LESA ASSESSMENT IRIS SOLAR FARM

IRIS SOLAR FARM (SE/4 Section 6 (portion), T17S, R14E and S/2 & NE/4 Section 7, T17S, R14E, SBB&M)

IMPERIAL COUNTY, CALIFORNIA

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Prepared for:

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LAND EVALUATION AND SITE ASSESSMENT MODEL

IRIS SOLAR FARM (SE/4 Section 6 (portion), T17S, R14E and S/2 & NE/4 Section 7, T17S, R14E, SBB&M) IMPERIAL COUNTY, CALIFORNIA

The Land Evaluation and Site Assessment (LESA) model is an approach for rating the relative quality of land resources based upon specific measurable features. The LESA model was first developed by the federal Natural Resources Conservation Service (NRCS) in 1981. It was subsequently adapted in 1990 by the California Department of Conservation to evaluate land use decisions that affect the conversion of agriculture lands in California. The formulation of the California LESA Model is intended to provide lead agencies under the California Environmental Quality Act (CEQA) with an optional methodology to ensure that significant effects on the environment of agricultural land conversions are quantitatively and consistently considered in the environmental review process.

For determining the potential CEQA significance resulting from the conversion of agricultural lands to some other purpose, the California Agricultural LESA Model has developed Scoring Thresholds which are used to compare the Final LESA Score and the Weighted Factor Scores for the Project with suggested Scoring Decisions. These LESA Scores do not take into consideration any proposed mitigation measures or other factors that might affect a lead agency's determination of the significance of the agricultural lands conversion impact under CEQA.

The information provided on the following pages present documentation of the LESA assessment prepared using the California Agricultural LESA Model for the Iris Solar Farm. The proposed Iris Solar Farm would be located about four miles west of the city of Calexico, California, on approximately 520 acres of privately owned land on APN 059-050-002-000, APN 059-050-003-000 and APN 059-120-001-000 (Figure 1 and Figure 2). APN 059-050-002-000, APN 059-050-003-000 and APN 059-120-001-000 are bounded on the north by the New River; bounded on the south by California State Highway 98; bounded on the west by Ferrell Road; and bounded on the east by Weed Road.

LESA ASSESSMENT

85JP 8ME, LLC IRIS SOLAR FARM IMPERIAL COUNTY, CALIFORNIA

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Appendix A: IRIS SOLAR FARM SOILS DETAILS



Figure 1: Location Map



Figure 2: Iris Solar Farm on an Aerial Photographic Base 2

	Land Evaluation Worksheet								
Α	В	С	D	E	F	G	Н		
Soil Map Unit*	Project Acres	Proportion of	LCC**	LCC Rating	LCC Score	Storie	Storie Index		
Son Map Onit	Froject Acres	Project Area	(irrigated)	(irrigated)***	(C x E)	Index**	Score (C x G)		
102	0.6	0.001	VIII	0	0.00	72	0.08		
109	10.9	0.021	lls	80	1.67	72	1.50		
110	20.1	0.039	llw	80	3.10	42	1.63		
114	205.4	0.395	IIIw	60	23.68	72	28.41		
115	266.1	0.511	IIIw	60	30.67	42	21.47		
122	8.4	0.016	IIIw	60	0.97	72	1.17		
144	9.1	0.018	llw	80	1.40	72	1.26		
Totals	520.6	1.00		LCC Total Score	61	Storie Index Total Score	56		

Total Project	520.6
Area (acres)=	320.0

^{*} The Soil Map Unit information and acreage were determined from the current soil survey information available at the USDA Natural Resources Conservation Service website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (Figure 3).

Table 1: Land Capability Classification (LCC) – Storie Index Rating

^{**} The Land Capability Classification and Storie Index information was obtained from the current soil survey information available at the USDA Natural Resources Conservation Service website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (Appendix A).

^{***} The LCC Rating for irrigated land was determined from the LCC Point Rating Table 2 from the LESA Instruction Manual (California Department of Conservation 1997).



