

TABLES

**Table 1. Special Status Species with Monitoring Requirements in the Fort Ord Multispecies
Habitat Management Plan for OE Removal, Groundwater, Lead, and Chemical
Remediation Activities
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Scientific Name	Common Name	Status (a)	CNPS RED Code	Habitat
Plants				
<i>Gilia tenuiflora arenaria</i>	sand gilia	FE/ST/1B	3-2-3	Sandy openings in coastal dunes, scrub and maritime chaparral
<i>Lasthenia conjugens</i>	Contra Costa goldfields	FE/--/1B	3-3-3	Mesic valley and foothill grasslands. Known from vernal pool habitat in three locations on Fort Ord
<i>Piperia yadonii</i>	Yadon's piperia	FE/--/1B	3-3-3	Sandy soil in maritime chaparral, coastal scrub, and closed-cone coniferous forest
<i>Chorizanthe p. pungens</i>	Monterey spineflower	FT/--/1B	2-2-3	Colonizes recently disturbed sandy sites in coastal dune, coastal scrub, grassland, and maritime chaparral habitats
<i>Cordylanthus rigidus littoralis</i>	seaside bird's-beak	FSC/SE/1B	2-3-3	Sandy soils of stabilized dunes, maritime chaparral, coastal scrub, and closed-cone coniferous forest
<i>Arctostaphylos montereyensis</i>	Toro manzanita	FSC/--/1B	3-2-3	Stabilized sandy soils and badlands in maritime chaparral
<i>Arctostaphylos pumila</i>	sandmat manzanita	FSC/--/1B	3-2-3	Sand hills of maritime chaparral and coast live oak woodland
<i>Ceanothus cuneatus rigidus</i>	Monterey ceanothus	FSC/--/4	1-2-3	Sandy hills and flats of maritime chaparral, closed-cone coniferous forests, and coastal scrub
<i>Ericameria fasciculata</i>	Eastwood's goldenbush	FSC/--/1B	3-3-3	Coastal dune and scrub, maritime chaparral, and closed-cone coniferous forest
<i>Erysimum ammophilum</i>	coast wallflower	FSC/--/1B	2-2-3	Coastal dunes
<i>Arctostaphylos h. hookeri</i>	Hooker's manzanita	--/--/1B	2-2-3	Sand Hill and Aromas Formations, maritime chaparral and closed-cone coniferous forest

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Scientific Name	Common Name	Status (a)	CNPS RED Code	Habitat
Reptile				
<i>Anniella pulchra nigra</i>	California black-legless lizard	--/--/CSC	NA	Moist, warm habitat with loose soil and prostrate plant cover located on beaches and chaparral with sandy soils
Amphibians				
<i>Rana aurora draytonii</i>	California red-legged frog	FT/--/CSC	NA	Lowlands, foothill woodland, grasslands near marshes, lakes, ponds or other permanent water sources with extensive emergent vegetation
<i>Ambystoma californiense</i>	California tiger salamander	FC/--/CSC	NA	Grassland and oak woodland with scattered ponds, intermittent streams or vernal pools, upland habitat with rodent burrows required in summer
Invertebrate				
<i>Linderiella occidentalis</i>	California linderiella	--/--/--	NA	Low lying areas. Temporary water sources, vernal pools, and ponds

Footnotes

(a) Status (Plants: Federal/State/CNPS; Wildlife: Federal/State/California Department of Fish and Game):

STATUS CODES

FEDERAL

FE Listed as endangered under the Federal Endangered Species Act (16 U.S.C. 1531 *et seq.*)
 FT Listed as threatened under the Federal Endangered Species Act (16 U.S.C. 1531 *et seq.*)
 FC Federal Candidate for listing by the Federal Government (Former Category 1 Candidate for listing).
 FSC U.S. Fish and Wildlife Service designated "Species of Concern" (Former Category 2 Candidate for listing)

STATE

SE Listed as endangered under the California Endangered Species Act (California Fish and Game Code Division 3, Chapter 1.5, Article 2)
 ST Listed as threatened under the California Endangered Species Act (California Fish and Game Code Chapter 1.5)
 CSC California Species of Special Concern

STATUS CODES (continued)

CNPS

List 1B Plants considered by CNPS as rare in California and elsewhere
 List 4 Plants CNPS considers to have limited distributions-a watch list

CNPS R-E-D Code

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R (Rarity)

- 1 Rare, but found in sufficient numbers and distributed widely enough that the potential for extinction is low at this time
- 2 Distributed in a limited number of occurrences, occasionally more if each occurrence is small
- 3 Distributed in one to several highly restricted occurrences, or present in such small numbers that is seldom reported

E (Endangerment)

- 2 Endangered in a portion of its range
- 3 Endangered throughout its range

D (Distribution)

- 3 Endemic to California

**Table 2. Habitat Monitoring Sites 1994 - 2002
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Chaparral Monitoring Site #	Wetland Monitoring Site/Waterbody #	1994 Monitoring Activity*	1995 Monitoring Activity	1996 Monitoring Activity	1997 Monitoring Activity	1998 Monitoring Activity	1999 Monitoring Activity	
OE 9	Contra Costa goldfields (OE 10B)							
OE10A		BL: Chap, Herb		FU1: Chap	BL: HMPA	FU1: HMPA, Herb; FU2: Chap	FU2: Herb; FU3: Chap	
OE10B		BL: HMPA	FU1:HMPA	BL: Chap, Herb; FU2: HMPA		FU1: Chap, Herb; FU3: HMPA	FU2: Chap FU4: HMPA	
OE11		BL: HMPA		BL: Chap, Herb; FU2: HMPA		FU1: Chap, Herb	FU2: Chap, Herb	
OE12		BL: HMPA	FU1:HMPA	FU2: HMPA		Discontinued		
OE16				BL: Chap, Herb		BL: HMPA		
OE19		BL: HMPA, Chap, Herb				FU1: HMPA, Chap	FU2: Chap	
OE48						BL: HMPA, FU1Chap	BL: Herb; FU1: HMPA, Chap	
OE 53						BL: Chap	BL: Herb; FU1: Chap	
OE 54						BL: Chap		
Blackline		BL: HMPA, Chap, Herb						
MRA West						BL: Chap		
MRA North							BL: Chap	
Range 43-48							Baseline	Baseline 2***
Lead and Chemical Remediation - Range 18								
Lead and Chemical Remediation - Range19								
Lead and Chemical Remediation - Range 21								
Lead and Chemical Remediation - Range 24								
Lead and Chemical Remediation - Range 25								
Lead and Chemical Remediation - Range 26								
UC/NRS-FONR								BL: HMPA
OE Site 10A							Baseline	
Waterbody 42							Baseline	
Waterbody 43							Baseline	
Waterbody 44**							Baseline	
OE Site 10B								
Machine Gun Flats					BL: Veg, RLF	BL: FS, CATS		
OE Site 14A								
Waterbody 1	Baseline	USFWS 1st Year	USFWS 2nd Year, veg				Final Follow-up	
Waterbody 2	Baseline	USFWS 1st Year	USFWS 2nd Year, veg				Final Follow-up	
OE Site 14B								
Waterbody 37	Baseline: Fauna	BL: Flora, USFWS 1st Year	USFWS 2nd Year, veg					
OE Site 14D								
Waterbody 4**	Baseline	USFWS 1st Year	FU1, USFWS 2nd Year					
OE Site 21								
Mudhen Lake East	Baseline	FU1, USFWS 1st Year	FU2, USFWS 2nd Year				Final Follow-up	
Mudhen Lake West	Baseline	FU1, USFWS 1st Year	FU2, USFWS 2nd Year				Final Follow-up	

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OE 9	Contra Costa goldfields (OE 10B)	BL: Chap, HMPA	FU1: HMPA	FU2: HMPA
OE10A		FU3: HMPA, FU4 Chap	FU4: HMPA, FU5: Chap	FU5: HMPA, FU6: Chap
OE10B		FU5: HMPA, FU3: Chap,	FU6: HMPA, FU4 Chap	FU7: HMPA, FU5 Chap
OE11		FU3: Chap, Herb	FU4: Chap, Herb FU2: HMPA	FU5: Chap, Herb FU3: HMPA
OE12				
OE16				
OE19		FU2: HMPA; FU2: Chap	FU3: HMPA; FU4: Chap	FU4: HMPA; FU5: Chap
OE48				
OE 53				
OE 54				
Blackline				
MRA West				
MRA North				
Range 43-48				
Lead and Chemical Remediation - Range 18				
Lead and Chemical Remediation - Range19				
Lead and Chemical Remediation - Range 21				
Lead and Chemical Remediation - Range 24				
Lead and Chemical Remediation - Range 25				
Lead and Chemical Remediation - Range 26				
UC/NRS-FONR				
	OE Site 10A			
	Waterbody 42	BL: TCBB, SWPT, FU1: Veg, RLF, FS, CATS	FU2: Veg, RLF, FS, CATS FU1: TCBB, SWPT	FU3: Veg, RLF, FS, CATS, FU2: TCBB, SWPT
	Waterbody 43			
	Waterbody 44**			
	OE Site 10B			
	Machine Gun Flats	BL: TCBB, SWPT, FU1: Veg, RLF, FS, CATS	FU2: Veg, RLF, FS, CATS FU1: TCBB, SWPT	FU3: Veg, RLF, FS, CATS, FU2: TCBB, SWPT
	OE Site 14A			
	Waterbody 1			
	Waterbody 2			
	OE Site 14B			
	Waterbody 37			
	OE Site 14D			
	Waterbody 4**			
	OE Site 21			
	Mudhen Lake East			
	Mudhen Lake West			

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Chaparral Monitoring Site #	Wetland Monitoring Site/Waterbody #	1994 Monitoring Activity*	1995 Monitoring Activity	1996 Monitoring Activity	1997 Monitoring Activity	1998 Monitoring Activity	1999 Monitoring Activity
	OE Site 27V Waterbody 36	Baseline: Fauna	BL: Flora, USFWS 1st Year	USFWS 2nd Year, veg			
	OE Site 58 Waterbody 3	Dry after 1st visit				Baseline	
	Waterbody 35	Baseline	USFWS 1st Year	USFWS 2nd Year, veg			
	Waterbody 39					Baseline	
	Waterbody 40					Baseline	
	Waterbody 41					Baseline	
	Waterbody 45					No BL: No Pool Observed	
	OE Site 59 Waterbody 5	Baseline	FU1, USFWS 1st Year	FU2, USFWS 2nd Year			
	Site HA123 Waterbody 53						
	MRA Waterbody 11	Baseline: Fauna	BL: Flora, USFWS 1st Year	USFWS 2nd Year, veg			
	Waterbody 16	Baseline	FU1, USFWS 1st Year	FU2, USFWS 2nd Year			
	Waterbody 17	Baseline	FU1, USFWS 1st Year	FU2, USFWS 2nd Year			Final Follow-up
	Waterbody 38					Baseline	
	Waterbody 46						Baseline
	Waterbody 47						Baseline
	Waterbody 48						Baseline
	Waterbody 49						Baseline
	Waterbody 50						Baseline
	Waterbody 51						Baseline
	Range 37				BL: Veg, RLF		
	Range 40A-Waterbody 52				Dry: No BL		

* Monitoring Activities

BL	Baseline Survey	HMPA	Species
CATS	California Tiger Salamander Surveys	OE	Ordnance and Explosives Site
Chap	Line-intercept Chaparral Monitoring	RI	Remedial Investigation Site
FS	Fairy Shrimp Surveys	RLF	California Red-legged Frog Surveys
FU(1)	Follow-up Monitoring (Year)	SWPT	Southwestern pond turtle
Herb	Surveys	TCBB	Tri-colored blackbird
		UC/NRS-FONR	Reserve System-Fort Ord North
		USFWS	Shrimp conducted by Jones and

