0.0%	20.0%	0.0%
	3	0-10%	NE	Clay	5.0%	5.0%	90.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	30.0%	0.0%	55.0%	0.0%	15.0%	0.0%
	5	0-10%	NE	Clay	65.0%	3.0%	32.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					23.0%	8.2%	59.8%	0.0%	9.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	15.0%	2.0%	73.0%	0.0%	10.0%	0.0%
	2	0-10%	NE	Clay	20.0%	30.0%	40.0%	0.0%	10.0%	0.0%
	3	0-10%	NE	Clay	20.0%	5.0%	70.0%	5.0%	0.0%	0.0%
	4	0-10%	NE	Clay	20.0%	13.0%	67.0%	0.0%	0.0%	0.0%
	5	0-10%	NE	Clay	30.0%	18.0%	52.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					21.0%	13.6%	60.4%	1.0%	4.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	25.0%	0.0%	70.0%	0.0%	5.0%	0.0%
	2	0-10%	NE	Clay	30.0%	0.0%	65.0%	0.0%	5.0%	0.0%
	3	0-10%	NE	Clay	30.0%	3.0%	57.0%	10.0%	0.0%	0.0%
	4	0-10%	NE	Clay	20.0%	10.0%	70.0%	0.0%	0.0%	0.0%
	5	0-10%	NE	Clay	5.0%	3.0%	77.0%	0.0%	15.0%	0.0%
Total Average Cover (T5)					22.0%	3.2%	67.8%	2.0%	5.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					31.0%	8.1%	52.3%	1.4%	7.2%	0.0%
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ALISO AND WOODS CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	70.0%	1.0%	10.0%	10.0%	9.0%	0.0%
	2	35-60%	E	Clay	60.0%	10.0%	25.0%	0.0%	5.0%	0.0%
	3	35-60%	E	Clay	50.0%	0.0%	30.0%	0.0%	20.0%	0.0%
	4	35-60%	E	Clay	80.0%	0.0%	10.0%	0.0%	10.0%	0.0%
	5	35-60%	E	Clay	20.0%	0.0%	27.0%	10.0%	43.0%	0.0%
Total Average Cover (T1)					56.0%	2.2%	20.4%	4.0%	17.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	75.0%	5.0%	0.0%	20.0%	0.0%	0.0%
	2	35-60%	E	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	3	35-60%	E	Clay	80.0%	0.0%	10.0%	0.0%	10.0%	0.0%
	4	35-60%	E	Clay	95.0%	0.0%	5.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	90.0%	5.0%	5.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					86.0%	2.0%	6.0%	4.0%	2.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	55.0%	45.0%	0.0%	0.0%	0.0%	0.0%
	2	35-60%	E	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	3	35-60%	E	Clay	30.0%	2.0%	58.0%	5.0%	5.0%	0.0%
	4	35-60%	E	Clay	93.0%	7.0%	0.0%	0.0%	0.0%	0.0%
	5	35-60%	E	Clay	78.0%	2.0%	10.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					69.2%	11.2%	15.6%	1.0%	3.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	60.0%	0.0%	12.0%	5.0%	23.0%	0.0%
	2	35-60%	E	Clay	50.0%	0.0%	40.0%	0.0%	10.0%	0.0%
	3	35-60%	E	Clay	80.0%	0.0%	10.0%	0.0%	10.0%	0.0%
	4	35-60%	E	Clay	80.0%	0.0%	15.0%	0.0%	5.0%	0.0%
	5	35-60%	E	Clay	50.0%	50.0%	0.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					64.0%	10.0%	15.4%	1.0%	9.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	90.0%	0.0%	5.0%	0.0%	5.0%	0.0%
	2	35-60%	E	Clay	50.0%	0.0%	45.0%	0.0%	5.0%	0.0%
	3	35-60%	E	Clay	95.0%	0.0%	5.0%	0.0%	0.0%	0.0%
	4	35-60%	E	Clay	60.0%	0.0%	12.0%	0.0%	28.0%	0.0%
	5	35-60%	E	Clay	35.0%	0.0%	5.0%	30.0%	30.0%	0.0%
Total Average Cover (T5)					66.0%	0.0%	14.4%	6.0%	13.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					68.2%	5.1%	14.4%	3.2%	9.1%	0.0%
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ALISO AND WOODS CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	35.0%	1.0%	59.0%	5.0%	0.0%	0.0%
	2	0-10%	NE	Clay	75.0%	2.0%	18.0%	0.0%	5.0%	0.0%
	3	0-10%	NE	Clay	20.0%	3.0%	77.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	63.0%	0.0%	27.0%	0.0%	10.0%	0.0%
	5	0-10%	NE	Clay	83.0%	12.0%	0.0%	0.0%	5.0%	0.0%
Total Average Cover (T1)					55.2%	3.6%	36.2%	1.0%	4.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	45.0%	5.0%	50.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	10.0%	5.0%	60.0%	0.0%	25.0%	0.0%
	3	0-10%	NE	Clay	80.0%	8.0%	12.0%	0.0%	0.0%	0.0%
	4	0-10%	NE	Clay	77.0%	8.0%	15.0%	0.0%	0.0%	0.0%
	5	0-10%	NE	Clay	65.0%	0.0%	35.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					55.4%	5.2%	34.4%	0.0%	5.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	60.0%	7.0%	33.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	15.0%	15.0%	70.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	25.0%	11.0%	56.0%	8.0%	0.0%	0.0%
	4	0-10%	NE	Clay	43.0%	14.0%	34.0%	0.0%	9.0%	0.0%
	5	0-10%	NE	Clay	65.0%	25.0%	10.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					41.6%	14.4%	40.6%	1.6%	1.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	63.0%	17.0%	20.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	42.0%	23.0%	35.0%	0.0%	0.0%	0.0%
	3	0-10%	NE	Clay	35.0%	9.0%	51.0%	0.0%	5.0%	0.0%
	4	0-10%	NE	Clay	60.0%	15.0%	20.0%	0.0%	5.0%	0.0%
	5	0-10%	NE	Clay	50.0%	5.0%	35.0%	0.0%	10.0%	0.0%
Total Average Cover (T4)					50.0%	13.8%	32.2%	0.0%	4.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	76.0%	9.0%	15.0%	0.0%	0.0%	0.0%
	2	0-10%	NE	Clay	60.0%	0.0%	30.0%	0.0%	10.0%	0.0%
	3	0-10%	NE	Clay	63.0%	10.0%	17.0%	0.0%	10.0%	0.0%
	4	0-10%	NE	Clay	67.0%	10.0%	18.0%	0.0%	5.0%	0.0%
	5	0-10%	NE	Clay	25.0%	6.0%	64.0%	0.0%	5.0%	0.0%
Total Average Cover (T5)					58.2%	7.0%	28.8%	0.0%	6.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					52.1%	8.8%	34.4%	0.5%	4.2%	0.0%
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CRYSTAL COVE 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	80.0%	0.0%	20.0%	0.0%	0.0%	0.0%
	2	10-35%	E	Clay	70.0%	0.0%	0.0%	0.0%	30.0%	0.0%
	3	10-35%	E	Clay	70.0%	0.0%	5.0%	15.0%	10.0%	0.0%
	4	10-35%	E	Clay	78.0%	1.0%	16.0%	5.0%	0.0%	0.0%
	5	10-35%	E	Clay	80.0%	0.0%	20.0%	0.0%	0.0%	0.0%
Total Average Cover (T1)					75.6%	0.2%	12.2%	4.0%	8.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	85.0%	0.0%	3.0%	12.0%	0.0%	0.0%
	2	10-35%	E	Clay	85.0%	0.0%	15.0%	0.0%	0.0%	0.0%
	3	10-35%	E	Clay	53.0%	5.0%	40.0%	2.0%	0.0%	0.0%
	4	10-35%	E	Clay	80.0%	0.0%	15.0%	5.0%	0.0%	0.0%
	5	10-35%	E	Clay	60.0%	0.0%	40.0%	0.0%	0.0%	0.0%
Total Average Cover (T2)					72.6%	1.0%	22.6%	3.8%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	85.0%	0.0%	10.0%	5.0%	0.0%	0.0%
	2	10-35%	E	Clay	65.0%	30.0%	0.0%	5.0%	0.0%	0.0%
	3	10-35%	E	Clay	75.0%	0.0%	25.0%	0.0%	0.0%	0.0%
	4	10-35%	E	Clay	77.0%	0.0%	20.0%	3.0%	0.0%	0.0%
	5	10-35%	E	Clay	67.0%	0.0%	33.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					73.8%	6.0%	17.6%	2.6%	0.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	65.0%	20.0%	10.0%	5.0%	0.0%	0.0%
	2	10-35%	E	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	3	10-35%	E	Clay	89.0%	0.0%	11.0%	0.0%	0.0%	0.0%
	4	10-35%	E	Clay	91.0%	0.0%	9.0%	0.0%	0.0%	0.0%
	5	10-35%	E	Clay	81.0%	1.0%	18.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					83.2%	4.2%	11.6%	1.0%	0.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	25.0%	0.0%	72.0%	3.0%	0.0%	0.0%
	2	10-35%	E	Clay	50.0%	0.0%	35.0%	5.0%	10.0%	0.0%
	3	10-35%	E	Clay	20.0%	5.0%	70.0%	0.0%	5.0%	0.0%
	4	10-35%	E	Clay	25.0%	10.0%	60.0%	0.0%	5.0%	0.0%
	5	10-35%	E	Clay	50.0%	25.0%	23.0%	0.0%	2.0%	0.0%
Total Average Cover (T5)					34.0%	8.0%	52.0%	1.6%	4.4%	0.0%