Figure 3: Iris Solar Farm Soils Map

	Site Assessment Worksheet 1					
	Project Size Score*					
	I	J	K			
	LCC Class I-II	LCC Class III	LCC Class IV-VIII			
Project Acres per LCC Class			1			
Project Acres per LCC Class	11					
Project Acres per LCC Class	20					
Project Acres per LCC Class		205				
Project Acres per LCC Class		266				
Project Acres per LCC Class		8				
Project Acres per LCC Class	9					
Total Project Acres per LCC Class	40	480	1			
* Project Size Scores	80	100	0			
Highest Project Size Score	100					

^{*} Project Size Score was determined from the Project Size Scoring Table from the LESA Instruction Manual (California Department of Conservation 1997).

Table 2: Project Size Rating

	Site Assessment Worksheet 2								
	Water Resources Availability								
Α	В	D	E						
Project Portion	Water Source	Proportion of Project Area	Water Availability Score*	Weighted Availability Score (C x D)					
1	Irrigation District Only	1.0	100	100					
2									
3									
4									
5									
6									
# 7 7	A 31 1 137 0	(Must Sum to 1.0)	Resource Score	100					

^{*} The Water Availability Score was determined using the Water Resources Availability Scoring Table from the LESA Instruction Manual (California Department of Conservation 1997).

Table 3: Water Resources Availabilty Rating

Site Assessment Worksheet 3								
Surrou	inding Agric	ultural Lan	d & Surroun	ding Protec	ted Resourc	e Land		
Α	В	С	D	E	F	G		
	Zon	e of Influenc	e*		Surrounding	Surrounding		
Total Acres	Acres in Agriculture	Acres of Protected Resource Land	Percent in Agriculture (B/A)	Percent Protected Resource Land (C/A)	Agricultural Land Score (From LESA Manual Table 6)	Protected Resource Land Score (From LESA Manual Table 7)**		
2315.6	2038	0	88.0	0.0	90	0		

^{*} In conformance with the instructions in the LESA Instruction Manual (California Department of Conservation 1997), the Zone of Influence was determined by drawing the smallest rectangle that could completely encompass the entire Project Area. A second rectangle was then drawn which extended one quarter mile on all sides beyond the first rectangle. The Zone of Influence is represented by the entire area of all parcels with any lands inside the outer rectangle, less the area of the proposed project (Figure 4).

^{**} The LESA Instruction Manual (California Department of Conservation 1997) describes *Protected Resource Land* as those lands with long term use restrictions that are compatible with or supportive of agricultural uses of land. Included among them are the following: Williamson Act contracted lands; Publicly owned lands maintained as park, forest, or watershed resources; and Lands with agricultural, wildlife habitat, open space, or other natural resource easements that restrict the conversion of such land to urban or industrial uses.

Surrounding Parcels***	Acres	Protected Resource Land?	Percent Protected Resource Land	Acres in Protected Land	Agricultural Land?	Percent Agricultural Land	Acres of Agriculture
052-180-042	204.0	N	0	0	Y	96	195.8
052-180-043	178.7	N	0	0	Y	96	171.5
052-180-050	46.1	N	0	0	Y	100	46.1
052-180-051	89.4	N	0	0	Y	100	89.4
052-210-035	14.6	N	0	0	Y	100	14.6
052-210-036	364.0	N	0	0	Y	100	364.0
059-040-006	165.6	N	0	0	Y	50	82.8
059-040-007	15.3	N	0	0	Y	98	15.0
059-040-008	60.5	N	0	0	Y	15	9.1
059-040-009	18.1	N	0	0	N	0	0.0
059-040-010	38.8	N	0	0	N	0	0.0
059-040-011	10.0	N	0	0	Y	32	3.2
059-040-012	35.1	N	0	0	N	0	0.0
059-040-013	128.4	N	0	0	Υ	85	109.2
059-040-014	0.6	N	0	0	N	0	0.0
059-050-001	163.1	N	0	0	Y	100	163.1
059-060-006	163.6	N	0	0	Υ	95	155.4
059-060-007	163.2	N	0	0	Υ	100	163.2
059-110-006	134.2	N	0	0	Υ	99	132.8
059-120-002	78.7	N	0	0	Y	100	78.7
059-120-003	82.1	N	0	0	Υ	100	82.1
059-120-004	161.6	N	0	0	Y	100	161.6
Total	2315.6		Total	0		Total	2038