** Waterbody located adjacent to the OE site
Costa goldfields at OE Site 10B

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Chaparral Monitoring Site #	Wetland Monitoring Site/Waterbody #	2000 Monitoring Activity	2001 Monitoring Activity	2002 Monitoring Activity
	OE Site 27V Waterbody 36			
	OE Site 58 Waterbody 3 Waterbody 35 Waterbody 39 Waterbody 40 Waterbody 41 Waterbody 45			
	OE Site 59 Waterbody 5			
	Site HA123 Waterbody 53		BL: Veg, RLF, FS, CATS, TCBB, SWPT	
	MRA Waterbody 11 Waterbody 16 Waterbody 17 Waterbody 38 Waterbody 46 Waterbody 47 Waterbody 48 Waterbody 49 Waterbody 50 Waterbody 51 Range 37			
	Range 40A-Waterbody 52	BL: Veg, RLF, FS, CATS, TCBB, SWPT		

* Monitoring Activities

- BL Baseline Survey
- CATS California Tiger Salamander Surveys
- Chap Line-intercept Chaparral Monitoring
- FS Fairy Shrimp Surveys
- FU(1) Follow-up Monitoring (Year)
- Herb Surveys

** Waterbody located adjacent to the OE site
Costa goldfields at OE Site 10B

**Table 3. OE-10A Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 1 44 ¹		Transect 2 49 ¹		Transect 3 44 ¹		Transect 5 43 ¹		Transect 6 43 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	7.1	16.3	0.6	1.2			0.9	2.1		
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita	0.4	0.9	0.2	0.4			7.0	16.4	0.7	1.6
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	4.2	9.6			3.1	7.1	0.2	0.5	0.8	1.9
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	2.7	6.2	12.1	24.6			6.7	15.7	6.1	14.1
BAPI	<i>Baccharis pilularis</i>	coyote brush	10.8	24.8	1.5	3.1	0.6	1.4				
CAED	<i>Carpobrotus edulis</i> *	hottentot fig									2.0	4.6
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus							5.2	12.2	2.1	4.9
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	0.2	0.5	0.4	0.8			3.0	7.0	27.9	64.6
CETH	<i>Ceanothus griseus</i>	Carmel ceanothus										
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	6.3	14.4	1.5	3.1			0.4	0.9		
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbrush			1.4	2.9						
GAEI	<i>Garrya elliptica</i>	coast silk-tassel	3.8	8.7	0.6	1.2						
HEAR	<i>Heteromeles arbutifolia</i>	toyon	0.8	1.8	0.5	1.0					0.3	0.7
HESC	<i>Helianthemum scoparium</i>	rush rose	2.4	5.5	11.2	22.8	1.2	2.7	7.9	18.5	16.5	38.2
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia			2.0	4.1					0.4	0.9
LECA	<i>Lepechinia calycina</i>	pitcher sage	0.4	0.9	2.2	4.5			1.2	2.8		
LOSC	<i>Lotus scoparius</i>	deerweed					1.7	3.9				
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	4.0	9.2	1.0	2.0	1.3	3.0				
PIMO	<i>Pickeringia montana</i>	chaparral pea			12.5	25.5						
QUAG	<i>Quercus a. agrifolia</i>	coast live oak			0.2	0.4						
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry			1.9	3.9						
SAME	<i>Salvia mellifera</i>	black sage			1.1	2.2						
TODI	<i>Toxicodendron diversilobum</i>	poison oak	1.8	4.1								
Total Species (shrubs and perennials) Cover			44.9	103.0	50.9	103.7	7.9	18.1	32.5	76.1	56.8	131.5
BG	Bare Ground		0.3	0.7	2.3	4.7	1.3	3.0	1.2	2.8	5.0	11.6
VG	Vegetated Ground		11.3	25.9	9.0	18.3	36.1	82.6	15.5	36.3		
Total: Cover, Bare Ground, Vegetated Ground			56.5	129.6	62.2	126.7	45.3	103.7	49.2	115.2	61.8	143.1

¹ Transect Length (meters)

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 3. OE-10A Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground
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Code	Scientific Name	Common name	Transect 7 42 ¹		Transect 8 42 ¹		Transect 9 43 ¹		Transect 10 42 ¹		Transect 11 44 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	2.1	5.0	3.8	9.0	3.0	6.9	0.6	1.4	2.7	6.2
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita	1.1	2.6	2.1	5.0	1.8	4.2	0.6	1.4		
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	1.4	3.3			1.6	3.7	1.6	3.8	3.7	8.4
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	4.0	9.5	11.4	26.9	2.1	4.8	3.7	8.7	8.0	18.2
BAPI	<i>Baccharis pilularis</i>	coyote brush	1.0	2.4	0.5	1.2			0.4	0.9		
CAED	<i>Carpobrotus edulis</i> *	hottentot fig	3.5	8.3								
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	3.1	7.3	0.5	1.2	2.3	5.3	1.6	3.8		
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	0.4	0.9	3.2	7.5			3.2	7.5	0.4	0.9
CETH	<i>Ceanothus griseus</i>	Carmel ceanothus					0.1	0.2				
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow					1.7				0.9	2.1
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbrush										
Gael	<i>Garrya elliptica</i>	coast silk-tassel			1.0	2.4						
HEAR	<i>Heteromeles arbutifolia</i>	toyon			2.3	5.4						
HESC	<i>Helianthemum scoparium</i>	rush rose	15.8	37.4	14.1	33.3	23.2	53.6	11.3	26.7	5.4	12.3
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia										
LECA	<i>Lepechinia calycina</i>	pitcher sage			3.9	9.2						
LOSC	<i>Lotus scoparius</i>	deerweed	0.4	0.9	1.8	4.2	0.4	0.9				
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower			2.4	5.7			0.2	0.5	0.3	0.7
PIMO	<i>Pickeringia montana</i>	chaparral pea									2.4	5.5
QUAG	<i>Quercus a. agrifolia</i>	coast live oak										
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry										
SAME	<i>Salvia mellifera</i>	black sage					0.6	1.4			0.2	0.5
TODI	<i>Toxicodendron diversilobum</i>	poison oak									1.2	2.7
Total Species (shrubs and perennials) Cover			32.8	77.7	47.0	110.8	36.8	81.1	23.2	54.7	25.2	57.4
BG	Bare Ground		0.5	1.2	2.9	6.8	1.6	3.7	9.9	23.3	4.5	10.3
VG	Vegetated Ground		17.3	41.0	6.5	15.3	11.2	25.9	13.2	31.1	18.9	43.1
Total: Cover, Bare Ground, Vegetated Ground			50.6	119.9	56.4	133.0	49.6	110.6	46.3	109.2	48.6	110.7

¹ Transect Length (meters)

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 3. OE-10A Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground
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Code	Scientific Name	Common name	Transect 12 43 ¹		Transect 13 46 ¹		Transect 16 43 ¹		Transect 17 43 ¹		Transect 18 44 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	0.6	1.4	14.9	32.6	2.6	6.0	2.7	6.3	4.5	10.3
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita						6.3	14.7	2.0	4.6	
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita			5.5	12.0	5.2	12.0	.	1.8	4.1	
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita			6.5	14.2	1.2	2.8	7.2	16.7	3.8	8.7
BAPI	<i>Baccharis pilularis</i>	coyote brush	1.3	3.0					2.2	5.1	2.7	6.2
CAED	<i>Carpobrotus edulis</i> *	hottentot fig	12.2	28.2								
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus						1.3	3.0	0.8	1.8	
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus						5.5	12.8	0.3	0.7	
CETH	<i>Ceanothus griseus</i>	Carmel ceanothus										
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	1.3	3.0	0.7	1.5	0.2	0.5	0.1	0.2		
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbrush										
GAEI	<i>Garrya elliptica</i>	coast silk-tassel			1.4	3.1			1.3	3.0		
HEAR	<i>Heteromeles arbutifolia</i>	toyon						0.7	1.6			
HESC	<i>Helianthemum scoparium</i>	rush rose	7.1	16.4	6.8	14.9	10.7	24.7	5.6	13.0	2.4	5.5
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia										
LECA	<i>Lepechinia calycina</i>	pitcher sage			0.4	0.9			4.0	9.3	0.7	1.6
LOSC	<i>Lotus scoparius</i>	deerweed	4.4	10.2	5.0	10.9			0.5	1.2	1.6	3.7
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	1.1	2.5	3.3	7.2			0.9	2.1		
PIMO	<i>Pickeringia montana</i>	chaparral pea	11.3	26.2								
QUAG	<i>Quercus a. agrifolia</i>	coast live oak										
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry										
SAME	<i>Salvia mellifera</i>	black sage	0.2	0.5	0.9	2.0			0.2	0.5		
TODI	<i>Toxicodendron diversilobum</i>	poison oak	0.9	2.1					0.6	1.4		
Total Species (shrubs and perennials) Cover			40.4	93.5	45.4	99.3	19.9	45.9	39.1	90.9	20.6	47.0
BG	Bare Ground		6.9	16.0	2.2	4.8			4.8	11.2		
VG	Vegetated Ground		5.3	12.3	9.7	21.2	25.0	57.6	10.0	23.3	27.5	62.8
Total: Cover, Bare Ground, Vegetated Ground			52.6	121.8	57.3	125.4	44.9	103.5	53.9	125.3	48.1	109.8

¹ Transect Length (meters)

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

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0.00

**Table 3. OE-10A Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 19 41 ¹		Combined Estimated (%) Cover
			Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	13.9	33.6	8.61
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita			3.19
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	2.2	5.3	4.49
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita		0.0	10.83
BAPI	<i>Baccharis pilularis</i>	coyote brush			3.01
CAED	<i>Carpobrotus edulis</i> *	hottentot fig			2.54
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus			2.42
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus			6.38
CETH	<i>Ceanothus griseus</i>	Carmel ceanothus			0.01
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	1.5	3.6	2.09
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbrush			0.20
GAEI	<i>Garrya elliptica</i>	coast silk-tassel			1.16
HEAR	<i>Heteromeles arbutifolia</i>	toyon			0.66
HESC	<i>Helianthemum scoparium</i>	rush rose	1.4	3.4	20.52
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia			0.34
LECA	<i>Lepechinia calycina</i>	pitcher sage			1.84
LOSC	<i>Lotus scoparius</i>	deerweed	0.2	0.5	2.30
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	0.6	1.4	2.17
PIMO	<i>Pickeringia montana</i>	chaparral pea			3.76
QUAG	<i>Quercus a. agrifolia</i>	coast live oak			0.03
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry			0.27
SAME	<i>Salvia mellifera</i>	black sage			0.46
TODI	<i>Toxicodendron diversilobum</i>	poison oak			0.65
Total Species (shrubs and perennials) Cover			19.8	47.8	77.93
BG	Bare Ground		4.0	9.7	6.80
VG	Vegetated Ground		18.0	43.5	33.64
Total: Cover, Bare Ground, Vegetated Ground			41.8	101.0	118.38

¹ Transect Length (meters)

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 4. OE-10A Percent Cover for Herbaceous Quadrat Sampling
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

