TABLE 14.--ENGINEERING INDEX PROPERTIES

(The symbol < means less than; > means more than. Absence of an entry indicates that data were not estimated)

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
AGB---------- Aguilares	0-9	Sandy clay loam	CL	A-6	0-2	75-100	75-100	50-95	50-80	25-39	11-18
	9-35	Sandy clay loam, clay loam.	CL	A-6, A-7-6	0-5	75-100	75-100	50-95	50-80	28-43	14-28
	35-47	Sandy clay loam, clay loam.	CL	A-6	0-2	75-100	75-95	50-90	50-80	25-40	11-24
	47-72	Sandy clay loam, clay loam, fine sandy loam.	SC, CL	A-4, A-6, A-7-6	0-2	75-100	75-100	51-100	40-70	25-48	8-25
ARB---------- Arroyada	0-12	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-71	29-48
	12-24	Clay, silty clay	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-71	29-48
	24-80	Clay, silty clay	CH	A-7-6	0	80-100	75-100	61-100	51-100	51-71	29-48
BkA, BkB, BOB---- Bookout	0-16	Clay loam--------	CL	A-6, A-7-6	0	90-100	85-100	75-100	60-90	31-48	13-25
	16-65	Silty clay loam, silty clay, clay.	CL	A-6, A-7-6	0	90-100	85-100	75-100	70-95	31-48	15-25
BrB---------- Brundage	0-2	Very fine sandy loam.	SC, SM, SM-SC, CL	A-2-4, A-4	0	100	95-100	65-100	30-60	<30	NP-10
	2-9	Sandy clay loam, clay loam.	SC, CL	A-6	0	95-100	95-100	80-95	36-55	25-35	11-20
	9-32	Sandy clay loam, clay loam.	CL, SC	A-6, A-7-6	0	95-100	95-100	90-100	40-65	30-50	11-28
	32-80	Sandy clay loam, clay loam.	CL, SC	A-6	0	98-100	95-100	85-98	40-60	25-40	11-25
ByB, BZB--------- Brystal	0-9	Very fine sandy loam.	CL, CL-ML, ML, SC	A-4, A-6	0	80-100	75-100	70-100	36-65	<30	NP-12
	9-38	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC, CL	A-4, A-6, A-2-4, A-2-6	0	80-100	75-100	70-100	30-65	27-40	8-20
	38-64	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC, SM-SC, CL	A-2-4, A-2-6, A-4, A-6	0	80-100	75-100	60-100	30-85	20-40	7-23
CaA, CaB, CBB---- Caid	0-17	Very fine sandy loam.	CL, CL-ML, ML	A-4, A-6	0	95-100	95-100	85-100	50-70	<36	NP-18
	17-26	Sandy clay loam, clay loam.	SC, CL	A-6, A-7-6	0	95-100	95-100	80-100	40-80	30-45	15-30
	26-64	Sandy clay loam, clay loam.	SC, CL	A-6, A-7-6	0	90-100	90-100	80-100	45-90	30-50	15-30
CCA---------- Catarina	0-13	Clay----------	CH	A-7-6	0-2	85-100	82-100	82-100	80-98	51-76	30-49
	13-54	Clay, silty clay	CH	A-7-6	0-2	85-100	82-100	82-100	80-98	51-76	30-49
	54-80	Clay, silty clay, silty clay loam.	CH, CL	A-7-6	0-1	95-100	90-100	85-100	80-95	44-66	23-41
CdA, CDB--------- Chacon	0-11	Clay loam--------	CL	A-6, A-7-6	0	97-100	95-100	90-100	51-75	30-42	15-25
	11-37	Sandy clay, clay loam, clay.	CL, CH	A-7-6	0	97-100	95-100	90-100	60-80	41-55	28-40
	37-64	Sandy clay, clay loam, clay.	CL, CH	A-6, A-7-6	0	90-100	90-100	85-95	60-80	35-55	23-40

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number-- 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
CEB*:											
