TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
1	Abilene clay loam	0 - 1	128.82	No	Yes	Low
1	Acuff loam	0 - 1	726.00	No	Yes	Low
2	Altus fine sandy loam	1 - 3	1565.25	Yes	Yes	Low
2	Acuff loam	1 - 3	3096.84	No	Yes	Low
3	Burford silt loam	3 - 5	1129.80	No	Yes	Low
3	Acuff loam	3 - 5	607.98	No	Yes	Low
4	Burford silt loam, eroded	3 - 5	1124.42	No	No	Low
4	Altus fine sandy loam	0 - 1	2935.26	No	Yes	Low
5	Knoco-Badland complex	1 - 20	1567.17	No	No	Low
5	Aspermont silty clay loam	1 - 3	683.44	No	Yes	Low
5	Amarillo fine sandy loam	0 - 1	91.33	No	No	Low
6	Aspermont silty clay loam	3 - 5	7123.34	No	Yes	Low
6	Amarillo fine sandy loam	1 - 3	161.40	No	No	Low
7	Carey loam	1 - 3	2772.92	No	Yes	Low
7	Berda-Pep-Potter association, rolling	4 - 15	2684.01	No	No	Low
8	Clairemont silt loam, occasionally flooded	0 - 1	411.36	No	Yes	Low
8	Berda-Potter-Rock outcrop association, steep	3 - 40	7131.00	No	No	Low
8	Arch loam	0 - 3	3.38	No	No	Moderate
9	Clairemont silt loam, frequently flooded	0 - 1	7.96	No	No	Low
9	Bippus clay loam	0 - 1	159.47	No	Yes	Low
10	Bippus clay loam	1 - 3	135.05	No	Yes	Low
11	Burson-Aspermont association, steep	8 - 50	6222.35	No	No	Low
12	Carey loam	0 - 1	109.95	No	Yes	Low
13	Cornick-Vinson-Rock outcrop complex	1 - 5	2514.26	No	No	Low to High
13	Carey loam	1 - 3	1546.05	No	Yes	Low
14	Cyril fine sandy loam, occasionally flooded	0 - 1	50.10	Yes	Yes	Low
14	Clairemont silt loam, occasionally flooded	0 - 1	1549.77	Partially	Yes	Low
15	Delwin-Nobscot complex	0 - 3	713.48	Yes	No	Low to Moderate
15	Delwin fine sand	0 - 3	2744.27	No	No	Low
16	Estacado clay loam	0 - 1	3.57	No	No	Low
16	Drake clay loam	1 - 3	2.56	No	No	Low
17	Devol loamy fine sand	3 - 8	63.43	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
17	Estacado clay loam	1 - 3	107.01	No	No	Low
17	Drake clay loam	3 - 5	0.69	No	No	Low
18	Devol-Quinlan complex	3 - 12	1921.95	No	No	Low
18	Pep clay loam	3 - 5	240.09	No	No	Low
18	Estacado clay loam	0 - 1	8.92	No	No	Low
19	Guadalupe fine sandy loam, occasionally flooded	0 - 1	4305.69	Partially	Yes*	Low
19	Estacado clay loam	1 - 3	212.46	No	No	Low
20	Likes loamy fine sand	1 - 8	3083.60	No	No	Low
21	Lincoln loamy fine sand, frequently flooded	0 - 1	12461.11	Partially	No	Low
22	Miles loamy fine sand	0 - 3	23514.26	No	No	Low
23	Miles loamy fine sand	3 - 5	3347.84	No	No	Low
23	Lofton clay loam	0 - 1	175.73	No	Yes	Low
24	Miles loamy fine sand, severely eroded	3 - 8	1138.55	No	No	Low
24	Mansker clay loam	1 - 3	39.50	No	No	Low
25	Grandfield loamy fine sand	1 - 3	8.89	Yes	No	Low
25	Miles fine sandy loam	0 - 1	3910.25	No	Yes*	Low
25	Mansker clay loam	3 - 5	13.34	No	No	Low
26	Miles fine sandy loam	1 - 3	22459.07	No	Yes*	Low
27	Grandfield fine sandy loam	1 - 3	134.70	Yes	Yes	Low
27	Miles fine sandy loam	3 - 5	11039.16	No	Yes*	Low
28	Grandfield fine sandy loam	3 - 5	54.09	No	Yes	Low
28	Miles fine sandy loam, eroded	3 - 5	1649.19	No	No	Low
29	Grandfield fine sandy loam, eroded	3 - 5	72.78	No	No	Low
29	Mobeetie fine sandy loam	1 - 3	977.24	No	Yes*	Low
30	Mobeetie fine sandy loam	3 - 5	4441.09	No	Yes*	Low
30	Olton clay loam	0 - 1	1350.85	No	Yes	Low
31	Mobeetie fine sandy loam	5 - 12	2663.67	No	No	Low
31	Olton clay loam	1 - 3	541.33	No	Yes	Low