TOTAL AVERAGE COVER (T1-T5)					67.8%	3.9%	23.2%	2.6%	2.5%	0.0%
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CRYSTAL COVE 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	30.0%	10.0%	50.0%	0.0%	10.0%	0.0%
	2	0-10%	W	Clay	40.0%	15.0%	30.0%	0.0%	15.0%	0.0%
	3	0-10%	W	Clay	35.0%	5.0%	50.0%	0.0%	10.0%	0.0%
	4	0-10%	W	Clay	20.0%	71.0%	9.0%	0.0%	0.0%	0.0%
	5	0-10%	W	Clay	40.0%	3.0%	47.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					33.0%	20.8%	37.2%	0.0%	9.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	75.0%	13.0%	12.0%	0.0%	0.0%	0.0%
	2	0-10%	W	Clay	75.0%	15.0%	5.0%	0.0%	5.0%	0.0%
	3	0-10%	W	Clay	35.0%	17.0%	43.0%	0.0%	5.0%	0.0%
	4	0-10%	W	Clay	30.0%	32.0%	23.0%	15.0%	0.0%	0.0%
	5	0-10%	W	Clay	25.0%	10.0%	60.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					48.0%	17.4%	28.6%	3.0%	3.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	35.0%	15.0%	40.0%	5.0%	5.0%	0.0%
	2	0-10%	W	Clay	60.0%	3.0%	32.0%	5.0%	0.0%	0.0%
	3	0-10%	W	Clay	81.0%	7.0%	7.0%	5.0%	0.0%	0.0%
	4	0-10%	W	Clay	20.0%	17.0%	53.0%	5.0%	5.0%	0.0%
	5	0-10%	W	Clay	0.0%	18.0%	82.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					39.2%	12.0%	42.8%	4.0%	2.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	80.0%	10.0%	10.0%	0.0%	0.0%	0.0%
	2	0-10%	W	Clay	85.0%	11.0%	4.0%	0.0%	0.0%	0.0%
	3	0-10%	W	Clay	0.0%	50.0%	10.0%	40.0%	0.0%	0.0%
	4	0-10%	W	Clay	10.0%	83.0%	5.0%	2.0%	0.0%	0.0%
	5	0-10%	W	Clay	5.0%	50.0%	40.0%	0.0%	5.0%	0.0%
Total Average Cover (T4)					36.0%	40.8%	13.8%	8.4%	1.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	30.0%	43.0%	10.0%	10.0%	7.0%	0.0%
	2	0-10%	W	Clay	30.0%	15.0%	35.0%	10.0%	10.0%	0.0%
	3	0-10%	W	Clay	0.0%	65.0%	30.0%	0.0%	5.0%	0.0%
	4	0-10%	W	Clay	0.0%	93.0%	2.0%	5.0%	0.0%	0.0%
	5	0-10%	W	Clay	50.0%	24.0%	15.0%	5.0%	6.0%	0.0%
Total Average Cover (T5)					22.0%	48.0%	18.4%	6.0%	5.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					35.6%	27.8%	28.2%	4.3%	4.1%	0.0%
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UCI RESERVE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	60.0%	12.0%	23.0%	0.0%	5.0%	0.0%
	2	0-10%	S	Clay	15.0%	0.0%	65.0%	5.0%	15.0%	0.0%
	3	0-10%	S	Clay	75.0%	0.0%	15.0%	0.0%	10.0%	0.0%
	4	0-10%	S	Clay	70.0%	0.0%	20.0%	0.0%	10.0%	0.0%
	5	0-10%	S	Clay	3.0%	0.0%	47.0%	0.0%	50.0%	0.0%
Total Average Cover (T1)					44.6%	2.4%	34.0%	1.0%	18.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	85.0%	1.0%	14.0%	0.0%	0.0%	0.0%
	2	0-10%	S	Clay	85.0%	0.0%	10.0%	0.0%	5.0%	0.0%
	3	0-10%	S	Clay	15.0%	0.0%	45.0%	0.0%	40.0%	0.0%
	4	0-10%	S	Clay	90.0%	0.0%	10.0%	0.0%	0.0%	0.0%
	5	0-10%	S	Clay	85.0%	2.0%	8.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					72.0%	0.6%	17.4%	0.0%	10.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	90.0%	0.0%	7.0%	0.0%	3.0%	0.0%
	2	0-10%	S	Clay	87.0%	0.0%	8.0%	0.0%	5.0%	0.0%
	3	0-10%	S	Clay	35.0%	0.0%	12.0%	0.0%	53.0%	0.0%
	4	0-10%	S	Clay	50.0%	0.0%	35.0%	0.0%	15.0%	0.0%
	5	0-10%	S	Clay	55.0%	0.0%	35.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					63.4%	0.0%	19.4%	0.0%	17.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	95.0%	0.0%	5.0%	0.0%	0.0%	0.0%
	2	0-10%	S	Clay	75.0%	0.0%	10.0%	3.0%	12.0%	0.0%
	3	0-10%	S	Clay	60.0%	0.0%	35.0%	0.0%	5.0%	0.0%
	4	0-10%	S	Clay	80.0%	0.0%	15.0%	0.0%	5.0%	0.0%
	5	0-10%	S	Clay	85.0%	0.0%	10.0%	0.0%	5.0%	0.0%
Total Average Cover (T4)					79.0%	0.0%	15.0%	0.6%	5.4%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	15.0%	7.0%	50.0%	3.0%	25.0%	0.0%
	2	0-10%	S	Clay	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	3	0-10%	S	Clay	96.0%	0.0%	4.0%	0.0%	0.0%	0.0%
	4	0-10%	S	Clay	5.0%	0.0%	45.0%	0.0%	50.0%	0.0%
	5	0-10%	S	Clay	30.0%	0.0%	45.0%	0.0%	25.0%	0.0%
Total Average Cover (T5)					49.2%	1.4%	28.8%	0.6%	20.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					61.6%	0.9%	22.9%	0.4%	14.1%	0.0%
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APPENDIX F

2002 DATA SUMMARY SHEETS

SAND CANYON

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	2	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	3	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	4	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	5	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
Total Average Cover (T1)					n/a	n/a	n/a	n/a	n/a	n/a

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	2	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	3	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	4	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	5	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
Total Average Cover (T2)					n/a	n/a	n/a	n/a	n/a	n/a

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	2	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	3	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	4	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	5	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
Total Average Cover (T3)					n/a	n/a	n/a	n/a	n/a	n/a

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	2	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	3	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	4	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	5	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
Total Average Cover (T4)					n/a	n/a	n/a	n/a	n/a	n/a

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	2	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	3	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	4	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
	5	10.0%	NW	Loam	n/a	n/a	n/a	n/a	n/a	n/a
Total Average Cover (T5)					n/a	n/a	n/a	n/a	n/a	n/a

TOTAL AVERAGE COVER (T1-T5)					n/a	n/a	n/a	n/a	n/a	n/a
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BOMMER RIDGE

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	87.0%	1.0%	12.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	84.0%	6.0%	10.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	60.0%	25.0%	15.0%	0.0%
Total Average Cover (T2)					0.0%	0.0%	81.8%	6.2%	12.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	90.0%	5.0%	5.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	50.0%	40.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	70.0%	25.0%	5.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	79.0%	14.0%	7.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	2.0%	0.0%	38.0%	45.0%	15.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	85.0%	8.0%	7.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	25.0%	70.0%	5.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	77.0%	18.0%	5.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	90.0%	5.0%	5.0%	0.0%
Total Average Cover (T4)					0.4%	0.0%	63.0%	29.2%	7.4%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	W	Clay	0.0%	0.0%	88.0%	2.0%	10.0%	0.0%
	2	10.0%	W	Clay	0.0%	0.0%	85.0%	8.0%	7.0%	0.0%
	3	10.0%	W	Clay	0.0%	0.0%	70.0%	20.0%	10.0%	0.0%
	4	10.0%	W	Clay	0.0%	0.0%	42.0%	50.0%	8.0%	0.0%
	5	10.0%	W	Clay	0.0%	0.0%	62.0%	30.0%	8.0%	0.0%
Total Average Cover (T5)					0.0%	0.0%	69.4%	22.0%	8.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.1%	0.0%	76.0%	14.5%	9.4%	0.0%
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BOMMER CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	80.0%	8.0%	12.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	89.0%	1.6%	9.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	90.0%	5.0%	5.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					0.0%	0.0%	92.0%	1.0%	7.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	96.0%	0.0%	4.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					0.0%	0.0%	97.0%	0.0%	3.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	NW	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	3	0.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	NW	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T5)					0.0%	0.0%	94.0%	0.0%	6.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.0%	0.0%	93.6%	0.5%	5.9%	0.0%
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BOMMER CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	25.0%	75.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	3.0%	47.0%	50.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	1.0%	49.0%	50.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	30.0%	70.0%	0.0%	0.0%
	5	0-10%	N	Clay	4.0%	0.0%	52.0%	44.0%	0.0%	0.0%
Total Average Cover (T1)					0.8%	0.8%	40.6%	57.8%	0.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	1.0%	29.0%	70.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	2.0%	53.0%	45.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	4.0%	71.0%	25.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	16.0%	84.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	2.0%	21.0%	75.0%	2.0%	0.0%
Total Average Cover (T2)					0.0%	1.8%	38.0%	59.8%	0.4%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	3.0%	27.0%	70.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	2.0%	46.0%	52.0%	0.0%	0.0%
	3	0-10%	N	Clay	20.0%	0.0%	40.0%	40.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	3.0%	39.0%	55.0%	3.0%	0.0%
	5	0-10%	N	Clay	0.0%	2.0%	74.0%	20.0%	4.0%	0.0%
Total Average Cover (T3)					4.0%	2.0%	45.2%	47.4%	1.4%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	0.0%	80.0%	20.0%	0.0%	0.0%
	2	0-10%	N	Clay	2.0%	2.0%	61.0%	35.0%	0.0%	0.0%
	3	0-10%	N	Clay	15.0%	2.0%	12.0%	71.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	0.0%	42.0%	53.0%	5.0%	0.0%
	5	0-10%	N	Clay	8.0%	0.0%	5.0%	87.0%	0.0%	0.0%
Total Average Cover (T4)					5.0%	0.8%	40.0%	53.2%	1.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	5.0%	52.0%	41.0%	2.0%	0.0%
	2	0-10%	N	Clay	0.0%	0.0%	45.0%	55.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	1.0%	45.0%	54.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	3.0%	57.0%	40.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	0.0%	10.0%	90.0%	0.0%	0.0%
Total Average Cover (T5)					0.0%	1.8%	41.8%	56.0%	0.4%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.0%	1.4%	41.1%	54.8%	0.6%	0.0%
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BOMMER CANYON 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					0.0%	0.0%	95.0%	0.0%	5.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
Total Average Cover (T2)					0.0%	0.0%	93.0%	0.0%	7.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	97.0%	0.0%	3.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					0.0%	0.0%	95.0%	0.0%	5.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	2	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	4	0.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	5	0.0%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
Total Average Cover (T5)					0.0%	0.0%	94.0%	0.0%	6.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.0%	0.0%	94.8%	0.0%	5.2%	0.0%
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BOMMER CANYON 4

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
	3	10.0%	E	Clay	3.0%	0.0%	87.0%	0.0%	10.0%	0.0%
	4	10.0%	E	Clay	5.0%	0.0%	90.0%	0.0%	5.0%	0.0%
	5	10.0%	E	Clay	11.0%	0.0%	64.0%	10.0%	15.0%	0.0%
Total Average Cover (T1)					3.8%	0.0%	88.2%	2.0%	6.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	7.0%	0.0%	88.0%	0.0%	5.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	10.0%	E	Clay	3.0%	0.0%	79.0%	3.0%	15.0%	0.0%
Total Average Cover (T2)					2.0%	0.0%	88.4%	0.6%	9.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	2	10.0%	E	Clay	0.0%	0.0%	92.0%	0.0%	8.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	51.0%	3.0%	46.0%	0.0%
	5	10.0%	E	Clay	0.0%	0.0%	33.0%	15.0%	52.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	71.2%	3.6%	25.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	93.0%	2.0%	5.0%	0.0%
	2	10.0%	E	Clay	10.0%	0.0%	85.0%	0.0%	5.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	93.0%	0.0%	7.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	92.0%	0.0%	8.0%	0.0%
	5	10.0%	E	Clay	1.0%	0.0%	39.0%	10.0%	50.0%	0.0%
Total Average Cover (T4)					2.2%	0.0%	80.4%	2.4%	15.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	2	10.0%	E	Clay	15.0%	0.0%	70.0%	5.0%	10.0%	0.0%
	3	10.0%	E	Clay	0.0%	0.0%	93.0%	2.0%	5.0%	0.0%
	4	10.0%	E	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	5	10.0%	E	Clay	0.0%	0.0%	75.0%	5.0%	20.0%	0.0%
Total Average Cover (T5)					3.0%	0.0%	85.6%	2.4%	9.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.2%	0.0%	82.8%	2.2%	12.8%	0.0%
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BOMMER CANYON 5