Charco----------	0-9	Loam----------	CL	A-4, A-6	0	95-100	95-100	80-95	50-80	25-40	8-20
	9-34	Clay, clay loam	CH, CL	A-7-6	0	95-100	95-100	85-95	65-95	41-55	20-30
	34-39	Clay loam, sandy clay loam, loam.	CL, CH	A-6, A-7-6	0	90-100	90-100	80-95	75-95	35-55	18-28
	39-64	Clay loam, clay	CL, CH	A-7-6	0	90-100	90-100	85-95	65-95	41-55	20-30
Altita----------	0-18	Sandy clay loam	SC, CL	A-4, A-6	0	95-100	95-100	75-95	40-70	25-40	8-20
	18-38	Clay, clay loam	CH, CL	A-7-6	0	90-100	90-100	85-95	65-95	41-55	20-30
	38-64	Clay loam, clay	CH, CL	A-7-6	0	90-100	90-100	85-95	65-95	41-55	20-30
Ch, Cn---------- Cochina	0-24	Clay----------	CH, MH	A-7-6, A-7-5	0	80-100	75-100	75-100	70-100	51-80	18-45
	24-40	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	70-100	51-80	35-55
	40-64	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	70-100	51-80	35-55
CPB---------- Copita	0-9	Fine sandy loam	SC, SM-SC, SM	A-2-4, A-4	0	95-100	93-100	90-100	25-50	<30	NP-10
	9-37	Sandy clay loam, loam, fine sandy loam.	SC, CL	A-6, A-4	0	95-100	93-100	90-100	40-82	25-40	8-21
	37-60	Weathered bedrock	---	---	---	---	---	---	---	---	---
Cq---------- Coquat	0-5	Clay----------	CH	A-7-6, A-7-5	0	85-100	85-100	80-100	75-100	51-79	35-50
	5-36	Clay----------	CH	A-7-6, A-7-5	0	85-100	85-100	80-100	75-100	51-79	35-50
	36-74	Clay----------	CH	A-7-6	0	85-100	85-100	80-100	75-100	51-75	35-50
CtA, CUA---------- Cotulla	0-18	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-70	29-46
	18-72	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	70-100	51-70	29-46
DLC---------- Dilley	0-8	Fine sandy loam	SM, SM-SC	A-2-4, A-4	0-10	75-100	70-100	70-85	25-40	<25	NP-7
	8-16	Fine sandy loam, sandy clay loam, gravelly sandy loam.	SC, SM-SC, GC	A-4, A-6	0-10	65-100	60-100	60-85	36-50	20-30	7-15
	16-36	Weathered bedrock	---	---	---	---	---	---	---	---	---
Dm, Dn---------- Divot	0-64	Silty clay loam, silty clay, clay, clay loam.	CL, CH	A-7	0-5	85-100	75-100	75-100	70-95	40-55	19-30
DsC---------- Duval	0-14	Loamy fine sand	SM, SM-SC	A-2-4	0	80-100	75-100	75-100	15-30	<25	NP-7
	14-30	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC	A-4, A-6	0	80-100	75-100	75-100	36-50	26-40	9-19
	30-46	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC, SM-SC	A-2-4, A-2-6, A-4, A-6	0	80-100	70-100	60-95	25-50	20-35	4-15
	46-64	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number-- 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
DvA, DvB, DVC---- Duval	0-10	Very fine sandy loam.	ML, CL-ML, CL, SM-SC	A-4	0	80-100	75-100	75-100	36-65	<30	NP-10
	10-38	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC	A-4, A-6	0	80-100	75-100	75-100	36-50	26-40	9-19
	38-48	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC, SM-SC	A-2-4, A-2-6, A-4, A-6	0	80-100	70-100	60-95	25-50	20-35	4-15
