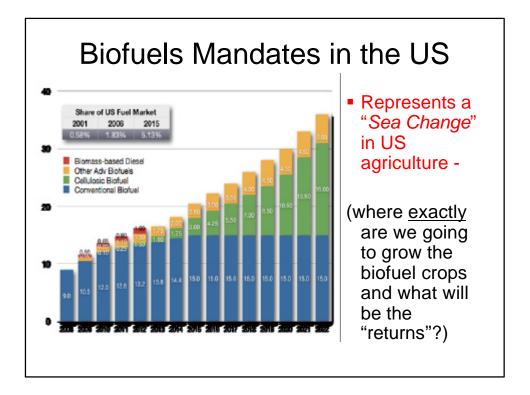
The Impact of Indirect Land Use Change (ILUC)

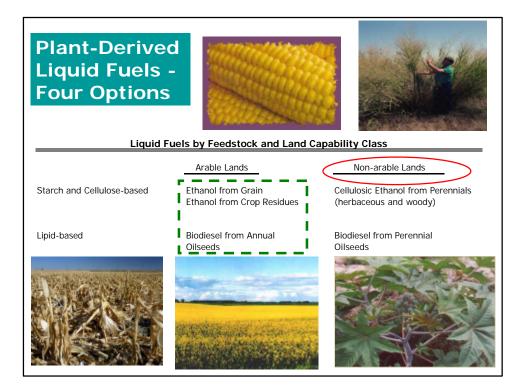
Assessing Land Uses and Possible Sustainable Transition Paths to Biofuels Development

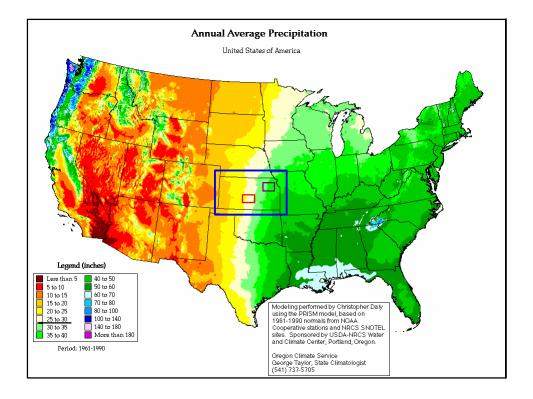
May 12th, 2009

Rotterdam

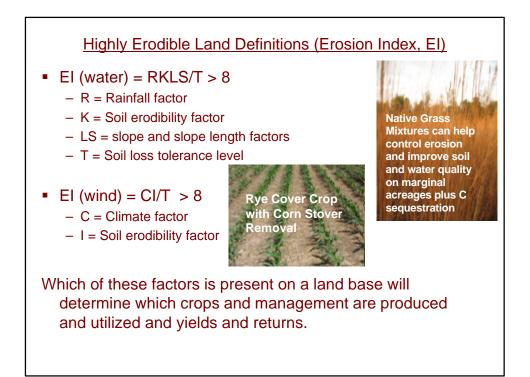
Richard Nelson Kansas State University rnelson@ksu.edu