^{**}The Imperial County Assessors website was accessed to identify the surrounding parcel numbers (http://imperialcounty.net/Assessor/index.html). The percentage of agriculture was determined from a map overlay used to estimate the proportion of land in agriculture and the California Department of Conservation Important Farmland Map Series.

Table 4: Surrounding Agricultural & Protected Resource Land Rating

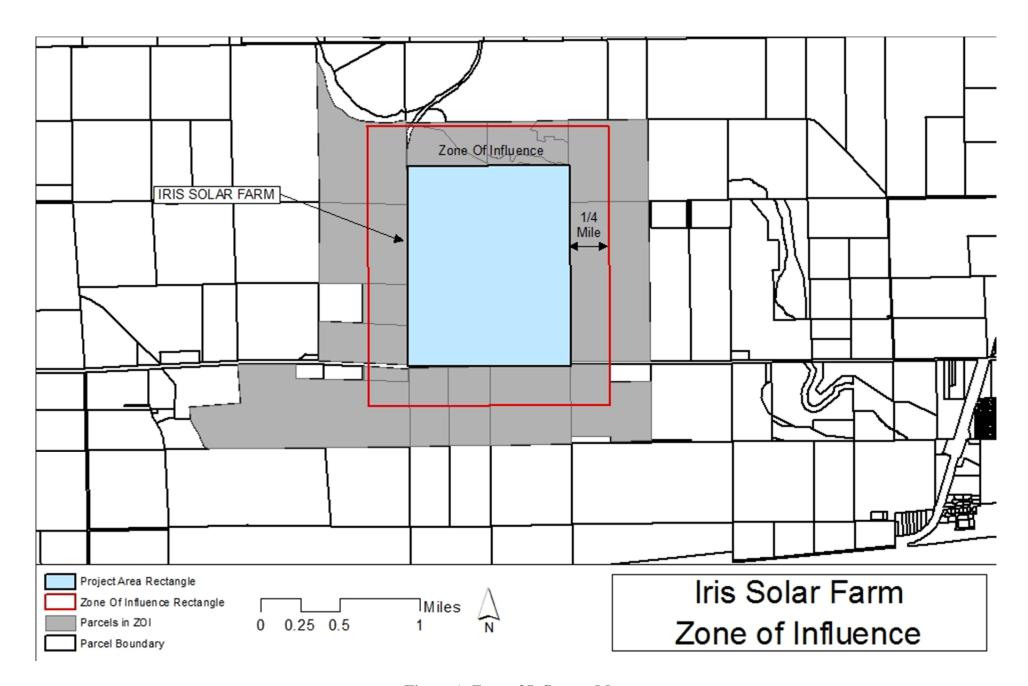


Figure 4: Zone of Influence Map

Final LESA	Final LESA Score Sheet					California LESA Model Scoring Thresholds		
	Factor Scores	Factor Weight	Weighted Factor Scores		Total LESA Score	Scoring Decision		
LE Factors		•						
Land Capability Classification	61.48	0.25	15.37		0 to 39 Points	Not Considered Significant		
Storie Index	55.51	0.25	13.88		0 10 39 1 011113	Thot Considered Significant		
LE subtotal		0.50	29.25					
SA Factors		•			40 to 59 Points	Considered Significant only if LE and SA subscores		
Project Size	100	0.15	15.00		40 10 39 1 011113	are each greater than or equal to 20 points		
Water Resource Availability	100	0.15	15.00					
Surrounding Agricultural Land	90	0.15	13.50		60 to 79 Points	Considered Significant <u>unless</u> either LE <u>or</u> SA		
Protected Resource Land	0	0.05	0.00		00 10 79 1 011113	subscore is less than 20 points		
SA Subtotal		0.50	43.50					
		Total LESA Score	72.75		80 to 100 Points	Considered Significant		

