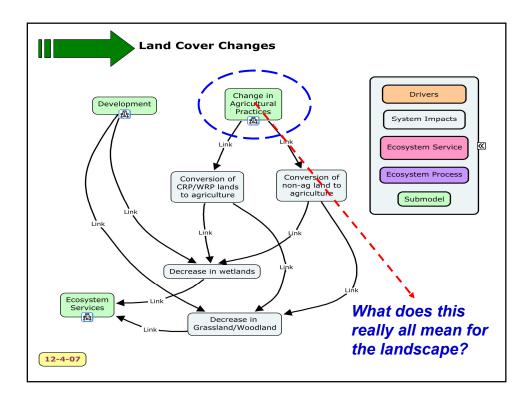
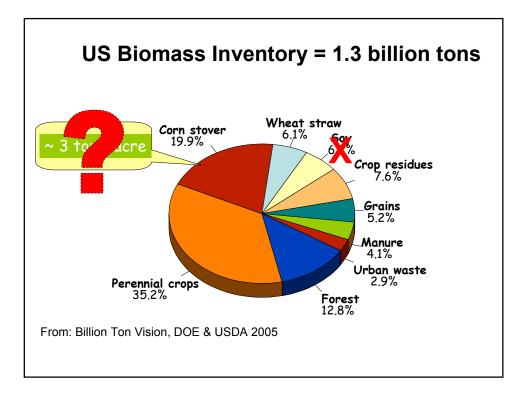


<u>Annı</u>	<u>ial Oils &amp;</u>	Fats – <b>Incr</b>	eases up	o to 2015				
Food us	e 4-5 million m	etric tonnes (mmt)	Non-food u	se 5-6 mmt				
<ul> <li>Biodiese</li> <li>2015</li> </ul>	el production pro 5 ~ 50 million	jections: metric tonnes						
<ul> <li>Annual r</li> </ul>	equirement: <u>~1</u>	0 million metric to	onnes per ye	<u>ar</u>				
\$US/tonne for 4 major world oilseeds								
	palm	soya	rape	sun				
05/06	416	573	770	635				
06/07	655	771	852	846				
	<mark>havoc on world</mark> k Gunderson, Sco	oils and fats mark	ets for both fo	ood and fuel				





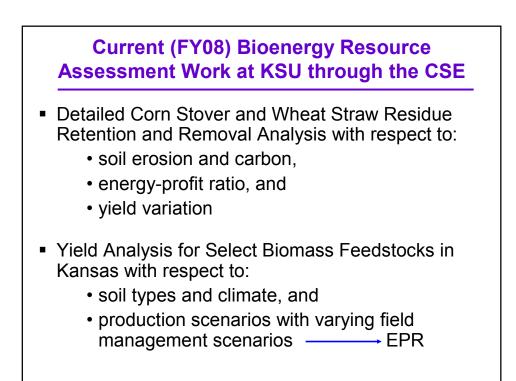
## Life-cycle Analyses (LCA)

- What is the "best" model or is there one?
- What inputs are considered?
- How are these inputs estimated, determined, etc?
- Who are we doing this for and do they know what it really means?

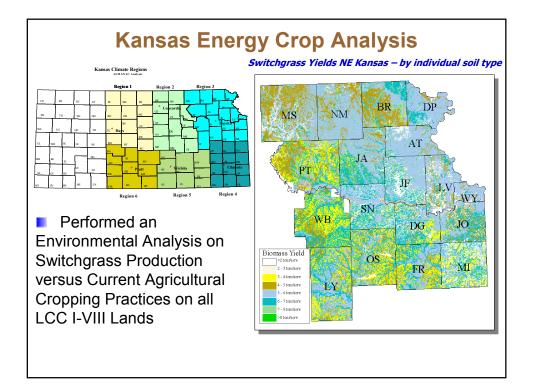
## Real need worldwide exists for standardization of input parameters and understanding of what output values really mean

## Some Thoughts Regarding Resource Assessment & Biofuels Supply

- There is much we don't know about sustainable biofuels production
  - long-term effect (+/-) on soil tilth
  - what is the "net" effect versus the current alternatives
- National studies are <u>possibly</u> o.k. to get an "order of magnitude" view, but all biofuels production (<u>like politics</u>) is local; need to evaluate all resources on a localized basis
- Kansas, I believe, has much to offer in the way of biofuel feedstock production, but it needs to be carefully examined in the context of "sustainability" and not quickly jump on the bandwagon because everyone else is doing it



