TABLE 7.—*Engineering test data*

[Tests performed by Texas Highway Department, Materials and Testing Division, Camp Hubbard, Texas]

Soil name and location	Parent material	Report number	Depth	Shrinkage limit	Linear shrinkage	Shrinkage ratio	Mechanical analysis [1]									Liquid limit	Plasticity index	Classification [2]	
							Percentage passing sieve—					Percentage smaller than—							
							¾ inch	No. 4 (4.7 mm)	No. 10 (2.0 mm)	No. 40 (0.42 mm)	No. 200 (0.074 mm)	0.05 mm	0.02 mm	0.005 mm	0.002 mm			AASHTO [3]	Unified [3]
			Inches	*Pct*	*Pct*											*Pct*			
Brundage fine sandy loam: 2.3 miles east on U.S. Highway 277 from courthouse in Eagle Pass, then 14.6 miles northeast on Texas Highway 57, 4.2 miles southwest on pipeline road, 150 feet west in area of range. (Modal).	Loamy sediment (old alluvium or outwash).	70–138–R	9–38	17	8.6	1.78	----	----	----	100	55	46	----	28	26	35	21	A–6	CL
		139–R	38–78	19	6.3	1.74	100	98	96	91	45	39	----	24	18	31	16	A–6	SC
Catarina clay: 2.3 miles east on U.S. Highway 277 from courthouse in Eagle Pass, then 14.6 miles northeast on Texas Highway 57, 8.5 miles southwest on pipeline road, 100 feet south in area of range (Modal).	Calcareous clay and shaly clay (saline).	70–144–R	22–52	15	17.8	2.02	100	99	99	98	92	86	----	64	55	52	34	A–7–6	CH
		145–R	52–78	13	15.0	1.98	100	99	97	92	83	77	----	66	38	45	28	A–7–6	CL
Dust clay loam: About 24 miles northeast of Eagle Pass; in area of range 150 feet north of Texas Highway 57, 3.3 miles southwest of Maverick-Zavala County line. (Modal).	Calcareous clay and shaly clay	70–135–R	0–11	17	8.9	1.84	----	----	100	96	59	50	----	29	21	34	18	A–6	CL
		136–R	19–41	9	14.8	2.06	----	----	100	96	73	66	----	52	42	40	25	A–6	CL
		137–R	50–72	12	14.6	2.02	----	----	----	99	83	74	----	52	41	42	27	A–7–6	CL
Elindio silty clay loam: 9.9 miles northwest of High School in Eagle Pass on U.S. Highway 277; this point is 1.1 miles southeast of junction of U.S. 277 and Texas 131, 0.4 mile east on old airport road, 100 feet north in area of range. (Modal).	Calcareous loamy sediment (old alluvium or outwash).	70–153–R	15–26	15	12.3	1.88	100	99	99	98	81	73	----	50	38	41	21	A–7–6	CL
		154–R	49–72	15	10.3	1.86	----	----	----	99	74	69	----	41	27	36	20	A–6	CL
Lagloria very fine sandy loam: 2.6 miles north on U.S. Highway 277 from junction of U.S. 277 and Rigby Road in Quemado, then 800 feet west in cultivated field. (Modal).	Calcareous alluvium on terraces	70–159–R	18–44	20	3.6	1.69	----	----	----	100	76	59	----	18	13	27	6	A–4	CL–ML
		160–R	44–80	20	2.5	1.68	----	----	----	100	65	52	----	14	12	25	4	A–4	CL–ML or ML
Mayes loam: 9.9 miles northwest of High School in Eagle Pass on U.S. Highway 277; this point is 1.1 mile southeast of junction of U.S. 277 and Texas 131, 0.6 mile east on old airport road, 0.3 mile south, 200 feet west in area of range. (Modal).	Calcareous loamy sediment (old alluvium or outwash).	70–151–R	12–29	19	9.8	1.78	100	98	96	93	83	74	----	47	34	39	20	A–6	CL
		152–R	29–46	22	8.7	1.69	100	95	87	83	76	70	----	44	29	40	19	A–6	CL
Maverick clay: 2.3 miles east on U.S. Highway 277 from courthouse in Eagle Pass, then 3.9 miles northeast on Texas Highway 57, 50 feet south from right-of-way in area of range. (Modal).	Calcareous clay and shale (saline)	70–163–R	5–18	14	18.6	1.94	----	100	99	99	95	91	----	70	54	58	35	A–7–6	CH
		164–R	18–26	29	8.8	1.55	99	99	98	94	78	68	----	29	8	50	20	A–7–5	ML or MH
		165–R	26–72	20	13.7	1.76	100	98	96	89	75	65	----	45	30	51	28	A–7–6	CH
Montell clay: 11.0 miles northwest of High School in Eagle Pass on U.S. Highway 277, then 1.6 miles north on Texas Highway 131, northeast through gate 0.5 mile on small ranch road, 100 feet south in area of range. (Modal).	Calcareous clay (old alluvium or outwash).	70–155–R	12–28	12	18.8	2.01	----	----	100	99	88	81	----	62	54	55	34	A–7–6	CH
		156–R	44–62	14	16.2	1.96	----	----	100	92	80	74	----	54	43	51	33	A–7–6	CH
Pryor clay loam: 2.3 miles east on U.S. Highway 277 from courthouse in Eagle Pass, then 14.6 miles northeast on Texas Highway 57, 8.5 miles southwest on pipeline road, 100 feet south in area of range. (Modal).	Calcareous clay and shale (saline)	70–146–R	8–30	15	12.3	1.92	99	98	97	96	91	86	----	54	41	40	22	A–6	CL
		148–R	42–72	16	12.8	1.88	100	99	96	89	85	80	----	40	30	44	26	A–7–6	CL

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