TABLE 13.--ENGINEERING INDEX PROPERTIES

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

Map symbol and soil name	Depth	USDA texture	Classification		Frag- ments > 3 inches	Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO		4	10	40	200		
	In				Pct					Pct	
BaA---------- Barbarosa	0-12	Silty clay loam	CH, CL	A-7-6	0	100	85-100	85-100	80-95	45-65	25-40
	12-32	Clay, silty clay	CH	A-7-6	0	100	85-100	85-100	80-95	55-70	30-40
	32-65	Clay, silty clay	CH	A-7-6	0	80-95	75-90	70-85	60-75	51-65	27-37
Be---------- Boerne	0-63	Fine sandy loam	CL, SC, CL-ML, SM-SC	A-4, A-6	0-5	85-100	75-100	70-95	38-75	22-35	4-15
DnB---------- Denton	0-12	Silty clay-------	CH	A-7	0	97-100	94-100	90-100	85-98	50-70	29-45
	12-35	Silty clay loam, loam.	CH, CL	A-7	0-15	95-100	91-100	80-100	70-97	38-58	19-36
	35-50	Gravelly silty clay loam, gravelly loam.	GC, SC, CL, CH	A-2-7, A-2-6, A-6, A-7	1-25	44-73	32-61	26-55	25-54	36-58	19-36
	50-60	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
DpB---------- Depalt	0-6	Silty clay loam	CH, CL	A-7-6	0-5	85-100	80-100	78-100	70-100	41-70	28-45
	6-26	Clay, silty clay	CH	A-7-6	0-5	85-100	80-100	78-100	75-100	68-88	38-58
	26-63	Clay, gravelly clay, gravelly silty clay loam, clay loam, gravelly clay loam, silty clay loam.	CH	A-7-6	0-10	75-95	50-90	50-90	50-85	55-80	30-50
DrB*:											
Depalt----------	0-6	Silty clay loam	CH, CL	A-7-6	0-5	85-100	80-100	78-100	70-100	41-70	28-45
	6-26	Clay, silty clay	CH	A-7-6	0-5	85-100	80-100	78-100	75-100	68-88	38-58
	26-63	Clay, gravelly clay, gravelly silty clay loam, clay loam, gravelly clay loam, silty clay loam.	CH	A-7-6	0-10	75-95	50-90	50-90	50-85	55-80	30-50
Urban land.											
DsC---------- Doss	0-17	Silty clay, silty clay loam, clay loam.	CH	A-7-6	0-20	84-100	81-100	75-100	70-95	50-61	30-39
	17-40	Weathered bedrock	---	---	---	---	---	---	---	---	---
DsD*:											
Doss----------	0-17	Silty clay, silty clay loam, clay loam.	CH	A-7-6	0-20	84-100	81-100	75-100	70-95	50-61	30-39
	17-40	Weathered bedrock	---	---	---	---	---	---	---	---	---
Urban land.											
DTD*:											
Doss----------	0-17	Silty clay, silty clay loam, clay loam.	CH	A-7-6	0-20	84-100	81-100	75-100	70-95	50-61	30-39
	17-40	Weathered bedrock	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 13.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Frag- ments > 3 inches	Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO		4	10	40	200		
	In				Pct					Pct	
DTD*:											
Kerrville--------	0-8	Clay loam, loam, gravelly clay loam, gravelly loam.	CL	A-6, A-7-6	0-3	90-100	85-100	65-95	55-84	25-43	10-26
	8-15	Clay loam, loam, very gravelly clay loam, very gravelly loam, gravelly clay loam, gravelly loam.	CL, SC	A-4, A-6	0-10	70-99	60-85	50-80	45-72	25-40	10-23
	15-24	Extremely gravelly clay loam, very gravelly clay loam, extremely cobbly clay loam, very cobbly clay loam, extremely flaggy loam, very flaggy loam.	GC, GW-GM	A-2-4, A-2-6	2-15	15-60	10-50	8-45	7-35	22-38	10-22
	24-30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
ECC*:											
Eckrant---------	0-12	Cobbly clay, very cobbly clay, stony clay.	CL, CH, GC	A-7-6, A-7-5	15-75	56-100	50-100	45-98	44-94	47-73	25-45
	12-20	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Comfort---------	0-8	Stony clay, stony clay loam.	CH, GC, SC, CL	A-2-7, A-7-6	20-70	45-98	40-98	35-95	30-90	41-65	25-45
	8-14	Stony clay, very stony clay, extremely stony clay.	CH, GC, SC	A-7-6, A-2-7	30-70	45-98	40-98	35-97	30-95	60-90	45-65
	14-20	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
ERG*:											
Eckrant---------	0-12	Cobbly clay, very cobbly clay, stony clay.	CL, CH, GC	A-7-6, A-7-5	15-75	56-100	50-100	45-98	44-94	47-73	25-45
	12-20	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Rock outcrop.											