Table 5: Final LESA Score



102—BADLAND

Map Unit Setting

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Badland: 85 percent

Minor components: 8 percent

Description of Badland

Setting

Parent material: Alluvium derived from mixed sources

Properties and qualities

Slope: 30 to 75 percent

Depth to restrictive feature: 0 to 4 inches to paralithic bedrock

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8e

Hydrologic Soil Group: D

Minor Components

Imperial

Percent of map unit: 2 percent

Holtville

Percent of map unit: 2 percent

Meloland

Percent of map unit: 2 percent

Indio

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

109—HOLTVILLE SILTY CLAY

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Holtville and similar soils: 85 percent Minor components: 15 percent

Description of Holtville

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 10.0

Available water capacity: Moderate (about 7.6 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability classification (irrigated): 2s

Land capability (nonirrigated): 7s

Hydrologic Soil Group: C

Typical profile

0 to 17 inches: Silty clay 17 to 24 inches: Clay 24 to 35 inches: Silt loam

35 to 60 inches: Loamy very fine sand

Minor Components

Glenbar

Percent of map unit: 5 percent



Imperial

Percent of map unit: 5 percent

Indio

Percent of map unit: 3 percent

Vint

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

110—HOLTVILLE SILTY CLAY, WET

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Holtville, wet, and similar soils: 85 percent

Minor components: 15 percent

Description of Holtville, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 10.0

Available water capacity: Moderate (about 7.6 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and drained

Land capability classification (irrigated): 2w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: C

Typical profile

0 to 17 inches: Silty clay 17 to 24 inches: Clay 24 to 35 inches: Silt loam

35 to 60 inches: Loamy very fine sand

Minor Components

Glenbar

Percent of map unit: 5 percent



Imperial

Percent of map unit: 5 percent

Indio

Percent of map unit: 3 percent

Vint

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

114—IMPERIAL SILTY CLAY, WET

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Imperial, wet, and similar soils: 85 percent

Minor components: 15 percent

Description of Imperial, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Clayey alluvium derived from mixed sources and/or

clayey lacustrine deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0

mmhos/cm)

Sodium adsorption ratio, maximum: 20.0

Available water capacity: Moderate (about 8.3 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: C

Typical profile

0 to 12 inches: Silty clay 12 to 60 inches: Silty clay loam

Minor Components

Glenbar

Percent of map unit: 4 percent



Meloland

Percent of map unit: 4 percent

Holtville

Percent of map unit: 4 percent

Niland

Percent of map unit: 3 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

115—IMPERIAL-GLENBAR SILTY CLAY LOAMS, WET, 0 TO 2 PERCENT SLOPES

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Glenbar, wet, and similar soils: 40 percent Imperial, wet, and similar soils: 40 percent

Minor components: 20 percent

Description of Imperial, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Clayey alluvium derived from mixed sources and/or

clayey lacustrine deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0

mmhos/cm)

Sodium adsorption ratio, maximum: 20.0

Available water capacity: Moderate (about 8.6 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: C

Typical profile

0 to 12 inches: Silty clay loam 12 to 60 inches: Silty clay loam



Description of Glenbar, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from mixed

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Nonsaline to slightly saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 15.0

Available water capacity: High (about 10.8 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: B

Typical profile

0 to 13 inches: Silty clay loam 13 to 60 inches: Clay loam

Minor Components

Holtville

Percent of map unit: 10 percent

Meloland

Percent of map unit: 10 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

122—MELOLAND VERY FINE SANDY LOAM, WET

Map Unit Setting

Elevation: -230 to 200 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Meloland, wet, and similar soils: 85 percent