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	1.0%	0.0%	10.0%	89.0%	0.0%	0.0%
	2	10-35%	E	Clay	5.0%	0.0%	15.0%	75.0%	5.0%	0.0%
	3	10-35%	E	Clay	5.0%	0.0%	18.0%	77.0%	0.0%	0.0%
	4	10-35%	E	Clay	10.0%	0.0%	12.0%	78.0%	0.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	10.0%	90.0%	0.0%	0.0%
Total Average Cover (T1)					4.2%	0.0%	13.0%	81.8%	1.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	1.0%	1.0%	5.0%	88.0%	5.0%	0.0%
	2	10-35%	E	Clay	5.0%	0.0%	15.0%	80.0%	0.0%	0.0%
	3	10-35%	E	Clay	5.0%	0.0%	19.0%	71.0%	5.0%	0.0%
	4	10-35%	E	Clay	7.0%	0.0%	5.0%	83.0%	5.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	10.0%	90.0%	0.0%	0.0%
Total Average Cover (T2)					3.6%	0.2%	10.8%	82.4%	3.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	10.0%	0.0%	5.0%	80.0%	5.0%	0.0%
	2	10-35%	E	Clay	1.0%	0.0%	17.0%	72.0%	10.0%	0.0%
	3	10-35%	E	Clay	4.0%	0.0%	17.0%	74.0%	5.0%	0.0%
	4	10-35%	E	Clay	12.0%	0.0%	10.0%	73.0%	5.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	30.0%	0.0%	70.0%	0.0%
Total Average Cover (T3)					5.4%	0.0%	15.8%	59.8%	19.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	7.0%	93.0%	0.0%	0.0%
	2	10-35%	E	Clay	9.0%	0.0%	7.0%	79.0%	5.0%	0.0%
	3	10-35%	E	Clay	8.0%	0.0%	30.0%	62.0%	0.0%	0.0%
	4	10-35%	E	Clay	6.0%	0.0%	8.0%	81.0%	5.0%	0.0%
	5	10-35%	E	Clay	5.0%	0.0%	13.0%	77.0%	5.0%	0.0%
Total Average Cover (T4)					5.6%	0.0%	13.0%	78.4%	3.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	58.0%	42.0%	0.0%	0.0%
	2	10-35%	E	Clay	5.0%	0.0%	37.0%	50.0%	8.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	10.0%	85.0%	5.0%	0.0%
	4	10-35%	E	Clay	7.0%	0.0%	40.0%	43.0%	10.0%	0.0%
	5	10-35%	E	Clay	5.0%	0.0%	17.0%	73.0%	5.0%	0.0%
Total Average Cover (T5)					3.4%	0.0%	32.4%	58.6%	5.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					4.4%	0.0%	17.0%	72.2%	6.3%	0.0%
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BOMMER CANYON 6

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	0.0%	2.0%	93.0%	0.0%	5.0%	0.0%
	2	15.0%	NE	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	3	15.0%	NE	Clay	0.0%	17.0%	73.0%	0.0%	10.0%	0.0%
	4	15.0%	NE	Clay	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%
	5	15.0%	NE	Clay	2.0%	5.0%	83.0%	5.0%	5.0%	0.0%
Total Average Cover (T1)					0.4%	4.8%	84.8%	2.0%	8.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	2.0%	18.0%	55.0%	5.0%	20.0%	0.0%
	2	15.0%	NE	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	3	15.0%	NE	Clay	0.0%	8.0%	82.0%	0.0%	10.0%	0.0%
	4	15.0%	NE	Clay	0.0%	30.0%	60.0%	0.0%	10.0%	0.0%
	5	15.0%	NE	Clay	0.0%	3.0%	47.0%	0.0%	50.0%	0.0%
Total Average Cover (T2)					0.4%	11.8%	62.8%	1.0%	24.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	0.0%	20.0%	75.0%	0.0%	5.0%	0.0%
	2	15.0%	NE	Clay	0.0%	40.0%	50.0%	0.0%	10.0%	0.0%
	3	15.0%	NE	Clay	0.0%	10.0%	85.0%	0.0%	5.0%	0.0%
	4	15.0%	NE	Clay	0.0%	10.0%	80.0%	0.0%	10.0%	0.0%
	5	15.0%	NE	Clay	0.0%	5.0%	95.0%	0.0%	0.0%	0.0%
Total Average Cover (T3)					0.0%	17.0%	77.0%	0.0%	6.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	0.0%	0.0%	50.0%	0.0%	50.0%	0.0%
	2	15.0%	NE	Clay	0.0%	15.0%	75.0%	5.0%	5.0%	0.0%
	3	15.0%	NE	Clay	0.0%	20.0%	25.0%	0.0%	55.0%	0.0%
	4	15.0%	NE	Clay	0.0%	33.0%	47.0%	0.0%	20.0%	0.0%
	5	15.0%	NE	Clay	0.0%	15.0%	78.0%	0.0%	7.0%	0.0%
Total Average Cover (T4)					0.0%	16.6%	55.0%	1.0%	27.4%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	NE	Clay	0.0%	0.0%	25.0%	0.0%	75.0%	0.0%
	2	15.0%	NE	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	3	15.0%	NE	Clay	0.0%	3.0%	47.0%	0.0%	50.0%	0.0%
	4	15.0%	NE	Clay	0.0%	10.0%	80.0%	0.0%	10.0%	0.0%
	5	15.0%	NE	Clay	0.0%	2.0%	48.0%	0.0%	50.0%	0.0%
Total Average Cover (T5)					0.0%	3.0%	52.0%	0.0%	45.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.2%	10.6%	66.3%	0.8%	22.1%	0.0%
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BONITA 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	35.0%	45.0%	0.0%	20.0%	0.0%
	2	0-10%	N	Clay	0.0%	30.0%	40.0%	0.0%	30.0%	0.0%
	3	0-10%	N	Clay	0.0%	40.0%	60.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	50.0%	50.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	60.0%	10.0%	0.0%	30.0%	0.0%
Total Average Cover (T1)					0.0%	43.0%	41.0%	0.0%	16.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.5%	60.0%	15.0%	0.0%	0.0%	24.5%
	2	0-10%	N	Clay	0.0%	75.0%	10.0%	0.0%	15.0%	0.0%
	3	0-10%	N	Clay	3.0%	82.0%	15.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	65.0%	35.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	38.0%	27.0%	0.0%	35.0%	0.0%
Total Average Cover (T2)					0.7%	64.0%	20.4%	0.0%	10.0%	4.9%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	3.0%	60.0%	37.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	15.0%	45.0%	10.0%	0.0%	30.0%	0.0%
	3	0-10%	N	Clay	5.0%	45.0%	20.0%	0.0%	30.0%	0.0%
	4	0-10%	N	Clay	0.0%	5.0%	65.0%	0.0%	30.0%	0.0%
	5	0-10%	N	Clay	12.0%	20.0%	58.0%	0.0%	10.0%	0.0%
Total Average Cover (T3)					7.0%	35.0%	38.0%	0.0%	20.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.5%	40.0%	40.0%	0.0%	19.5%	0.0%
	2	0-10%	N	Clay	0.0%	55.0%	25.0%	0.0%	20.0%	0.0%
	3	0-10%	N	Clay	0.0%	40.0%	30.0%	0.0%	30.0%	0.0%
	4	0-10%	N	Clay	5.0%	7.0%	68.0%	0.0%	20.0%	0.0%
	5	0-10%	N	Clay	10.0%	15.0%	65.0%	0.0%	10.0%	0.0%
Total Average Cover (T4)					3.1%	31.4%	45.6%	0.0%	19.9%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	37.0%	53.0%	0.0%	10.0%	0.0%
	2	0-10%	N	Clay	10.0%	55.0%	30.0%	0.0%	5.0%	0.0%
	3	0-10%	N	Clay	0.0%	30.0%	20.0%	0.0%	50.0%	0.0%
	4	0-10%	N	Clay	2.0%	28.0%	39.0%	0.0%	31.0%	0.0%
	5	0-10%	N	Clay	0.0%	50.0%	40.0%	0.0%	10.0%	0.0%
Total Average Cover (T5)					2.4%	40.0%	36.4%	0.0%	21.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					1.1%	37.0%	33.9%	0.0%	28.1%	0.0%
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BONITA 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	2.0%	10.0%	60.0%	0.0%	28.0%	0.0%
	2	0-10%	N	Clay	0.0%	37.0%	33.0%	0.0%	30.0%	0.0%
	3	0-10%	N	Clay	0.0%	80.0%	10.0%	0.0%	10.0%	0.0%
	4	0-10%	N	Clay	0.0%	30.0%	70.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	15.0%	25.0%	15.0%	30.0%	15.0%	0.0%
Total Average Cover (T1)					3.4%	36.4%	37.6%	6.0%	16.6%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	35.0%	65.0%	0.0%	0.0%	0.0%
	2	0-10%	N	Clay	0.0%	35.0%	65.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	60.0%	40.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	45.0%	55.0%	0.0%	0.0%	0.0%
	5	0-10%	N	Clay	0.0%	40.0%	40.0%	20.0%	0.0%	0.0%
Total Average Cover (T2)					0.0%	43.0%	53.0%	4.0%	0.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	5.0%	30.0%	30.0%	0.0%	35.0%	0.0%
	2	0-10%	N	Clay	0.0%	47.0%	53.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	10.0%	90.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	5.0%	7.0%	43.0%	0.0%	45.0%	0.0%
	5	0-10%	N	Clay	10.0%	20.0%	30.0%	0.0%	40.0%	0.0%
Total Average Cover (T3)					4.0%	22.8%	49.2%	0.0%	24.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	20.0%	5.0%	50.0%	0.0%	25.0%	0.0%
	2	0-10%	N	Clay	0.0%	25.0%	75.0%	0.0%	0.0%	0.0%
	3	0-10%	N	Clay	0.0%	25.0%	75.0%	0.0%	0.0%	0.0%
	4	0-10%	N	Clay	0.0%	17.0%	73.0%	0.0%	10.0%	0.0%
	5	0-10%	N	Clay	0.0%	15.0%	25.0%	0.0%	60.0%	0.0%
Total Average Cover (T4)					4.0%	17.4%	59.6%	0.0%	19.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Clay	0.0%	10.0%	40.0%	5.0%	45.0%	0.0%
	2	0-10%	N	Clay	0.0%	22.0%	43.0%	5.0%	30.0%	0.0%
	3	0-10%	N	Clay	0.0%	22.0%	73.0%	0.0%	5.0%	0.0%
	4	0-10%	N	Clay	0.0%	10.0%	70.0%	0.0%	20.0%	0.0%
	5	0-10%	N	Clay	0.0%	42.0%	48.0%	0.0%	10.0%	0.0%
Total Average Cover (T5)					0.0%	21.2%	54.8%	2.0%	22.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.3%	28.2%	50.8%	2.4%	16.3%	0.0%
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BONITA 3										
Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	0.0%	13.0%	62.0%	0.0%	25.0%	0.0%
	2	15.0%	N	Clay	2.0%	15.0%	63.0%	0.0%	20.0%	0.0%
	3	15.0%	N	Clay	0.0%	3.0%	67.0%	0.0%	30.0%	0.0%
	4	15.0%	N	Clay	0.0%	0.0%	40.0%	20.0%	40.0%	0.0%
	5	15.0%	N	Clay	2.0%	9.0%	72.0%	2.0%	15.0%	0.0%
Total Average Cover (T1)					0.8%	8.0%	60.8%	4.4%	26.0%	0.0%
Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	0.0%	10.0%	60.0%	0.0%	30.0%	0.0%
	2	15.0%	N	Clay	0.0%	47.0%	34.0%	4.0%	15.0%	0.0%
	3	15.0%	N	Clay	0.0%	7.0%	40.0%	13.0%	40.0%	0.0%
	4	15.0%	N	Clay	0.0%	6.0%	44.0%	0.0%	50.0%	0.0%
	5	15.0%	N	Clay	3.0%	2.0%	55.0%	0.0%	40.0%	0.0%
Total Average Cover (T2)					0.6%	14.4%	46.6%	3.4%	35.0%	0.0%
Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	0.0%	50.0%	38.0%	0.0%	12.0%	0.0%
	2	15.0%	N	Clay	0.0%	18.0%	57.0%	0.0%	25.0%	0.0%
	3	15.0%	N	Clay	0.0%	36.0%	37.0%	2.0%	25.0%	0.0%
	4	15.0%	N	Clay	0.0%	25.0%	53.0%	7.0%	15.0%	0.0%
	5	15.0%	N	Clay	0.0%	60.0%	15.0%	10.0%	15.0%	0.0%
Total Average Cover (T3)					0.0%	37.8%	40.0%	3.8%	18.4%	0.0%
Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	0.0%	0.0%	65.0%	0.0%	35.0%	0.0%
	2	15.0%	N	Clay	5.0%	0.0%	65.0%	0.0%	30.0%	0.0%
	3	15.0%	N	Clay	15.0%	1.0%	64.0%	0.0%	20.0%	0.0%
	4	15.0%	N	Clay	0.0%	0.0%	71.0%	4.0%	25.0%	0.0%
	5	15.0%	N	Clay	3.0%	0.0%	74.0%	3.0%	20.0%	0.0%
Total Average Cover (T4)					4.6%	0.2%	67.8%	1.4%	26.0%	0.0%
Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	15.0%	N	Clay	8.0%	0.0%	72.0%	0.0%	20.0%	0.0%
	2	15.0%	N	Clay	6.0%	0.0%	69.0%	0.0%	25.0%	0.0%
	3	15.0%	N	Clay	7.0%	2.0%	61.0%	0.0%	30.0%	0.0%
	4	15.0%	N	Clay	6.0%	0.0%	73.0%	1.0%	20.0%	0.0%
	5	15.0%	N	Clay	12.0%	1.0%	67.0%	0.0%	20.0%	0.0%
Total Average Cover (T5)					7.8%	0.6%	68.4%	0.2%	23.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.8%	12.2%	56.7%	2.6%	25.7%	0.0%
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SHADY SPUR

