

Appendix C. Yolo Basin Soil Types and Soil Characteristics

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Map Code	Soil Series	Soil Taxonomy	Landform	Hydric Soil	Historical Vegetation ^a	Surface Texture ^b	Subsurface Texture ^b	Drainage	Permeability	Rooting Depth (inches)	WHC ^c	P ^{prime} Farmland ^d	LCC ^e	Soil Fertility	Surface pH ^f	Saline/Sodic
BrA	Brentwood	TXOept	alluvial fan	N	valley oak	sicl/sic	sicl/c	well	mod slow	>60	12	P	I-1	high	n/mod alk	
Ca	Capay	TCXert	high basin rim	Yes	grass/sw	sic	sic/sicl	mod well	slow	>60	7.3	P	IIs-5	high	n/mod alk	
Cc	Capay	TCXert	high basin rim	Yes	grass/sw	sl/sic	sic/sicl	flooding	slow	>60	7.3		IVw-3	high	n/mod alk	
Ch	Clear Lake	TPXert	basin	Yes	marsh	sicl	c	poor	slow	>60	9	P	IIs-3	mod high	n/mod alk	
Ck	Clear Lake	TPXert	basin	Yes	marsh	c	c	poor	slow	>60	9	P	IIs-5	high	n/mod alk	
Cn	Clear Lake	TPXert	basin	Yes	marsh	sl/sic	c	flooding	slow	>60	9		IVw-3	mod high	n/mod alk	
HcA	Hillgate	TPXalf	old terrace remnant	No	grass	l/cl	c	well	very slow	15	2.5		IVs-3	low	med/sl acid	
HdA	Hillgate	TPXalf	old terrace remnant	No	grass	l/cl	c	well	very slow	25	5	SI	IIIs-3	low	med/sl acid	
La	Lang	TPsAent	floodplain	I	riparian	sl/l	sil/s	sw poor	rapid	48	5.5	P	IIw-2	low	sl/st acid	
Lb	Lang	TPsAent	floodplain	I	riparian	sl/l	sicl/c	sw poor	rapid/slow	50	5.5	P	IIIw-3	low	sl/st acid	
Lc	Lang	TPsAent	floodplain	I	riparian	sil/l	sicl/c	flooding	rapid/slow	50	5.5		IVw-3	low	sl/st acid	
Ld	Lang	TPsAent	floodplain	I	riparian	sil	sicl/c	sw poor	rapid/slow	50	6	P	IIIw-3	mod low	sl/st acid	
Lg	Langenour	AFHAept	floodplain	Yes	riparian	sil/l	sl/l	poor	mod rapid	>60	8	P	I-1	mod high	sl acid/mod alk	
Lh	Langenour	AFHAept	floodplain	Yes	marsh	sil/l	sl/l	flooding	mod rapid	>60	8		IVw-2	mod high	sl acid/mod alk	
Lk	Langenour	AFHAept	floodplain	Yes	marsh	sil/l	sicl	flooding	mod rap/low	50	8		IVw-3	mod high	sl acid/mod alk	
Lm	L Alluvial	none	floodplain	I	riparian	sil/s	s/g	excessive	rapid	32	3		IVs-4	mod high		
Ma	Made Land	none	fill	I	marsh	s/c	s/c	well	rapid/slow	variable	variable		IIs-3	variable		
Mb	Maria	THAept	floodplain	Yes	riparian	sil/sicl	sil/sicl	poor	mod	>60	12	P	I-1	mod high	mod alk	
Mc	Maria	THAept	floodplain	Yes	marsh	sil/sicl	sil/sicl	flooding	mod	>60	12		IVw-2	mod high	mod alk	
Md	Maria	THAept	floodplain	Yes	riparian	sil/sicl	c	poor	mod/slow	50	11.3	P	IIs-3	mod high	mod alk	
Mf	Marvin	AHXalf	alluvial terrace	I	grass/sw	sic/sicl	sic/c	sw poor	slow	>60	11	P	IIs-3	high	sl acid/mild alk	
Mo	Merritt	THAoll	basin	Yes	marsh	sil/sicl	c	drained	mod slow/slow	45	8.5	P	IIs-3	high	n/mod alk	