CODE	Scientific Name	Common Name	Transect 16						Average Cover (%)	Transect 18						Average Cover (%)	Transect 19						Average Cover (%)	Combined Average Cover (%)					
			1 %	2 %	3 %	4 %	5 %	6 %		1 %	2 %	3 %	4 %	5 %	6 %		1 %	2 %	3 %	4 %	5 %	6 %							
ADFA	<i>Adenostoma fasciculata</i>	chamise			5	10		2.5																					
AICA	<i>Aira caryophyllea*</i>	silvery hair-grass		10			75	14.2	80	3	40	20	15																
ANAR	<i>Anagallis arvensis*</i>	scarlet pimpernel						0.0																					
ARHO	<i>Arctostaphylos hookeri**</i>	Hooker's manzanita						0.0	25																				
ARMO	<i>Arctostaphylos montereyensis**</i>	Toro manzanita						0.0																					
ARTO	<i>Arctostaphylos t. tormentosa</i>	shaggy-barked manzanita						0.0																					
AV	<i>Avenna</i> sp.	oat						0.0																					
BAPI	<i>Baccharis pilularis</i>	coyote brush						0.0	2																				
BRMI	<i>Briza minor*</i>	little quaking grass						0.0																					
BRDI	<i>Bromus diandrus*</i>	ripgut grass						0.0						50															
CAAL	<i>Calochostus albus</i>	white glode lily						0.0																					
CA	<i>Carex</i> sp.	sedge						0.0																					
CABR	<i>Carex brevicaulis</i>	short-stemmed sedge						0.0	7																				
CAAT	<i>Castilleja attenuata</i>	narrow-leaved owl's clover						0.0																					
CECR	<i>Ceanothus cuneatus var. rigidus**</i>	Monterey ceanothus						0.0																					
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus						0.0																					
CH	<i>Chorizanthe</i> sp.	spineflower						0.0																					
CHDI	<i>Chorizanthe diffusa</i>	difuse spineflower						0.0													1	1	5				15		
CRCO	<i>Crassula connata</i>	pygmy-weed			2	5		1.2																					
CR	<i>Cryptantha</i> sp.	cryptantha sp.						0.0																					
ERGL	<i>Erechtites glomerata*</i>	cut-leaved fireweed				10	15	7	7	6.5																			
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow						0.0																					
ER	<i>Erodium</i> sp.	filaree						0.0																					
FI	<i>Filago</i> sp.	filago			5	2		1.5																					
FICA	<i>Filago californica</i>	California filago						0.0	3		5																		
GA	<i>Gallium</i> sp.	bedstraw						0.0																					
GAEL	<i>Garrya elliptica</i>	coast silk-tassle						0.0																					
GN	<i>Gnaphalium</i> sp.	cudweed						0.3	1		2																		
GNCA	<i>Gnaphalium californicum</i>	California cudweed				3	2	20	1	4.3																			
GNLA	<i>Gnaphalium lueto-album*</i>	weedy cudweed						0.8																					
GNPU	<i>Gnaphalium purpureum</i>	purple cudweed						9.3																					
HESC	<i>Helianthemum scoparium</i>	rush rose				75	10	10	25	20.0																			
HEAR	<i>Heteromeles arbutifolia</i>	toyon						0.0																					
HYGL	<i>Hypochaeris glabra*</i>	smooth cat's-ear				5		0.8	50		10		70		7		80		50										
LECA	<i>Lepechinia calycina</i>	pitcher sage						0.0																					
LO	<i>Lotus</i> sp.	lotus						0.0																					
LOSC	<i>Lotus scoparius</i>	deerweed					2	0.3																					
LOST	<i>Lotus strigosus</i>	Bishop's lotus						0.0																					
MAEX	<i>Madia exigua</i>	small tarweed						0.0																					
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower						0.0						25															
NAHA	<i>Navarretia hamata</i>	hooked navarretia						0.7																					
PIMO	<i>Pickeringia montana</i>	chaparral pea				4		0.0																					
PLER	<i>Plantago cororopus</i>	cut-leaved plantain						0.0																					
PO	<i>Poaceae</i> sp.	grass				5		10.8																					
SO	<i>Sonchus</i> sp.	sow-thistle						0.0																					
SOAS	<i>Sonchus asper*</i>	prickley sow-thistle						0.0																					
SYAL	<i>Symphoricarpos albus</i>	common snowberry						0.0																					
TODI	<i>Toxicodendron diversilobum</i>	posion oak						0.0																					
TR	<i>Trifolium</i> sp.	clover						0.0																					
TRWI	<i>Trifolium willdenovii</i>	tomcat clover						0.0																					
UKHE	Unknown herb	unknown herb				1		0.2	3																				
UKLI	Unknown lichen	unknown lichen						0.0																					
UKMO	Unknown moss sp	unknown moss				75	85	15	60	39.2																			
VU	<i>Vulpia</i> sp.	fescue				20	50	2	5	17.8																			
VUBR	<i>Vulpia bromoides*</i>	six-week fescue						0.0																					
VUMY	<i>Vulpia myuros*</i>	rat-tail fescue						0.0																					
VUOC	<i>Vulpia octiflora</i>	slender fescue						4.2																					
Total Vegetative Cover			185	168	56	25	209	165	134.7	266	92	243	185	105	98	164.8	123	128	50	37	179	100	103	123.2					

*Non-native species
**HMP species
Overall species cover may exceed 100% due to differences in relative versus absolute cover t

**Table 5. OE-10B Intercept Distances and Percent Cover for Shrub Species,
Bare and Vegetated Ground-Burned Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 1 50 ¹		Transect 6 35 ¹		Transect 7 50 ¹		Transect 8 51 ¹		Transect 9 53 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	0.8	1.6	1.5	4.3	2.9	5.8	6.8	13.3	4.7	8.9
ARHO	<i>Arctostaphylos hookerij</i> **	Hooker's manzanita					0.1	0.2				
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita					0.3	0.6				
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	19.6	39.2	3.1	9.0	5.3	10.6	10.6	20.7	0.7	1.3
BAPI	<i>Baccharis pilularis</i>	coyote brush	0.3	0.6			2.5	5.0	2.3	4.5		
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	4.7	9.4	3.2	9.3	9.2	18.4	5.7	11.1	5.8	10.9
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	4.9	9.8			5.8	11.6				
CEGR	<i>Ceanothus griseus</i>	Carmel ceanothus		0.0								
ERER	<i>Ericameria ericoides</i>	mock heather			0.2	0.6						
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbush										
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	0.8	1.6			0.3	0.6			4.5	8.5
GAEL	<i>Garrya elliptica</i>	coast silk-tassel							4.5	8.8		
HESC	<i>Helianthemum scoparium</i>	rush rose	19.2	38.4	19.8	57.4	11.0	22.0	9.1	17.8	7.6	14.3
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia	0.3	0.6								
LECA	<i>Lepechinia calycina</i>	pitcher sage	0.9	1.8			2.6	5.2	0.4	0.8		
LOSC	<i>Lotus scoparius</i>	deerweed	1.8	3.6	17.1	49.6		0.0	1.5	2.9	1.7	3.2
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	1.5	3.0	0.5	1.4	9.4	18.8				
QUAG	<i>Quercus a. agrifolia</i>	coast live oak	1.5	3.0								
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry	0.5	1.0	1.2	3.5					2.0	3.8
RIMA	<i>Ribes malvaceum</i>	chaparral current					0.4	0.8				
RISP	<i>Ribes speciosum</i>	fuchsia-flowered gooseberry					0.6	1.2				
SAME	<i>Salvia mellifera</i>	black sage	1.5	3.0	10.7	31.0			0.2	0.4	14.9	28.1
SOUM	<i>Solanum umbelliferum</i>	blue witch			0.2	0.6					0.1	0.2
TODI	<i>Toxicodendron diversilobum</i>	poison oak			1.1	3.2	1.4	2.8				
Total Species (shrubs and perennials) Cover			58.3	116.7	58.6	169.9	51.8	103.6	41.1	80.3	42.0	79.2
BG	Bare Ground		7.5	15.0	0.2	0.6	0.6	1.2	7.3	14.3	0.3	0.6
VG	Vegetated Ground		2.6	5.2	3.2	9.3	15.2	30.4	9.5	18.6	19.9	37.5
Total: Bare Ground, Vegetated Ground			68.4	136.9	62.0	179.7	67.6	135.2	57.9	113.1	62.2	117.4

¹ Transect Length (meters)

** HMP species

Overall species cover may exceed 100% due to differences in relative vs. absolute cover between vegetation strata

**Table 5. OE-10B Intercept Distances and Percent Cover for Shrub Species,
Bare and Vegetated Ground-Burned Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 10-2 50 ¹		Transect 11 52 ¹		Transect 13 35 ¹		Transect 14 51 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	0.3	0.6	1.2	2.3	1.4	4.0	2.6	5.1
ARHO	<i>Arctostaphylos hookerii</i> **	Hooker's manzanita								
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita					0.1	0.3	0.2	0.4
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	13.7	27.5	17.8	34.5	5.1	14.7	10.5	20.5
BAPI	<i>Baccharis pilularis</i>	coyote brush			1.1	2.1	2.4	6.9		
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	3.7	7.4	6.6	12.8	3.1	8.9	6.3	12.3
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	28.3	56.8	27.6	53.5	6.4	18.4	18.5	36.1
CEGR	<i>Ceanothus griseus</i>	Carmel ceanothus	0.2	0.4			4.0	11.5		
ERER	<i>Ericameria ericoides</i>	mock heather								
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbush							0.3	0.6
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow					0.4	1.2		
Gael	<i>Garrya elliptica</i>	coast silk-tassel			1.3	2.5			1.1	2.1
HESC	<i>Helianthemum scoparium</i>	rush rose	15.6	31.3	17.6	34.1	18.0	51.9	20.7	40.4
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia			0.3	0.6			0.2	0.4
LECA	<i>Lepechinia calycina</i>	pitcher sage	0.2	0.4			0.6	1.7		
LOSC	<i>Lotus scoparius</i>	deerweed					0.2	0.6		
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	0.3	0.6			0.1	0.3		
QUAG	<i>Quercus a. agrifolia</i>	coast live oak								
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry								
RIMA	<i>Ribes malvaceum</i>	chaparral current								
RISP	<i>Ribes speciosum</i>	fuchsia-flowered gooseberry								
SAME	<i>Salvia mellifera</i>	black sage					0.3	0.9		
SOUm	<i>Solanum umbelliferum</i>	blue witch								
TODI	<i>Toxicodendron diversilobum</i>	poison oak							0.2	0.4
Total Species (shrubs and perennials) Cover			62.3	125.1	73.5	142.4	42.1	121.3	60.6	118.1
BG	Bare Ground		4.9	9.8	4.4	8.5	3.7	10.7	6.1	11.9
VG	Vegetated Ground		2.9	5.8	3.3	6.4	2.1	6.1	2.7	5.3
Total: Bare Ground, Vegetated Ground			70.1	140.8	81.2	157.4	47.9	138.0	69.4	135.3

¹ Transect Length (meters)

** HMP species

Overall species cover may exceed 100% due to differences in relative vs. absolute cover between vegetation strata

**Table 5. OE-10B Intercept Distances and Percent Cover for Shrub Species,
Bare and Vegetated Ground-Burned Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 15 47 ¹		Combined Estimate (%) Cover
			Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	0.6	1.3	4.82
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita	1.5	3.2	0.34
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	0.5	1.1	0.23
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	0.7	1.5	18.40
BAPI	<i>Baccharis pilularis</i>	coyote brush	2.8	5.9	2.41
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	1.2	2.5	10.46
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	1.2	2.5	19.58
CEGR	<i>Ceanothus griseus</i>	Carmel ceanothus			0.89
ERER	<i>Ericameria ericoides</i>	mock heather			0.04
ERFA	<i>Ericameria fasciculata</i> **	Eastwood's goldenbush			0.06
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	0.8	1.7	1.44
GAEL	<i>Garrya elliptica</i>	coast silk-tassel			1.46
HESC	<i>Helianthemum scoparium</i>	rush rose	5.8	12.3	30.50
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia	0.3	0.6	0.23
LECA	<i>Lepechinia calycina</i>	pitcher sage			0.99
LOSC	<i>Lotus scoparius</i>	deerweed			4.71
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower			2.49
QUAG	<i>Quercus a. agrifolia</i>	coast live oak			0.32
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry			0.78
RIMA	<i>Ribes malvaceum</i>	chaparral current			0.08
RISP	<i>Ribes speciosum</i>	fuchsia-flowered gooseberry			0.13
SAME	<i>Salvia mellifera</i>	black sage			5.83
SOUM	<i>Solanum umbelliferum</i>	blue witch			0.06
TODI	<i>Toxicodendron diversilobum</i>	poison oak			0.57
Total Species (shrubs and perennials) Cover			15.4	32.6	106.83
BG	Bare Ground				7.39
VG	Vegetated Ground		34.7	73.4	20.30
Total: Bare Ground, Vegetated Ground			50.1	105.9	134.52

¹ Transect Length (meters)

** HMP species

Overall species cover may exceed 100% due to differences in relative vs. absolute cover between vegetation strata

**Table 6. OE-10B Percent Cover for Herbaceous Quadrat Sampling-Burned Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