32	Knoco-Cornick-Rock outcrop complex	2 - 20	12181.43	No	No	Low to Moderate
32	Mobeetie-Badland association, steep	20 - 45	1168.28	No	No	Low
33	Knoco-Rock outcrop complex	20 - 40	2877.61	No	No	Low
33	Mobeetie-Polar association, hilly	3 - 30	7485.14	No	No	Low
33	Portales loam	0 - 1	92.44	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
34	Lincoln loamy fine sand	0 - 1	15.75	Yes	No	Low
34	Mobeetie-Veal-Potter association, rolling	3 - 20	34006.29	No	No	Low
34	Posey fine sandy loam	0 - 1	26.35	No	No	Low
35	Nobscot fine sand	1 - 8	1940.83	No	No	Moderate
35	Posey fine sandy loam	1 - 3	9.19	No	No	Low
36	Nobscot fine sand	3 - 5	427.58	No	No	Moderate
36	Obaro-Quinlan association, rolling	3 - 20	54745.99	No	No	Low
36	Posey fine sandy loam	3 - 5	28.24	No	No	Low
37	Nobscot fine sand	5 - 12	7.14	No	No	Moderate
37	Olton clay loam	0 - 1	423.00	No	Yes	Low
38	Nobscot and Delwin soils	2 - 5	75.91	No	No	Low to Moderate
38	Olton clay loam	1 - 3	201.97	No	Yes	Low
39	Obaro silt loam	1 - 3	637.66	No	Yes	Low
39	Paloduro loam	3 - 5	392.40	No	Yes	Low
40	Obaro-Quinlan complex	1 - 3	181.08	No	Yes	Low
40	Paloduro loam	5 - 8	263.79	No	No	Low
41	Obaro-Quinlan complex	3 - 5	7.78	No	Yes	Low
41	Pullman clay loam	0 - 1	2499.90	No	Yes	Low
42	Randall clay	0 - 1	200.56	Partially	No	Low
44	Quanah-Talpa complex	1 - 5	6774.83	No	Yes	Low
44	Randall clay	0 - 1	118.82	FALSE	No	Low
45	Quinlan-Obaro complex	3 - 5	75.54	No	No	Low
45	Springer loamy fine sand	0 - 3	3667.08	No	No	Low
46	Quinlan-Obaro complex	5 - 12	100.79	No	No	Low
46	Springer loamy fine sand	3 - 8	13510.60	No	No	Low
46	Zita loam	0 - 1	149.08	No	No	Low
47	Springer loamy fine sand, severely eroded	3 - 8	4974.35	No	No	Low
48	Quinlan-Woodward complex	5 - 12	386.74	No	No	Low
48	Springer fine sandy loam	5 - 8	977.21	No	No	Low
49	Quinlan and Dill soils	2 - 12	59.58	No	No	Low
49	Spur clay loam, occasionally flooded	0 - 1	368.41	Partially	Yes	Low
50	Spur loam	0 - 1	853.92	No	Yes	Low
50	Sweetwater soils	0 - 3	602.65	Partially	No	Low
51	Spur clay loam	0 - 1	1484.92	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
51	Tivoli fine sand	5 - 30	5396.91	No	No	Low
52	St. Paul silt loam	0 - 1	863.48	No	Yes	Low
52	Veal fine sandy loam	1 - 3	3948.71	No	Yes*	Low
53	St. Paul silt loam	1 - 3	2285.28	No	Yes	Low
53	Veal fine sandy loam	3 - 5	11342.97	No	Yes*	Low
54	Tillman clay loam	1 - 3	1063.63	No	Yes	Low
57	Jester and Tivoli soils	1 - 30	164.25	No	No	Low
60	Vernon-Knoco complex	3 - 12	907.47	No	No	Low
61	Woodward loam	1 - 3	927.02	No	Yes	Low
62	Woodward loam	3 - 5	1376.40	No	Yes	Low
63	Woodward-Quinlan complex	1 - 3	67.23	No	Yes	Low
64	Woodward-Quinlan complex	3 - 5	776.45	No	Yes	Low
66	Westola fine sandy loam	0 - 1	573.27	Yes	Yes	Low
AbA	Abilene clay loam	0 - 1	10742.12	No	Yes	Low
AbA	Olton clay loam	0 - 1	60.89	No	Yes	Low
AbB	Abilene clay loam	1 - 3	2267.64	No	Yes	Low
AbB	Olton clay loam	0 - 1	252.78	No	Yes	Low
AbC	Olton clay loam	3 - 5	88.69	No	Yes	Low
AcA	Bukreek loam	0 - 1	3137.18	No	Yes	Low
AcA	Abilene-Cottonwood complex	0 - 1	106.22	No	No	Low
AcA	Acuff loam	0 - 1	669.64	No	Yes	Low
AcA	Altus fine sandy loam	0 - 1	578.25	No	Yes	Low
AcB	Bukreek loam	1 - 3	5316.66	No	Yes	Low
AcB	Acuff loam	1 - 3	1145.46	No	Yes	Low
Ad	Active dunes	3 - 15	1298.22	No	No	Low
