Soil Type Affected Cowpea Forage Mineral Content

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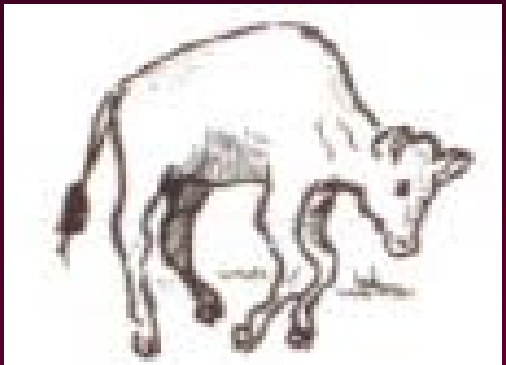
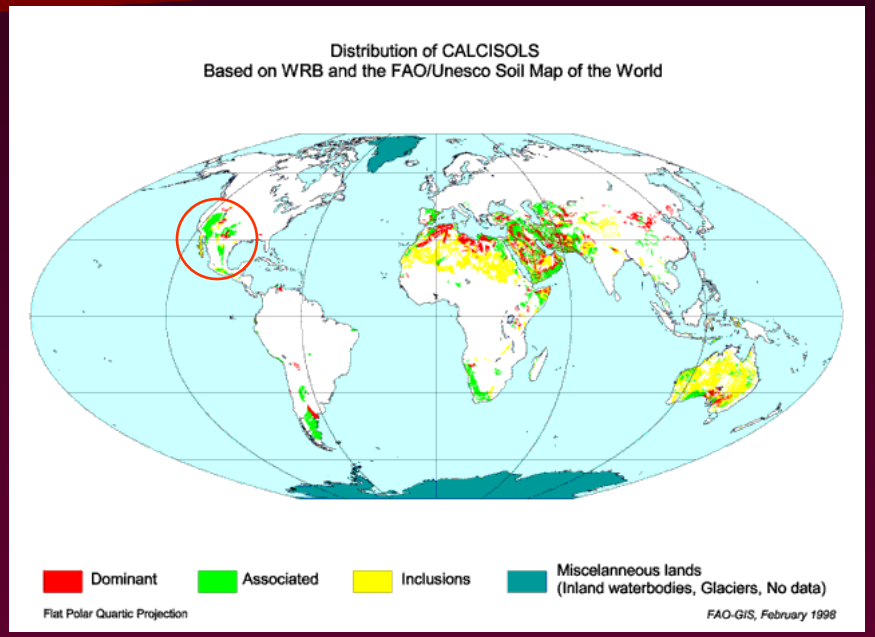
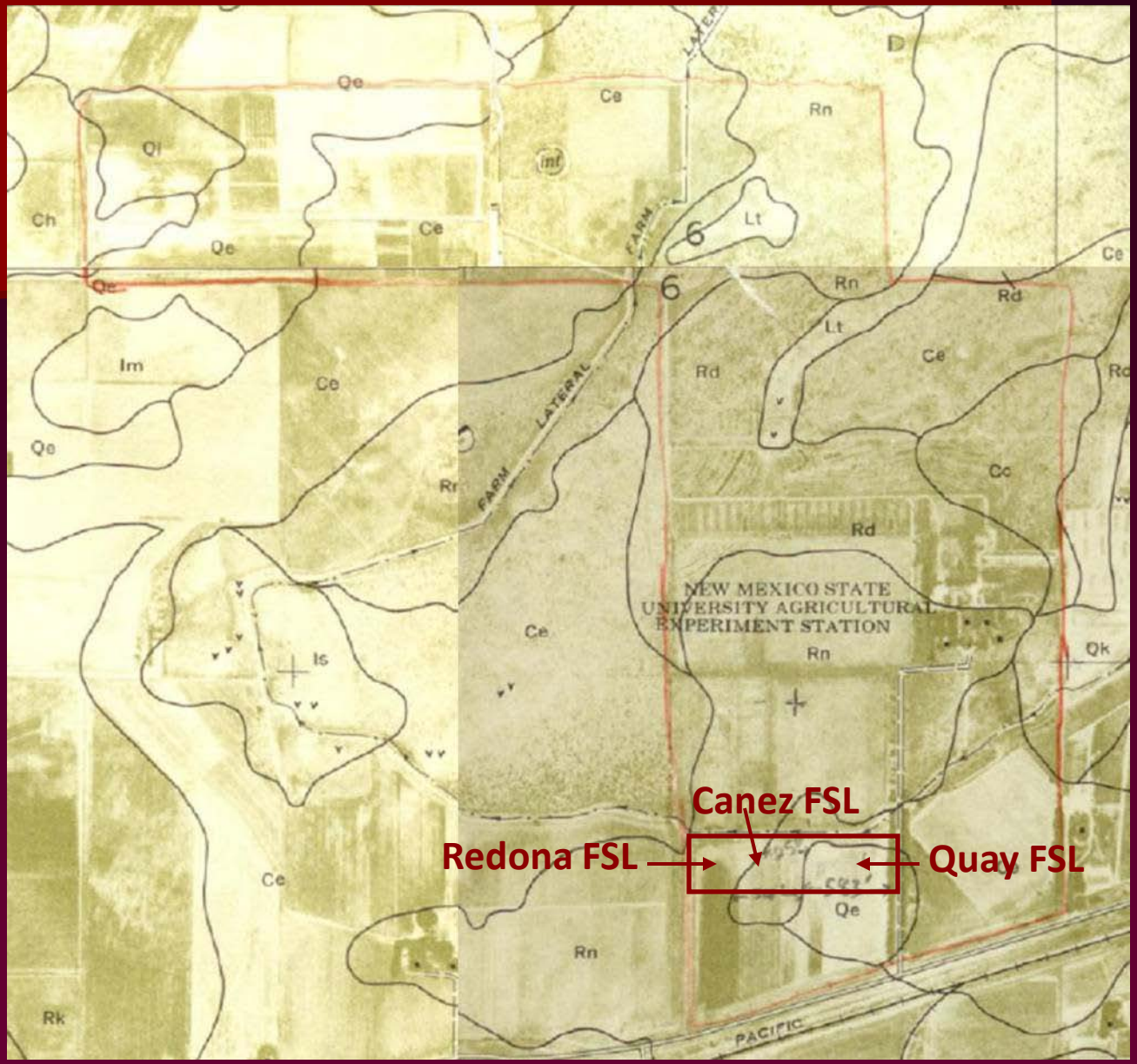
Feed source	Average composition of feeds			Price/ton 10-May
	Ca, % of DM	P, % of DM	Ca:P	
Cowpea, common hay, sun-cured	1.36	0.34	3.94:1	$103.00
Corn, yellow dent, grade 2	0.02	0.34	0.06:1	$130.00
Cottonseed meal (CSM), 41% CP solvent extracted	0.17	1.30	0.13:1	$170.00
67-28-5% Corn-cowpea-CSM finishing ration	0.61	0.39	1.56:1	$124.44



