

APPENDIX P

Form AD-1006

received
12/14/05 AEB



Natural Resources Conservation Service America's Conservation Agency
1511-B Butte House Rd.
Yuba City, CA 95993
Telephone: 530-674-1461, ext. 3
Fax: 530-674-1480

December 12, 2005

Ryan Lee
Analytical Environmental Services
2021 "N" Street, Suite 200
Sacramento, CA 95814

Dear Mr. Lee.

A completed Farmland Conversion Impact Rating Form AD-1006 for Enterprise Rancheria Project #202527 is enclosed.

Feel free to call us if you have questions.

Sincerely,

A handwritten signature in cursive script that reads "Gail Moffitt".

Gail Moffitt
Soil conservationist

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request 11/9/05	
Name Of Project Enterprise		Federal Agency Involved Bureau of Indian Affairs	
Proposed Land Use Hotel and Casino		County And State Yuba County, California	
PART II (To be completed by NRCS)		Date Request Received By NRCS 11/16/05	
Does the site contain prime, unique, statewide or local important farmland? (If no, the FPPA does not apply -- do not complete additional parts of this form).		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
		Acres Irrigated 85,241	Average Farm Size 295
Major Crop(s) rice, peaches, walnuts	Farmable Land In Govt. Jurisdiction Acres: 96,989 24.0%	Amount Of Farmland As Defined in FPPA Acres: 90,176 22.3%	
Name Of Land Evaluation System Used	Name Of Local Site Assessment System	Date Land Evaluation Returned By NRCS 12/12/05	

PART III (To be completed by Federal Agency)	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	35.7	32.2	34.7	
B. Total Acres To Be Converted Indirectly	4.3	7.8	5.3	
C. Total Acres In Site	40.0	40.0	40.0	0.0

PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0	0	0	
B. Total Acres Statewide And Local Important Farmland	0	0	0	
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	0	0	0	
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	Data Unavailable			

PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)				
	0	23	0	23
	0	23	0	23
	0	23	0	23
	0		0	

PART VI (To be completed by Federal Agency)					
Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))	Maximum Points				
1. Area In Nonurban Use		15	15	15	
2. Perimeter In Nonurban Use		10	10	10	
3. Percent Of Site Being Farmed		20	20	20	
4. Protection Provided By State And Local Government		0	0	0	
5. Distance From Urban Builtup Area		15	15	15	
6. Distance To Urban Support Services		10	10	10	
7. Size Of Present Farm Unit Compared To Average		0	0	0	
8. Creation Of Nonfarmable Farmland		0	0	0	
9. Availability Of Farm Support Services		5	5	5	
10. On-Farm Investments		4	4	4	
11. Effects Of Conversion On Farm Support Services		2	2	2	
12. Compatibility With Existing Agricultural Use		7	7	7	
TOTAL SITE ASSESSMENT POINTS	160	0	88	0	88

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	0	23	0	23
Total Site Assessment (From Part VI above or a local site assessment)	160	0	88	0	88
TOTAL POINTS (Total of above 2 lines)	260	0	111	0	111

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Reason For Selection:

United States Department of Agriculture



Natural Resources Conservation Service
1511-B Butte House Road
Yuba City, California 95993

Phone (530) 674-1461 ext. 3
Fax (530) 674-1480

October 26, 2006

received
Oct. 9, 06 T.A.

Ryan Lee
Analytical Environmental Services
2021 N Street
Sacramento, CA 95814

Re: Enterprise Rancheria, Project #202527

Ryan,

The Farmland Conversion Impact Rating Form for the Enterprise Casino/Hotel Project expansion storage basin on approximately 8.25 acres is enclosed. The soil involved is mapped as 214 San Joaquin Loam, 0 to 1 percent slopes. It is ranked as neither Prime and Unique nor Locally Important Farmland.

Please call us at (530)674-1461, ext. 3, if you need further information.

A handwritten signature in cursive script that reads "Gail Moffitt".