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	65.0%	0.0%	35.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	65.0%	0.0%	35.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
	5	10.0%	NW	Clay	0.0%	4.0%	46.0%	0.0%	50.0%	0.0%
Total Average Cover (T1)					0.0%	0.8%	67.2%	0.0%	32.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	6.0%	87.0%	0.0%	7.0%	0.0%
	2	10.0%	NW	Clay	0.0%	3.0%	92.0%	0.0%	5.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	92.0%	3.0%	5.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	5	10.0%	NW	Clay	0.0%	10.0%	85.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					0.0%	3.8%	85.2%	0.6%	10.4%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	10.0%	85.0%	0.0%	5.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	3	10.0%	NW	Clay	40.0%	0.0%	55.0%	0.0%	5.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	93.0%	0.0%	7.0%	0.0%
	5	10.0%	NW	Clay	0.0%	0.0%	42.0%	8.0%	50.0%	0.0%
Total Average Cover (T3)					8.0%	2.0%	74.0%	1.6%	14.4%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	15.0%	0.0%	80.0%	0.0%	5.0%	0.0%
	2	10.0%	NW	Clay	0.0%	1.0%	79.0%	0.0%	20.0%	0.0%
	3	10.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	93.0%	2.0%	5.0%	0.0%
	5	10.0%	NW	Clay	0.0%	2.0%	95.0%	0.0%	3.0%	0.0%
Total Average Cover (T4)					3.0%	0.6%	88.4%	0.4%	7.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10.0%	NW	Clay	0.0%	3.0%	87.0%	0.0%	10.0%	0.0%
	2	10.0%	NW	Clay	0.0%	0.0%	97.0%	0.0%	3.0%	0.0%
	3	10.0%	NW	Clay	0.0%	1.0%	67.0%	25.0%	7.0%	0.0%
	4	10.0%	NW	Clay	0.0%	0.0%	90.0%	0.0%	10.0%	0.0%
	5	10.0%	NW	Clay	0.0%	0.0%	95.0%	0.0%	5.0%	0.0%
Total Average Cover (T5)					0.0%	0.8%	87.2%	5.0%	7.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.2%	1.6%	80.4%	1.5%	14.3%	0.0%
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SHADY SPUR 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	NW	Clay	50.0%	11.0%	29.0%	0.0%	10.0%	0.0%
	2	35-60%	NW	Clay	12.0%	28.0%	55.0%	0.0%	5.0%	0.0%
	3	35-60%	NW	Clay	13.0%	36.0%	46.0%	0.0%	5.0%	0.0%
	4	35-60%	NW	Clay	7.0%	14.0%	74.0%	0.0%	5.0%	0.0%
	5	35-60%	NW	Clay	5.0%	26.0%	54.0%	15.0%	0.0%	0.0%
Total Average Cover (T1)					17.4%	23.0%	51.6%	3.0%	5.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	NW	Clay	35.0%	56.0%	9.0%	0.0%	0.0%	0.0%
	2	35-60%	NW	Clay	10.0%	25.0%	55.0%	0.0%	10.0%	0.0%
	3	35-60%	NW	Clay	22.0%	40.0%	38.0%	0.0%	0.0%	0.0%
	4	35-60%	NW	Clay	3.0%	16.0%	46.0%	35.0%	0.0%	0.0%
	5	35-60%	NW	Clay	15.0%	26.0%	54.0%	0.0%	5.0%	0.0%
Total Average Cover (T2)					17.0%	32.6%	40.4%	7.0%	3.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	NW	Clay	25.0%	28.0%	41.0%	0.0%	6.0%	0.0%
	2	35-60%	NW	Clay	10.0%	48.0%	42.0%	0.0%	0.0%	0.0%
	3	35-60%	NW	Clay	12.0%	65.0%	23.0%	0.0%	0.0%	0.0%
	4	35-60%	NW	Clay	25.0%	60.0%	15.0%	0.0%	0.0%	0.0%
	5	35-60%	NW	Clay	20.0%	16.0%	59.0%	0.0%	5.0%	0.0%
Total Average Cover (T3)					18.4%	43.4%	36.0%	0.0%	2.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	NW	Clay	12.0%	45.0%	38.0%	0.0%	5.0%	0.0%
	2	35-60%	NW	Clay	20.0%	35.0%	40.0%	0.0%	5.0%	0.0%
	3	35-60%	NW	Clay	18.0%	58.0%	18.0%	0.0%	6.0%	0.0%
	4	35-60%	NW	Clay	10.0%	54.0%	21.0%	15.0%	0.0%	0.0%
	5	35-60%	NW	Clay	20.0%	36.0%	34.0%	5.0%	5.0%	0.0%
Total Average Cover (T4)					16.0%	45.6%	30.2%	4.0%	4.2%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	NW	Clay	13.0%	50.0%	31.0%	0.0%	6.0%	0.0%
	2	35-60%	NW	Clay	10.0%	65.0%	20.0%	0.0%	5.0%	0.0%
	3	35-60%	NW	Clay	20.0%	18.0%	42.0%	15.0%	5.0%	0.0%
	4	35-60%	NW	Clay	50.0%	13.0%	27.0%	0.0%	10.0%	0.0%
	5	35-60%	NW	Clay	7.0%	76.0%	7.0%	5.0%	5.0%	0.0%
Total Average Cover (T5)					20.0%	44.4%	25.4%	4.0%	6.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					17.8%	37.8%	36.7%	3.6%	4.1%	0.0%
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NORTH LAGUNA 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	50.0%	46.0%	0.0%	4.0%	0.0%
	2	0-10%	E	Clay	0.0%	20.0%	37.0%	8.0%	35.0%	0.0%
	3	0-10%	E	Clay	0.0%	15.0%	70.0%	0.0%	15.0%	0.0%
	4	0-10%	E	Clay	0.0%	8.0%	15.0%	0.0%	77.0%	0.0%
	5	0-10%	E	Clay	0.0%	6.0%	25.0%	0.0%	69.0%	0.0%
Total Average Cover (T1)					0.0%	19.8%	38.6%	1.6%	40.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	7.0%	78.0%	0.0%	15.0%	0.0%
	2	0-10%	E	Clay	0.0%	20.0%	55.0%	0.0%	25.0%	0.0%
	3	0-10%	E	Clay	0.0%	25.0%	70.0%	0.0%	5.0%	0.0%
	4	0-10%	E	Clay	0.0%	25.0%	35.0%	0.0%	40.0%	0.0%
	5	0-10%	E	Clay	0.0%	3.0%	57.0%	0.0%	40.0%	0.0%
Total Average Cover (T2)					0.0%	16.0%	59.0%	0.0%	25.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	20.0%	40.0%	0.0%	40.0%	0.0%
	2	0-10%	E	Clay	0.0%	6.0%	69.0%	0.0%	25.0%	0.0%
	3	0-10%	E	Clay	0.0%	20.0%	30.0%	0.0%	50.0%	0.0%
	4	0-10%	E	Clay	0.0%	5.0%	5.0%	0.0%	90.0%	0.0%
	5	0-10%	E	Clay	2.0%	5.0%	58.0%	0.0%	35.0%	0.0%
Total Average Cover (T3)					0.4%	11.2%	40.4%	0.0%	48.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	7.0%	23.0%	0.0%	70.0%	0.0%
	2	0-10%	E	Clay	0.0%	5.0%	65.0%	0.0%	30.0%	0.0%
	3	0-10%	E	Clay	0.0%	20.0%	60.0%	0.0%	20.0%	0.0%
	4	0-10%	E	Clay	0.0%	15.0%	60.0%	0.0%	25.0%	0.0%
	5	0-10%	E	Clay	0.0%	20.0%	65.0%	0.0%	15.0%	0.0%
Total Average Cover (T4)					0.0%	13.4%	54.6%	0.0%	32.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	E	Clay	0.0%	30.0%	50.0%	0.0%	20.0%	0.0%
	2	0-10%	E	Clay	0.0%	12.0%	48.0%	0.0%	40.0%	0.0%
	3	0-10%	E	Clay	0.0%	3.0%	67.0%	0.0%	30.0%	0.0%
	4	0-10%	E	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	5	0-10%	E	Clay	0.0%	0.0%	62.0%	0.0%	38.0%	0.0%
Total Average Cover (T5)					0.0%	9.0%	57.4%	0.0%	33.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.1%	13.9%	50.0%	0.3%	35.7%	0.0%
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NORTH LAGUNA 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	7.0%	0.0%	93.0%	0.0%
	2	0-10%	NE	Clay	8.0%	0.0%	2.0%	0.0%	90.0%	0.0%
	3	0-10%	NE	Clay	70.0%	2.0%	23.0%	0.0%	5.0%	0.0%
	4	0-10%	NE	Clay	45.0%	1.0%	2.0%	42.0%	10.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	48.0%	2.0%	50.0%	0.0%
Total Average Cover (T1)					24.6%	0.6%	16.4%	8.8%	49.6%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	2.0%	30.0%	43.0%	0.0%	25.0%	0.0%
	2	0-10%	NE	Clay	35.0%	0.0%	40.0%	0.0%	25.0%	0.0%
	3	0-10%	NE	Clay	1.0%	2.0%	7.0%	0.0%	90.0%	0.0%
	4	0-10%	NE	Clay	5.0%	0.0%	20.0%	0.0%	75.0%	0.0%
	5	0-10%	NE	Clay	4.0%	0.0%	81.0%	0.0%	15.0%	0.0%
Total Average Cover (T2)					9.4%	6.4%	38.2%	0.0%	46.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	71.0%	24.0%	0.0%	5.0%	0.0%
	2	0-10%	NE	Clay	21.0%	20.0%	34.0%	0.0%	25.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	3.0%	0.0%	97.0%	0.0%
	4	0-10%	NE	Clay	2.0%	0.0%	8.0%	0.0%	90.0%	0.0%
	5	0-10%	NE	Clay	29.0%	0.0%	7.0%	3.0%	61.0%	0.0%
Total Average Cover (T3)					10.4%	18.2%	15.2%	0.6%	55.6%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	5.0%	0.0%	6.0%	4.0%	85.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.5%	7.0%	0.0%	92.5%	0.0%
	3	0-10%	NE	Clay	20.0%	0.0%	10.0%	0.0%	70.0%	0.0%
	4	0-10%	NE	Clay	0.0%	0.0%	70.0%	0.0%	30.0%	0.0%
	5	0-10%	NE	Clay	7.0%	0.0%	10.0%	0.0%	83.0%	0.0%
Total Average Cover (T4)					6.4%	0.1%	20.6%	0.8%	72.1%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	15.0%	0.0%	8.0%	0.0%	77.0%	0.0%
	2	0-10%	NE	Clay	3.0%	10.0%	15.0%	0.0%	72.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	65.0%	0.0%	35.0%	0.0%
	4	0-10%	NE	Clay	0.0%	5.0%	8.0%	0.0%	87.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	85.0%	0.0%	15.0%	0.0%
Total Average Cover (T5)					3.6%	3.0%	36.2%	0.0%	57.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					10.9%	5.7%	25.3%	2.0%	56.1%	0.0%
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NORTH LAGUNA 3