AdB	Ady fine sandy loam	1 - 3	307.45	No	No	Low
AdC	Ady fine sandy loam	3 - 5	2139.24	No	No	Low
Af	Altus fine sandy loam	0 - 1	325.72	No	Yes	Low
AfB	Amarillo fine sandy loam	1 - 3	247.17	No	No	Low
AlA	Altus fine sandy loam	0 - 1	4999.74	No	Yes	Low
AmA	Miles fine sandy loam	0 - 1	4356.55	No	No	Low
AmA	Amarillo fine sandy loam	0 - 1	657.54	No	No	Low
AmB	Miles fine sandy loam	1 - 3	5460.04	No	No	Low
AmB	Amarillo fine sandy loam	1 - 3	1463.60	No	No	Low
AmC	Miles fine sandy loam	3 - 5	2620.12	No	No	Low
AmC	Amarillo fine sandy loam	3 - 5	140.64	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
ArB	Arch loam	0 - 3	931.17	No	No	Low
ArB	Acme and Cottonwood soils	0 - 3	623.05	No	No	High
AsB	Aspermont silty clay loam	1 - 3	1870.14	No	Yes	Low
AsC	Aspermont silty clay loam	3 - 5	5220.00	No	Yes	Low
AsE	Aspermont silty clay loam	5 - 12	1496.28	No	No	Low
BcA	Bippus clay loam, occasionally flooded	0 - 2	3051.34	No	Yes**	Low
BeA	Berda loam	0 - 1	3243.51	No	No	Low
BeB	Berda loam	1 - 3	7765.51	No	No	Low
BeC	Berda loam	3 - 5	6998.99	No	No	Low
BeD	Berda loam	5 - 8	12857.87	No	No	Low
Bf	Delwin fine sand	0 - 3	1360.51	No	No	Low
BfA	Bippus fine sandy loam, overwash	0 - 1	19.92	Partially	No	Low
BfB	Bippus fine sandy loam, overwash	1 - 3	53.13	Partially	No	Low
BME	Berda and Mobeetie soils	5 - 20	8239.08	No	No	Low
Bn	Heatly-Nobscot fine sands		10501.32	No	No	Moderate
BP	Borrow pits	0 - 45	269.76	No	No	Low
BpA	Bippus loam	0 - 1	2588.41	Partially	Yes	Low
BpB	Bippus loam	1 - 3	109.22	Partially	Yes	Low
BPE	Berda-Polar complex	3 - 12	2217.39	No	No	Low
BpF	Berda and Potter soils	5 - 20	949.41	No	No	Low
BPG	Berda-Potter-Rock outcrop association	3 - 45	12068.58	No	No	Low
BQG	Burson and Quinlan soils steep	20 - 45	56931.39	No	No	Low
BrC	Bippus clay loam	3 - 5	38.76	Yes	Yes	Low
Bt	Blown-out land-Tivoli complex	2 - 10	37.33	No	No	Low
BuA	Bukreek loam	0 - 1	2239.69	No	Yes	Low
BuB	Bukreek loam	1 - 3	2449.25	No	Yes	Low
CaA	Carey loam	0 - 1	4970.91	No	Yes	Low
CaA	Carey silt loam	0 - 1	24.99	No	Yes	Low
CaB	Carey loam	1 - 3	75713.84	No	Yes	Low
CaB	Carey silt loam	1 - 3	3984.12	No	Yes	Low
CaC	Paducah loam	3 - 5	7992.46	No	Yes	Low
CaC	Carey loam	3 - 5	8681.92	No	Yes	Low
Cd	Colorado very fine sandy loam	0 - 1	46.16	No	Yes	Low
Cf	Colorado and Yomont soils, frequently flooded	0 - 1	58.89	Partially	Yes**	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
Cm	Clairemont silty clay loam	0 - 1	611.71	Partially	Yes	Low
Cm	Clairemont silt loam	0 - 1	175.01	Yes	Yes	Low
Co	Colorado loam	0 - 1	2983.40	Yes	Yes	Low
CoB	Cobb loamy fine sand, loamy substratum	1 - 3	142.77	No	No	Low
CoC	Cobb loamy fine sand, loamy substratum	3 - 5	72.79	No	No	Low
CoF	Cottonwood loam	3 - 20	223.82	No	No	Low
DAM	Dams	NL	89.08	No	No	NL
DeB	Delwin fine sand	0 - 3	14034.85	No	No	Low
DfC3	Delwin soils	2 - 5	253.05	No	No	Low
DlB	Devol loamy fine sand	0 - 3	1083.08	No	No	Low
DlD	Devol loamy fine sand	3 - 8	2359.81	No	No	Low
DmC3	Devol soils, undulating, severely eroded	3 - 6	1201.81	No	No	Low
DoA	Dodson silt loam	0 - 1	441.72	No	Yes	Low
DoB	Dodson silt loam	1 - 2	816.96	No	Yes	Low
DoD	Devol loamy fine sand	3 - 8	9687.62	No	No	Low
DrB	Drake loam	1 - 3	527.68	No	No	Low
DrB	Drake clay loam	1 - 3	756.80	No	No	Low
DrC	Drake loam	3 - 5	582.56	No	No	Low