See footnote at end of table.

TABLE 13.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Frag- ments > 3 inches	Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO		4	10	40	200		
	In				Pct					Pct	
KeD---------- Kerrville	0-8	Clay loam, loam, gravelly clay loam, gravelly loam.	CL	A-6, A-7-6	0-3	90-100	85-100	65-95	55-84	25-43	10-26
	8-15	Clay loam, very gravelly clay loam, very gravelly loam, gravelly clay loam, gravelly loam.	CL, SC	A-4, A-6	0-10	70-99	60-85	50-80	45-72	25-40	10-23
	15-24	Extremely gravelly clay loam, very gravelly clay loam, extremely cobbly clay loam, very cobbly clay loam, extremely flaggy loam, very flaggy loam.	GC, GW-GM	A-2-4, A-2-6	2-15	15-60	10-50	8-45	7-35	22-38	10-22
	24-30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
KfF*: Kerrville--------	0-8	Clay loam, loam, gravelly clay loam, gravelly loam.	CL	A-6, A-7-6	0-3	90-100	85-100	65-95	55-84	25-43	10-26
	8-15	Clay loam, very gravelly clay loam, very gravelly loam, gravelly clay loam, gravelly loam.	CL, SC	A-4, A-6	0-10	70-99	60-85	50-80	45-72	25-40	10-23
	15-24	Extremely gravelly clay loam, very gravelly clay loam, extremely cobbly clay loam, very cobbly clay loam, extremely flaggy loam, very flaggy loam.	GC, GW-GM	A-2-4, A-2-6	2-15	15-60	10-50	8-45	7-35	22-38	10-22
	24-30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Urban land.											

See footnote at end of table.

TABLE 13.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	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	
KNG*:											
Kerrville-------	0-8	Clay loam, loam, gravelly clay loam, gravelly loam.	CL	A-6, A-7-6	0-3	90-100	85-100	65-95	55-84	25-43	10-26
	8-15	Clay loam, very gravelly clay loam, very gravelly loam, gravelly clay loam, gravelly loam.	CL, SC	A-4, A-6	0-10	70-99	60-85	50-80	45-72	25-40	10-23
	15-24	Extremely gravelly clay loam, very gravelly clay loam, extremely cobbly clay loam, very cobbly clay loam, extremely flaggy loam, very flaggy loam.	GC, GW-GM	A-2-4, A-2-6	2-15	15-60	10-50	8-45	7-35	22-38	10-22
	24-30	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Real----------	0-16	Very gravelly clay loam, extremely gravelly clay loam, very gravelly loam, extremely gravelly loam.	GC, SC, GP-GC, SP-SC	A-2-6, A-2-4	1-10	25-75	10-50	10-45	10-35	25-35	8-15
	16-40	Variable, weathered bedrock.	---	---	---	---	---	---	---	---	---
KrB, KrC--------- Krum	0-21	Silty clay-------	CH, CL	A-7-6	0	95-100	85-100	85-100	85-95	47-65	25-42
	21-43	Silty clay, clay	CH	A-7-6	0	95-100	85-100	80-100	65-95	51-74	28-50
	43-63	Silty clay loam, silty clay, clay.	CH, CL	A-7-6, A-6	0	85-100	75-100	70-99	65-95	36-60	20-39
KuB*:											
Krum----------	0-21	Silty clay-------	CH, CL	A-7-6	0	95-100	85-100	85-100	85-95	47-65	25-42
	21-43	Silty clay, clay	CH	A-7-6	0	95-100	85-100	80-100	65-95	51-74	28-50
	43-63	Silty clay loam, silty clay, clay.	CH, CL	A-7-6, A-6	0	85-100	75-100	70-99	65-95	36-60	20-39
Urban land.											
NuA, NuB--------- Nuvalde	0-12	Silty clay-------	CH, CL	A-7-6, A-6	0	95-100	95-100	90-100	80-96	38-60	20-38
	12-40	Clay, silty clay	CH, CL	A-7-6, A-6	0	95-100	95-100	75-100	70-98	38-58	20-36
	40-63	Silty clay loam, clay, silty clay.	CL	A-6, A-7-6	0	85-100	80-100	85-98	65-90	30-50	14-30

See footnote at end of table.