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	8.0%	2.0%	40.0%	0.0%	50.0%	0.0%
	2	0-10%	NE	Clay	6.0%	0.0%	74.0%	0.0%	20.0%	0.0%
	3	0-10%	NE	Clay	7.0%	1.0%	62.0%	0.0%	30.0%	0.0%
	4	0-10%	NE	Clay	26.0%	0.0%	31.0%	0.0%	43.0%	0.0%
	5	0-10%	NE	Clay	5.0%	0.0%	48.0%	0.0%	47.0%	0.0%
Total Average Cover (T1)					10.4%	0.6%	51.0%	0.0%	38.0%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	43.0%	2.0%	15.0%	0.0%	40.0%	0.0%
	2	0-10%	NE	Clay	35.0%	7.0%	25.0%	0.0%	33.0%	0.0%
	3	0-10%	NE	Clay	14.0%	2.0%	42.0%	8.0%	34.0%	0.0%
	4	0-10%	NE	Clay	6.0%	2.0%	55.0%	0.0%	37.0%	0.0%
	5	0-10%	NE	Clay	5.0%	5.0%	70.0%	0.0%	20.0%	0.0%
Total Average Cover (T2)					20.6%	3.6%	41.4%	1.6%	32.8%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	5.0%	4.0%	81.0%	0.0%	10.0%	0.0%
	2	0-10%	NE	Clay	25.0%	2.0%	53.0%	10.0%	10.0%	0.0%
	3	0-10%	NE	Clay	28.0%	1.0%	20.0%	25.0%	26.0%	0.0%
	4	0-10%	NE	Clay	40.0%	3.0%	15.0%	0.0%	42.0%	0.0%
	5	0-10%	NE	Clay	2.0%	2.0%	75.0%	3.0%	18.0%	0.0%
Total Average Cover (T3)					20.0%	2.4%	48.8%	7.6%	21.2%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	8.0%	1.0%	68.0%	8.0%	15.0%	0.0%
	2	0-10%	NE	Clay	27.0%	5.0%	50.0%	10.0%	8.0%	0.0%
	3	0-10%	NE	Clay	45.0%	0.0%	45.0%	5.0%	5.0%	0.0%
	4	0-10%	NE	Clay	5.0%	0.0%	88.0%	2.0%	5.0%	0.0%
	5	0-10%	NE	Clay	40.0%	5.0%	45.0%	0.0%	10.0%	0.0%
Total Average Cover (T4)					25.0%	2.2%	59.2%	5.0%	8.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	28.0%	2.0%	61.0%	1.0%	8.0%	0.0%
	2	0-10%	NE	Clay	29.0%	8.0%	56.0%	0.0%	7.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	65.0%	0.0%	35.0%	0.0%
	4	0-10%	NE	Clay	20.0%	15.0%	53.0%	4.0%	8.0%	0.0%
	5	0-10%	NE	Clay	79.0%	1.0%	13.0%	7.0%	0.0%	0.0%
Total Average Cover (T5)					31.2%	5.2%	49.6%	2.4%	11.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					21.4%	2.8%	50.0%	3.3%	22.4%	0.0%
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ALISO AND WOODS CANYON 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	8.0%	0.0%	32.0%	10.0%	50.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	22.0%	3.0%	75.0%	0.0%
	3	35-60%	E	Clay	0.0%	15.0%	20.0%	10.0%	55.0%	0.0%
	4	35-60%	E	Clay	5.0%	1.0%	35.0%	15.0%	44.0%	0.0%
	5	35-60%	E	Clay	2.0%	0.0%	5.0%	20.0%	73.0%	0.0%
Total Average Cover (T1)					3.0%	3.2%	22.8%	11.6%	59.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	20.0%	5.0%	75.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	10.0%	10.0%	80.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	57.0%	8.0%	35.0%	0.0%
	4	35-60%	E	Clay	0.0%	0.0%	30.0%	4.0%	66.0%	0.0%
	5	35-60%	E	Clay	7.0%	2.0%	35.0%	20.0%	36.0%	0.0%
Total Average Cover (T2)					1.4%	0.4%	30.4%	9.4%	58.4%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	5.0%	2.0%	15.0%	78.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	46.0%	8.0%	46.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	80.0%	0.0%	20.0%	0.0%
	4	35-60%	E	Clay	5.0%	0.0%	52.0%	3.0%	40.0%	0.0%
	5	35-60%	E	Clay	4.0%	0.0%	51.0%	5.0%	40.0%	0.0%
Total Average Cover (T3)					1.8%	1.0%	46.2%	6.2%	44.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	20.0%	0.0%	30.0%	0.0%	50.0%	0.0%
	2	35-60%	E	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	82.0%	3.0%	15.0%	0.0%
	4	35-60%	E	Clay	5.0%	0.0%	55.0%	0.0%	40.0%	0.0%
	5	35-60%	E	Clay	13.0%	75.0%	2.0%	5.0%	5.0%	0.0%
Total Average Cover (T4)					7.6%	15.0%	48.8%	1.6%	27.0%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	35-60%	E	Clay	0.0%	0.0%	25.0%	10.0%	65.0%	0.0%
	2	35-60%	E	Clay	1.0%	0.0%	66.0%	3.0%	30.0%	0.0%
	3	35-60%	E	Clay	0.0%	0.0%	35.0%	0.0%	65.0%	0.0%
	4	35-60%	E	Clay	8.0%	1.0%	41.0%	0.0%	50.0%	0.0%
	5	35-60%	E	Clay	7.0%	20.0%	4.0%	10.0%	59.0%	0.0%
Total Average Cover (T5)					3.2%	4.2%	34.2%	4.6%	53.8%	0.0%

TOTAL AVERAGE COVER (T1-T5)					3.4%	4.8%	36.5%	6.7%	48.7%	0.0%
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ALISO AND WOODS CANYON 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	40.0%	0.0%	60.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	30.0%	3.0%	67.0%	0.0%
	3	0-10%	NE	Clay	0.0%	0.0%	10.0%	5.0%	85.0%	0.0%
	4	0-10%	NE	Clay	0.0%	1.0%	26.0%	0.0%	73.0%	0.0%
	5	0-10%	NE	Clay	3.0%	1.0%	40.0%	4.0%	52.0%	0.0%
Total Average Cover (T1)					0.6%	0.4%	29.2%	2.4%	67.4%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	26.0%	4.0%	70.0%	0.0%
	2	0-10%	NE	Clay	0.0%	0.0%	75.0%	0.0%	25.0%	0.0%
	3	0-10%	NE	Clay	0.0%	2.0%	40.0%	3.0%	55.0%	0.0%
	4	0-10%	NE	Clay	1.0%	0.0%	38.0%	0.0%	61.0%	0.0%
	5	0-10%	NE	Clay	1.0%	15.0%	34.0%	25.0%	25.0%	0.0%
Total Average Cover (T2)					0.4%	3.4%	42.6%	6.4%	47.2%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	45.0%	5.0%	50.0%	0.0%
	2	0-10%	NE	Clay	0.0%	7.0%	73.0%	0.0%	20.0%	0.0%
	3	0-10%	NE	Clay	0.0%	4.0%	80.0%	2.0%	14.0%	0.0%
	4	0-10%	NE	Clay	1.0%	0.0%	56.0%	3.0%	40.0%	0.0%
	5	0-10%	NE	Clay	0.0%	0.0%	55.0%	0.0%	45.0%	0.0%
Total Average Cover (T3)					0.2%	2.2%	61.8%	2.0%	33.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	0.0%	25.0%	5.0%	70.0%	0.0%
	2	0-10%	NE	Clay	0.0%	4.0%	25.0%	5.0%	66.0%	0.0%
	3	0-10%	NE	Clay	0.0%	2.0%	79.0%	4.0%	15.0%	0.0%
	4	0-10%	NE	Clay	0.0%	0.0%	60.0%	0.0%	40.0%	0.0%
	5	0-10%	NE	Clay	0.0%	3.0%	63.0%	4.0%	30.0%	0.0%
Total Average Cover (T4)					0.0%	1.8%	50.4%	3.6%	44.2%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	NE	Clay	0.0%	1.0%	15.0%	0.0%	84.0%	0.0%
	2	0-10%	NE	Clay	0.0%	1.0%	26.0%	20.0%	53.0%	0.0%
	3	0-10%	NE	Clay	1.0%	0.0%	20.0%	12.0%	67.0%	0.0%
	4	0-10%	NE	Clay	30.0%	0.0%	25.0%	0.0%	45.0%	0.0%
	5	0-10%	NE	Clay	24.0%	0.0%	36.0%	0.0%	40.0%	0.0%
Total Average Cover (T5)					11.0%	0.4%	24.4%	6.4%	57.8%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.4%	1.6%	41.7%	4.2%	50.1%	0.0%
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CRYSTAL COVE 1

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	16.0%	4.0%	80.0%	0.0%
	2	10-35%	E	Clay	1.0%	0.0%	3.0%	0.0%	96.0%	0.0%
	3	10-35%	E	Clay	6.0%	0.0%	7.0%	8.0%	79.0%	0.0%
	4	10-35%	E	Clay	4.0%	0.0%	19.0%	15.0%	62.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	20.0%	5.0%	75.0%	0.0%
Total Average Cover (T1)					2.2%	0.0%	13.0%	6.4%	78.4%	0.0%
Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	26.0%	0.0%	74.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	21.0%	7.0%	72.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	12.0%	10.0%	78.0%	0.0%
	4	10-35%	E	Clay	3.0%	0.0%	18.0%	8.0%	71.0%	0.0%
	5	10-35%	E	Clay	2.0%	0.0%	78.0%	0.0%	20.0%	0.0%
Total Average Cover (T2)					1.0%	0.0%	31.0%	5.0%	63.0%	0.0%
Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	50.0%	20.0%	30.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	17.0%	4.0%	79.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	13.0%	5.0%	82.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	15.0%	2.0%	83.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	19.0%	2.0%	79.0%	0.0%
Total Average Cover (T3)					0.0%	0.0%	22.8%	6.6%	70.6%	0.0%
Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	37.0%	30.0%	33.0%	0.0%
	2	10-35%	E	Clay	0.0%	0.0%	11.0%	10.0%	79.0%	0.0%
	3	10-35%	E	Clay	0.0%	0.0%	5.0%	15.0%	80.0%	0.0%
	4	10-35%	E	Clay	0.0%	0.0%	25.0%	10.0%	65.0%	0.0%
	5	10-35%	E	Clay	0.0%	0.0%	68.0%	2.0%	30.0%	0.0%
Total Average Cover (T4)					0.0%	0.0%	29.2%	13.4%	57.4%	0.0%
Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	10-35%	E	Clay	0.0%	0.0%	85.0%	5.0%	10.0%	0.0%
	2	10-35%	E	Clay	10.0%	0.0%	80.0%	2.0%	8.0%	0.0%
	3	10-35%	E	Clay	0.0%	5.0%	87.0%	3.0%	5.0%	0.0%
	4	10-35%	E	Clay	0.0%	4.0%	88.0%	0.0%	8.0%	0.0%
	5	10-35%	E	Clay	1.0%	10.0%	76.0%	3.0%	10.0%	0.0%
Total Average Cover (T5)					2.2%	3.8%	83.2%	2.6%	8.2%	0.0%

TOTAL AVERAGE COVER (T1-T5)					1.1%	0.8%	35.8%	6.8%	55.5%	0.0%
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CRYSTAL COVE 2

