

Evaluation Sheet (Front)

Aerial Photo: _____

Management Unit: Cal Poly Sheep Unit State: CA Office: _____ Range/Ecol. Site Code: _____

Ecological Site Name: not available Soil Map Unit/Component Name: 148 Lodo clay loam 15-30% slopes

Observers: Colin McKim Date: 12/13/10

Location (description): pasture 1 on map, southern pasture

T. _____ R. _____ or 35°18'44" N. Lat. Or UTM E _____ m Position by GPS? ☒ N

Sec. _____ 120°41'4" W. Long. N _____ m UTM Zone _____ Datum _____ Photos taken? ☒ N

Size of evaluation area: 1.77 ha 4.4 acres

Composition (Indicators 10 and 12) based on: _____ Annual Production, _____ Cover Produced During Current Year or ☒ Biomass

Soil/site verification:

Range/Ecol. Site Descr., Soil Surv., and/or Ecol. Ref. Area:

Surface texture Clay loam

Depth: very shallow _____, shallow ☒, moderate _____, deep _____

Type and depth of diagnostic horizons:

1. Clay loam 0-12 in 3. _____

2. bedrock 12-16 in 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Parent material residuum Slope 10% Elevation 350-400 ft.

Average annual precipitation 24 inches

Evaluation Area:

Surface texture Clay loam

Depth: very shallow _____, shallow _____, moderate ☒, deep ? >20"

Type and depth of diagnostic horizons:

1. Clay loam 0-12 in 3. _____

2. very hard clay 12 in 4 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Topographic position FS, TS Aspect S

Seasonal distribution October-April

Recent weather (last 2 years) (1) drought _____, (2) normal ☒, or (3) wet _____

Wildlife use, livestock use (intensity and season of allotted use), and recent disturbances:

Not grazed in fall, shows evidence of grazing earlier in year. Sheep unit pastures are generally understocked, resulting in high RDM

Off-site influences on evaluation area:

None

Criteria used to select this particular evaluation area as REPRESENTATIVE (specific info. and factors considered; degree of "representativeness")

N/A Done by pasture

Other remarks (continue on back if necessary)

Reference: (1) Reference Sheet: _____; Author: Colin McKim; Creation Date: Dec 2010

or (2) Other (e.g., name and date of ecological site description; locations of ecological reference area(s)) _____

Evaluation Sheet (Back)

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Departure from Expected	Code	Instructions for Evaluation Sheet, Page 2
None to Slight Slight to Moderate Moderate Moderate to Extreme Extreme to Total	N-S S-M M M-E E-T	(1) Assign 17 indicator ratings. If indicator not present, rate None to Slight. (2) In the three grids below, write the indicator number in the appropriate column for each indicator that is applicable to the attribute. (3) Assign overall rating for each attribute based on preponderance of evidence. (4) Justify each attribute rating in writing.
Indicator	Rating	Comments
1. Rills	S H N-S	None
2. Water-flow Patterns	S H N-S	Short water flow patterns on steep area NE corner
3. Pedestals and/or terracettes	S H N-S	None
4. Bare ground <u>6</u> %	S H N-S	Mostly associated w/ gophers and ground squirrels
5. Gullies	S H N-S	No gullies or headcuts in drainages
6. Wind-scoured, blowouts, and/or deposition areas	S N-S	None
7. Litter movement	S N-S	No to slight movement
8. Soil surface resistance to erosion	S H B N-S	6
9. Soil surface loss or degradation	S H B N-S	Only area of degradation on slope by pasture
10. Plant community composition and distribution relative to infiltration	H N-S	Phalaris and Nassella abundant with deep roots and high infiltration
11. Compaction layer	S H B N-S	None
12. Functional/structural groups	B N-S	PHAQ more dominant than NAPU, but < AG
13. Plant mortality/decadence	B N-S	None
14. Litter amount	H B N-S	Litter > 1/2 in across most of the site
15. Annual production	B N-S	(Cynara cardunculus (mature + seedlings)) 2256 lb/ac (FOVU, PIEC)
16. Invasive plants	B M	present in unconnected patches
17. Reproductive capability of perennial plants	B N-S	Seedstalks from previous year present but grazed

Attribute Rating Justification
Soil & Site Stability:
11
9
8
7
6
5
4
3
2
1
E-T M-E M S-M N-S

S (10 indicators):
Soil & Site Stability
Rating: N-S

Attribute Rating Justification
Hydrologic Function:
14
11
10
9
8
5
4
3
2
1
E-T M-E M S-M N-S

H (10 indicators):
Hydrologic Function
Rating: N-S

Attribute Rating Justification
Biotic Integrity:
Invasives
could be
brought
under
control
easily
17
15
14
13
12
11
9
16
8
E-T M-E M S-M N-S

B (9 indicators):
Biotic Integrity
Rating: N-S

Evaluation Sheet (Front)

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Interpreting Indicators of Rangeland Health — Technical Reference 1734-6, Version 4