Gail Moffitt
Soil Conservationist

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request 10/2/06	
Name Of Project Enterprise		Federal Agency Involved Bureau of Indian Affairs	
Proposed Land Use Hotel and Casino		County And State Yuba County, California	
PART II (To be completed by NRCS)		Date Request Received By NRCS 10/4/06	
Does the site contain prime, unique, statewide or local important farmland? (If no, the FPPA does not apply -- do not complete additional parts of this form).		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
		Acres Irrigated 85,241	Average Farm Size 295
Major Crop(s) rice, peaches, walnuts	Farmable Land In Govt. Jurisdiction Acres: 96,989 24%	Amount Of Farmland As Defined in FPPA Acres: 90,241 22.3%	
Name Of Land Evaluation System Used	Name Of Local Site Assessment System	Date Land Evaluation Returned By NRCS 10/5/06	

PART III (To be completed by Federal Agency)	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	8.3			
B. Total Acres To Be Converted Indirectly				
C. Total Acres In Site	8.3	0.0	0.0	0.0

PART IV (To be completed by NRCS) Land Evaluation Information	Site A	Site B	Site C	Site D
A. Total Acres Prime And Unique Farmland	0			
B. Total Acres Statewide And Local Important Farmland	0			
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	0			
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value	Data Unavailable			

PART V (To be completed by NRCS) Land Evaluation Criterion Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)	Site A	Site B	Site C	Site D
	0 23	0	0	0

PART VI (To be completed by Federal Agency) Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))	Maximum Points	Site A	Site B	Site C	Site D
1. Area In Nonurban Use		15			
2. Perimeter In Nonurban Use		10			
3. Percent Of Site Being Farmed		20			
4. Protection Provided By State And Local Government		0			
5. Distance From Urban Builtup Area		15			
6. Distance To Urban Support Services		10			
7. Size Of Present Farm Unit Compared To Average		0			
8. Creation Of Nonfarmable Farmland		0			
9. Availability Of Farm Support Services		5			
10. On-Farm Investments		4			
11. Effects Of Conversion On Farm Support Services		2			
12. Compatibility With Existing Agricultural Use		7			
TOTAL SITE ASSESSMENT POINTS	160	0 88	0	0	0

PART VII (To be completed by Federal Agency)	Site A	Site B	Site C	Site D
Relative Value Of Farmland (From Part V)	100	0 23	0	0
Total Site Assessment (From Part VI above or a local site assessment)	160	0 88	0	0
TOTAL POINTS (Total of above 2 lines)	260	0 111	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Reason For Selection:		

United States Department of Agriculture



NATURAL RESOURCES CONSERVATION SERVICE
OROVILLE FIELD OFFICE
150 CHUCK YEAGER WAY, SUITE A
OROVILLE, CA 95965
(530) 534-0112, Extension 3
(530) 533-4936 Fax

Helping People Help the Land

received
OCT. 19, 06 TJA

To whom it may concern:

The attached documents show that the 40 acres of land for the proposed Enterprise Hotel and Casino Project in Butte County, contains the soils 215 Crystalhill – OregonGulch- Craigsaddle rock outcrop complex, and 216 Crystalhill – OregonGulch- Craigsaddle rock outcrop complex. These two classifications of soils have been deemed as non prime, unique or local important farmland.

Casey Moreno

A handwritten signature in black ink, appearing to read "Casey Moreno", written over a horizontal line.

Oroville NRCS
STEP Intern

FARMLAND CONVERSION IMPACT RATING

PART I (To be completed by Federal Agency)		Date Of Land Evaluation Request 11/9/05	
Name Of Project Enterprise		Federal Agency Involved Bureau of Indian Affairs	
Proposed Land Use Hotel and Casino		County And State Butte County, California	
PART II (To be completed by NRCS)		Date Request Received By NRCS	
Does the site contain prime, unique, statewide or local important farmland? (If no, the FPPA does not apply -- do not complete additional parts of this form).		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Major Crop(s)		Acres Irrigated N/A	Average Farm Size
Name Of Land Evaluation System Used		Farmable Land In Govt. Jurisdiction Acres: %	Amount Of Farmland As Defined in FPPA Acres: %
Name Of Local Site Assessment System		Date Land Evaluation Returned By NRCS 10-13-06	