DRC	Drake soils	1 - 8	1110.92	No	No	Low
DsD	Drake soils	3 - 8	1541.12	No	No	Low
DtD	Devol and Tivoli soils	1 - 8	1427.07	No	No	Low
DU	Dune land	0 - 1	210.28	No	No	Low
EcA	Estacado clay loam	0 - 1	4216.83	No	Yes	Low
EcB	Estacado clay loam	1 - 3	12020.18	No	Yes	Low
EcB	Estacado clay loam	1 - 3	2.18	No	No	Low
EcC	Estacado clay loam	3 - 5	962.87	No	Yes	Low
EfA	Hardeman fine sandy loam	0 - 1	6918.06	No	Yes*	Low
EfB	Hardeman fine sandy loam	1 - 3	7982.41	No	Yes*	Low
EfC	Hardeman fine sandy loam	3 - 5	288.64	No	Yes*	Low
EfC	Hardeman sandy loam	3 - 5	2335.87	No	Yes*	Low
Eh	Hardeman soils, wind-hummocky	1 - 3	3967.03	No	No	Low
El	Lueders-Sagerton complex	0 - 8	61013.08	No	No	Low
EmA	Enterprise very fine sandy loam	0 - 1	7512.09	No	Yes	Low
EmA	Enterprise very fine sandy loam	1 - 3	14289.67	No	Yes	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
EmC	Enterprise very fine sandy loam	3 - 5	7638.25	No	Yes	Low
EmD	Enterprise very fine sandy loam	5 - 8	480.35	No	No	Low
EmD	Enterprise very fine sandy loam	5 - 12	3775.42	No	No	Low
EnA	Enterprise very fine sandy loam	0 - 1	163.10	No	Yes	Low
EnB	Enterprise very fine sandy loam	1 - 3	1010.44	No	Yes	Low
EnC	Enterprise very fine sandy loam	3 - 5	523.99	No	Yes	Low
EnD	Enterprise loam	3 - 8	6832.27	No	No	Low
EnD	Enterprise very fine sandy loam	5 - 12	3003.30	No	No	Low
EsA	Estacado clay loam	0 - 1	564.95	No	No	Low
EsA	Estacado loam	0 - 1	2544.84	No	No	Low
EsB	Estacado clay loam	1 - 3	1072.30	No	No	Low
EsB	Estacado loam	1 - 3	6636.90	No	No	Low
EsC	Pep clay loam	3 - 5	406.38	No	No	Low
FkA	Frankirk clay loam	0 - 1	361.81	No	Yes	Low
FmB	Flomot fine sandy loam	1 - 3	3108.33	No	Yes*	Low
FmC	Flomot fine sandy loam	3 - 5	3282.63	No	Yes	Low
FmE	Flomot fine sandy loam	5 - 12	12447.95	No	No	Low
FoB	Flomot fine sandy loam	1 - 3	628.77	No	No	Low
FoC	Flomot fine sandy loam	3 - 5	984.17	No	No	Low
FoD	Flomot fine sandy loam	5 - 12	634.47	No	No	Low
FpB	Flomot-Potter complex	0 - 3	934.37	No	No	Low
FrA	Frankirk loam	0 - 1	2321.09	No	Yes	Low
FrB	Frankirk loam	1 - 3	1227.37	No	Yes	Low
Ga	Gageby clay loam	0 - 1	954.03	No	Yes	Low
Ga	Bippus clay loam	0 - 1	338.56	No	Yes	Low
GdB	Grandfield loamy fine sand	0 - 3	8320.56	No	No	Low
GdC	Grandfield fine sandy loam	3 - 5	153.81	No	No	Low
GdD	Grandfield loamy fine sand	3 - 5	2924.93	No	No	Low
GfA	Grandfield fine sandy loam	0 - 1	155.25	No	Yes*	Low
GfB	Grandfield fine sandy loam	1 - 3	2174.35	No	Yes*	Low
GfC	Grandfield fine sandy loam	3 - 5	1120.16	No	Yes*	Low
GfC2	Grandfield fine sandy loam, erod ed	3 - 5	273.16	No	No	Low
GP	Pits, gravel	NL	639.98	No	No	NL
Gr	Hilgrave very gravelly sandy loam	3 - 30	2184.85	No	No	Low
Gr	Polar very gravelly sandy loam	3 - 25	2255.15	No	No	Low
GrD3	Grandfield soils, severely eroded	3 - 8	1164.78	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
Gt	Guadalupe and Texroy soils	0 - 1	1437.77	Partially	Yes*	Low
Gu	Guadalupe fine sandy loam	0 - 2	538.19	No	Yes*	Low
GUA	Guadalupe soils, frequently flooded	0 - 2	505.86	No	No	Low
GyC	Gypsum outcrop and Quinlan soils, undulating	1 - 5	2446.66	No	No	Low
Ha	Talpa soils	1 - 12	5291.23	No	No	Low
HaC	Hardeman fine sandy loams	3 - 4	32.08	No	Yes*	Low
HaD	Hardeman fine sandy loam	5 - 8	851.00	No	No	Low
HdB	Hardeman fine sandy loam	0 - 3	372.84	No	No	Low