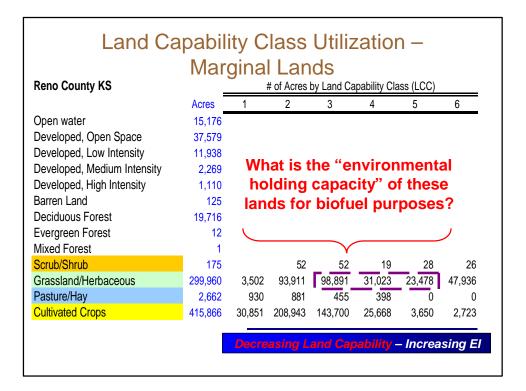


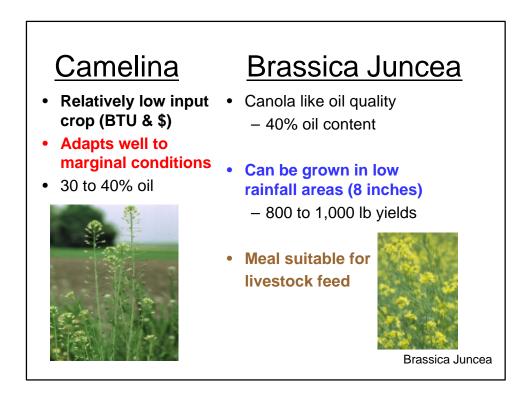


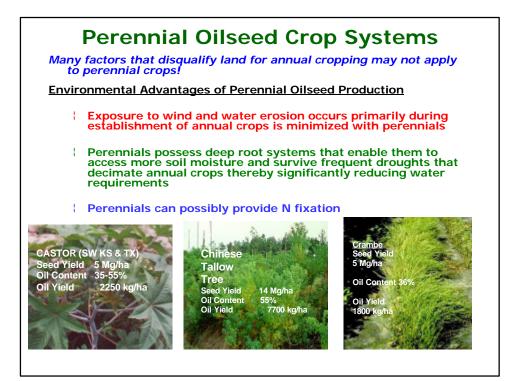












Selective Targeting of Soils within a County for Biomass Removal, Production, and Environmental Enhancement Jefferson County, Kansas (NE Kansas)								
County & Soil	Area (acres)	Erosion Index (EI)	Maximum Switchgrass Yield (tons/ acre)	Minimum Switchgrass Yield (tons/ acre)	Average Switchgrass Yield (tons/acre)	Average Annual C Sequestration Potential (tons/acre/year)	Total Switchgrass Production (tons) at 25% Penetration	Total Gallons o Bioethanol
STEINAUER	10	24.06	12.44	0.25	5.22	0.7158	13	95
KONAWA	692	11.13	11.63	1.29	5.72	0.7600	990	74,22
MARTIN	38,493	14.97	12.82	1.48	6.29	0.8098	60.501	4,537,61
PAWNEE	100,805	11.97	10.99	1.25	5.57	0.7469	140,442	10,533,11
SHELBY	46,837	12,99	11.43	1.27	5.44	0.7349	63,657	4,774,29
OSKA	15,058	37.28	8.98	0.17	4.07	0.6151	15,337	1,150,30
SOGN	8,174	28.93	4.52	0.01	1.76	0.4110	3,587	269,00
JUDSON	2,314	9.06	13.78	0.78	6.30	0.8111	3,646	273,42
VINLAND	39,462	47.62	6.16	0.01	2.59	0.4846	25,569	1,917,69
SIBLEYVILLE	3,173	15.10	7.84	0.14	3.34	0.5505	2,650	198,74
KENNEBEC	16,988	2.97	14.87	1.52	7.03	0.8753	29,862	2,239,62
GYMER	3,647	4.74	12.85	1.45	6.43	0.8223	5,862	439,63
WABASH	8,379	3.93	12.16	1.32	5.81	0.7675	12,163	912,19
EUDORA	7,675	7.63	10.71	1.18	5.34	0.7264	10,246	768,42
READING	6,127	3.40	12.45	1.43	6.24	0.8055	9,571	717,82
GRUNDY	28,986	3.93	11.72	1,40	5.89	0.7746	42,664	3,199,81
KIMO	4,400	3.40	11.59	1.26	5.62	0.7508	6,178	463,33
MORRILL	2,572	7.63	10.68	1.27	5.40	0.7320	3,475	260,62
HAIG	1,622	3.93	10.59	1.03	5.30	0.7229	2,149	161,19
WYMORE	320	6.68	9.85	1.10	4.98	0.6945	398	29,83
SARPY	1,404	5.48	8.70	0.96	4.48	0.6510	1.574	118,04