CODE	Scientific Name	Common Name	Transect 7							Average Cover (%)	Transect 9							Average Cover (%)	Transect 15						Average Cover (%)	Combined Average Cover (%)	
			1 %	2 %	3 %	4 %	5 %	6 %	6 %		1 %	2 %	3 %	4 %	5 %	6 %	7 %		7 %	1 %	2 %	3 %	4 %	5 %			6 %
ADFA	<i>Adenostoma fasciculata</i>	chamise							0.0								7.9								0.0	2.62	
AICA	<i>Aira caryophylla</i> *	silvery hair-grass	5	15		25	10	5	10.0	25	5			25	5	25	12.9				15	10	15	5	15	10.0	10.95
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel	40	15		1		10	11.0							0.0	10	20	10			5	30	12.5	7.83		
ARHO	<i>Arctostaphylos hookeri</i> **	Hooker's manzanita				20			3.3							0.0		20						3.3	2.22		
AV	<i>Avena</i> sp.	oat	10						1.7							0.0								0.0	0.56		
BAPI	<i>Baccharis pilularis</i>	coyote brush	70	10					13.3							0.0	5		15					3.3	5.56		
BRHO	<i>Bromus hordeaceus</i> *	soft chess	65						10.8							0.0								0.0	3.61		
BRMI	<i>Briza minor</i> *	little quaking grass	15						2.5							0.0			4				2	1.0	1.17		
CAOV	<i>Camissonia ovata</i>	suncups							0.0							0.0			15					2.5	0.83		
CA	<i>Carex</i> sp.	sedge						5	0.8				5		10	2.1			5			15	5	4.2	2.38		
CECR	<i>Ceanothus cuneatus</i> var. <i>rigidus</i> **	Monterey ceanothus			70	75	70		35.8	15	10		20			6.4								0.0	14.09		
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus						50	75	20.8						0.0								0.0	6.94		
CEDA	<i>Centaurium davyi</i>	Davy's centuary							0.0							0.0				7				1.2	0.39		
CHDI	<i>Chorizanthe difusa</i>	diffuse spineflower							0.0	25	3			12		5.7								0.0	1.90		
CHPO	<i>Chlorogalum pomeridianum</i>	soap plant							0.0							0.0							5	0.8	0.28		
COJU	<i>Cortaderia jubata</i> *	pampas grass				5			0.8							0.0								0.0	0.28		
CRCO	<i>Crassula connata</i>	pygmy-weed							0.0		5			2		1.0				40				6.7	2.56		
CR	<i>Cryptantha</i> sp.	cryptantha sp.							0.0					3		0.4								0.0	0.14		
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed	10		10			20	6.7							0.0								0.0	2.22		
ERER	<i>Ericamerica ericoides</i>	mock heather							0.0							5.7							40	0.0	1.90		
ERNU	<i>Eriogonum nudum</i>	naked buckwheat							0.0						10	15	3.6							0.0	1.19		
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow					5		0.8		10	10				2.9								0.0	1.23		
ERCI	<i>Erodium cicutarium</i>	red-stemmed filaree							0.0							0.0						2	2	0.7	0.22		
FI	<i>Filago</i> sp.	filago					5		0.8							0.0		2	2					0.7	0.50		
FICA	<i>Filago californica</i>	California filago						5	0.8		2			2		0.6	2		2		15			2.8	1.41		
GA	<i>Gallium</i> sp.	bedstraw							0.0				85			12.1								0.0	4.05		
GN	<i>Gnaphalium</i> sp.	cudweed							0.0							0.0				10				1.7	0.56		
GNCA	<i>Gnaphalium californicum</i>	California cudweed							0.0					3		0.4								0.0	0.14		
GNPU	<i>Gnaphalium purpureum</i>	purple cudweed	1						0.2					1		0.1				1	15		1	2.8	1.05		
HESC	<i>Helianthemum scoparium</i>	rush rose				45	60	30	22.5	10		95	10			16.4	80	25	15					20.0	19.64		
HE	<i>Hemizonia</i> sp.	tarweed	5						0.8							0.0								0.0	0.28		
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia							0.0							0.0	25	15	25					10.8	3.61		
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's-ear							0.0	7	10					2.4	10	50	10	10	30	30	23.3	8.59			
LO	<i>Lotus</i> sp.	lotus							0.0						3	0.4								0.0	0.14		
LOSC	<i>Lotus scoparius</i>	deerweed							0.0			5			23	4.0								0.0	1.33		
LOST	<i>Lotus strigosus</i>	Bishop's lotus			20				3.3							0.0			1					0.2	1.17		
MAEX	<i>Madia exigua</i>	small tarweed							0.0							0.0	1	2		1	10	60	25	16.3	5.44		
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower		50					8.3							0.0				10				1.7	3.33		
NAPU	<i>Nassella pulchra</i>	purple needlegrass							0.0							0.0					70			11.7	3.89		
NAHA	<i>Navarretia hamata</i>	hooked navarretia						10	1.7	1	25			4	7	3	5.7							0.0	2.46		
PLER	<i>Plantago erecta</i>	California plantain							0.0							0.0		60			2	20	13.7	4.56			
PO	<i>Poaceae</i> sp.	grass							0.0						5	0.7							5	0.8	0.52		
PTAQ	<i>Pteridium aquilinum</i>	western bracken							0.0						90	12.9								0.0	4.29		
RHCA	<i>Rhamnus californica</i>	California coffeeberry							0.0				60			8.6								0.0	2.86		
SAME	<i>Salvia mellifera</i>	black sage							0.0			30	5		30	9.3								0.0	3.10		
SOUM	<i>Solanum umbelliferum</i>	blue witch							0.0					5		0.7								0.0	0.24		
TODI	<i>Toxicodendron diversilobum</i>	posion oak		50					8.3							0.0								0.0	2.78		
TR	<i>Trifolium</i> sp.	clover			1	3			0.7							0.0								0.0	0.22		
UK	Unknown herb	unknown herb							0.0		1			4		0.7								0.0	0.24		
UKMO	Unknown moss sp	unknown moss			70	40	50		26.7		5			20		3.6	25			50			30	17.5	15.91		
VU	<i>Vulpia</i> sp.	fescue	10						1.7		20			70		12.9	25	20	5	7	15	60	22.0	12.17			
Total Vegetative Cover			231	140	171	214	275	135	194.3	83	96	140	185	126	80	216	132.3	183	229	118	189	204	230	192.2	172.9		

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 7. OE-10B Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground-Clipped Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 2 23 ¹		Transect 12 52 ¹		Combined Estimated (%) Cover
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	2.4	10.5			3.19
ARHO	<i>Arctostaphylos h. hookeri</i> **	Hooker's manzanita			0.9	1.7	1.20
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	6.5	28.5	20.1	38.4	35.38
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	13.2	57.9	22.7	43.3	47.75
GAEL	<i>Garrya elliptica</i>	coast silk-tassel	1.3	5.7			1.73
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia			0.4	0.8	0.53
QUAG	<i>Quercus a. agrifolia</i>	coast live oak	0.2	0.9			0.27
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry	0.6	2.6	1.1	2.1	2.26
SAME	<i>Salvia mellifera</i>	black sage			0.4	0.8	0.53
Total Species (shrubs and perennials) Cover			24.2	106.2	45.6	87.0	92.84
BG	Bare Ground		5.4	23.7	8.3	15.8	18.22
VG	Vegetated Ground		0.8	3.5	2.7	5.2	4.66
Total: Bare Ground, Vegetated Ground			30.4	133.5	56.6	108.0	115.72

¹ Transect Length (meters)

*Non-native species

** indicates HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 8. OE-11 Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 1 162 ¹		Transect 2 164 ¹		Transect 3 163 ¹		Transect 5 162 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	47.1	29.1	35.7	21.8	13.0	8.0	54.6	33.7
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	0.9	0.6	20.4	12.5	5.0	3.1		
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	20.9	12.9	9.2	5.6	31.7	19.4		
BAPI	<i>Baccharis pilularis</i>	coyote brush	0.3	0.2	8.1	5.0	1.2	0.7	5.1	3.1
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	1.3	0.8	0.8	0.5	6.5	4.0		
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	2.5	1.5			0.1	0.1		
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed					4.9	3.0		
GNLA	<i>Gnaphalium luteo-album</i> *	weedy cudweed			0.4	0.2			6.6	4.1
HESC	<i>Helianthemum scoparium</i>	rush rose			0.3	0.2	1.0	0.6	4.3	2.7
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia								
LECA	<i>Lepechinia calycina</i>	pitcher sage					1.5	0.9	2.0	1.2
LOSC	<i>Lotus scoparius</i>	deerweed								
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	50.3	31.0	29.5	18.0	24.5	15.0	13.0	8.0
QUAG	<i>Quercus a. agrifolia</i>	coast live oak								
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry	0.5	0.3						
SAME	<i>Salvia mellifera</i>	black sage	7.3	4.5			14.8	9.1	5.1	
TODI	<i>Toxicodendron diversilobum</i>	poison oak	0.1	0.1						0.0
Total Species (shrubs and perennials) Cover			131.2	80.9	104.4	63.9	104.2	63.8	90.7	52.8
BG	Bare Ground				23.1	14.1	46.3	28.4	1.5	0.9
VG	Vegetated Ground		8.5	5.2	29.9	18.3	15.3	9.4	48.0	29.6
DV	Dead Vegetation		44.1	27.2	3.4	2.1	12.9	7.9	37.5	23.1
BRUSH	Brush Pile		2.9	1.8	36.4	22.3	9.9	6.1	7.8	4.8
Total Cover: Species, Bare Ground, Vegetated Ground, Litter, Brush			186.7	115.2	197.2	120.6	188.6	115.6	185.5	111.2

¹ Transect Length (feet)

*Non-native species

** HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 8. OE-11 Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 8 163 ¹		Combined Estimate
			Intercept Distance	(%) Cover	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	25.2	15.4	21.56
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita	23.6	14.4	6.13
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	25.6	15.7	10.73
BAPI	<i>Baccharis pilularis</i>	coyote brush	1.2	0.7	1.95
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus			1.06
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	2.1	1.3	0.58
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed			0.60
GNLA	<i>Gnaphalium luteo-album</i> *	weedy cudweed	0.7	0.4	0.95
HESC	<i>Helianthemum scoparium</i>	rush rose	10.7	6.5	2.00
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia	0.9	0.6	0.11
LECA	<i>Lepechinia calycina</i>	pitcher sage			0.43
LOSC	<i>Lotus scoparius</i>	deerweed	11.0	6.7	1.35
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower			14.40
QUAG	<i>Quercus a. agrifolia</i>	coast live oak	0.4	0.2	0.05
RHCA	<i>Rhamnus c. californica</i>	California coffeeberry			0.06
SAME	<i>Salvia mellifera</i>	black sage			3.34
TODI	<i>Toxicodendron diversilobum</i>	poison oak			0.01
Total Species (shrubs and perennials) Cover			101.4	62.1	65.31
BG	Bare Ground		34.5	21.1	12.94
VG	Vegetated Ground		56.0	34.3	19.36
DV	Dead Vegetation		1.8	1.1	12.24
BRUSH	Brush Pile				7.00
Total Cover: Species, Bare Ground, Vegetated Ground, Litter, Brush			193.7	118.5	116.86

¹ Transect Length (feet)

*Non-native species

** HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 9. OE-11 Percent Cover for Herbaceous Quadrat Sampling
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