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	0.0%	0.0%	30.0%	4.0%	66.0%	0.0%
	2	0-10%	W	Clay	1.0%	0.0%	26.0%	2.0%	71.0%	0.0%
	3	0-10%	W	Clay	0.0%	11.0%	25.0%	0.0%	64.0%	0.0%
	4	0-10%	W	Clay	1.0%	33.0%	36.0%	0.0%	30.0%	0.0%
	5	0-10%	W	Clay	0.0%	6.0%	84.0%	0.0%	10.0%	0.0%
Total Average Cover (T1)					0.4%	10.0%	40.2%	1.2%	48.2%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	0.0%	1.0%	64.0%	0.0%	35.0%	0.0%
	2	0-10%	W	Clay	0.0%	0.0%	45.0%	0.0%	55.0%	0.0%
	3	0-10%	W	Clay	0.0%	1.0%	69.0%	0.0%	30.0%	0.0%
	4	0-10%	W	Clay	2.0%	6.0%	67.0%	0.0%	25.0%	0.0%
	5	0-10%	W	Clay	0.0%	13.0%	47.0%	0.0%	40.0%	0.0%
Total Average Cover (T2)					0.4%	4.2%	58.4%	0.0%	37.0%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	0.0%	2.0%	40.0%	2.0%	56.0%	0.0%
	2	0-10%	W	Clay	0.0%	1.0%	64.0%	0.0%	35.0%	0.0%
	3	0-10%	W	Clay	0.0%	2.0%	16.0%	2.0%	80.0%	0.0%
	4	0-10%	W	Clay	3.0%	22.0%	70.0%	0.0%	5.0%	0.0%
	5	0-10%	W	Clay	0.0%	9.0%	87.0%	0.0%	4.0%	0.0%
Total Average Cover (T3)					0.6%	7.2%	55.4%	0.8%	36.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	0.0%	0.0%	30.0%	5.0%	65.0%	0.0%
	2	0-10%	W	Clay	0.0%	2.0%	5.0%	5.0%	88.0%	0.0%
	3	0-10%	W	Clay	0.0%	71.0%	0.0%	29.0%	0.0%	0.0%
	4	0-10%	W	Clay	4.0%	75.0%	6.0%	15.0%	0.0%	0.0%
	5	0-10%	W	Clay	2.0%	83.0%	15.0%	0.0%	0.0%	0.0%
Total Average Cover (T4)					1.2%	46.2%	11.2%	10.8%	30.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	W	Clay	0.0%	5.0%	20.0%	30.0%	45.0%	0.0%
	2	0-10%	W	Clay	0.0%	21.0%	7.0%	20.0%	52.0%	0.0%
	3	0-10%	W	Clay	0.0%	79.0%	21.0%	0.0%	0.0%	0.0%
	4	0-10%	W	Clay	0.0%	97.0%	2.0%	1.0%	0.0%	0.0%
	5	0-10%	W	Clay	0.0%	16.0%	43.0%	8.0%	33.0%	0.0%
Total Average Cover (T5)					0.0%	43.6%	18.6%	11.8%	26.0%	0.0%

TOTAL AVERAGE COVER (T1-T5)					0.5%	22.2%	36.8%	4.9%	35.6%	0.0%
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Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	3.0%	30.0%	4.0%	5.0%	58.0%	0.0%
	2	0-10%	S	Clay	0.0%	0.0%	19.0%	15.0%	66.0%	0.0%
	3	0-10%	S	Clay	3.0%	0.0%	3.0%	15.0%	79.0%	0.0%
	4	0-10%	S	Clay	1.0%	0.0%	9.0%	0.0%	90.0%	0.0%
	5	0-10%	S	Clay	4.0%	0.0%	33.0%	10.0%	53.0%	0.0%
Total Average Cover (T1)					2.2%	6.0%	13.6%	9.0%	69.2%	0.0%

Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	0.0%	5.0%	10.0%	0.0%	85.0%	0.0%
	2	0-10%	S	Clay	1.0%	12.0%	13.0%	0.0%	74.0%	0.0%
	3	0-10%	S	Clay	4.0%	0.0%	23.0%	0.0%	73.0%	0.0%
	4	0-10%	S	Clay	0.0%	0.0%	30.0%	0.0%	70.0%	0.0%
	5	0-10%	S	Clay	0.0%	0.0%	6.0%	0.0%	94.0%	0.0%
Total Average Cover (T2)					1.0%	3.4%	16.4%	0.0%	79.2%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	1.0%	5.0%	17.0%	0.0%	77.0%	0.0%
	2	0-10%	S	Clay	1.0%	0.0%	4.0%	2.0%	93.0%	0.0%
	3	0-10%	S	Clay	0.0%	0.0%	9.0%	0.0%	91.0%	0.0%
	4	0-10%	S	Clay	3.0%	0.0%	20.0%	0.0%	77.0%	0.0%
	5	0-10%	S	Clay	5.0%	0.0%	9.0%	0.0%	86.0%	0.0%
Total Average Cover (T3)					2.0%	1.0%	11.8%	0.4%	84.8%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	0.0%	0.0%	5.0%	3.0%	92.0%	0.0%
	2	0-10%	S	Clay	2.0%	2.0%	16.0%	3.0%	77.0%	0.0%
	3	0-10%	S	Clay	3.0%	0.0%	15.0%	0.0%	82.0%	0.0%
	4	0-10%	S	Clay	0.0%	0.0%	12.0%	0.0%	88.0%	0.0%
	5	0-10%	S	Clay	8.0%	0.0%	13.0%	0.0%	79.0%	0.0%
Total Average Cover (T4)					2.6%	0.4%	12.2%	1.2%	83.6%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	S	Clay	0.0%	0.0%	9.0%	4.0%	87.0%	0.0%
	2	0-10%	S	Clay	3.0%	0.0%	13.0%	3.0%	81.0%	0.0%
	3	0-10%	S	Clay	0.0%	0.0%	2.0%	0.0%	98.0%	0.0%
	4	0-10%	S	Clay	1.0%	0.0%	11.0%	0.0%	88.0%	0.0%
	5	0-10%	S	Clay	12.0%	8.0%	20.0%	6.0%	54.0%	0.0%
Total Average Cover (T5)					3.2%	1.6%	11.0%	2.6%	81.6%	0.0%

TOTAL AVERAGE COVER (T1-T5)					2.2%	2.5%	13.0%	2.6%	79.7%	0.0%
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PETERS CANYON

Transect 1	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Loam	32.0%	0.0%	15.0%	40.0%	13.0%	0.0%
	2	0-10%	N	Loam	29.0%	0.0%	9.0%	5.0%	57.0%	0.0%
	3	0-10%	N	Loam	20.0%	0.0%	13.0%	3.0%	64.0%	0.0%
	4	0-10%	N	Loam	25.0%	0.0%	14.0%	6.0%	55.0%	0.0%
	5	0-10%	N	Loam	23.0%	0.0%	32.0%	0.0%	45.0%	0.0%
Total Average Cover (T1)					25.8%	0.0%	16.6%	10.8%	46.8%	0.0%

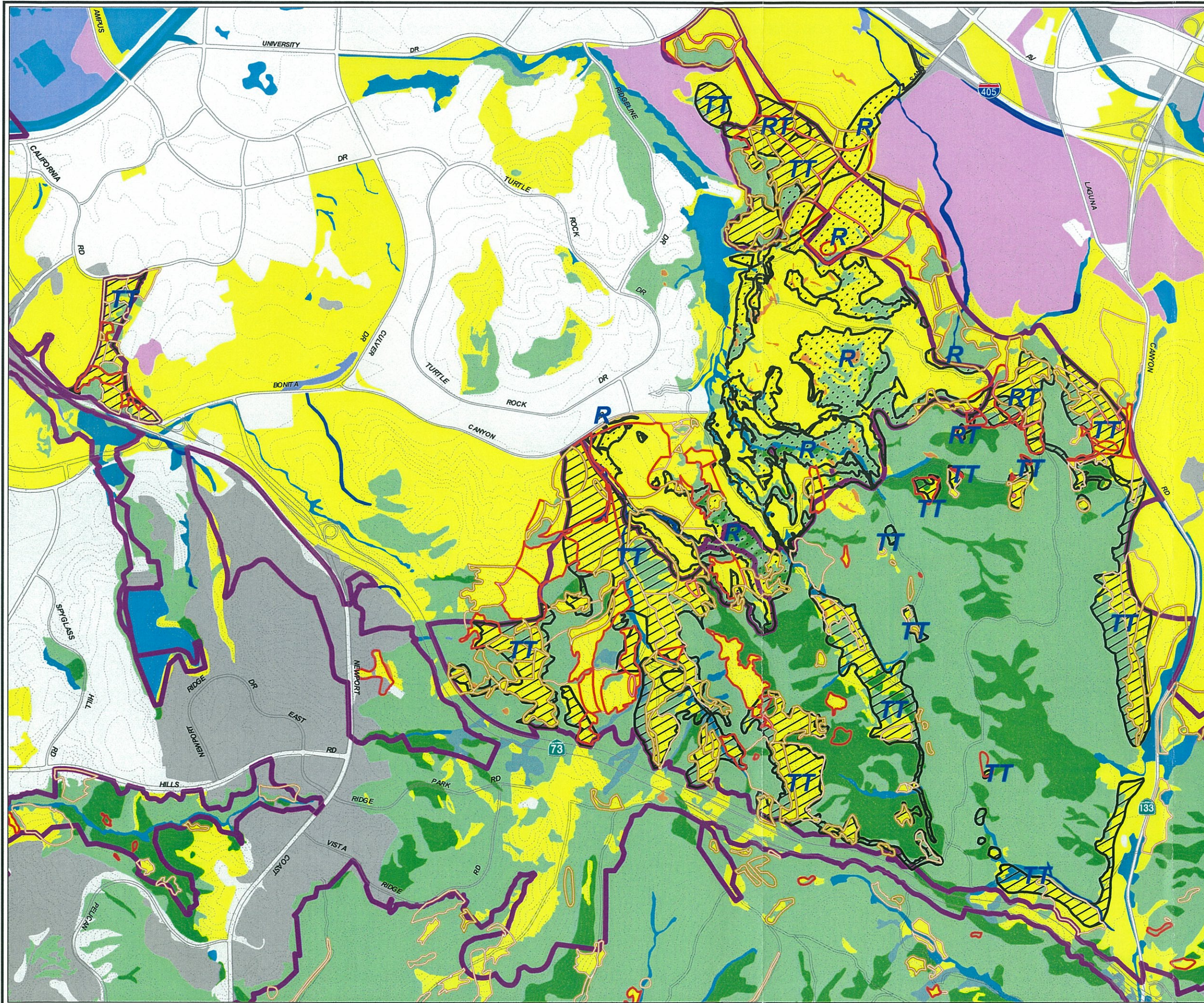
Transect 2	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Loam	16.0%	0.0%	20.0%	20.0%	44.0%	0.0%
	2	0-10%	N	Loam	30.0%	0.0%	10.0%	8.0%	52.0%	0.0%
	3	0-10%	N	Loam	21.0%	1.0%	20.0%	15.0%	43.0%	0.0%
	4	0-10%	N	Loam	19.0%	1.0%	29.0%	10.0%	41.0%	0.0%
	5	0-10%	N	Loam	21.0%	0.0%	23.0%	20.0%	36.0%	0.0%
Total Average Cover (T2)					21.4%	0.4%	20.4%	14.6%	43.2%	0.0%

Transect 3	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Loam	15.0%	0.0%	19.0%	6.0%	60.0%	0.0%
	2	0-10%	N	Loam	28.0%	4.0%	38.0%	0.0%	30.0%	0.0%
	3	0-10%	N	Loam	4.0%	6.0%	28.0%	37.0%	25.0%	0.0%
	4	0-10%	N	Loam	27.0%	0.0%	11.0%	2.0%	60.0%	0.0%
	5	0-10%	N	Loam	19.0%	3.0%	8.0%	10.0%	60.0%	0.0%
Total Average Cover (T3)					18.6%	2.6%	20.8%	11.0%	47.0%	0.0%

Transect 4	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Loam	20.0%	2.0%	21.0%	10.0%	47.0%	0.0%
	2	0-10%	N	Loam	7.0%	0.0%	25.0%	25.0%	43.0%	0.0%
	3	0-10%	N	Loam	6.0%	1.0%	42.0%	15.0%	36.0%	0.0%
	4	0-10%	N	Loam	12.0%	1.0%	19.0%	40.0%	28.0%	0.0%
	5	0-10%	N	Loam	5.0%	0.0%	35.0%	10.0%	50.0%	0.0%
Total Average Cover (T4)					10.0%	0.8%	28.4%	20.0%	40.8%	0.0%