Minor components: 15 percent

Description of Meloland, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from mixed sources and/or eolian

deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Slightly saline to moderately saline (8.0 to 16.0

mmhos/cm)

Sodium adsorption ratio, maximum: 13.0

Available water capacity: Moderate (about 7.8 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and drained

Land capability classification (irrigated): 3w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: C

Typical profile

0 to 12 inches: Very fine sandy loam

12 to 26 inches: Stratified loamy fine sand to silt loam

26 to 71 inches: Clay

Minor Components

Imperial

Percent of map unit: 3 percent



Indio

Percent of map unit: 3 percent

Holtville

Percent of map unit: 3 percent

Glenbar

Percent of map unit: 3 percent

Vint

Percent of map unit: 3 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

144—VINT AND INDIO VERY FINE SANDY LOAMS, WET

Map Unit Setting

Elevation: -230 to 300 feet

Mean annual precipitation: 0 to 3 inches

Mean annual air temperature: 72 to 75 degrees F

Frost-free period: 300 to 350 days

Map Unit Composition

Vint, wet, and similar soils: 50 percent Indio, wet, and similar soils: 40 percent

Minor components: 10 percent

Description of Vint, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from mixed sources and/or eolian

deposits derived from mixed sources

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0

mmhos/cm)

Sodium adsorption ratio, maximum: 10.0

Available water capacity: Moderate (about 6.8 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and drained

Land capability classification (irrigated): 2w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: B

Typical profile

0 to 10 inches: Very fine sandy loam 10 to 40 inches: Loamy fine sand

40 to 60 inches: Silty clay

Description of Indio, Wet

Setting

Landform: Basin floors

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium and/or eolian deposits derived from mixed

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Maximum salinity: Very slightly saline to slightly saline (4.0 to 8.0

mmhos/cm)

Sodium adsorption ratio, maximum: 10.0

Available water capacity: Moderate (about 8.3 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and drained

Land capability classification (irrigated): 2w

Land capability (nonirrigated): 7w

Hydrologic Soil Group: B

Typical profile

0 to 12 inches: Very fine sandy loam

12 to 40 inches: Stratified loamy very fine sand to silt loam

40 to 60 inches: Silty clay

Minor Components

Rositas

Percent of map unit: 5 percent

Meloland

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area

California Revised Storie Index Rating (CA)

The Storie Index is a soil rating based on soil properties that govern a soil's potential for cultivated agriculture in California.

The Storie Index assesses the productivity of a soil from the following four characteristics: Factor A, degree of soil profile development; factor B, texture of the surface layer; factor C, slope; and factor X, manageable features, including drainage, microrelief, fertility, acidity, erosion, and salt content. A score ranging from 0 to 100 percent is determined for each factor, and the scores are mukltiplied together to derive an index rating.

For simplification, Storie Index ratings have been combined into six grades classes as follows: Grade 1 (excellent), 100 to 80; grade 2 (good), 79 to 60; grade 3 (fair), 59 to 40; grade 4 (poor), 39 to 20; grade 5 (very poor), 19 to 10; and grade 6 (nonagricultural), less than 10.

Report—California Revised Storie Index Rating (CA)

The Storie Index is a soil rating based on soil properties that govern a soil map unit component's potential for cultivated agriculture. [Absence of an entry indicates that a Storie Index rating is not applicable or was not estimated]. For simplification, Storie Index ratings have been combined into six grades as follows: Grade 1 (Excellent): Soils that rate between 80 and 100 and which are suitable for a wide range of crops. Grade 2 (Good) Soils that rate between 60 and 79 and which are suitable for a wide range of crops. Grade 3 (Fair): Soils that range between 40 and 59. Soils in this grade may give good results with certain specialized crops. Grade 4 (Poor): Soils that rate between 20 and 39 and which have a narrow range in their agricultural potential. Grade 5 (Very Poor): Soil that rate between 10 and 19 and are of very limited agricultural use except for pasture because of adverse soil conditions. Grade 6 (Nonagricultural): Soils that rate less than 10. [The numbers in the "Limiting feature value" column range from 0.01 to 1.00. Soils with a smaller the value have a lower potential for cultivated agriculture. The table shows each of the sub-factors used to generate the Storie Index rating for each soil component].