	48-60	Weathered bedrock	---	---	---	---	---	---	---	---	---
GDD---------- Goldfinch	0-8	Very gravelly sandy loam.	GC, GM, SM, SC	A-2, A-1, A-4	0-40	35-75	25-70	15-60	10-40	<30	NP-10
	8-14	Extremely gravelly sandy clay loam, extremely gravelly sandy loam, very gravelly sandy clay loam.	SC, GC, GP-GC, SP-SC	A-2-6, A-2-7	0-50	30-70	20-60	15-55	5-35	25-43	11-21
	14-30	Weathered bedrock	---	---	---	---	---	---	---	---	---
HYD*:											
Hindes----------	0-7	Very gravelly sandy clay loam.	GC, SC	A-2-6, A-4, A-6, A-2-4	0-20	35-95	35-50	35-50	30-50	<30	8-15
	7-30	Extremely gravelly clay, very gravelly clay loam, very gravelly clay.	GC, SC	A-2-7, A-7-6	0-20	20-70	20-50	20-45	15-45	41-52	20-28
	30-62	Clay loam, loam, gravelly clay loam.	GC, SC, CL	A-4, A-6, A-2-4, A-2-6	0-20	50-95	50-90	35-75	30-75	<30	8-15
Yologo----------	0-6	Very gravelly sandy clay loam.	GC, SC	A-2-4, A-2-6	0-5	35-70	25-50	20-50	15-35	25-35	8-15
	6-17	Very gravelly clay loam, very gravelly sandy clay loam, extremely gravelly clay loam.	GC, SC	A-2-6	0-10	20-65	15-50	14-50	13-35	30-40	11-20
	17-20	Cemented material	---	---	---	---	---	---	---	---	---
	20-30	Variable---------	---	---	---	---	---	---	---	---	---
Im---------- Imogene	0-4	Very fine sandy loam.	SM-SC, SC, CL-ML, CL	A-4, A-6	0	100	95-100	70-95	40-70	<30	NP-15
	4-11	Sandy clay loam, clay loam, sandy clay.	SC, CL	A-6, A-7-6	0	100	95-100	80-100	45-75	26-48	11-24
	11-48	Sandy clay loam, clay loam.	SC, CL	A-6, A-7-6	0	95-100	90-100	75-95	40-70	26-43	11-25
	48-80	Sandy clay loam, clay loam, loam.	SC, CL	A-6	0	95-100	85-100	75-95	40-70	26-37	11-21
LaA, LAB--------- Lasalle	0-5	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-70	29-46
	5-24	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-70	29-46
	24-72	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-70	29-46

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
MAC---------- Mata	0-7	Gravelly sandy clay loam.	CL, GC, SC	A-2-4, A-2-6, A-4, A-6	0-5	60-95	55-85	45-75	25-55	20-30	7-15
	7-25	Extremely gravelly clay loam, very gravelly clay loam, very gravelly sandy clay loam.	SP-SC, SC, GC, GP-GC	A-2-6, A-6	0-10	25-75	15-65	15-60	10-45	30-40	11-20
	25-54	Gravelly sandy loam, clay loam, fine sandy loam.	CL, SC, GC, GM-GC	A-2-4, A-2-6, A-4, A-6	0-5	25-100	30-95	15-95	10-85	20-30	7-15
	54-72	Weathered bedrock	---	---	---	---	---	---	---	---	---
MCC---------- Maverick	0-8	Clay----------	CH, CL	A-7-6	0	75-100	65-100	55-100	51-100	45-60	20-35
	8-16	Clay, clay loam, silty clay.	CH	A-7-6	0	98-100	95-100	90-100	80-100	51-71	30-45
	16-28	Clay, clay loam, silty clay.	CH, CL	A-7-6	0	98-100	90-100	85-100	75-95	41-65	20-40
	28-60	Weathered bedrock	---	---	---	---	---	---	---	---	---
MGC---------- Moglia	0-12	Sandy clay loam	CL, CH	A-6, A-7-6	0	90-100	90-100	75-100	55-85	28-52	12-31