PART III (To be completed by Federal Agency)	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly	5.3			
B. Total Acres To Be Converted Indirectly	34.7			
C. Total Acres In Site	40.0	0.0	0.0	0.0
PART IV (To be completed by NRCS) Land Evaluation Information				
A. Total Acres Prime And Unique Farmland	0			
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted.				
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value				
PART V (To be completed by NRCS) Land Evaluation Criterion				
Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points)	0	0	0	0

PART VI (To be completed by Federal Agency)	Maximum Points				
Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))					
1. Area In Nonurban Use					
2. Perimeter In Nonurban Use					
3. Percent Of Site Being Farmed					
4. Protection Provided By State And Local Government					
5. Distance From Urban Builtup Area					
6. Distance To Urban Support Services					
7. Size Of Present Farm Unit Compared To Average					
8. Creation Of Nonfarmable Farmland					
9. Availability Of Farm Support Services					
10. On-Farm Investments					
11. Effects Of Conversion On Farm Support Services					
12. Compatibility With Existing Agricultural Use					
TOTAL SITE ASSESSMENT POINTS	160	0	0	0	0

PART VII (To be completed by Federal Agency)					
Relative Value Of Farmland (From Part V)	100	0	0	0	0
Total Site Assessment (From Part VI above or a local site assessment)	160	0	0	0	0
TOTAL POINTS (Total of above 2 lines)	260	0	0	0	0

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Reason For Selection:

SOIL SURVEY OF BUTTE AREA, CALIFORNIA, PARTS OF BUTTE AND PLUMAS COUNTIES

Fairland Conversion Impact



SOIL SURVEY OF BUTTE AREA, CALIFORNIA, PARTS OF BUTTE AND PLUMAS COUNTIES

Farmland Conversion Impact

MAP LEGEND

- Soil Map Units
- Cities
- Detailed Counties
- Detailed States
- Interstate Highways
- Roads
- Rails
- Water
- Hydrography
- Oceans
- Escarpment, bedrock
- Escarpment, non-bedrock
- Gully
- Levee
- Slope
- Blowout
- Borrow Pit
- Clay Spot
- Depression, closed
- Eroded Spot
- Gravel Pit
- Gravelly Spot
- Gulley
- Lava Flow
- Landfill
- Marsh or Swamp
- Miscellaneous Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Slide or Slip
- Sinkhole
- Sodic Spot
- Spill Area
- Stony Spot
- Very Stony Spot
- Perennial Water
- Wet Spot

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 10

Soil Survey Area: Butte Area, California, Parts of Butte and
 Plumas Counties

Spatial Version of Data: 1

Soil Map Compilation Scale: 1:24000

Map comprised of aerial images photographed on these dates:
 8/13/1998

The orthophoto or other base map on which the soil lines were compiled and
 digitized probably differs from the background imagery displayed on these maps.
 As a result, some minor shifting of map unit boundaries may be evident.