CODE	Scientific Name	Common Name	Transect 3						Average Cover (%)	Transect 5						Average Cover (%)	Transect 8						Average Cover (%)	Combined Average Cover (%)	
			1 %	2 %	3 %	4 %	5 %	6 %		1 %	2 %	3 %	4 %	5 %	6 %		1 %	2 %	3 %	4 %	5 %	6 %			
ASTE	<i>Asteraceae</i> sp.	sunflower family	1					0.2											7				5	2.0	0.72
ADFA	<i>Adenostoma fasciculatum</i>	chamise							40	2	5	5	70	90	35.3		12	7						3.2	12.83
AICA	<i>Aira caryophylla</i> *	silvery hair-grass				2	4	1.0		70		7	40		19.5							2	0.3	6.94	
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel							5	5					1.7										0.56
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita		100	30		25	25.8																	8.61
DOHE	<i>Dodecatheon hendersonii</i>	Henderson's shooting star												10	1.7										0.56
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed	1			2	3	6.0														30			2.00
ERCO	<i>Eriophyllum confertiflorum</i>	golden-yarrow				3		0.5								60	10								4.06
GAPO	<i>Galium porrigens</i>	climbing bedstraw						0.8			20				3.3										1.39
GNLA	<i>Gnaphalium luteo-album</i> *	weedy cudweed				1	5	1.0										15							1.17
HESC	<i>Helianthemum scoparium</i>	rush rose												10	1.7							90			5.56
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's ear							7						1.2										0.39
LOSC	<i>Lotus scoparius</i>	deerweed														30	33								3.50
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower			80			13.3		30	10	4		10	9.0										7.44
MICR	<i>Microseris</i> sp.	Microseris sp.								5				30	5.8										1.94
NAPU	<i>Nassella pulchra</i>	purple needlegrass				70	10	13.3																	4.44
VUBR	<i>Vulpia bromoides</i> *	six-week fescue					5	0.8		2					0.3	10	23								2.22
UNKN	unknown herbaceous	unknown herbaceous					2	0.3	12						2.0							2	3	0.8	1.06
Total Vegetative Cover			2	100	110	78	54	35	63.2	64	114	35	16	150	110	81.5	100	85	22	0	92	10	51.5		65.39
BG		Bare Ground	8			22	31	10.2					30		5.0						35	8	40	13.8	9.67
LITTER		Vegetative Litter	90				15	80	30.8	45		65	54		27.3		15	100	25			50	31.7		29.94
DV		Dead Vegetation			20				3.3												40			6.7	3.33
Total: Vegetative, BG, BRUSH, LITTER, DV			100	100	130	100	100	115	107.5	109	114	100	100	150	110	113.8	100	100	122	100	100	100	103.7		108.33

*Non-native species

**Table 10. OE-19 Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground 2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 1 50 ¹		Transect 2 48 ¹		Transect 3 46 ¹		Transect 4 46 ¹	
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover
ADFA	<i>Adenostoma fasciculatum</i>	chamise	1.5	3.0	0.8	1.7	10.2	22.1	16.1	35.0
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita			0.3	0.6				
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	19.4	38.6	14.6	30.4	11.0	23.9	20.1	43.7
BAPI	<i>Baccharis pilularis</i>	coyote brush					0.8	1.7	3.8	8.3
CAED	<i>Carpobrotus edulis</i> *	hottentot fig					1.8	3.9		
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus							11.6	25.2
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	0.3	0.6					8.6	18.7
CEGR	<i>Ceanothus griseus</i>	Carmel ceanothus								
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow	0.6	1.2			1.4	3.0		
HEAR	<i>Heteromeles arbutifolia</i>	toyon	1.8	3.6						
HESC	<i>Helianthemum scoparium</i>	rush rose	30.8	61.4			7.4	16.1	3.3	7.2
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia	1.3	2.6						
LECA	<i>Lepechinia calycina</i>	pitcher sage					0.8	1.7	0.6	1.3
LOSC	<i>Lotus scoparius</i>	deerweed			0.4	0.8	2.3	5.0		
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower			11.7	24.4	4.0	8.7	0.2	0.4
QUAG	<i>Quercus a. agrifolia</i>	coast live oak			28.3	59.0	2.0	4.3		
RIMA	<i>Ribes malvaceum</i>	chaparral currant								
SAME	<i>Salvia mellifera</i>	black sage	1.4	2.8	2.9	6.0	5.7	12.4		
TODI	<i>Toxicodendron diversilobum</i>	poison oak			1.4	2.9				
Total Species (shrubs and perennials) Cover			57.1	113.7	60.4	125.8	47.4	102.8	64.3	139.8
BG	Bare Ground		8.7	17.3	4.6	9.6	0.2	0.4	5.7	12.4
VG	Vegetated Ground		1.0	2.0	3.1	6.5	11.7	25.4	0.7	1.5
Total: Bare Ground and Vegetated Ground			66.8	133.1	68.1	141.9	59.3	128.6	70.7	153.7

¹ Transect Length (meters)

*Non-native species

** HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 10. OE-19 Intercept Distances and Percent Cover for Shrub Species
Bare and Vegetated Ground 2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Code	Scientific Name	Common name	Transect 5 47 ¹		Transect 6 44 ¹		Transect 7 48 ¹		Transect 8 46 ¹		Combined Estimated (%) Cover
			Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	Intercept Distance	(%) Cover	
ADFA	<i>Adenostoma fasciculatum</i>	chamise	1.1	2.3	3.8	8.6	6.6	13.8	11.6	25.0	13.75
ARMO	<i>Arctostaphylos montereyensis</i> **	Toro manzanita				0.0					0.08
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	30.0	63.8	35.3	79.5	23.8	49.7	29.6	63.8	48.88
BAPI	<i>Baccharis pilularis</i>	coyote brush	0.3	0.6	4.1	9.2	0.1	0.2		0.0	2.42
CAED	<i>Carpobrotus edulis</i> *	hottentot fig									0.48
CECR	<i>Ceanothus cuneatus rigidus</i> **	Monterey ceanothus	6.3	13.4	3.7	8.3			2.5	5.4	6.41
CEDE	<i>Ceanothus dentatus</i>	dwarf ceanothus	8.9	18.9	4.7	10.6			8.4	18.1	8.22
CEGR	<i>Ceanothus griseus</i>	Carmel ceanothus			9.0	20.3			0.4	0.9	2.50
ERCO	<i>Eriophyllum confertiflorum</i>	golden yarrow									0.53
HEAR	<i>Heteromeles arbutifolia</i>	toyon									0.48
HESC	<i>Helianthemum scoparium</i>	rush rose	3.8	8.1	1.3	2.9	7.3	15.2	1.7	3.7	14.79
HOCU	<i>Horkelia c. cuneata</i>	wedge-leaved horkelia									0.35
LECA	<i>Lepechinia calycina</i>	pitcher sage					1.4	2.9			0.74
LOSC	<i>Lotus scoparius</i>	deerweed	0.3	0.6							0.80
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower	0.6	1.3	0.5	1.1	0.6	1.3			4.68
QUAG	<i>Quercus a. agrifolia</i>	coast live oak									8.06
RIMA	<i>Ribes malvaceum</i>	chaparral currant	0.1	0.2	0.6	1.4					0.19
SAME	<i>Salvia mellifera</i>	black sage	0.2	0.4	1.6	3.6	2.0	4.2			3.67
TODI	<i>Toxicodendron diversilobum</i>	poison oak									0.37
Total Species (shrubs and perennials) Cover			51.6	109.8	64.6	145.5	41.8	87.3	54.2	116.8	117.39
BG	Bare Ground		0.9	1.9	5.2	11.7	2.6	5.4	1.4	3.0	7.79
VG	Vegetated Ground		7.8	16.6	0.6	1.4	11.2	23.4	4.2	9.1	10.72
Total: Bare Ground and Vegetated Ground			60.3	128.3	70.4	158.6	55.6	116.1	59.8	128.9	135.90

¹ Transect Length (meters)

*Non-native species

** HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 11. OE-19 Percent Cover for Herbaceous Quadrat Sampling-Burned Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

CODE	Scientific Name	Common Name	Transect 3						Average Cover (%)
			1 %	2 %	3 %	4 %	5 %	6 %	
ADFA	<i>Adenostoma fasciculata</i>	chamise			70	5		97	28.7
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita	90	75				90	42.5
BAPI	<i>Baccharis pilularis</i>	coyote brush						2	0.3
CHDI	<i>Chorizanthe diffusa</i>	diffuse spine-flower							0.0
CRYP	<i>Cryptantha</i> sp.	cryptantha sp.		1					0.2
FICA	<i>Filago californica</i>	California filago			1				0.2
GA	<i>Galium</i> sp.	cudweed						10	1.7
GNPU	<i>Gnaphalium purpureum</i>	purple cudweed							0.0
HESC	<i>Helianthemum scoparium</i>	rush rose	25			10			5.8
HYGL	<i>Hypochaeris glabra*</i>	smooth cat's-ear		2		10			2.0
LOSC	<i>Lotus scoparius</i>	deerweed				10			1.7
LOST	<i>Lotus strigosus</i>	Bishop's lotus			2	2			0.7
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower						5	0.8
NAHA	<i>Navarretia hamata</i>	hooked navarretia				1			0.2
QUAG	<i>Quercus a. agrifolia</i>	coast live oak		25	5			15	7.5
SAME	<i>Salvia mellifera</i>	black sage	20			30			8.3
UKMO	Unknown moss sp	unknown moss			20		10	5	5.8
VU	<i>Vulpia</i> sp.	fescue							0.0
VUOC	<i>Vulpia octiflora</i>	slender fescue		5	15				3.3
Total Vegetative Cover			135	108	113	68	107	127	109.7
Total Cover			135	108	113	68	107	127	109.7

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 11. OE-19 Percent Cover for Herbaceous Quadrat Sampling-Burned Areas
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

CODE	Scientific Name	Common Name	Transect 7						Average Cover (%)	Combined Average Cover (%)
			1 %	2 %	3 %	4 %	5 %	6 %		
ADFA	<i>Adenostoma fasciculata</i>	chamise	90		6				16.0	22.33
ARTO	<i>Arctostaphylos t. tomentosa</i>	shaggy-barked manzanita				8	28	96	22.0	32.25
BAPI	<i>Baccharis pilularis</i>	coyote brush							0.0	0.17
CHDI	<i>Chorizanthe diffusa</i>	diffuse spine-flower			1				0.2	0.08
CRYP	<i>Cryptantha</i> sp.	cryptantha sp.							0.0	0.08
FICA	<i>Filago californica</i>	Californica filago		5	2				1.2	0.67
GA	<i>Galium</i> sp.	cudweed							0.0	0.83
GNPU	<i>Gnaphalium purpureum</i>	purple cudweed			3				0.5	0.25
HESC	<i>Helianthemum scoparium</i>	rush rose	25		15	95	40	40	35.8	20.83
HYGL	<i>Hypochaeris glabra*</i>	smooth cat's-ear				1			0.2	1.08
LOSC	<i>Lotus scoparius</i>	deerweed							0.0	0.83
LOST	<i>Lotus strigosus</i>	Bishop's lotus							0.0	0.33
MIAU	<i>Mimulus aurantiacus</i>	sticky monkey flower							0.0	0.42
NAHA	<i>Navarretia hamata</i>	hooked navarretia							0.0	0.08
QUAG	<i>Quercus a. agrifolia</i>	coast live oak							0.0	3.75
SAME	<i>Salvia mellifera</i>	black sage	20				23		7.2	7.75
UKMO	Unknown moss sp	unknown moss	50	25	10	2			14.5	10.17
VU	<i>Vulpia</i> sp.	fescue			3				0.5	0.25
VUOC	<i>Vulpia octiflora</i>	slender fescue							0.0	1.67
Total Vegetative Cover			185	30	40	106	91	136	98.0	103.83
Total Cover			185	30	40	106	91	136	98.0	103.83

*Non-native species

**HMP species

Overall species cover may exceed 100% due to differences in relative versus absolute cover between vegetation strata

**Table 12. Summary of Wetland Survey Dates
2002 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Waterbody	Survey Type	Survey Dates					
		Jan. 23	Jan 24	Feb. 25	Mar. 27	Apr.16	Apr.17
42	Follow-up	X		X	X		X
MGF	Follow-up		X	X	X	X	

MGF Machine Gun Flats

**Table 13. Summary of Wetland Monitoring Transects
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Site	Transect Number	Transect Length (ft)	Number of Quadrats	Total Area Sampled (m ²)
Waterbody 42	1	63	7	1.75
	2	72	8	2.00
Machine Gun Flats	1	98	9	2.25
	2	70	9	2.25
	3	64	6	1.50
	4	101	11	2.75
	5	99	10	2.25
	6	50	6	1.50
	7	50	6	1.50
	8	50	6	1.50
	9	41	5	1.25

Table 14. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Waterbody 42
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California