HeC	Heatly fine sand	0 - 5	9871.46	No	No	Low
Hg	Hilgrave very gravelly sandy loam	3 - 30	50.77	No	No	Low
HgF	Hilgrave gravelly sandy loam	10 - 30	3265.43	No	No	Low
HLFF	Hardeman-Likes-Fortyone complex	3 - 20	45.83	No	No	Low
LaB	Quanah clay loam	1 - 3	17216.11	No	Yes	Low
LaD	Latom stony loam	3 - 12	888.02	No	No	Low
LAE	Latom soils and rock outcrop	3 - 20	11097.55	No	No	Low
LaE	Latom-Rock outcrop complex	3 - 12	6820.24	No	No	Low
Lc	Lincoln soils	0 - 2	105.36	No	No	Low
LcA	Lazbuddie clay	0 - 1	36.38	Yes	No	Low
LcB	Sagerton silty clay loam	1 - 3	6248.80	No	Yes	Low
LcC	Sagerton silty clay loam	3 - 5	1138.00	No	Yes	Low
Ld	Spur loam	0 - 1	609.97	Partially	Yes**	Low
Lf	Lincoln soils, frequently flooded	0 - 1	4616.59	Partially	No	Low
Lf	Gracemore soils, saline, frequently flooded	0 - 1	637.89	Partially	No	Low
Lh	Quanah-Talpa complex	0 - 5	45864.31	No	No	Low
LkD	Likes loamy fine sand	1 - 8	989.40	No	No	Low
Ln	Lazbuddie clay	0 - 1	2277.31	Partially	No	Low
Ln	Lincoln soils	0 - 2	3227.26	Yes	No	Low
LNA	Lincoln soils, frequently flooded	0 - 1	716.23	No	No	Low
Lo	Lofton clay loam	0 - 1	9785.41	Partially	Yes	Low
Lo	Colorado loam	0 - 1	1355.39	Partially	No	Low
Lo	Lofton clay loam	0 - 1	10960.91	No	Yes	Low
Lo	Lincoln soils, frequently flooded	0 - 1	2515.96	Partially	No	Low
LoA	Lofton clay loam	0 - 1	26760.52	No	Yes	Low
LoA	Lofton clay loam	0 - 1	419.07	Yes	Yes	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
Lp	Lipan clay, depressional	0 - 1	24.60	Partially	Yes	Low
Ls	Lincoln soils	0 - 2	17249.19	Yes	No	Low
LuB	Lutie silty clay loam	1 - 3	2978.02	No	Yes	Low
LuB	Lutie silt loam	1 - 3	2423.47	No	Yes	Low
LuC	Lutie silty clay loam	3 - 6	6968.61	No	No	Low
LuC	Lutie silt loam	3 - 5	3979.10	No	Yes	Low
LwB	Lutie and Cottonwood soils	1 - 4	2934.46	No	No	Low
Lx	Lutie-Quinlan-Cottonwood complex	3 - 20	38585.33	No	No	Low
Ly	Lincoln and Yahola soils	0 - 2	5544.11	Partially	No	Low
LyA	Lockney clay	0 - 1	1222.41	No	No	Low
MaB	Veal fine sandy loam	1 - 3	727.33	No	Yes*	Low
MaB	Veal fine sandy loam	0 - 3	1704.33	No	Yes*	Low
MaC	Veal fine sandy loam	3 - 5	4726.34	No	Yes*	Low
MaD	Veal fine sandy loam	5 - 8	1297.68	No	No	Low
MaD	Veal fine sandy loam	5 - 12	6072.88	No	No	Low
McA	McLean clay, occasionally ponded	0 - 1	8136.81	No	No	Low
Md	Veal-Woodward complex	8 - 16	12318.29	No	No	Low
MeA	Miles and Altus soils	0 - 1	10346.04	No	Yes*	Low
MeA	Mansker and Estacado soils	0 - 1	31.23	No	No	Low
MeB	Miles loamy fine sand	0 - 3	16003.80	No	No	Low
MeB	Mansker and Estacado soils	1 - 3	39.07	No	No	Low
MeC	Miles loamy fine sand	3 - 5	4463.50	No	No	Low
MfA	Altus fine sandy loam	0 - 1	2788.99	No	Yes*	Low
MfA	Miles fine sandy loam	0 - 1	6597.15	No	Yes*	Low
MfB	Altus-Grandfield complex	1 - 3	10235.44	No	Yes*	Low
MfB	Miles fine sandy loam	1 - 3	80360.92	No	Yes*	Low
MfC	Grandfield fine sandy loam	3 - 5	4673.55	No	Yes*	Low
MfC	Miles fine sandy loam	3 - 5	17327.13	No	Yes*	Low
MfC2	Grandfield fine sandy loam, eroded	3 - 5	658.29	No	No	Low
MfC2	Miles fine sandy loam, eroded	3 - 5	1727.16	No	No	Low
MfD	Miles fine sandy loam	5 - 8	1035.80	No	No	Low
MfD2	Grandfield fine sandy loam, eroded	5 - 8	2426.58	No	No	Low
MfE	Miles fine sandy loam	5 - 8	6389.75	No	No	Low
MiA	Miles fine sandy loam	0 - 1	2242.63	No	No	Low