Mp	Merritt	THAoll	basin	Yes	sal-alk/sw	sil/sicl	sil/sicl/c	poor/dr	mod/slow	45	5	SI	IVw-6	mod high	n/mod alk	yes
Ms	Myers	ECXert	high basin rim	I	grass/sw	cl/c	cl/c	well	slow	>60	9	P	IIs-5	high	mild/mod alk	
Pa	Pescadero	TNAalf	int basin rim	I	sal-alk/sw	l/sic	c	poor	slow	39	6.5		IIIw-5	mod high	med acid/mod alk	
Pb	Pescadero	TNAalf	int basin rim	I	sal-alk/sw	l/sic	sic/c	poor	slow	28	5		IVw-6	mod high	med acid/mod alk	yes
Pc	Pescadero	TNAalf	int basin rim	I	sal-alk/sw	sl/sic	sic/c	flooding	slow	43	5		IVw-3	mod high	med acid/mod alk	yes
Ra	Reiff	TXOent	alluvial fan	I	valley oak	sl/l	sl/l	well	mod rapid	>60	9.3	P	I-1	high	sl acid/mod alk	
Rb	Reiff	TXOent	alluvial fan	No	valley oak	gl	gl	well	mod rapid	>60	7.8	P	IIs-4	high	sl acid/mod alk	
Rg	Rincon	MHXalf	alluvial terrace	No	grass	l/sicl	sicl/c	well	slow	>60	8	P	IIs-3	high	mod alk	
Rh	Riverwash		floodplain	Yes	riparian	st/s	st/s	excessive	very rapid	variable	variable		VIIIw-4	very low		
Rk	Riz	TNXalf	old terrace remnant	I	sal-alk/sw	l/cl	c	poor	very slow	18	3		IVs-3	low	n/mod alk	yes
Rn	Riz	TNXalf	old terrace remnant	I	sal-alk/sw	l/cl	c	flooding	very slow	18	3		IVw-3	low	n/mod alk	yes
Sa	Sacramento	CHAoll	basin	Yes	marsh	sicl	sic/c	poor	slow	53	8	P	IIIw-3	high	med acid/mod alk	
Sb	Sacramento	CHAoll	basin	Yes	marsh	sicl	sic/c	drained	slow	>60	8	P	IIs-3	high	med acid/mod alk	
Sc	Sacramento	CHAoll	basin	Yes	marsh	sic/c	sic/c	poor	slow	47	6.3	P	IIIw-5	high	med acid/mod alk	
Sd	Sacramento	CHAoll	basin	Yes	marsh	sic/c	sic/c	drained	slow	>60	8	P	IIs-5	high	med acid/mod alk	
Sg	Sacramento	CHAoll	basin	Yes	marsh	sl/sic	sic/c	flooding	slow	53	8		IVw-3	high	med acid/mod alk	
Sn	Soboda	TXPsent	alluvial fan	I	riparian	vgls/gls	vgls	excessive	very rapid	>60	3		IVs-4	low	sl acid/mild alk	
So	Sycamore	AHAept	floodplain	Yes	riparian	sil	sil	sw poor	mod	48	11	P	IIw-2	high	sl acid/mild alk	
Sp	Sycamore	AHAept	floodplain	Yes	riparian	sil	sil	drained	mod	>60	11	P	I-1	high	sl acid/mild alk	
Sr	Sycamore	AHAept	floodplain	Yes	riparian	sil	sil	flooding	mod	48	11		IVw-2	high	sl acid/mild alk	
Ss	Sycamore	AHAept	floodplain	Yes	riparian	sicl/c	sicl	sw poor	mod slow	48	11	P	IIw-2	high	sl acid/mild alk	
St	Sycamore	AHAept	floodplain	Yes	riparian	sicl/c	sicl	drained	mod slow	>60	11	P	I-1	high	sl acid/mild alk	
Su	Sycamore	AHAept	floodplain	Yes	riparian	sicl/sil	sic	sw poor	slow	50	9	P	IIIw-3	high	sl acid/mild alk	
Sv	Sycamore	AHAept	floodplain	Yes	riparian	sicl/sil	sic	drained	slow	50	9	P	IIs-3	high	sl acid/mild alk	