Code	Scientific Name	Quadrat Number: Common Name	Transect 1					Average Cover (%)
			1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	
AICA	<i>Aira caryophyllea*</i>	silvery hair-grass	35		15	20		14.0
ANAR	<i>Anagallis arvensis*</i>	scarlet pimpernel	2		5			1.4
AVBA	<i>Avena barbata*</i>	slender wild oat				10	2	2.4
BRMI	<i>Briza minor*</i>	small quaking grass						0.0
BRTE	<i>Brodiaea terrestis</i>	ground brodiaea					1	0.2
CACI	<i>Calandrinia ciliata</i>	redmaids		2	1	1	1	1.0
CIBR	<i>Cirsium brevistylum</i>	Indian thistle						0.0
DACA	<i>Danthonia californica</i>	California oatgrass			7	1	5	2.6
DEDA	<i>Deschampsia danthonioides</i>	annual hair-grass	5					1.0
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush				20		4.0
ERAR	<i>Eryngium armatum</i>	coast eryngo			5	10	8	4.6
GECA	<i>Geranium carolinianum</i>	Carolina geranium						0.0
GNPU	<i>Gnaphalium purpureum</i>	purple cutweed						0.0
HECO	<i>Hemizonia corymbosa</i>	coast tarweed	5	1	20	15	10	10.2
HYGL	<i>Hypochaeris glabra*</i>	smooth cats' ear	10	20		4	60	18.8
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush						0.0
MACA	<i>Malacothrix californica</i>	California dandelion		3		2	2	1.4
PLCO	<i>Plantago coronopus*</i>	cut-leaf plantain						0.0
PLER	<i>Plantago erecta</i>	dwarf plantain						0.0
PSGL	<i>Psilocarphus tenellus globiferus</i>	woody-heads		5				1.0
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass	35	50	20			21.0
SOOL	<i>Sonchus oleraceus*</i>	common sow-thistle						0.0
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle						0.0
VUMY	<i>Vulpia m. myuros*</i>	rat-tail fescue		5	5			2.0
Total Vegetative Cover			92	86	78	83	89	85.6
Bare Ground			5	30	20	20	15	18.0
Total Cover			97	116	98	103	104	103.6

*Non-native species

Table 14. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Waterbody 42
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California

Code	Scientific Name	Quadrat Number: Common Name	Transect 2								Average Cover (%)	Combined Average Cover (%)
			1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover	7 % Cover	8 % Cover		
AICA	<i>Aira caryophyllea*</i>	silvery hair-grass		65	5	20	20	5	55	5	21.9	17.94
ANAR	<i>Anagallis arvensis*</i>	scarlet pimpernel	1	5			1	5	5	3	2.5	1.95
AVBA	<i>Avena barbata*</i>	slender wild oat				5					0.6	1.51
BRMI	<i>Briza minor*</i>	small quaking grass	10	13	10	10	2	15			7.5	3.75
BRTE	<i>Brodiaea terrestis</i>	ground brodiaea									0.0	0.10
CACI	<i>Calandrinia ciliata</i>	redmaids									0.0	0.50
CIBR	<i>Cirsium brevistylum</i>	Indian thistle		2							0.3	0.13
DACA	<i>Danthonia californica</i>	California oatgrass						10	15		3.1	2.86
DEDA	<i>Deschampsia danthonioides</i>	annual hair-grass			5						0.6	0.81
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush									0.0	2.00
ERAR	<i>Eryngium armatum</i>	coast eryngo			20	35	30	4			11.1	7.86
GECA	<i>Geranium carolinianum</i>	Carolina geranium	5	2	10	7	10				4.3	2.13
GNPU	<i>Gnaphalium purpureum</i>	purple cutweed					2				0.3	0.13
HECO	<i>Hemizonia corymbosa</i>	coast tarweed	3			7		5	30	5	6.3	8.23
HYGL	<i>Hypochaeris glabra*</i>	smooth cats' ear	2	10	10			8		5	4.4	11.59
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush			5	5	15	10		25	7.5	3.75
MACA	<i>Malacothrix californica</i>	California dandelion			5		2				0.9	1.14
PLCO	<i>Plantago coronopus*</i>	cut-leaf plantain							5		0.6	0.31
PLER	<i>Plantago erecta</i>	dwarf plantain						3			0.4	0.19
PSGL	<i>Psilocarphus tenellus globiferus</i>	woody-heads									0.0	0.50
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass									0.0	10.50
SOOL	<i>Sonchus oleraceus*</i>	common sow-thistle						2			0.3	0.13
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle	2								0.3	0.13
VUMY	<i>Vulpia m. myuros*</i>	rat-tail fescue						5	10	55	8.8	5.38
Total Vegetative Cover			23	97	70	89	82	72	120	98	81.4	83.5
Bare Ground			75	5	30	20	20	35	0	10	24.4	21.2
Total Cover			98	102	100	109	102	107	120	108	105.8	104.7

*Non-native species

Table 15. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Machine Gun Flats
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California

Code	Scientific Name	Common Name	Transect 1										Average Cover %	Transect 2								Average Cover %	
			1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover	7 % Cover	8 % Cover	9 % Cover	1 % Cover		2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover	7 % Cover	8 % Cover			
AICA	<i>Aira caryophylla</i> *	silvery hair-grass										0.0	2			10						1.5	
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel										0.0										0.0	
AVBA	<i>Avena barbata</i> *	slender wild-oat								2		0.2										0.0	
BAPI	<i>Baccharis pilularis</i>	coyote brush									2	0.2									2	1.5	
BRMI	<i>Briza minor</i> *	small quaking grass		10								1.1	15	10								1.9	
BRTE	<i>Brodiaea terrestris</i>	dwarf brodiaea										0.0										0.0	
BRDI	<i>Bromus diandrus</i> *	rip gut	5									0.6										0.0	
CAEX	<i>Castilleja exserta</i>	owl's clover										0.0										0.0	
COMA	<i>Conium maculatum</i> *	poison hemlock										0.0										0.0	
COBO	<i>Conyza bonariensis</i> *	South American conyza			10	45	25	70	70		1	24.6					2	1				0.4	
CRSC	<i>Crypsis schoenoides</i>	swamp grass										0.0										0.0	
DACA	<i>Danthonia californica</i>	California oatgrass	10									1.1	2					10				1.5	
DISP	<i>Distichlis spicata</i>	saltgrass		20		15					15	5.6								10		1.3	
ELAC	<i>Eleocharis a. acicularis</i>	needle spike-rush										0.0										0.0	
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush							10			1.1	75									9.4	
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed	3		5	5		5	2		2	2.4						25				3.1	
ERBO	<i>Erodium botrys</i> *	long-beaked filaree										0.0										0.0	
ERCI	<i>Erodium cicutarium</i> *	redstem filaree										0.0										0.0	
ERMO	<i>Erodium moschatum</i> *	greenstem filaree										0.0					7	10	3			2.5	
ERAR	<i>Eryngium armatum</i>	coast eryngo										0.0		5								0.6	
CAAP	<i>Galium aparine</i>	goose grass										0.0										0.0	
GECA	<i>Geranium carolinianum</i> *	Carolina geranium	7	2	3							1.3	2	15								2.1	
GNLA	<i>Gnaphalium luteo-album</i> *	common cudweed						20				2.2								20		2.5	
HECL	<i>Hemizonia congesta</i> ssp. <i>luzlifolia</i>	hayfield tarweed										0.0										0.0	
HECO	<i>Hemizonia c. corymbosa</i>	coastal tarweed	25									2.8										0.0	
HOBH	<i>Hordeum b. brachyantherum</i>	meadow barley										0.0										0.0	
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's ear										0.0										0.0	
JU	<i>Juncus</i> sp.	rush	3									0.3		90	100	90	85		2	80		55.9	
JUBU	<i>Juncus b. bufonius</i>	common toad rush	3		40							4.8										0.0	
JULE	<i>Juncus lesueurii</i>	salt rush			40			10				5.6										0.0	
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush					70		10	70	5	17.2										0.0	
LETR	<i>Leymus triticoides</i>	beardless ryegrass		20								2.2										0.0	
LOMU	<i>Lolium multiflorum</i> *	Italian ryegrass									15	1.7										0.0	
MASA	<i>Madia sativa</i>	coast tarweed										0.0										0.0	
MACA	<i>Malacothrix californica</i>	California dandelion										0.0										0.0	
MALE	<i>Malvella leprosa</i>	alkali mallow									1	0.1					7	5	5			2.1	
PHLE	<i>Phalaris lemmonii</i>	Lemmon's canary grass										0.0										0.0	
PL	<i>Plagiobothrys</i> sp.	popcornflower										0.0										0.0	
PLCO	<i>Plantago coronopus</i> *	cut-leaved plantain	25	40								7.2										0.0	
PO	<i>Poa</i> sp.	bluegrass										0.0					5					0.6	
POMO	<i>Polypogon monspeliensis</i> *	rabbitfoot grass	5			10	3	5	15	15	45	10.9						45	60	15		15.0	
RUCR	<i>Rumex crispus</i> *	curly dock										0.0										0.0	
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass										0.0										0.0	
SOAS	<i>Sonchus asper</i> *	prickly sow-thistle										0.0										0.0	
SOOL	<i>Sonchus oleraceus</i> *	common sow-thistle	5		5	7	5					2.4										0.0	
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle								20	5	2.8	1				2	5	2			1.3	
VUMY	<i>Vulpia m. myuros</i> *	rat-tail fescue									15	1.7	10					2	30			5.3	
Total Vegetative Cover			91	92	103	82	123	100	99	105	106	100.1	107	120	100	100	108	103	112	117		108.4	
Bare Ground			5	20		15	10	10	3			7.0							2	3			0.6
Total Cover			96	112	103	97	133	110	102	105	106	107.1	107	120	100	100	108	103	114	120		109.0	

*Non-native species

Table 15. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Machine Gun Flats
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California

Code	Scientific Name	Quadrat Number: Common Name	Transect 3								Average Cover %	Transect 4										Average Cover %
			1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover	7 % Cover	1 % Cover		2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover	7 % Cover	8 % Cover	9 % Cover	10 % Cover		
AICA	<i>Aira caryophylla</i> *	silvery hair-grass	15	15	15		10	20		10.7	30						10	20		10	7.0	
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel		1						0.1											0.0	
AVBA	<i>Avena barbata</i> *	slender wild-oat								0.0											0.0	
BAPI	<i>Baccharis pilularis</i>	coyote brush								0.0											0.0	
BRMI	<i>Briza minor</i> *	small quaking grass	3		5					1.1	1	15	10	15	5	5	10			3	6.4	
BRTE	<i>Brodiaea terrestris</i>	dwarf brodiaea								0.0	1		7	2	5	5		2		1	2.3	
BRDI	<i>Bromus diandrus</i> *	rip gut							5	0.7											0.0	
CAEX	<i>Castilleja exserta</i>	owl's clover		1						0.1	15		10	10	15	10		15	25	30	13.0	
COMA	<i>Conium maculatum</i> *	poison hemlock								0.0											0.0	
COBO	<i>Conyza bonariensis</i> *	South American conyza								0.0											0.0	
CRSC	<i>Crypsis schoenoides</i>	swamp grass								0.0											0.0	
DACA	<i>Danthonia californica</i>	California oatgrass								0.0				7						2	0.9	
DISP	<i>Distichlis spicata</i>	saltgrass				70	20	10	10	15.7				25	5	10				15	5.5	
ELAC	<i>Eleocharis a. acicularis</i>	needle spike-rush							15	2.1		20				25					4.5	
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush				3	10	40	20	10.4			10		15				10		3.5	
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed								0.0											0.0	
ERBO	<i>Erodium botrys</i> *	long-beaked filaree				2		5		1.0			1		2	3			5	5	1.6	
ERCI	<i>Erodium cicutarium</i> *	redstem filaree								0.0											0.0	
ERMO	<i>Erodium moschatum</i> *	greenstem filaree								0.0											0.0	
ERAR	<i>Eryngium armatum</i>	coast eryngo		10						1.4	3	5	10		10		15	5	7	25	8.0	
CAAP	<i>Galium aparine</i>	goose grass								0.0											0.0	
GECA	<i>Geranium carolinianum</i> *	Carolina geranium		1	5	5				1.6	2	2	2		10						1.6	
GNLA	<i>Gnaphalium luteo-album</i> *	common cudweed							2	0.3		3									0.3	
HECL	<i>Hemizonia congesta</i> ssp. <i>luzlifolia</i>	hayfield tarweed								0.0											0.0	
HECO	<i>Hemizonia c. corymbosa</i>	coastal tarweed								0.0	5	10	5	25	20	5	7	25	15	5	12.2	
HOBH	<i>Hordeum b. brachyantherum</i>	meadow barley								0.0	3										0.3	
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's ear	3	10	5					2.6	20	10	45	30	35	30	35	40	30	15	29.0	
JU	<i>Juncus</i> sp.	rush				3				0.4											0.0	
JUBU	<i>Juncus b. bufonius</i>	common toad rush								0.0											0.0	
JULE	<i>Juncus lesueurii</i>	salt rush								0.0											0.0	
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush							20	2.9											0.0	
LETR	<i>Leymus triticoides</i>	beardless ryegrass	75	2	30					15.3											0.0	
LOMU	<i>Lolium multiflorum</i> *	Italian ryegrass								0.0											0.0	
MASA	<i>Madia sativa</i>	coast tarweed		5	5				1	1.6		10									1.0	
MACA	<i>Malacothrix californica</i>	California dandelion								0.0											0.0	
MALE	<i>Malvella leprosa</i>	alkali mallow				3	7			1.4	3	5	3	3	2		3				1.9	
PHLE	<i>Phalaris lemmonii</i>	Lemmon's canary grass				15	50	10		10.7											0.0	
PL	<i>Plagiobothrys</i> sp.	popcornflower								0.0		1			1						0.2	
PLCO	<i>Plantago coronopus</i> *	cut-leaved plantain		20						2.9									3		0.3	
PO	<i>Poa</i> sp.	bluegrass								0.0											0.0	
POMO	<i>Polypogon monspeliensis</i> *	rabbitfoot grass								0.0											0.0	
RUCR	<i>Rumex crispus</i> *	curly dock					3			0.4											0.0	
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass								0.0											0.0	
SOAS	<i>Sonchus asper</i> *	prickly sow-thistle							25	3.6											0.0	
SOOL	<i>Sonchus oleraceus</i> *	common sow-thistle			3		3	5		1.6	2	2			5						0.9	
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle		15	10	10		15		7.1	7	7		15	10		2				4.1	
VUMY	<i>Vulpia m. myuros</i> *	rat-tail fescue	15	30	5					7.1							15				1.5	
Total Vegetative Cover			111	110	83	111	103	105	98	103.0	92	90	102	118	138	107	100	107	95	111	106.0	
Bare Ground										0.0	7	10			5	5	2	5			3.4	
Total Cover			111	110	83	111	103	105	98	103.0	99	100	102	118	138	112	105	109	100	111	109.4	