TABLE 13.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	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	
Oa---------- Oakalla	0-63	Silty clay loam, clay loam, loam.	CL, CH	A-6, A-7-6	0-2	85-100	80-100	70-100	65-95	25-54	14-36
OB*:											
Orif----------	0-9	Gravelly sandy loam.	GM, GM-GC, SM, SM-SC	A-1-B, A-2-4	0-10	55-80	50-75	35-55	10-30	<20	NP-7
	9-60	Stratified very gravelly sand to extremely gravelly loamy sand.	GW-GM, GM, SW-SM, SM	A-1-A, A-1-B	0-10	11-60	5-50	5-35	5-20	<20	NP-4
Boerne----------	0-63	Fine sandy loam	CL, SC, CL-ML, SM-SC	A-4, A-6	0-5	85-100	75-100	70-95	38-75	22-35	4-15
PTD*:											
Purves----------	0-15	Stony clay, cobbly clay, gravelly clay.	CH	A-7-6	5-25	75-95	65-95	65-95	55-85	51-65	30-40
	15-17	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Tarrant---------	0-9	Stony clay, very stony clay, very stony silty clay.	GC, CH, SC	A-7-6, A-7-5	33-77	55-100	51-100	48-99	36-95	51-75	25-44
	9-10	Indurated, unweathered bedrock.	---	---	---	---	---	---	---	---	---
STC*:											
Spires----------	0-5	Gravelly clay loam, cobbly clay loam, cobbly loam, gravelly loam.	SC, CL	A-6, A-7-6	0-15	75-98	70-98	70-90	45-65	30-45	15-25
	5-23	Clay----------	CH	A-7-6	0-15	85-100	80-95	65-80	65-80	55-74	30-45
	23-25	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Tarpley---------	0-7	Stony clay, stony clay loam.	CL, CH	A-7	10-30	85-100	85-98	75-95	65-90	41-60	20-38
	7-18	Clay, cobbly clay	CH	A-7	0-15	85-100	85-100	85-100	60-95	51-80	30-55
	18-19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
SuA---------- Sunev	0-14	Silty clay loam	CL, CH	A-6, A-7-6	0	90-100	80-100	80-100	60-80	30-51	12-32
	14-23	Loam, clay loam, silty clay loam.	CL	A-4, A-6	0	85-100	80-100	70-100	51-85	28-40	8-20
	23-63	Loam, clay loam, silty clay loam.	CL	A-4, A-6	0	80-100	70-100	65-100	51-61	25-40	8-20
TpB---------- Tarpley	0-7	Clay----------	CL, CH	A-7	0-3	90-100	90-100	80-95	70-90	41-60	20-38
	7-18	Clay----------	CH	A-7	0	90-100	90-100	90-100	65-98	51-80	30-55
	18-19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---

See footnote at end of table.

TABLE 13.--ENGINEERING INDEX PROPERTIES--Continued

Map symbol and soil name	Depth	USDA texture	Classification		Frag- ments > 3 inches	Percentage passing sieve number--				Liquid limit	Plas- ticity index
			Unified	AASHTO		4	10	40	200		
	In				Pct					Pct	
TRC*:											
Tarpley---------	0-7	Stony clay loam, stony clay.	CL, CH	A-7	10-30	85-100	85-98	75-95	65-90	41-60	20-38
	7-18	Clay, cobbly clay	CH	A-7	0-15	85-100	85-100	85-100	60-95	51-80	30-55
	18-19	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
Roughcreek------	0-8	Stony clay, stony clay loam.	CL, CH	A-7, A-6	25-50	85-100	80-98	75-95	65-90	40-60	20-35
	8-17	Very stony clay	CH	A-7	25-70	85-100	85-100	85-100	60-95	51-75	35-50
	17-20	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
TTC*:											
Tarrant---------	0-9	Stony clay, very stony clay, very stony silty clay.	GC, CH, SC	A-7-6, A-7-5	33-77	55-100	51-100	48-99	36-95	51-75	25-44
	9-10	Indurated, unweathered bedrock.	---	---	---	---	---	---	---	---	---
Eckrant---------	0-12	Cobbly clay, very cobbly clay, stony clay.	CL, CH, GC	A-7-6, A-7-5	15-25	75-100	71-100	70-98	65-94	47-73	25-45
	12-20	Unweathered bedrock.	---	---	---	---	---	---	---	---	---
UdB*:											
Urban land.											
Nuvalde---------	0-12	Silty clay-------	CH, CL	A-7-6, A-6	0	95-100	95-100	90-100	80-96	38-60	20-38
	12-40	Clay, silty clay	CH, CL	A-7-6, A-6	0	95-100	95-100	75-100	70-98	38-58	20-36
	40-63	Silty clay loam, clay, silty clay.	CL	A-6, A-7-6	0	85-100	80-100	85-98	65-90	30-50	14-30
Uk*:											
Urban land.											
Oakalla---------	0-63	Silty clay loam, clay loam, loam.	CL, CH	A-6, A-7-6	0-2	85-100	80-100	70-100	65-95	25-54	14-36

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