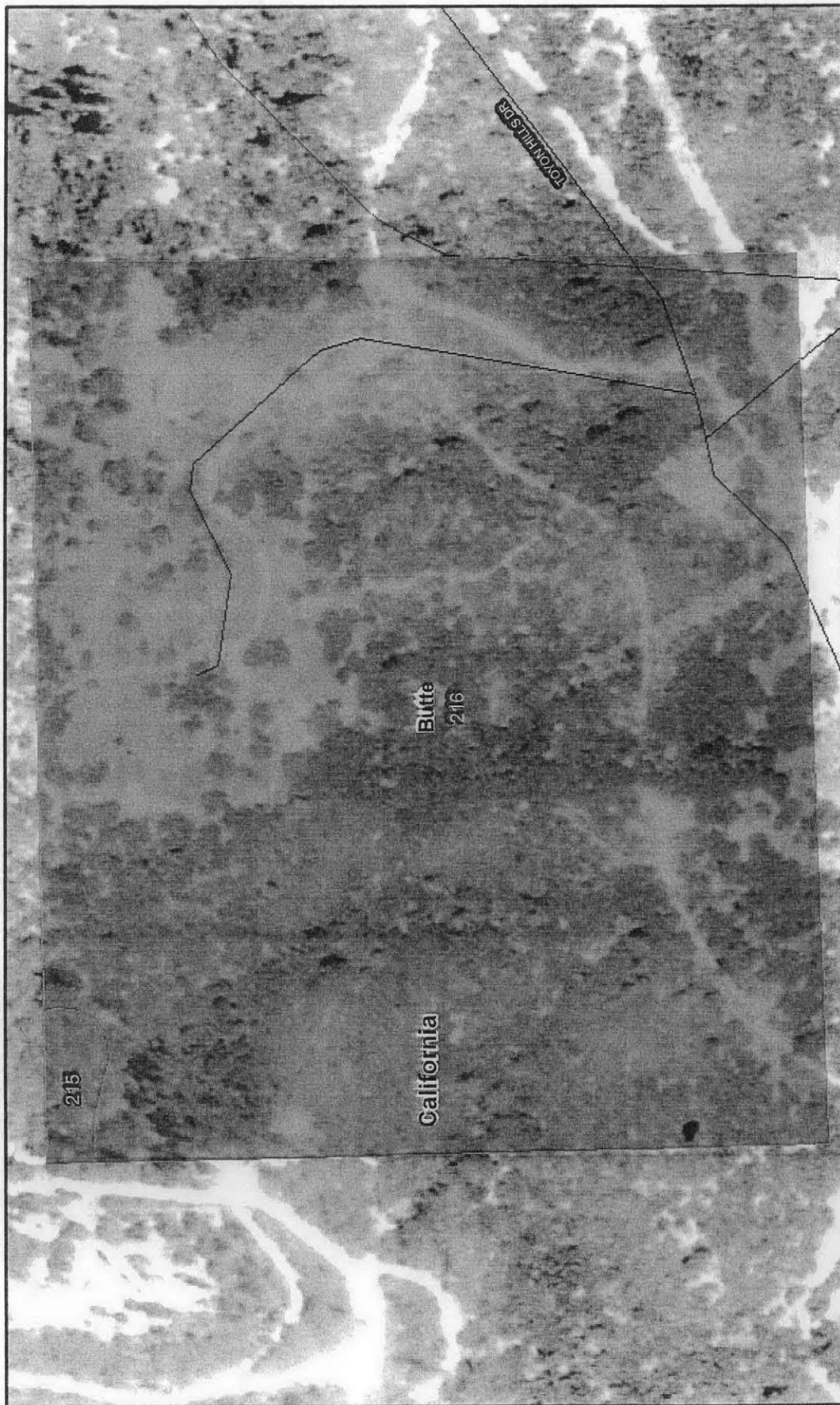
Map Unit Legend Summary

Butte Area, California, Parts of Butte and Plumas Counties

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
215	CRYSTALHILL- OREGONGULCH- CRAIGSADDLE-ROCK OUTCROP COMPLEX, 15 TO 30 PERCENT SLOPES	0.7	1.8
216	CRYSTALHILL- OREGONGULCH- CRAIGSADDLE-ROCK OUTCROP COMPLEX, 30 TO 50 PERCENT SLOPES	40.6	98.2

FARMLAND CLASSIFICATION RATING FOR BUTTE AREA, CALIFORNIA, PARTS OF BUTTE AND PLUMAS COUNTIES

Farmland Suitability



FARMLAND CLASSIFICATION RATING FOR BUTTE AREA, CALIFORNIA, PARTS OF BUTTE AND PLUMAS COUNTIES

Farmland Suitability

MAP LEGEND

Farmland Classification

{No Aggregation Necessary, <}>

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of local importance
- Farmland of unique importance
- Not rated or not available

Soil Map Units

o Cities

Detailed Counties

Detailed States

• Interstate Highways

- Roads

- Rails

E Water

- Hydrography

o Oceans

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 10

Soil Survey Area: Butte Area, California, Parts of Butte and Plumas Counties

Spatial Version of Data: 1
 Date of the growing season
 Soil Map Compilation Scale: 1:24000

Map comprised of aerial images photographed on these dates:
 8/13/1998

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Tables - Farmland Classification

Summary by Map Unit - Butte Area, California, Parts of Butte and Plumas Counties

Soil Survey Area Map Unit Symbol	Map Unit Name	Rating	Total Acres in AOI	Percent of AOI
215	CRYSTALHILL- OREGONGULCH- CRAIGSADDLE-ROCK OUTCROP COMPLEX, 15 TO 30 PERCENT SLOPES	Not prime farmland	0.5	1.2
216	CRYSTALHILL- OREGONGULCH- CRAIGSADDLE-ROCK OUTCROP COMPLEX, 30 TO 50 PERCENT SLOPES	Not prime farmland	39.5	98.8

Description - Farmland Classification

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. Farmland classification identifies the location and extent of the most suitable land for producing food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the Federal Register, Vol. 43, No. 21, January 31, 1978.