Ensminger, M.E. 1978. The Stockman's Handbook.

Ensminger, M.E., and C.G. Olentine. 1978. Feeds and Nutrition.


Distribution of CALCISOLS
Based on WRB and the FAO/Unesco Soil Map of the World
Dominant
Associated
Inclusions
Miscelanneous lands
(Inland waterbodies, Glaciers, No data)
Flat Polar Quartic Projection
FAO-GIS, February 1998


Canez FSL
Redona FSL
Quay FSL
NEW MEXICO STATE
UNIVERSITY AGRICULTURAL
EXPERIMENT STATION
FARM LATERAL
PACIFIC

Variable	Soil type			P-value	LSD, 0.05
	Canez	Quay	Redona		
pH	8.25	8.25	8.25	1.0000	NS
Salts, mmhos	0.35	0.38	0.30	0.0755	NS
OM, %	1.40	1.20	1.15	0.0455	0.18
P, ppm	18	19	19	0.9643	NS
K, ppm	224	136	313	0.0230	83
S, ppm	16	25	12	0.2311	NS
Zn, ppm	0.55	0.31	0.69	0.1539	NS
Fe, ppm	2.65	1.80	3.95	0.0050	0.47
Mn, ppm	4.10	3.10	4.55	0.2034	NS
Cu, ppm	0.26	0.19	0.45	0.0279	0.14
Ca, ppm	3830	3588	3366	0.1826	NS
Mg, ppm	293	252	338	0.3030	NS
Na, ppm	35	40	35	0.8445	NS
B, ppm	0.19	0.19	0.30	0.0629	NS
WHC	1.5	1.0	2.0		

Soil type	SPAD	Ca, % of DM	P, % of DM	Ca:P	K, % of DM
Canez	48	3.63	0.43	8.58:1	2.22
Quay	39	3.70	0.38	9.72:1	2.19
Redona	68	2.79	0.49	5.70:1	3.04
P-value	0.0072	0.0001	0.0069	0.0006	0.0003
LSD, 0.05	16	0.26	0.06	1.46:1	0.43
Artesia, NM cowpea data (wet chemistry)	-------	2.54	0.46	5.52:1	2.91

Soil type	Ca, % of DM	P, % of DM	Ca:P	Price/ton 10-May
67-28-5% Corn-cowpea-CSM, Book values	0.61	0.39	1.56:1	$124.44
67-28-5% Corn-Cowpea-CSM, Canez	1.04	0.41	2.54:1	$124.44
67-28-5% Corn-Cowpea-CSM, Quay	1.06	0.40	2.65:1	$124.44
67-28-5% Corn-Cowpea-CSM, Redona	0.80	0.43	1.86:1	$124.44

Feed source	Average composition of feeds			Price/ton 10-May
	Ca, % of DM	P, % of DM	Ca:P	
Cowpea, common hay, sun-cured	1.36	00.34	3.94:1	$103.00
Corn, yellow dent, grade 2	0.02	00.34	0.06:1	$130.00
Cottonseed meal (CSM), 41% CP solvent extracted	0.17	01.30	0.13:1	$170.00
Monoammonium phosphate (MAP), 71% CP	0.00	24.00	----	$1,115.00
	Finishing rations			
67-28-5% Corn-cowpea-CSM	0.61	00.39	1.56:1	$124.44
67-28-4.25-0.75% Corn-Cowpea-CSM-MAP, Canez	1.04	00.58	1.79:1	$131.53
67-28-4-1% Corn-Cowpea-CSM-MAP, Quay	1.06	00.62	1.71:1	$133.89
67-28-5% Corn-Cowpea-CSM, Redona	0.80	00.43	1.86:1	$124.44

Soil type	SPAD	Ca, % of DM	P, % of DM	Ca:P	K, % of DM
Canez	48	3.63	0.43	8.58:1	2.22
Quay	39	3.70	0.38	9.72:1	2.19
Redona	68	2.79	0.49	5.70:1	3.04
P-value	0.0072	0.0001	0.0069	0.0006	0.00
LSD, 0.05	16	0.26	0.06	1.46:1	0.43

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Got Questions?

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