Aerial Photo: _____

Management Unit: Cal Poly Sheep Unit State: CA Office: _____ Range/Ecol. Site Code: _____
(Allotment or pasture)

Ecological Site Name: not available Soil Map Unit/Component Name: 148 Lodo Clay loam 15-30% slopes 197 Salinas silty clay loam 0-2% slopes

Observers: Colin McKim Date: 12/13/10

Location (description): pasture 2 on map, SE pasture

T. _____ R. _____ or 35°18'49" N. Lat. Or UTM E _____ m Position by GPS? ☒ Y / ☐ N

Sec. _____ 120°41'3" W. Long. N _____ m Photos taken? ☒ Y / ☐ N

Size of evaluation area: 1.55 ha 3.8 acres

Composition (Indicators 10 and 12) based on: _____ Annual Production, _____ Cover Produced During Current Year or _____ Biomass

Soil/site verification:

Range/Ecol. Site Descr., Soil Surv., and/or Ecol. Ref. Area:

Surface texture Clay loam (148) silty clay loam (197)

Depth: very shallow _____, shallow ☒ X, moderate _____, deep ☒ X

Type and depth of diagnostic horizons: _____

- 148 1. clay loam 0-12 in 3. silty clay loam 0-29 in
2. bedrock 12-16 in 4. stratified loam 29-72 in

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Parent material residuum Slope 15-30% Elevation 360-410 ft.

Average annual precipitation 24 inches

Evaluation Area:

Surface texture Sandy clay loam

Depth: very shallow _____, shallow ☒ X, moderate _____, deep _____

Type and depth of diagnostic horizons: _____

1. SCL 0-15 in 3. _____
2. W. bedrock 15 in+ 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Topographic position FS, TS, of hill Aspect E

Seasonal distribution October-April

Recent weather (last 2 years) (1) drought _____, (2) normal ☒ X, or (3) wet _____

Wildlife use, livestock use (intensity and season of allotted use), and recent disturbances:

No fall sheep grazing occurred. Numerous ground squirrels and a jackrabbit sighted. Old road cut resulting in erosion problems and weeds. Pasture appeared to be more heavily grazed than any of the other pastures assessed.

Off-site influences on evaluation area:

None.

Criteria used to select this particular evaluation area as REPRESENTATIVE (specific info. and factors considered; degree of "representativeness")

N/A evaluated by pasture

Other remarks (continue on back if necessary)

Reference: (1) Reference Sheet: _____; Author: Colin McKim; Creation Date: Dec 2010
or (2) Other (e.g., name and date of ecological site description; locations of ecological reference area(s)) _____

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B (9 indicators):
Biotic Integrity
Rating: slight

Evaluation Sheet (Front)

Aerial Photo: _____

Management Unit: Cal Poly Sheep Unit State: CA Office: _____ Range/Ecol. Site Code: _____
(Allotment or pasture)

Ecological Site Name: not available Soil Map Unit/Component Name: 148 Lodo Clay loam 15-30%

Observers: Colin McKim Date: 12/13/10

Location (description): pasture 3 on map, lower E pasture on hill

T. _____ R. _____ or 35°18'54" N. Lat. Or UTM E _____ m Position by GPS ☒ / N

Sec. _____ 120°41'6" W. Long. N _____ m UTM Zone _____ Datum _____

Size of evaluation area: 3.48 ha 8.6 acres

Composition (Indicators 10 and 12) based on: _____ Annual Production, _____ Cover Produced During Current Year or ☒ Biomass

Soil/site verification:

Range/Ecol. Site Descr., Soil Surv., and/or Ecol. Ref. Area:

Surface texture Clay loam

Depth: very shallow _____, shallow ☒, moderate _____, deep _____

Type and depth of diagnostic horizons:

1. Clay loam 0-12 in. 3. _____

2. bedrock 12-16 in. 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Parent material residuum Slope 15-30% Elevation 400-490 ft.

Average annual precipitation 24 inches

Evaluation Area:

Surface texture Clay

Depth: very shallow _____, shallow ☒, moderate _____, deep _____

Type and depth of diagnostic horizons:

1. Clay 0-15 in. 3. _____

2. w. bedrock 15 in + 4. 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Topographic position backslope Aspect NE

Seasonal distribution October-April

Recent weather (last 2 years) (1) drought _____, (2) normal ☒, or (3) wet _____.

Wildlife use, livestock use (intensity and season of allotted use), and recent disturbances:

No grazing during fall and little evidence of grazing from previous year.