	12-20	Clay, clay loam	CL, CH	A-7-6	0	95-100	90-100	80-100	65-95	41-58	24-36
	20-32	Clay, clay loam	CL, CH	A-7-6	0	95-100	90-100	80-100	65-95	41-58	24-36
	32-64	Loam, clay loam	CL	A-6, A-7-6	0-2	80-100	75-100	70-100	60-90	28-48	12-30
	64-72	Clay loam, clay	CL, CH	A-7-6	0	95-100	90-100	80-100	65-95	41-60	24-40
MNA, Mn---------- Montell	0-12	Clay----------	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-70	29-46
	12-30	Clay, silty clay	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-70	29-46
	30-70	Clay, silty clay	CH	A-7-6	0	80-100	75-100	75-100	75-100	51-74	29-49
MTC---------- Monteola	0-15	Clay----------	CH	A-7-6	0-3	80-100	80-100	80-100	75-90	51-75	30-50
	15-37	Clay----------	CH	A-7-6	0-3	90-100	80-100	75-100	75-96	56-80	33-54
	37-62	Clay----------	CH	A-7-6	0-3	90-100	80-100	75-100	75-96	56-80	33-54
Pt---------- Poteet	0-22	Very fine sandy loam.	ML, CL-ML, CL, SM	A-4	0	90-100	90-100	85-100	36-65	<29	NP-10
	22-48	Sandy clay loam, clay loam, sandy clay.	SC, CL	A-6, A-7-6	0	95-100	95-100	90-100	40-55	32-45	15-23
	48-64	Sandy clay loam, clay loam, fine sandy loam.	SC, CL	A-6, A-7-6	0	95-100	90-100	85-100	36-55	30-43	14-22
Ta---------- Tela	0-13	Sandy clay loam	SC	A-6	0	100	100	80-90	40-50	27-35	11-18
	13-46	Sandy clay loam, clay loam.	SC, CL	A-6	0	100	100	90-100	45-65	27-40	11-21
	46-63	Sandy clay loam, loam, clay loam.	SC, CL	A-6	0	95-100	95-100	90-100	40-65	27-40	11-21
Tc---------- Tiocano	0-64	Clay----------	CH	A-7-6	0	100	100	95-100	85-100	56-76	33-49
VBB---------- Viboras	0-8	Clay----------	CH, CL	A-7-6	0	90-100	90-100	85-100	65-95	46-72	25-46
	8-21	Clay----------	CH	A-7-6	0	90-100	90-100	85-100	70-95	50-76	28-49
	21-38	Clay----------	CH	A-7-6	0	90-100	90-100	85-100	70-95	50-76	25-49
	38-60	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 14.--ENGINEERING INDEX PROPERTIES--Continued

Soil name and map symbol	Depth	USDA texture	Classification: Unified	Classification: AASHTO	Frag- ments > 3 inches	Percentage passing sieve number--: 4	10	40	200	Liquid limit	Plas- ticity index
	In				Pct					Pct	
WbA, WbB, WCB---- Webb	0-14	Very fine sandy loam.	SM, ML, SM-SC, CL-ML	A-2-4, A-4	0-2	90-100	90-100	85-100	30-65	<30	NP-10
	14-28	Sandy clay, clay, sandy clay loam.	CL, SC	A-6, A-7-6	0-2	95-100	90-100	90-100	51-80	30-50	15-30
	28-64	Sandy clay loam, fine sandy loam, very fine sandy loam.	SC, CL	A-6, A-7-6	0-2	95-100	90-100	90-100	45-80	30-50	12-28
ZVB---------- Zavco	0-15	Sandy clay loam	SC, CL	A-4, A-6	0	95-100	95-100	80-100	40-65	25-40	8-22
	15-28	Sandy clay, clay, clay loam.	SC, CL, CH	A-7-6, A-6	0	95-100	95-100	85-100	45-75	38-58	18-35
	28-64	Sandy clay loam, clay loam.	SC, CL	A-6, A-7-6	0	85-100	80-100	70-100	45-65	34-45	15-25

* See description of the map unit for composition and behavior characteristics of the map unit.