MiB	Miles fine sandy loam	1 - 3	2772.16	No	No	Low
MkB	Mansker clay loam	1 - 3	1343.79	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
MkB	Mansker loam	0 - 3	1745.94	No	No	Low
MkC	Mansker clay loam	3 - 5	3771.30	No	No	Low
MkC	Mansker loam	3 - 5	2033.10	No	No	Low
MlB	Miles loamy fine sand	0 - 3	59420.20	No	No	Low
MlC	Miles loamy fine sand	3 - 8	4254.58	No	No	Low
MmA	Tipton loam	0 - 1	5175.93	No	Yes	Low
MmB	Tipton loam	1 - 2	15536.59	No	Yes	Low
MmB	Miles loamy fine sand	0 - 3	19183.05	No	No	Low
MmC	Miles loamy fine sand	3 - 5	3032.92	No	No	Low
MoB	Mobeetie fine sandy loam	0 - 3	592.23	No	No	Low
MoB	Mobeetie fine sandy loam	1 - 3	123.42	No	No	Low
MoB	Mobeetie fine sandy loam	0 - 3	2081.60	No	Yes*	Low
MoC	Mobeetie fine sandy loam	3 - 5	4713.59	No	Yes*	Low
MoE	Mobeetie fine sandy loam	5 - 12	2285.02	No	No	Low
MrC	Mobeetie fine sandy loam	1 - 5	14.85	No	Yes*	Low
MrD	Mobeette fine sandy loam	5 - 8	14.53	No	No	Low
Ms3	Miles soils, severely eroded	3 - 5	4771.68	No	No	Low
MsB	Grandfield loamy fine sand	0 - 3	2809.19	No	No	Low
MsB	Midessa fine sandy loam	1 - 3	272.00	No	No	Low
MsC	Grandfield loamy fine sand	3 - 5	1441.14	No	No	Low
MtA	Motley loam	0 - 1	14809.29	No	Yes	Low
MtB	Motley loam	1 - 3	344.88	No	Yes	Low
M-W	Miscellaneous water	NA	44.05	NA	NA	Low
Nb	Nobscot fine sand	2 - 6	2493.38	No	No	Moderate
Nc	Spur clay loam	0 - 1	1348.51	Partially	Yes	Low
No	Yomont silt loam	0 - 1	6360.34	Partially	Yes	Low
NoE	Nobscot soils	3 - 12	6555.08	No	No	Moderate
ObB	Obaro loam	1 - 3	3234.52	No	No	Low
ObC	Obaro loam	3 - 5	9709.96	No	No	Low
ObC2	Obaro silt loam, eroded	3 - 5	622.76	No	No	Low
OBD	Obaro and Quinlan soils	5 - 12	1446.68	No	No	Low
OcA	Olton clay loam	0 - 1	9453.14	No	Yes	Low
OcB	Olton clay loam	1 - 3	24256.61	No	Yes	Low
OcE	Obaro-Burson complex	3 - 12	2567.62	No	No	Low
OQE	Obaro and Quinlan soils, rolling	8 - 12	23367.18	No	No	Low
OtA	Olton clay loam	0 - 1	6587.34	No	Yes	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
OtA	Olton loam	0 - 1	11126.26	No	Yes	Low
OtA	Sagerton loam	0 - 1	6296.21	No	Yes	Low
OtB	Olton clay loam	1 - 3	11119.50	No	Yes	Low
OtB	Olton loam	1 - 3	13209.04	No	Yes	Low
OtB	Sagerton loam	1 - 3	15415.74	No	Yes	Low
OuD	Obaro and Quinlan soils, rolling	5 - 12	6432.95	No	No	Low
PaA	Paloduro loam	0 - 1	3390.41	No	Yes	Low
PaA	Paloduro loam	0 - 1	1949.48	No	Yes*	Low
PaB	Paloduro loam	1 - 3	2980.44	No	Yes	Low
PaB	Paloduro loam	1 - 3	2599.95	No	Yes*	Low
PaB	Paducah silt loam	1 - 3	65.96	No	Yes	Low
PaC	Paducah loam	3 - 5	365.41	No	Yes	Low
PaC	Paducah silt loam	3 - 5	281.43	No	Yes	Low
PcC	Pep clay loam	3 - 5	10.91	No	No	Low
PGE	Potter soils	3 - 20	318.37	No	No	Low
PME	Polar-Mobeetie association, hilly	10 - 30	8166.00	No	No	Low
PnC	Posey-Mansker complex	3 - 5	191.92	No	Yes*	Low
PoB	Posey fine sandy loam	0 - 3	71.85	No	No	Low
PoC	Posey fine sandy loam	3 - 5	60.05	No	No	Low
PoD	Potter loam	3 - 20	397.06	No	No	Low
PrA	Portales clay loam	0 - 1	2172.37	No	No	Low
PsB	Posey fine sandy loam	1 - 3	193.56	No	No	Low
PtB	Nobscot fine sand	1 - 4	2548.90	No	No	Moderate
PTD	Posey and Tulia loams	3 - 12	5255.32	No	No	High
PuA	Pullman clay loam	0 - 1	601281.13	No	Yes	Low
PuB	Pullman clay loam	1 - 3	28956.84	No	Yes	Low
QBG	Quinlan and Burson soils, hilly	10 - 30	72057.53	No	No	Low