Parameter Summary - Farmland Classification

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

***215--CRYSTALHILL-OREGONGULCH-CRAIGSADDLE-ROCK
OUTCROP COMPLEX, 15 TO 30 PERCENT SLOPES

Map Unit Setting

General location: Eastern central Butte County
Major uses: Wildlife habitat, watershed, homesite
development and recreation
Major Land Resource Area: 18
Landscape: Northern Sierra Nevada foothills
Elevation range: 895 to 2000 feet (274 to 610
meters)
Mean annual precipitation: 40 to 55 inches (1016
to 1397 millimeters)
Mean annual air temperature: 55 to 61 degrees F.
(13 to 16 degrees C.)
Frost-free period: 230 to 260 days

Map Unit Composition (soil and non-soil areas):
Crystalhill gravelly coarse sandy loam -- 35
percent
Oregongulch gravelly sandy loam -- 20 percent
Craigsaddle coarse sandy loam -- 20 percent
Rock Outcrop -- 10 percent

Minor Components: 15 percent

CRYSTALHILL GRAVELLY COARSE SANDY LOAM

Slope range: 15 to 30 percent
Geomorphic position: Side slopes on granitic
hills
Parent material: Coarse-loamy colluvium and
residuum weathered from trondhjemite
Observed vegetation: Live oak, California black
oak, whiteleaf manzanita, toyon, buckbrush,
foothill pine, Pacific poison oak, deerbrush,
Pacific madrone and scrub oak. Scattered
ponderosa pine and incense cedar. Douglas-fir in
draws.

Properties and Qualities Affecting the Management of Crystalhill

Surface texture: Slightly decomposed plant
material
Surface area covered by fragments: 0 to 10
percent coarse subangular gravel
Depth range to restrictive feature: Bedrock
(densic)--60 to 80 inches
Shrink-swell Potential: Low (LEP <3)

Hydrologic Properties and Qualities Affecting the
Management of Crystalhill
(based on typical depth to restrictive feature or
60 inches)

Annual flooding frequency: None
Annual ponding frequency: None
Water table (depth to saturation): No water table
observed
Available water capacity: Low (about 5.0 inches)
Natural drainage class: Somewhat excessively
drained
Surface runoff (bare conditions): Low

Interpretive Groups for Crystalhill

Land capability, irrigated: 6e-1
Land capability, nonirrigated: 6e-1
Hydric Soil: No
Hydrologic Soil Group: A

Typical Profile

O1--0 to 2 inches; slightly decomposed plant
material
A--2 to 7 inches; gravelly coarse sandy loam
Bw1--7 to 14 inches; gravelly coarse sandy loam
Bw2--14 to 22 inches; gravelly coarse sandy loam
Bw3--22 to 33 inches; gravelly sandy loam
Bw4--33 to 44 inches; gravelly sandy loam
BC--44 to 66 inches; sandy loam
Cdt--66 inches; bedrock

OREGONGULCH GRAVELLY SANDY LOAM

Slope range: 15 to 30 percent
Geomorphic position: Side slopes on granitic
hills
Parent material: Coarse-loamy colluvium and
residuum weathered from trondhjemite
Observed vegetation: Live oak, California black
oak, whiteleaf manzanita, toyon, buckbrush,
foothill pine, Pacific poison oak, deerbrush,
Pacific madrone and scrub oak. Scattered
ponderosa pine and incense cedar. Douglas-fir in
draws.