*Non-native species

Table 15. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Machine Gun Flats
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California

Code	Scientific Name	Quadrat Number: Common Name	Transect 5										Average Cover %	Transect 6						Average Cover %		
			1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover	7 % Cover	8 % Cover	9 % Cover	10 % Cover		1 % Cover	2 % Cover	3 % Cover	4 % Cover	5 % Cover	6 % Cover			
AICA	<i>Aira caryophylla</i> *	silvery hair-grass	10	30	15			15	20					9.0								0.0
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel												0.0								0.0
AVBA	<i>Avena barbata</i> *	slender wild-oat												0.0								0.0
BAPI	<i>Baccharis pilularis</i>	coyote brush												0.0								0.0
BRMI	<i>Briza minor</i> *	small quaking grass												0.0			20					3.3
BRTE	<i>Brodiaea terrestris</i>	dwarf brodiaea												0.0								0.0
BRDI	<i>Bromus diandrus</i> *	rip gut												0.0					20			3.3
CAEX	<i>Castilleja exserta</i>	owl's clover			5	5							1.0									0.0
COMA	<i>Conium maculatum</i> *	poison hemlock												0.0								0.0
COBO	<i>Conyza bonariensis</i> *	South American conyza												0.0								0.0
CRSC	<i>Crypsis schoenoides</i>	swamp grass												0.0								0.0
DACA	<i>Danthonia californica</i>	California oatgrass						3	5				0.8	40	70						5	19.2
DISP	<i>Distichlis spicata</i>	saltgrass				10	10	5					4.0				35	10	10			9.2
ELAC	<i>Eleocharis a. acicularis</i>	needle spike-rush										40	4.0									0.0
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush				15	5	5	10	80	90		20.5			5		10				2.5
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed											0.0									0.0
ERBO	<i>Erodium botrys</i> *	long-beaked filaree		5		5	2						1.2									0.0
ERCI	<i>Erodium cicutarium</i> *	redstem filaree			5								0.5									0.0
ERMO	<i>Erodium moschatum</i> *	greenstem filaree											0.0									0.0
ERAR	<i>Eryngium armatum</i>	coast eryngo	8		20	5	5						3.8									0.0
CAAP	<i>Galium aparine</i>	goose grass											0.0									0.0
GECA	<i>Geranium carolinianum</i> *	Carolina geranium	5		5								1.0	5	10	30	7					8.7
GNLA	<i>Gnaphalium luteo-album</i> *	common cudweed								5			0.5			5	5	25				5.8
HECL	<i>Hemizonia congesta</i> ssp. <i>luzlifolia</i>	hayfield tarweed											0.0								40	6.7
HECO	<i>Hemizonia c. corymbosa</i>	coastal tarweed		3									0.3		10						5	2.5
HOBR	<i>Hordeum b. brachyantherum</i>	meadow barley											0.0									0.0
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's ear	35	15	30	40		15	40			10	18.5			5	15	20	5			7.5
JU	<i>Juncus</i> sp.	rush	5					5					1.0			5	40	10	20			12.5
JUBU	<i>Juncus b. bufonius</i>	common toad rush								30			3.0									0.0
JULE	<i>Juncus lesueurii</i>	salt rush											0.0									0.0
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush											0.0									0.0
LETR	<i>Leymus triticoides</i>	beardless ryegrass											0.0									0.0
LOMU	<i>Lolium multiflorum</i> *	Italian ryegrass											0.0									0.0
MASA	<i>Madia sativa</i>	coast tarweed											0.0									0.0
MACA	<i>Malacothrix californica</i>	California dandelion											0.0									0.0
MALE	<i>Malvella leprosa</i>	alkali mallow						5	7	3	2	3	2.0									0.0
PHLE	<i>Phalaris lemmonii</i>	Lemmon's canary grass											0.0									0.0
PL	<i>Plagiobothrys</i> sp.	popcornflower											0.0									0.0
PLCO	<i>Plantago coronopus</i> *	cut-leaved plantain	20	5									2.5									0.0
PO	<i>Poa</i> sp.	bluegrass											0.0									0.0
POMO	<i>Polypogon monspeliensis</i> *	rabbitfoot grass											0.0									0.0
RUCR	<i>Rumex crispus</i> *	curly dock											0.0									0.0
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass											0.0									0.0
SOAS	<i>Sonchus asper</i> *	prickly sow-thistle										25	2.5									0.0
SOOL	<i>Sonchus oleraceus</i> *	common sow-thistle							7				0.7	5		5	5	5	5			4.2
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle											0.0			5						0.8
VUMY	<i>Vulpia m. myuros</i> *	rat-tail fescue	10	15	20		30						7.5	10								1.7
Total Vegetative Cover			93	73	100	80	60	57	85	112	90	93	84.3	60	90	80	107	100	90			87.8
Bare Ground			5	20	5	20	40	50	20		10	10	18.0	40	10	20	5			5		13.3
Total Cover			98	93	105	100	100	107	105	112	100	103	102.3	100	100	100	112	100	95			101.2

*Non-native species

Table 15. Percent Vegetative Cover by Species in Seasonal Wetland Habitat - Machine Gun Flats
2002 Annual Monitoring Report
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Code	Scientific Name	Common Name	Transect 7							Average Cover %	Transect 8						Average Cover %	Transect 9						Average Cover %	Combined Average Cover (%)	
			1 %	2 %	3 %	4 %	5 %	6 %	1 %		2 %	3 %	4 %	5 %	6 %	1 %		2 %	3 %	4 %	5 %	6 %				
AICA	<i>Aira caryophylla</i> *	silvery hair-grass							0.0		1	10		10	25		7.7								0.0	3.99
ANAR	<i>Anagallis arvensis</i> *	scarlet pimpernel							0.0	2	1					0.5				1	2			0.5	0.13	
AVBA	<i>Avena barbata</i> *	slender wild-oat							0.0							0.0								0.0	0.02	
BAPI	<i>Baccharis pilularis</i>	coyote brush							0.0							0.0								0.0	0.19	
BRMI	<i>Briza minor</i> *	small quaking grass							0.0		2					0.3								0.0	1.58	
BRTE	<i>Brodiaea terrestris</i>	dwarf brodiaea							0.0							0.0								0.0	0.26	
BRDI	<i>Bromus diandrus</i> *	rip gut							0.0							0.0								0.0	0.51	
CAEX	<i>Castilleja exserta</i>	owl's clover							0.0							0.0								0.0	1.57	
COMA	<i>Conium maculatum</i> *	poison hemlock	5	5	5	2			2.8							0.0								0.0	0.31	
COBO	<i>Conyza bonariensis</i> *	South American conyza						2	5	1.2			5			0.8								0.0	2.99	
CRSC	<i>Crypsis schoenoides</i>	swamp grass												10	70	13.3			15					2.5	1.76	
DACA	<i>Danthonia californica</i>	California oatgrass						1		70	65	65	5		25	38.3								0.0	6.87	
DISP	<i>Distichlis spicata</i>	saltgrass						10	1.7		5					0.8				25	40	85		25.0	7.63	
ELAC	<i>Eleocharis a. acicularis</i>	needle spike-rush				50	70		20.0							0.0								0.0	3.40	
ELMA	<i>Eleocharis macrostachya</i>	pale spike-rush				40		65	17.5							0.0	30	20	30	35	20	10		24.2	9.90	
ERGL	<i>Erechtites glomerata</i> *	cut-leaved fireweed		2		5	15		3.7							0.0		3		2				0.8	1.12	
ERBO	<i>Erodium botrys</i> *	long-beaked filaree					15		2.5							0.0								0.0	0.70	
ERCI	<i>Erodium cicutarium</i> *	redstem filaree							0.0							0.0								0.0	0.06	
ERMO	<i>Erodium moschatum</i> *	greenstem filaree						1	0.2	5						0.8								0.0	0.39	
ERAR	<i>Eryngium armatum</i>	coast eryngo							0.0							0.0								0.0	1.54	
CAAP	<i>Galium aparine</i>	goose grass		5					0.8							0.0								0.0	0.09	
GECA	<i>Geranium carolinianum</i> *	Carolina geranium							0.0	2	2	2				1.0								0.0	1.92	
GNLA	<i>Gnaphalium luteo-album</i> *	common cudweed						10	1.7							0.0	3		5		1			1.5	1.65	
HECL	<i>Hemizonia congesta</i> ssp. <i>luzlifolia</i>	hayfield tarweed							0.0							0.0								0.0	0.74	
HECO	<i>Hemizonia c. corymbosa</i>	coastal tarweed							0.0							0.0								0.0	1.98	
HOBH	<i>Hordeum b. brachyantherum</i>	meadow barley							0.0							0.0								0.0	0.03	
HYGL	<i>Hypochaeris glabra</i> *	smooth cat's ear				1	10		1.8		2	2	3			1.2								0.0	6.73	
JU	<i>Juncus</i> sp.	rush							0.0		10	3	40	15	5	12.2	60	80	50	35				37.5	13.31	
JUBU	<i>Juncus b. bufonius</i>	common toad rush							0.0							0.0								0.0	0.86	
JULE	<i>Juncus lesueurii</i>	salt rush							0.0							0.0								0.0	0.62	
JUPH	<i>Juncus phaeocephalus</i>	brown-headed rush	50		5	5			10.0							0.0								0.0	3.34	
LETR	<i>Leymus triticoides</i>	beardless ryegrass	60	75	85				36.7	5						0.8								0.0	6.11	
LOMU	<i>Lolium multiflorum</i> *	Italian ryegrass							0.0	5		8				2.2								0.0	0.43	
MASA	<i>Madia sativa</i>	coast tarweed							0.0							0.0								0.0	0.29	
MACA	<i>Malacothrix californica</i>	California dandelion							0.0	1						0.2								0.0	0.02	
MALE	<i>Malvella leprosa</i>	alkali mallow			10				1.7							0.0			5	2	30	1		6.3	1.73	
PHLE	<i>Phalaris lemmonii</i>	Lemmon's canary grass							0.0							0.0								0.0	1.19	
PL	<i>Plagiobothrys</i> sp.	popcornflower							0.0							0.0								0.0	0.02	
PLCO	<i>Plantago coronopus</i> *	cut-leaved plantain							0.0							0.0								0.0	1.43	
PO	<i>Poa</i> sp.	bluegrass							0.0							0.0								0.0	0.07	
POMO	<i>Polypogon monspeliensis</i> *	rabbitfoot grass							0.0				25	50		12.5					10	1		1.8	4.47	
RUCR	<i>Rumex crispus</i> *	curly dock				1			0.2	1			5	5		1.8								0.0	0.27	
SIBE	<i>Sisyrinchium bellum</i>	blue-eyed grass							0.0	5						0.8								0.0	0.09	
SOAS	<i>Sonchus asper</i> *	prickly sow-thistle							0.0			5				0.8	5							0.8	0.86	
SOOL	<i>Sonchus oleraceus</i> *	common sow-thistle				2	5	15	3.7		2		15		5	3.7			3					0.5	1.96	
STAJ	<i>Stachys ajugoides</i>	bugle-hedge nettle						5	0.8			8				1.3	2							0.3	2.07	
VUMY	<i>Vulpia m. myuros</i> *	rat-tail fescue							0.0	3						0.5								0.0	2.80	
Total Vegetative Cover			115	87	105	106	128	101	106.8	100	99	98	103	105	105	101.7	100	103	108	100	103	97		101.8	100.0	
Bare Ground				15										7		1.2					10	5		2.5	5.1	
Total Cover			115	102	105	106	128	101	106.8	100	99	98	103	112	105	102.8	100	103	108	100	113	102		104.3	105.1	