QuD	Quinlan loam	3 - 12	4593.89	No	No	Low
QuE	Quinlan-Woodward loams	8 - 20	16744.17	No	No	Low
Qw	Quinlan-Woodward loams	5 - 12	74548.63	No	No	Low
Qw	Quinlan-Woodward complex	5 - 20	85448.96	No	No	Low
Ra	Randall clay	0 - 1	19112.81	Partially	No	Low
RaA	Randall clay, frequently ponded	0 - 1	20255.78	Partially	No	Low
RaA	Randall clay	0 - 1	172.76	Yes	No	Low
Rb	Rough broken land	12 - 60	7422.16	No	No	Low
Rf	Rough broken land	12 - 60	12797.54	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
Ro	Lazbuddie clay	0 - 1	4172.85	Partially	No	Low
Ro	Rough broken land	20 - 45	11.38	No	No	Low
Ro	Lazbuddie clay	0 - 1	70.23	Yes	No	Low
Ro	Rough broken land	8 - 60	760.49	No	No	Low
RoA	Roscoe clay, rarely ponded	0 - 1	54.79	Partially	Yes	Low
RW	Riverwash	0 - 2	7310.49	No	No	Low
RW	Riverwash	NL	12543.83	No	No	Low
Rw	Rough broken land-Woodward complex	8 - 60	2484.47	No	No	Low
RW	Riverwash	NL	1151.26	No	No	NL
RW	River wash, frequently flooded	11	553.41	Partially	No	Low
RW	Riverwash	NL	16983.81	No	No	NL
RW	Riverwash	NL	6940.88	No	No	Low
Sa	Gracemore loamy fine sand, saline	0 - 1	5283.45	Partially	No	High
Sa	Lincoln loamy fine sand	0 - 2	12192.74	Partially	No	Low
SaA	Sagerton clay loam	0 - 1	3137.52	No	Yes	Low
SaB	Sagerton clay loam	1 - 3	5368.74	No	Yes	Low
Sb	Springer loamy fine sand, hummocky	3 - 5	2358.92	No	No	Low
SBA	Sprone and Bippus clay loams, 0 to 2 percent slopes, frequently flooded	0 - 2	485.76	No	No	Low
Sf	Springer loamy fine sand, undulating	0 - 3	4634.22	No	No	Low
Sf3	Springer soils, severely eroded	3 - 8	2514.49	No	No	Low
SfB	Devol loamy fine sand, undulating	0 - 5	8673.25	No	No	Low
SfC	Springer fine sandy loam	3 - 5	5633.51	No	Yes*	Low
SfD	Springer loamy fine sand	3 - 8	4087.04	No	No	Low
SfD	Springer fine sandy loam	5 - 8	10726.55	No	No	Low
SgB	Springer loamy fine sand, undulating	0 - 3	7207.28	No	No	Low
SgD	Springer loamy fine sand, hummocky	1 - 8	23571.63	No	No	Low
Sm	Spur loam	0 - 1	6562.16	Partially	Yes	Low
Sn	Springer-Heatly-Blown-Out land complex	0 - 5	15968.09	No	No	Low
Sn3	Devol and Nobscot soils, severely eroded	1 - 8	7857.54	No	No	Low to Moderate
SnD	Devol and Nobscot soils, hummocky	1 - 8	4926.38	No	No	Low to Moderate
So	Spur and Yahola soils	0 - 1	2565.66	Partially	Yes**	Low
Sp	Spur loam	0 - 1	810.35	Partially	Yes	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
Sp	Spur clay loam	0 - 1	4833.83	Yes	Yes	Low
Sp	St. Paul silt loam	0 - 1	102.74	No	Yes	Low
SpA	St. Paul silt loam	0 - 1	12396.37	No	Yes	Low
SpA	St. Paul silt loam, 0 to 1 percent slopes	0 - 1	9959.62	No	Yes	Low
SpB	St. Paul silt loam	1 - 2	789.95	No	Yes	Low
SpB	St. Paul silt loam, 1 to 2 percent slopes	1 - 2	2677.97	No	Yes	Low
SpB	Springer loamy fine sand	0 - 3	7948.63	No	No	Low
SpD	Springer loamy fine sand	3 - 8	435.14	No	No	Low
SPY	Spillway	NL	7.82	No	No	Low
Sr	Spur and Colorado soils	0 - 1	4177.02	Yes	Yes**	Low
SrB	Shrewder fine sandy loam	1 - 3	2345.81	No	No	Low
SrC	Shrewder fine sandy loam	3 - 5	1423.38	No	No	Low
SrD	Shrewder fine sandy loam	5 - 12	3879.50	No	No	Low
StA	Stamford clay	0 - 1	712.41	No	No	Low
Sw	Sweetwater soils	0 - 3	260.96	Yes	No	Low
TcB	Tillman clay loam	1 - 3	1838.64	No	Yes	Low
Tf	Tivoli fine sand	5 - 30	4375.57	No	No	Low
TfF	Tivoli fine sand	5 - 15	3742.68	No	No	Low