Transect 5	Quadrat Number	Slope Gradient	Aspect	Soil Type	CYCA Cover	Native Cover	Exotic Cover	Bare Ground/ Rock	Litter	Other Cover
	1	0-10%	N	Loam	9.0%	0.0%	13.0%	20.0%	58.0%	0.0%
	2	0-10%	N	Loam	6.0%	1.0%	11.0%	42.0%	40.0%	0.0%
	3	0-10%	N	Loam	8.0%	0.0%	22.0%	25.0%	45.0%	0.0%
	4	0-10%	N	Loam	15.0%	1.0%	15.0%	7.0%	62.0%	0.0%
	5	0-10%	N	Loam	6.0%	1.0%	78.0%	0.0%	15.0%	0.0%
Total Average Cover (T5)					8.8%	0.6%	27.8%	18.8%	44.0%	0.0%

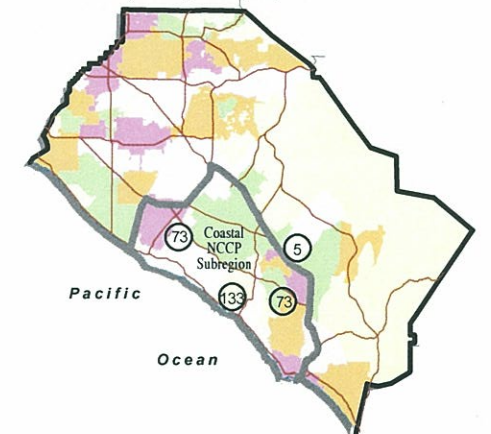
TOTAL AVERAGE COVER (T1-T5)					16.9%	0.9%	22.8%	15.0%	44.4%	0.0%
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Restoration & Enhancement Artichoke Thistle Eradication 2002

Coastal NCCP/HCP Subregion
Figure 1. North of the 73

County of Orange Vicinity Map



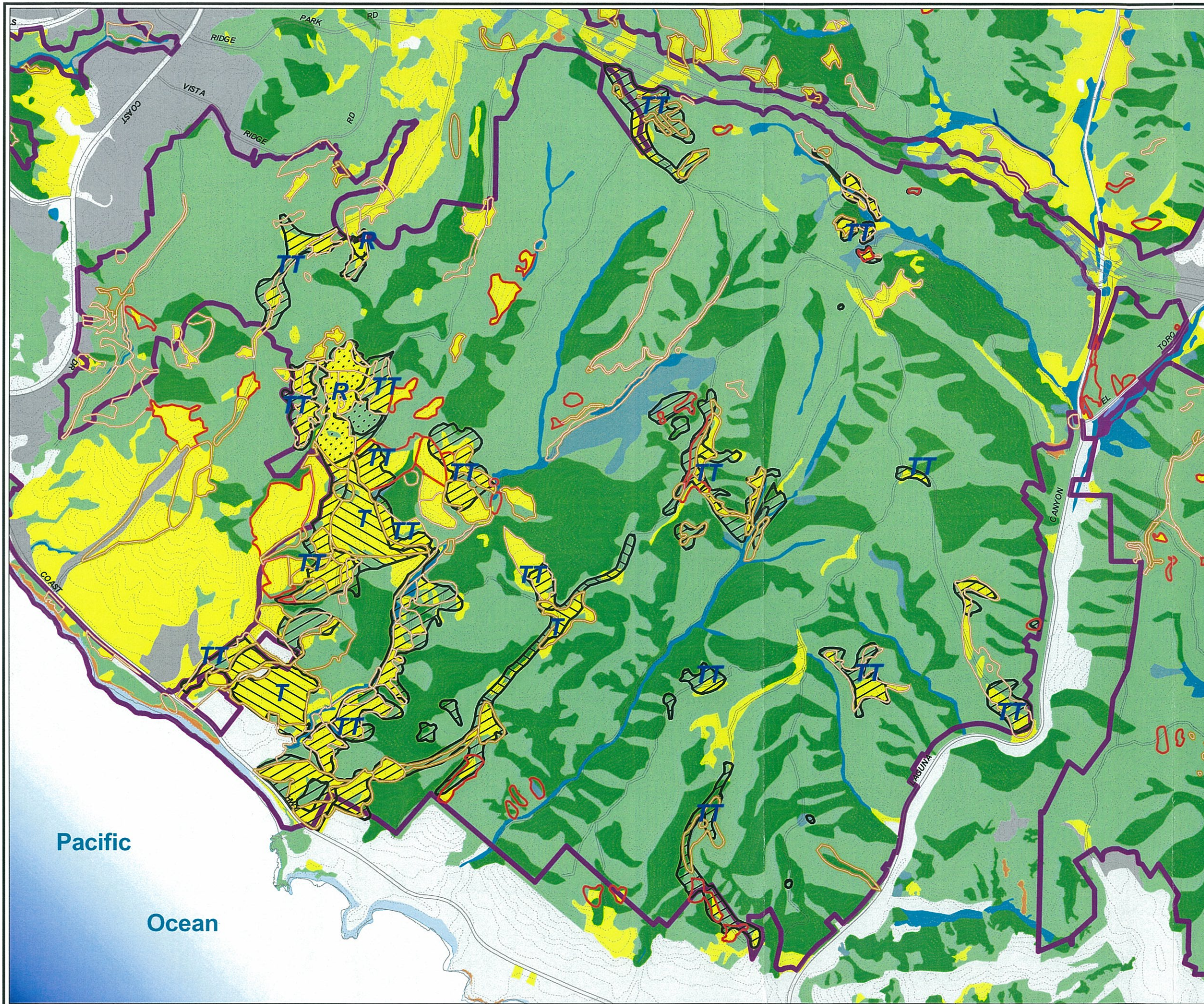
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|--|--|



3000 0 3000 Feet



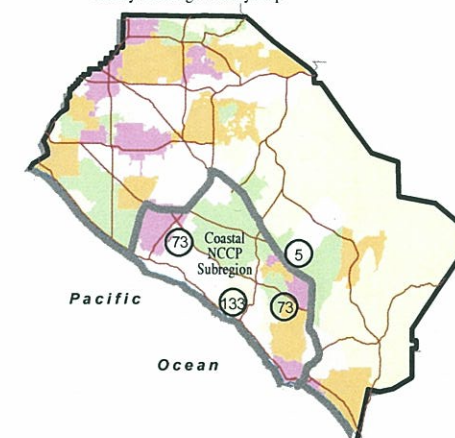
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Restoration & Enhancement Artichoke Thistle Eradication 2002

Coastal NCCP/HCP Subregion
Figure 2. South of the 73

County of Orange Vicinity Map



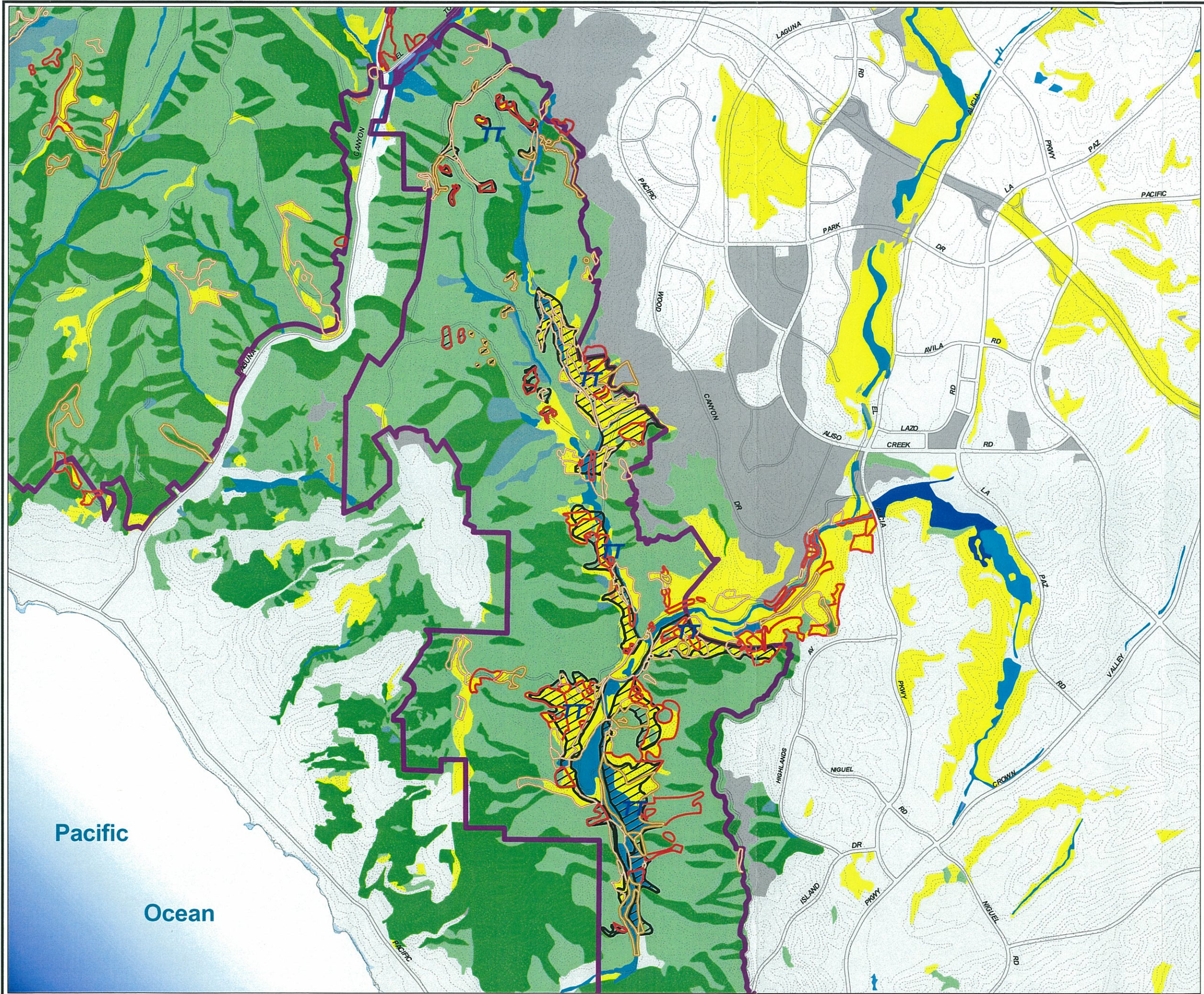
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| <ul style="list-style-type: none"> Artichoke Thistle Coverage 1 to 30% Artichoke Thistle Coverage 31 to 100% Trails NCCP Reserve NRCC Artichoke Eradication Zone (616 Acres) TIC Artichoke Eradication Zone (54 Acres) CCSP Artichoke Eradication Zone (122 Acres) R Roundup Pro (<4 Acres) T Transline (122 Acres) TT Transline Plus Telar (616 Acres) | Vegetation <ul style="list-style-type: none"> Dunes Scrub Chaparral Grassland Vernal Pools, Seeps, and Meadows Marsh Riparian Woodland Forest Cliff and Rock Marine and Coastal Lakes and Reservoirs Watercourses Agriculture Developed Disturbed |
|--|--|



1500 0 1500 3000 Feet

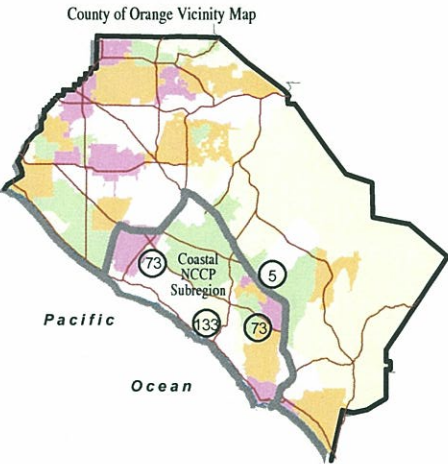


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Restoration & Enhancement Artichoke Thistle Eradication 2002