California Revised Storie Index Rating (CA)– Imperial County, California, Imperial Valley Area							
Map symbol and soil name	Pct. of						
	map unit	Storie index rating	Storie index grade and limiting features	Limiting feature value			
102—BADLAND							
Badland	85		Not Rated				

Map symbol and soil name	Pct. of	California Revised Storie Index (CA)				
map cymbol and con hame	map unit	Storie index rating	Storie index grade and limiting features	Limiting feature value		
109—HOLTVILLE SILTY CLAY						
Holtville	85	50	Grade Three - Fair			
			Rated Soil Order	1.00		
			Profile Group	1.00		
			Wetness, flooding, ponding, drainage, erosion	1.00		
			Nearly level to gently sloping	0.98		
			Toxicity	0.85		
110—HOLTVILLE SILTY CLAY, WET						
Holtville, wet	85	45	Grade Three - Fair			
			Rated Soil Order	1.00		
			Profile Group	1.00		
			Nearly level to gently sloping	0.98		
			Wetness, flooding, ponding, drainage, erosion	0.90		
			Toxicity	0.85		
114—IMPERIAL SILTY CLAY, WET						
Imperial, wet	85	42	Grade Three - Fair			
			Rated Soil Order	1.00		
			Profile Group	1.00		
			Nearly level to gently sloping	0.98		
			Wetness, flooding, ponding, drainage, erosion	0.90		
			Toxicity	0.80		

California Revised Storie In	dex Rating	(CA)- Imperial County, C	alifornia, Imperial Valley Are	a		
Map symbol and soil name	Pct. of	California Revised Storie Index (CA)				
	map unit	Storie index rating	Storie index grade and limiting features	Limiting feature value		
115—IMPERIAL-GLENBAR SILTY CLAY LOAMS, WET, 0 TO 2 PERCENT SLOPES						
Glenbar, wet	40	72	Grade Two - Good			
			Rated Soil Order	1.00		
			Profile Group	1.00		
			Nearly level to gently sloping	0.98		
			USDA Texture	0.95		
			Wetness, flooding, ponding, drainage, erosion	0.90		
Imperial, wet	40	67	Grade Two - Good			
			Rated Soil Order	1.00		
			Profile Group	1.00		
			Nearly level to gently sloping	0.98		
			USDA Texture	0.95		
			Wetness, flooding, ponding, drainage, erosion	0.90		
122—MELOLAND VERY FINE SANDY LOAM, WET						
Meloland, wet	85	44	Grade Three - Fair			
			USDA Texture	1.00		
			Rated Soil Order	1.00		
			Profile Group	1.00		
			Nearly level to gently sloping	0.98		
			Wetness, flooding, ponding, drainage, erosion	0.90		

California Revised Storie Index Rating (CA)– Imperial County, California, Imperial Valley Area							
Map symbol and soil name	Pct. of	California Revised Storie Index (CA)					
	map unit	Storie index rating	Storie index grade and limiting features	Limiting feature value			
144—VINT AND INDIO VERY FINE SANDY LOAMS, WET							
Vint, wet	50	71	Grade Two - Good				
			USDA Texture	1.00			
			Rated Soil Order	1.00			
			Profile Group	1.00			
			Nearly level to gently sloping	0.98			
			Wetness, flooding, ponding, drainage, erosion	0.90			
Indio, wet	40	71	Grade Two - Good				
			USDA Texture	1.00			
			Rated Soil Order	1.00			
			Profile Group	1.00			
			Nearly level to gently sloping	0.98			
			Wetness, flooding, ponding, drainage, erosion	0.90			

Data Source Information

Soil Survey Area: Imperial County, California, Imperial Valley Area