TMG	Tascosa and Mobeetie soils	3 - 30	3540.64	No	No	Low
TpA	Westview clay loam	0 - 1	6514.68	No	Yes	Low
TpA	Texroy loam	0 - 1	15415.22	No	Yes	Low
TpB	Westview clay loam	1 - 3	1139.49	No	Yes	Low
TpB	Texroy loam	1 - 3	3292.59	No	Yes	Low
Ts	Texroy loam, somewhat poorly drained	0 - 1	480.02	No	Yes	Low
TuB	Tulia loam	1 - 3	1001.59	No	No	Low
TuB	Tulia loam	1 - 3	1201.55	No	Yes*	Low
TuC	Tulia loam	3 - 5	326.78	No	No	Low
TuC	Tulia loam	3 - 5	2217.68	No	Yes*	Low
Tv	Likes fine sand	5 - 30	12795.40	No	No	Low
Tv	Tivoli fine sand	5 - 20	9823.63	No	No	Low
Tv	Likes fine sand	5 - 15	78.97	No	No	Low
Tv	Tivoli fine sand	5 - 15	20821.08	No	No	Low
Tv	Tivoli fine sand	5 - 30	8.58	No	No	Low
TxD	Tulia and Pep soils	5 - 8	7733.69	No	No	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
VcB	Vernon-Weymouth clay loams	1 - 3	7069.28	No	No	Low
VcC	Knoco-Weymouth clay loams	3 - 5	822.56	No	No	Low
Ve	Knoco-Badland complex	1 - 8	26014.05	No	No	Low
VeC	Veal fine sandy loam	1 - 6	288.99	No	No	Low
Vx	Knoco-Burson complex	1 - 30	9211.43	No	No	Low
WcA	Wichita loam	0 - 1	9342.93	No	Yes	Low
WcB	Wichita loam	1 - 3	3841.24	No	Yes	Low
WeB	Weymouth loam	1 - 3	5778.58	No	Yes*	Low
WeC	Weymouth loam	3 - 5	21358.68	No	Yes*	Low
WlA	Wichita-Lutie loams	0 - 2	18900.14	No	Yes	Low
WlB	Woodward loam	1 - 3	1159.19	No	Yes*	Low
WlC	Wichita-Lutie loams	2 - 6	5727.71	No	No	Low
WlC	Woodward loam	3 - 5	3595.39	No	Yes*	Low
WlC2	Wichita-Lutie loams, eroded	2 - 6	969.04	No	No	Low
WoB	Woodward loam	1 - 3	18509.83	No	Yes*	Low
WoC	Woodward loam	3 - 5	54072.63	No	Yes*	Low
WoD	Woodward-Yomont complex	0 - 15	13332.20	Partially	No	Low
WQD	Woodward-Quinlan association, rolling	5 - 8	25477.21	Partially	No	Low
Wr	Woodward soils and rough broken land	5 - 60	2632.18	No	No	Low
Wu	Woodward and Quinlan loams	5 - 12	2699.35	No	No	Low
WuC	Woodward-Quinlan loams	2 - 5	9221.51	No	Yes*	Low
WwD	Woodward-Quinlan loam	5 - 12	130997.57	No	No	Low
Wy	Woodward-Yahola-Breaks complex	0 - 25	32732.09	Yes	No	Low
Ya	Yahola fine sandy loam	0 - 1	1167.86	Partially	No	Low
Ya	Yahola fine sandy loam	0 - 1	3009.48	Yes	Yes*	Low
Ya	Yomont very fine sandy loam	0 - 1	175.78	No	Yes	Low
Ya	Yahola fine sandy loam	0 - 1	625.67	Partially	Yes*	Low
Yf	Yahola fine sandy loam, frequently flooded	0 - 1	1814.12	Partially	No	Low
Yf	Yahola fine sandy loam	0 - 2	3591.95	Partially	Yes*	Low
Yo	Yomont very fine sandy loam	0 - 1	1309.90	Partially	Yes	Low
Ys	Yomont-lincoln soils	0 - 1	2550.67	Partially	No	Low
Yv	Yomont very fine sandy loam	0 - 1	8537.81	Partially	Yes	Low
ZmA	Zita loam	0 - 1	683.31	No	Yes	Low
ZmB	Zita loam	1 - 3	339.92	No	Yes	Low

TABLE 4-1

Soil Types in the Study Area

Map Unit Symbol	Soil Type	Percent Slopes	Area (acres)	Hydric Soil	Prime Farmland	Risk of Corrosion (Concrete)
Total (acres)			3,387,704.99	261,980.41	1,613,421.38	11,161.82

Notes:

Yes * - Prime farmland if irrigated

Yes ** - Prime farmland if protected from flooding or not frequently flooded during the growing season

Yes *** - Prime farmland if irrigated and drained

NA - Not applicable

NL - Not listed

Surface areas covered by water per National Resources Conservation Service are not included in the above tabulation.

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