Off-site influences on evaluation area:

None

Criteria used to select this particular evaluation area as REPRESENTATIVE (specific info. and factors considered; degree of "representativeness")

N/A evaluated as pasture

Other remarks (continue on back if necessary)

Pond below pasture fed in part by site

Reference: (1) Reference Sheet: _____; Author: Colin McKim; Creation Date: Dec 2010
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					Attribute Rating
					Justification
					Biotic
					Integrity:
				17	Diverse
				15	natives
				14	present
				13	compared
				12	with small
				11	patches of
				9	invasives
				8	
		16			
E-T	M-E	M	S-M	S-S	

B (9 indicators):
Biotic Integrity
Rating: N-S

Evaluation Sheet (Front)

Aerial Photo: _____

Management Unit: Cal Poly Sheep Unit State: CA Office: _____ Range/Ecol. Site Code: _____
(Allotment or pasture)

Ecological Site Name: not available Soil Map Unit/Component Name: 148 Lodo clay loam 15-30% slopes

Observers: Colin McKim Date: 12/13/10

Location (description): pasture 4 on map, upper E pasture on hill

T. _____ R. _____ or 35° 18' 53" N. Lat. Or UTM E _____ m Position by GPS? ☒ Y / ☐ N

Sec. _____ 120° 41' 11" W. Long. N _____ m UTM Zone _____ Datum _____ Photos taken? ☒ Y / ☐ N

Size of evaluation area: 2.29 ha 5.7 acres

Composition (Indicators 10 and 12) based on: _____ Annual Production, _____ Cover Produced During Current Year or ☒ Biomass

Soil/site verification:

Range/Ecol. Site Descr., Soil Surv., and/or Ecol. Ref. Area:

Surface texture clay loam

Depth: very shallow _____, shallow ☒ moderate _____, deep _____

Type and depth of diagnostic horizons:

1. clay loam 0-12 in 3. _____

2. bedrock 12-16 in 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Parent material residuals Slope 15-30% Elevation: 500-570 ft.

Average annual precipitation 24 inches

Evaluation Area:

Surface texture sandy clay loam

Depth: very shallow _____, shallow ☒ moderate _____, deep _____

Type and depth of diagnostic horizons:

1. Scl 0-15 in 3. _____

2. w.b. 15 in+ 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Topographic position SU, SH, BS Aspect NE

Seasonal distribution October-April

Recent weather (last 2 years) (1) drought _____, (2) normal ☒ X, or (3) wet _____

Wildlife use, livestock use (intensity and season of allotted use), and recent disturbances:

No grazing during fall 2010, evidence of grazing of previous season's production present

Off-site influences on evaluation area:

None

Criteria used to select this particular evaluation area as REPRESENTATIVE (specific info. and factors considered; degree of "representativeness")

N/A evaluated by pasture

Other remarks (continue on back if necessary)

Spring in middle of pasture

Reference: (1) Reference Sheet: _____; Author: Colin McKim; Creation Date: Dec 2010

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Interpreting Indicators of Rangeland Health — Technical Reference 1734-6, Version 4

[illegible]

B (9 indicators):
Biotic Integrity
Rating: slight

Evaluation Sheet (Front)

Aerial Photo: _____

Management Unit: Cal Poly Sheep Unit State: CA Office: _____ Range/Ecol. Site Code: _____
(Allotment or pasture)

Ecological Site Name: not available Soil Map Unit/Component Name: 148 Lodo Clay loam 15-30% slopes

Observers: Colin McKim Date: 12/13/10

Location (description): pasture 5 on map, west slope of hill

T. _____ R. _____ or 35°18'47" N. Lat. Or UTM E _____ m Position by GPS? ☒ Y / ☐ N
UTM Zone _____ Datum _____

Sec. _____ 120°41'8" W. Long. N _____ m Photos taken? ☒ Y / ☐ N

Size of evaluation area: 0.982 ha 2.4 acres

Composition (Indicators 10 and 12) based on: _____ Annual Production, _____ Cover Produced During Current Year or ☒ Biomass

Soil/site verification:

Range/Ecol. Site Descr., Soil Surv., and/or Ecol. Ref. Area:

Surface texture clay loam

Depth: very shallow _____, shallow ☒ X, moderate _____, deep _____

Type and depth of diagnostic horizons:

1. clay loam 0-12 in 3. _____

2. bedrock 12-16 in 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Parent material residuum Slope 15-30% Elevation 500 ft.

Average annual precipitation 24 inches

Evaluation Area:

Surface texture clay

Depth: very shallow _____, shallow _____, moderate ☒ X, deep _____

Type and depth of diagnostic horizons:

1. clay 20 in + 3. _____

2. _____ 4. _____

Surf. Efferv.: none _____, v. slight _____, slight _____, strong _____, violent _____

Topographic position TS backslope, SH Aspect SSW

Seasonal distribution October - April

Recent weather (last 2 years) (1) drought _____, (2) normal ☒ X, or (3) wet _____

Wildlife use, livestock use (intensity and season of allotted use), and recent disturbances:

No grazing during fall 2010, little evidence of grazing during 2010. Jackrabbit seen

Off-site influences on evaluation area:

None

Criteria used to select this particular evaluation area as REPRESENTATIVE (specific info. and factors considered; degree of "representativeness")

N/A evaluated by pasture

Other remarks (continue on back if necessary)

adjoins reference area in same fenced pasture

Reference: (1) Reference Sheet: _____; Author: Colin McKim; Creation Date: Dec 2010
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B (9 indicators):
Biotic Integrity
Rating: N-S