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Sw	Sycamore	AHAept	floodplain	Yes	marsh	sicl/sil	sic	flooding	slow	48	9	SI	IVw-3	high	sl acid/mild alk	
Tb	Tyndall	AHXoll	floodplain	I	riparian	sl/sil	sl	sw poor	mod rapid	48	9	P	IIw-2	mod high	sl acid/mod alk	
Tc	Tyndall	AHXoll	floodplain	I	riparian	sl/sil	sl	drained	mod rapid	>60	9	P	I-1	mod high	sl acid/mod alk	
Td	Tyndall	AHXoll	floodplain	I	riparian	sl/sil	sl	flooding	mod rapid	48	9		IVw-2	mod high	sl acid/mod alk	
Te	Tyndall	AHXoll	floodplain	I	riparian	sl/sil	c	poor	slow	50	7	P	IIIw-3	mod high	sl acid/mod alk	
Vc	Valdez	FHAept	floodplain	Yes	marsh	sl/sicl	sl/c	flooding	mod/slow	45	9		IVw-3	mod high		
Wb	Willows	TPXert	int basin rim	Yes	sal-alk/sw	sic/c	sicl/c	poor	slow	48	8	SI	IIIw-5	mod high	sl acid/str alk	yes
Wc	Willows	TPXert	int basin rim	Yes	sal-alk/sw	sic/c	sicl/c	poor	slow	48	7	SI	IVw-6	mod	sl acid/str alk	yes
Wd	Willows	TPXert	int basin rim	Yes	sal-alk/sw	sic/c	sicl/c	drained	slow	>60	7	SI	IVw-6	mod	sl acid/str alk	yes
Wg	Willows	TPXert	int basin rim	Yes	sal-alk/sw	sl/sicl	sicl/c	flooding	slow	48	8		IVw-3	mod high	sl acid/str alk	yes
Wm	Willows, marly variable	TPXert	int basin rim	I	sal-alk/sw	cl/c	c	sw poor	slow	33	6	SI	IIIw-5	mod high	mod/very str alk	yes
Ya	Yolo	TXOent	alluvial fan	I	valley oak	sl/sil	sil	well	mod	>60	10	P	I-1	high	sl acid/mild alk	
Yb	Yolo	TXOent	alluvial fan	No	valley oak	sicl	sicl	well	mod slow	>60	11	P	I-1	high	sl acid/mild alk	
134	Holillipah	TXFent	floodplain	Yes	riparian	ls	s/sl	flooding	rapid	>60	5		IVw-4	low	sl acid/n	
161	Shanghai	AXFent	floodplain	Yes	riparian	sl	sil	flooding	mod	>60	11		IVw-2	mod high	n/mod alk	
165	Shanghai	AXFent	floodplain	Yes	riparian	sil/ls	sil	flooding	mod	>60	11		IVw-2	mod high	n/mod alk	
166	Shanghai	AXFent	floodplain	Yes	riparian	sil	sl/sicl	flooding	mod	>60	11		Ivw-2	mod high	n/mod alk	

^a SW = seasonal wetland, sal-alk = saline-alkali sink.

^b textures of soils: si = silt or silty, c = clay or clayey, l = loam, s = sand or sandy, st = stony, gl = gravel.

^c WHC = Water holding capacity, in inches per volume of soil.

^d Prime Farmland = as defined by the California Department of Conservation.

^e LCC = land capability classification system of rating agricultural soils, I (high) to VIII (low).

^f n = neutral pH; mod alk = moderately alkaline; str alk = strongly alkaline; sl acid = slightly acidic; med acid = medium acidic; and st acid = strongly acidic.

Source: Soil Survey of Yolo County 1972.