Properties and Qualities Affecting the Management of Oregongulch

Surface texture: Slightly decomposed plant
material
Surface area covered by fragments: 5 to 40
percent medium angular gravel
Depth range to restrictive feature: Bedrock
(densic)--20 to 40 inches
Shrink-swell Potential: Low (LEP <3)

Hydrologic Properties and Qualities Affecting the
Management of Oregongulch
(based on typical depth to restrictive feature or
60 inches)

Annual flooding frequency: None
Annual ponding frequency: None
Water table (depth to saturation): No water table
observed
Available water capacity: Very low (about 1.9
inches)
Natural drainage class: Somewhat excessively
drained
Surface runoff (bare conditions): High

Interpretive Groups for Oregongulch

Land capability, irrigated: 7e-1
Land capability, nonirrigated: 7e-1
Hydric Soil: No
Hydrologic Soil Group: B

Typical Profile

Oi--0 to 1 inches; slightly decomposed plant material

A--1 to 4 inches; gravelly sandy loam

Bw1--4 to 7 inches; gravelly sandy loam

Bw2--7 to 13 inches; gravelly sandy loam

Bw3--13 to 18 inches; gravelly sandy loam

C--18 to 24 inches; very gravelly sandy loam

Cdt--24 to 60 inches; bedrock

CRAIGSADDLE COARSE SANDY LOAM

Slope range: 15 to 30 percent

Geomorphic position: Side slopes on granitic hills

Parent material: Fine-loamy colluvium and residuum weathered from trondhjemite

Observed vegetation: Live oak, California black oak, whiteleaf manzanita, toyon, buckbrush, foothill pine, Pacific poison oak, deerbrush, Pacific madrone and scrub oak. Scattered ponderosa pine and incense cedar. Douglas-fir in draws.

Properties and Qualities Affecting the Management of Craigsaddle

Surface texture: Coarse sandy loam

Surface area covered by fragments: 0 to 10 percent coarse subangular gravel

Depth range to restrictive feature: Bedrock (densic)--40 to 60 inches

Shrink-swell Potential: Low (LEP <3)

Hydrologic Properties and Qualities Affecting the Management of Craigsaddle

(based on typical depth to restrictive feature or 60 inches)

Annual flooding frequency: None

Annual ponding frequency: None

Water table (depth to saturation): No water table observed

Available water capacity: Moderate (about 6.4 inches)

Natural drainage class: Well drained

Surface runoff (bare conditions): Low

Interpretive Groups for Craigsaddle

Land capability, irrigated: 6e-1

Land capability, nonirrigated: 6e-1

Hydric Soil: No

Hydrologic Soil Group: B

Typical Profile

A--0 to 5 inches; coarse sandy loam

Bw1--5 to 11 inches; sandy loam

Bw2--11 to 17 inches; sandy loam

Bw3--17 to 21 inches; sandy loam

Bt1--21 to 31 inches; sandy loam

Bt2--31 to 51 inches; sandy loam

Bct--51 to 58 inches; gravelly sandy loam

Cdt--58 to 80 inches; bedrock

ROCK OUTCROP

Slope range: 15 to 30 percent

Geomorphic position: Side slopes on granitic hills

Surface runoff (bare conditions): Very high

Rock Outcrop consists of exposures of bedrock without soil

Minor Components in Map Unit 215

HAPLOXERALS FINE and similar soils

Composition: 5 percent

Slope range: 15 to 30 percent

Geomorphic position: Side slopes on granitic hills

Hydric Soil: No

LAMELLIC HAPLOXEREPTS COARSE-LOAMY, BEDROCK (DENSIC) GREATER THAN 60 INCHES and similar soils

Composition: 5 percent

Slope range: 15 to 30 percent

Geomorphic position: Side slopes on granitic hills

Hydric Soil: No

UNNAMED COARSE-LOAMY SOILS THAT ARE 10 TO 20 INCHES DEEP TO BEDROCK

Composition: 3 percent

Slope range: 15 to 30 percent

Geomorphic position: Side slopes on granitic hills

Hydric Soil: No

UNNAMED FINE-LOAMY SOILS THAT ARE 20 TO 40 INCHES DEEP TO BEDROCK (DENSIC)

Composition: 2 percent

Slope range: 15 to 30 percent

Geomorphic position: Side slopes on granitic hills

Hydric Soil: No

***216--CRYSTALHILL-OREGONGULCH-CRAIGSADDLE-ROCK OUTCROP COMPLEX, 30 TO 50 PERCENT SLOPES

Map Unit Setting

General location: Eastern central Butte County
Major uses: Wildlife habitat, watershed and recreation

Major Land Resource Area: 18

Landscape: Northern Sierra Nevada foothills

Elevation range: 895 to 2000 feet (274 to 610 meters)

Mean annual precipitation: 40 to 55 inches (1016 to 1397 millimeters)

Mean annual air temperature: 55 to 61 degrees F. (13 to 16 degrees C.)