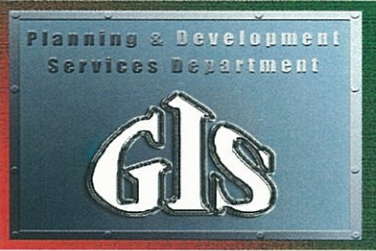
Coastal NCCP/HCP Subregion
Figure 3. Aliso & Wood Canyons



- | | |
|---|----------------------------------|
| Artichoke Thistle Coverage 1 to 30% | Dunes |
| Artichoke Thistle Coverage 31 to 100% | Scrub |
| Trails | Chaparral |
| NCCP Reserve | Grassland |
| NRCC Artichoke Eradication Zone (378 Acres) | Vernal Pools, Seeps, and Meadows |
| Transline Plus Telar (378 Acres) | Marsh |
-
- | | |
|----------------------|----------------------|
| Riparian | Marine and Coastal |
| Woodland | Lakes and Reservoirs |
| Forest | Watercourses |
| Cliff and Rock | Agriculture |
| Marine and Coastal | Developed |
| Lakes and Reservoirs | Disturbed |
| Watercourses | |



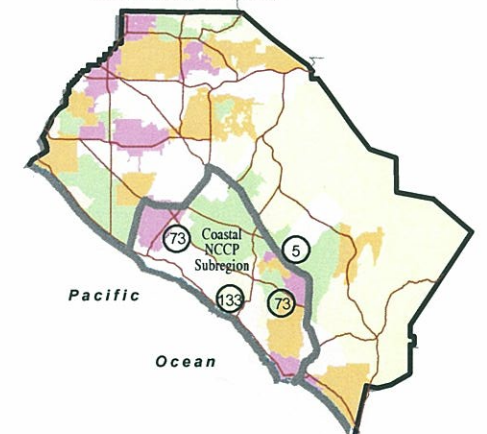
2000 0 2000 4000 Feet



Restoration & Enhancement Artichoke Thistle / Garland Chrysanthemum Eradication 2002

Coastal NCCP/HCP Subregion
Figure 4. Buck Gully

County of Orange Vicinity Map



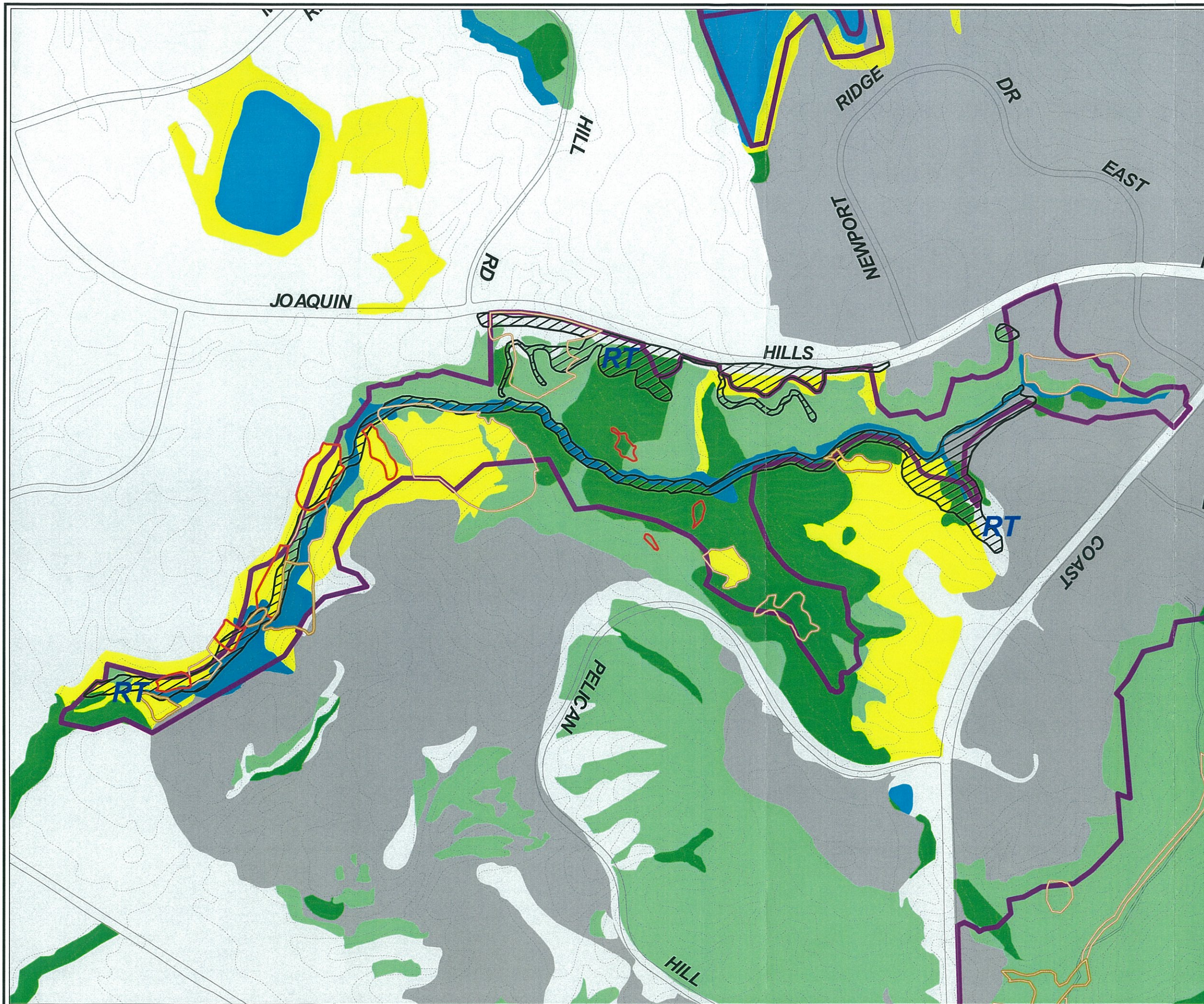
	Artichoke Thistle Coverage 1 to 30%		Dunes
	Artichoke Thistle Coverage 31 to 100%		Scrub
	Trails		Chaparral
	NCCP Reserve		Grassland
	NROC Artichoke & Garland Chrysanthemum Eradication Zone (59 Acres)		Vernal Pools, Seeps, and Meadows
	Roundup Pro Plus Teler (59 Acres)		Marsh
			Riparian
			Woodland
			Forest
			Cliff and Rock
			Marine and Coastal
			Lakes and Reservoirs
			Watercourses
			Agriculture
			Developed
			Disturbed



700 0 700 1400 Feet

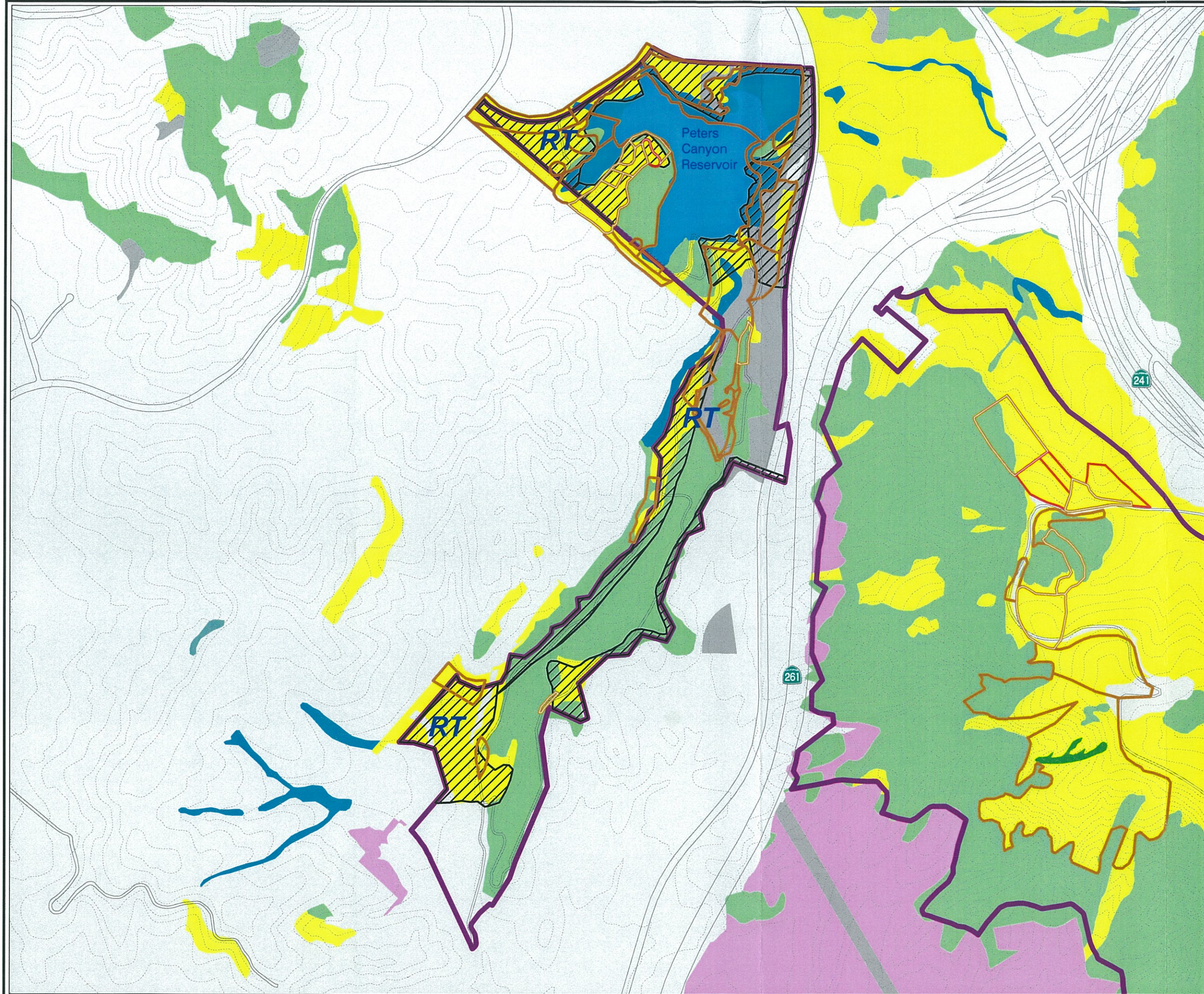
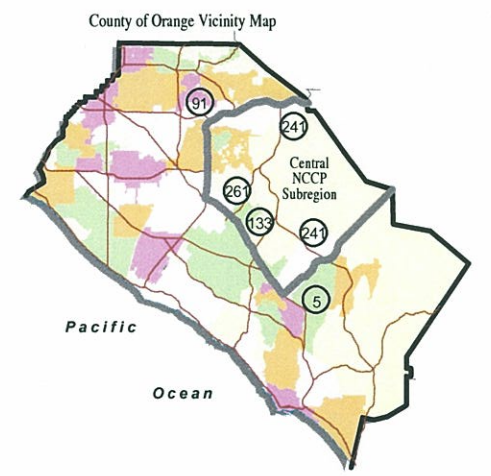


artichokethistleeradication2002maps.apr



Restoration & Enhancement Artichoke Thistle Eradication 2002

Central NCCP/HCP Subregion
Figure 5. Peters Canyon



- | | |
|--|--|
| <ul style="list-style-type: none"> Artichoke Thistle Coverage 1 to 30% Artichoke Thistle Coverage 31 to 100% Trails NCCP Reserve NROC Artichoke Eradication Zone (121 Acres) RT Roundup Pro Plus Telar (121 Acres) | Vegetation <ul style="list-style-type: none"> Dunes Scrub Chaparral Grassland Vernal Pools, Seeps, and Meadows Marsh Riparian Woodland Forest Cliff and Rock Marine and Coastal Lakes and Reservoirs Watercourses Agriculture Developed Disturbed |
|--|--|