*Non-native species

**Table 16. Flora Observed During Wetland Monitoring
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Former Fort Ord, Monterey County, California**

Scientific Name	Common Name	Wetland Indicator Status
<i>Aira caryophylla</i> *	silvery hair-grass	NI
<i>Anagallis arvensis</i> *	scarlet pimpernel	FAC
<i>Avena barbata</i> *	slender wild oat	NI
<i>Baccharis pilularis</i>	coyote bush	NI
<i>Bloomeria crocea</i>	golden stars	NI
<i>Briza minor</i> *	small quaking grass	FACW
<i>Brodiaea terrestris</i>	ground brodiaea	NI
<i>Bromus diandrus</i> *	riggut grass	NI
<i>Calandrinia ciliata</i>	redmaids	FACU
<i>Castilleja exserta</i>	dense owl's-clover	NI
<i>Cirsium brevistylum</i>	Indian thistle	NI
<i>Conium maculatum</i> *	poison hemlock	FACW
<i>Conyza bonariensis</i> *	horseweed	FAC
<i>Crypsis schoenoides</i>	swamp grass	OBL
<i>Cyperus erythrorhizos</i>	red-rooting cyperus	OBL
<i>Danthonia californica</i>	California oatgrass	FACU
<i>Deschampsia danthonioides</i>	annual hair-grass	FACU
<i>Distichlis spicata</i>	saltgrass	FACW
<i>Eleocharis a. acicularis</i>	needle spike-rush	OBL
<i>Eleocharis macrostachya</i>	pale spike marsh	OBL
<i>Erechtites glomerata</i> *	cut-leaved fireweed	NI
<i>Erodium botrys</i> *	broadleaf filaree	NI
<i>Erodium cicutarium</i> *	redstem filaree	NI
<i>Erodium moschatum</i> *	greenstem filaree	NI
<i>Eryngium armatum</i>	coast eryngo	FACW
<i>Filago gallica</i> *	narrow-leaved filago	NI
<i>Geranium carolinianum</i>	Carolina geranium	NI
<i>Gnaphalium luteo-album</i> *	common cudweed	FACW
<i>Hemizonia congesta</i>	hayfield tarweed	NI
<i>Hemizonia corymbosa</i>	coast tarweed	NI
<i>Heterocodon rariflorum</i>	heterocodon	FACW
<i>Hordeum b. brachyantherum</i>	meadow barley	FACW
<i>Hypochaeris glabra</i> *	smooth cats' ear	NI
<i>Juncus b. bufonius</i>	common toad rush	FACW
<i>Juncus lesueurii</i>	salt rush	FACW
<i>Juncus phaeocephalus</i>	brown-headed rush	FACW
<i>Leymus triticoides</i>	beardless ryegrass	NI
<i>Lolium multiflorum</i> *	Italian ryegrass	NI
<i>Madia sativa</i>	coast tarweed	NI
<i>Malacothrix californica</i>	California dandelion	NI
<i>Malvella leprosa</i>	alkali mallow	FAC
<i>Oxalis pes-caprae</i> *	Bermuda buttercup	NI
<i>Phalaris lemmonii</i>	Lemmon's canary grass	FACU
<i>Plagiobothrys sp.</i>	popcorn flower	**
<i>Plantago coronopus</i> *	cut-leaved plantain	FAC
<i>Plantago erecta</i>	dwarf plantain	NI
<i>Poa secunda</i>	Pacific bluegrass	NI
<i>Polypogon monspeliensis</i> *	rabbitfoot grass	FACW
<i>Psilocarpus tenellus globiferus</i>	wooly-heads	FAC

**Table 16. Flora Observed During Wetland Monitoring
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California**

Scientific Name	Common Name	Wetland Indicator Status
<i>Rumex crispus*</i>	curly dock	FACW-
<i>Sisyrinchium bellum</i>	blue-eyed grass	FAC
<i>Sonchus oleraceus*</i>	common sow-thistle	NI
<i>Stachys a. ajugoidies</i>	bugle hedge-nettle	OBL
<i>Vulpia m. myuros*</i>	rat-tail fescue	FACU

*Non-native species

Wetland indicator definitions:

OBL-obligate >99% probability of occurrence in wetlands

FACW-facultative wetland >67% probability of occurrence in wetlands

FAC- facultative .33% to 67% probability of occurrence in wetlands

FACU-facultative upland 1% to 33% probability of occurrence in wetlands

UPL- upland <1% probability of occurrence in wetlands

NI- no indicator status assigned

**-not identifiable to species, indicator status undetermined

**Table 17. Summary of California Linderiella Monitoring Results
2002 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Pool	California Linderiella Abundance ¹					
	January	February	March	April	May	June
42	Very high - IM 1000s	High - IM 250	NS	NS	NS	
MGF	Very high - IM 1000s	Very High 1000s	--	--	--	

MGF Machine Gun Flats

¹ A qualitative estimate of abundance is based on the total number of California linderiella observed from 10 to 20 random samples (depending on size and complexity of each waterbody) collected with a dipnet from throughout each pool.

Abundance is defined as follows:

"--" : None observed.

Low: 1 to 10 linderiella observed.

Moderate: 11 to 100 linderiella observed.

High: 101 to 300 linderiella observed.

Very high: more than 300 linderiella observed.

IM: immature only observed, not identifiable to species.

NS : Not surveyed.

NR : Survey not required.

**Table 18. Special-Status Vertebrate Species Observed
2002 Annual Monitoring Report
Former Fort Ord, Monterey County California**

Waterbody	Special-Status Vertebrate Species Observed*											
	January				February				March			
	CARLF	CATS	SWPT	TCBB	CARLF	CATS	SWPT	TCBB	CARLF	CATS	SWPT	TCBB
42	-- ^b	--	--	--	--	--	--	--	--	--	--	--
MGF	--	--	--	--	--	--	--	--	--	--	--	--

Waterbody	Special-Status Vertebrate Species Observed*							
	April				May			
	CARLF	CATS	SWPT	TCBB	CARLF	CATS	SWPT	TCBB
42	--	--	--	--	--	--	--	--
MGF	--	--	--	--	--	--	--	--

NS Not Surveyed

^a Special-status species surveyed include:
 CATS : California tiger salamander.
 CARLF : California red-legged frog.
 SWPT : Southwestern pond turtle.
 TCBB : Tricolored blackbird.

^b "--" : none observed during the survey activity.

**Table 19. Observed Vertebrate Fauna at Wetland Monitoring Sites
2002 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Scientific Name	Common Name
Amphibians	
<i>Hyla regilla</i>	Pacific treefrog
<i>Rana catesbiana</i>	bullfrog
Reptiles	
<i>Gerrhonotus multicarinatus</i>	Southern alligator lizard
<i>Sceloporus occidentalis</i>	Western fence lizard
Birds	
<i>Agelaius phoeniceus</i>	red-winged blackbird
<i>Anas platyrhynchos</i>	mallard
<i>Aphelocoma coerulescens</i>	scrub jay
<i>Branta canadensis</i>	Canada goose
<i>Buteo jamaicensis</i>	red-tailed hawk
<i>Callipepla californica</i>	California quail
<i>Calypte anna</i>	Anna's hummingbird
<i>Cathartes aura</i>	turkey vulture
<i>Charadrius vociferus</i>	killdeer
<i>Euphagus cyanocephalus</i>	Brewer's blackbird
<i>Geococcyx californianus</i>	road runner
<i>Hirundo rustica</i>	barn swallow
<i>Junco hyemalis</i>	dark-eyed junco
<i>Meleagris gallopavo</i>	wild turkey
<i>Mimus polyglottos</i>	Northern mockingbird
<i>Sayornis nigricans</i>	black phoebe
<i>Sialia mexicana</i>	Western bluebird
<i>Sturnella neglecta</i>	Western meadowlark
<i>Tachycineta bicolor</i>	tree swallow
<i>Tringa flavipes</i>	lesser yellowlegs
<i>Troglodytes aedon</i>	house wren
<i>Turdus migratorius</i>	American robin
<i>Zenaida macroura</i>	mourning dove
Mammals	
<i>Canis latrans</i>	coyote
<i>Canis lupus familiaris</i>	domestic dog
<i>Felis rufus</i>	bobcat
<i>Peromyscus californicus</i>	California mouse
<i>Spermophilus beecheyi</i>	California ground squirrel
<i>Sylvilagus bachmani</i>	brush rabbit
<i>(Species?)</i>	cottontail rabbit

**Table 20. Summary of Physical Parameters of Wetland Monitoring Sites
2002 Annual Monitoring Report
Former Fort Ord, Monterey, California**

Pool	Maximum depth (inches)					Area (acres)					Turbidity (ntu)					pH				
	Jan.	Feb.	Mar.	Apr.	May	Jan.	Feb.	Mar.	Apr.	May	Jan.	Feb.	Mar.	Apr.	May	Jan.	Feb.	Mar.	Apr.	May
42	7	5	NW	NW	NW	0.07	0.04	NW	NW	NW	10.8	12	NW	NW	NW	NM	NM	NW	NW	NW
MGF	10	24	7	6		3.49	2.03	0.09	0.01		57.2	71	150	180		NM	NM	6.88	7.2	
Bullfrog Pond	*	>36	>36			0.08	0/07	0.06	0.05			135				NM	NM	7.1	NM	

ntu turbidity units
 NM Not Measured
 NW No Water
 MGF Machine Gun Flats

Table 21. Monterey Precipitation Calendar, 2001 and 2002 Rain Years
2002 Annual Monitoring Report
Former Fort Ord, Monterey County, California

2001 Rain Year

Precipitation	November 2000		December 2000		January 2001		February 2001		March 2001		April 2001		May 2001	
	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal
	0.55	2.38	0.30	2.94	5.10	4.28	3.95	3.30	2.20	3.23	2.20	1.52	0.10	0.49
Annual Total	5.90	3.88	6.20	6.82	11.30	11.10	15.25	14.40	17.45	17.63	19.65	19.15	19.75	19.64
Percentage of 50 Year Normal		152%		91%		102%		106%		99%		103%		101%

2002 Rain Year

Precipitation	November 2001		December 2001		January 2002		February 2002		March 2002		April 2002		May 2002	
	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal	Total	50-Year Normal
	2.95	2.38	6.27	2.94	1.48	4.28	1.58	3.30	1.43	3.23	0.42	1.52	1.10	0.49
Annual Total	3.40	3.88	9.67	6.82	10.70	11.10	12.28	14.40	13.71	17.63	14.58	19.15	15.23	19.64
Percentage of 50 Year Normal		88%		142%		96%		85%		78%		76%		78%