Frost-free period: 230 to 260 days

Map Unit Composition (soil and non-soil areas):

Crystalhill gravelly coarse sandy loam -- 35 percent
Oregongulch gravelly sandy loam -- 20 percent
Craigsaddle coarse sandy loam -- 20 percent
Rock Outcrop -- 10 percent

Minor Components: 15 percent

CRYSTALHILL GRAVELLY COARSE SANDY LOAM

Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Parent material: Coarse-loamy colluvium and residuum weathered from trondhjemite
Observed vegetation: Live oak, California black oak, whiteleaf manzanita, toyon, buckbrush, foothill pine, Pacific poison oak, deerbrush, Pacific madrone and scrub oak. Scattered ponderosa pine and incense cedar. Douglas-fir in draws.

Properties and Qualities Affecting the Management of Crystalhill

Surface texture: Slightly decomposed plant material
Surface area covered by fragments: 0 to 10 percent coarse subangular gravel
Depth range to restrictive feature: Bedrock (densic)--60 to 80 inches
Shrink-swell Potential: Low (LEP <3)

Hydrologic Properties and Qualities Affecting the Management of Crystalhill
(based on typical depth to restrictive feature or 60 inches)

Annual flooding frequency: None
Annual ponding frequency: None
Water table (depth to saturation): No water table observed
Available water capacity: Low (about 5.0 inches)
Natural drainage class: Somewhat excessively drained
Surface runoff (bare conditions): Low

Interpretive Groups for Crystalhill

Land capability, irrigated: 7e-1
Land capability, nonirrigated: 7e-1
Hydric Soil: No
Hydrologic Soil Group: A

Typical Profile

Oi--0 to 2 inches; slightly decomposed plant material
A--2 to 7 inches; gravelly coarse sandy loam
Bw1--7 to 14 inches; gravelly coarse sandy loam
Bw2--14 to 22 inches; gravelly coarse sandy loam
Bw3--22 to 33 inches; gravelly sandy loam
Bw4--33 to 44 inches; gravelly sandy loam
BC--44 to 66 inches; sandy loam
Cdt--66 inches; bedrock

OREGONGULCH GRAVELLY SANDY LOAM

Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Parent material: Coarse-loamy colluvium and residuum weathered from trondhjemite
Observed vegetation: Live oak, California black oak, whiteleaf manzanita, toyon, buckbrush, foothill pine, Pacific poison oak, deerbrush, Pacific madrone and scrub oak. Scattered ponderosa pine and incense cedar. Douglas-fir in draws.

Properties and Qualities Affecting the Management of Oregongulch

Surface texture: Slightly decomposed plant material
Surface area covered by fragments: 5 to 40 percent medium angular gravel
Depth range to restrictive feature: Bedrock (densic)--20 to 40 inches
Shrink-swell Potential: Low (LEP <3)

Hydrologic Properties and Qualities Affecting the Management of Oregongulch
(based on typical depth to restrictive feature or 60 inches)

Annual flooding frequency: None
Annual ponding frequency: None
Water table (depth to saturation): No water table observed
Available water capacity: Very low (about 1.9 inches)
Natural drainage class: Somewhat excessively drained
Surface runoff (bare conditions): High

Interpretive Groups for Oregongulch

Land capability, irrigated: 7e-1
Land capability, nonirrigated: 7e-1
Hydric Soil: No
Hydrologic Soil Group: B

Typical Profile

Oi--0 to 1 inches; slightly decomposed plant material
A--1 to 4 inches; gravelly sandy loam
Bw1--4 to 7 inches; gravelly sandy loam
Bw2--7 to 13 inches; gravelly sandy loam
Bw3--13 to 18 inches; gravelly sandy loam
C--18 to 24 inches; very gravelly sandy loam
Cdt--24 to 60 inches; bedrock

CRAIGSADDLE COARSE SANDY LOAM

Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Parent material: Fine-loamy colluvium and residuum weathered from trondhjemite
Observed vegetation: Live oak, California black oak, whiteleaf manzanita, toyon, buckbrush,

foothill pine, Pacific poison oak, deerbrush, Pacific madrone and scrub oak. Scattered ponderosa pine and incense cedar. Douglas-fir in draws.

Properties and Qualities Affecting the Management of Craigsaddle

Surface texture: Coarse sandy loam
Surface area covered by fragments: 0 to 10 percent coarse subangular gravel
Depth range to restrictive feature: Bedrock (densic)--40 to 60 inches
Shrink-swell Potential: Low (LEP <3)

Hydrologic Properties and Qualities Affecting the Management of Craigsaddle
(based on typical depth to restrictive feature or 60 inches)

Annual flooding frequency: None
Annual ponding frequency: None
Water table (depth to saturation): No water table observed
Available water capacity: Moderate (about 6.4 inches)
Natural drainage class: Well drained
Surface runoff (bare conditions): Low

Interpretive Groups for Craigsaddle

Land capability, irrigated: 7e-1
Land capability, nonirrigated: 7e-1
Hydric Soil: No
Hydrologic Soil Group: B

Typical Profile

A--0 to 5 inches; coarse sandy loam
Bw1--5 to 11 inches; sandy loam
Bw2--11 to 17 inches; sandy loam
Bw3--17 to 21 inches; sandy loam
Bt1--21 to 31 inches; sandy loam
Bt2--31 to 51 inches; sandy loam
BCt--51 to 58 inches; gravelly sandy loam
Cdt--58 to 80 inches; bedrock

ROCK OUTCROP

Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Surface runoff (bare conditions): Very high
Rock Outcrop consists of exposures of bedrock without soil

Minor Components in Map Unit 216

HAPLOXERALFS FINE and similar soils
Composition: 5 percent
Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Hydric Soil: No

LAMELLIC HAPLOXEREPTS COARSE-LOAMY, BEDROCK (DENSIC) GREATER THAN 60 INCHES and similar soil
Composition: 5 percent
Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Hydric Soil: No

UNNAMED COARSE-LOAMY SOILS THAT ARE GREATER THAN 60 INCHES DEEP TO BEDROCK
Composition: 3 percent
Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Hydric Soil: No

UNNAMED COARSE-LOAMY SOILS THAT ARE 20 TO 40 INCHES DEEP TO BEDROCK
Composition: 2 percent
Slope range: 30 to 50 percent
Geomorphic position: Side slopes on granitic hills
Hydric Soil: No

***217--CRYSTALHILL-OREGONGULCH-CRAIGSADDLE-ROCK OUTCROP COMPLEX, 50 TO 70 PERCENT SLOPES

Map Unit Setting

General location: Eastern central Butte County
Major uses: Wildlife habitat, watershed and recreation
Major Land Resource Area: 18
Landscape: Northern Sierra Nevada foothills
Elevation range: 1200 to 2000 feet (366 to 610 meters)
Mean annual precipitation: 40 to 55 inches (1016 to 1397 millimeters)
Mean annual air temperature: 55 to 61 degrees F. (13 to 16 degrees C.)
Frost-free period: 230 to 260 days

Map Unit Composition (soil and non-soil areas):
Crystalhill gravelly coarse sandy loam -- 35 percent
Oregongulch gravelly sandy loam -- 20 percent
Craigsaddle coarse sandy loam -- 20 percent
Rock Outcrop -- 10 percent

Minor Components: 15 percent

CRYSTALHILL GRAVELLY COARSE SANDY LOAM

Slope range: 50 to 70 percent
Geomorphic position: Side slopes on granitic hills
Parent material: Coarse-loamy colluvium derived from trondhjemite
Observed vegetation: Live oak, California black oak, whiteleaf manzanita, toyon, buckbrush, foothill pine, Pacific poison oak, deerbrush, Pacific madrone and scrub oak. Scattered