	(bushels/ acre)	Gross (tons/acre)	Annual Average Residue Remain (tons/acre)	Residue Remove (tons/acre)	Annual Average Residue Remain (tons/acre)	Residue Remove (tons/acre)	Annual Average Residue Remain (tons/acre)	Residue Remove (tons/acre)	Acres		S <sup>i</sup>
	02.00	2.20	1 225	0.062	0.620	1 559	0.002	2 104	0.050	5	1
											2
											3
											4
											5
											e
											7
											8
			0.67		0.328		0.03				ç
ALLEN	92.88	2.20	0.889	1.308	0.446	1.751	0.051	2.146	12.218	5	1
ALLEN	92.88	2.20	0.202	1.995	0.088	2.109	0.003	2.194	98	5	1
ALLEN	92.88	(2.20)	2.806	0	1.569	0.628	0.419	1.778	29,705	5	1
ALLEN	92.88	2.20	7.347	0	4.497	0	2.444	0	1	3	1
ALLEN	92.88	2.20	7.731	0	4.755	0	2.683	0	4,968	3	1
ALLEN	92.88	2.20	7.347	0	4.497	0	2.444	0	1,477	3	1
ALLEN	92.88	2.20	6.861	0	4.173	0	2.156	0.041	16	5	1
ALLEN	92.88	2.20	8.418	0	5.219	0	3.136	0	12,559	2	1
ALLEN	92.88	2.20	6.433	0	3.889	0	1.916	0.281	1,763	3	1
ALLEN	92.88	2.20	5.191	0	3.075	0	1.293	0.904	37	4	1
ALLEN	92.88	2.20	3.418	0	1.947	0.25	0.602	1.596	438	3	2
	ALLEN ALLEN ALLEN ALLEN ALLEN ALLEN ALLEN	ALLEN         92.88           ALLEN         92.88	ALLEN         92.88         2.20           ALLEN <td< td=""><td>(tons/acre)           ALLEN         92.88         2.20         1.235           ALLEN         92.88         2.20         5.992           ALLEN         92.88         2.20         4.752           ALLEN         92.88         2.20         4.669           ALLEN         92.88         2.20         4.366           ALLEN         92.88         2.20         4.361           ALLEN         92.88         2.20         1.657           ALLEN         92.88         2.20         0.67           ALLEN         92.88         2.20         0.67           ALLEN         92.88         2.20         0.89           ALLEN         92.88         2.20         2.806           ALLEN         92.88         2.20         7.347           ALLEN         92.88         2.20         7.347           ALLEN         92.88         2.20         7.347           ALLEN         92.88         2.20         6.861           ALLEN         92.88         2.20         6.433           ALLEN         92.88         2.20         6.433           ALLEN         92.88         2.20         6.433      <tr< td=""><td>(tons/acre)           ALLEN         92.88         2.20         1.235         0.962           ALLEN         92.88         2.20         5.992         0           ALLEN         92.88         2.20         4.752         0           ALLEN         92.88         2.20         6.869         0           ALLEN         92.88         2.20         4.366         0           ALLEN         92.88         2.20         4.391         0           ALLEN         92.88         2.20         1.657         0.541           ALLEN         92.88         2.20         0.67         1.527           ALLEN         92.88         2.20         0.67         1.527           ALLEN         92.88         2.20         2.806         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         6.431         0           ALLEN         92.88         2.20         6.433         0           ALLEN</td><td>(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639           ALLEN         92.88         2.20         5.992         0         3.598           ALLEN         92.88         2.20         4.752         0         2.792           ALLEN         92.88         2.20         6.869         0         4.178           ALLEN         92.88         2.20         4.366         0         2.545           ALLEN         92.88         2.20         4.391         0         2.561           ALLEN         92.88         2.20         0.67         1.527         0.328           ALLEN         92.88         2.20         0.67         1.527         0.328           ALLEN         92.88         2.20         0.869         1.308         0.446           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         <t< td=""><td>(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558           ALLEN         92.88         2.20         5.992         0         3.598         0           ALLEN         92.88         2.20         4.752         0         2.792         0           ALLEN         92.88         2.20         4.366         0         2.545         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87           ALLEN         92.88         2.20         7.337         0         4.497         0           ALLEN         92.88         2.20         7.347         0         4.497         0           ALLEN         92.88</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         4.752         0         2.792         0         1.16           ALLEN         92.88         2.20         4.752         0         2.545         0         0.942           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16           ALLEN         92.88         2.20         0.667         1.527         0.328         1.37         0.03           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03           ALLEN         92.88         2.20         0.889         1.306         0.446         1.751         0.051           ALLEN         92.88         2.20         7.347         0         4.497</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245           ALLEN         92.88         2.20         4.366         0         2.561         0         0.952         1.245           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146           ALLEN         92.88         2.20         2.806         0         1.569         0.628         <t< td=""><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245         22,660           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87         0.03         2.167         1.921           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146         12.218</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258         5           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897         3           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216         5           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942         1.255         38,544         2           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660         5           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689         5           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167         1.921         3           ALLEN         92.88         2.20         0.667</td></t<></td></t<></td></tr<></td></td<>	(tons/acre)           ALLEN         92.88         2.20         1.235           ALLEN         92.88         2.20         5.992           ALLEN         92.88         2.20         4.752           ALLEN         92.88         2.20         4.669           ALLEN         92.88         2.20         4.366           ALLEN         92.88         2.20         4.361           ALLEN         92.88         2.20         1.657           ALLEN         92.88         2.20         0.67           ALLEN         92.88         2.20         0.67           ALLEN         92.88         2.20         0.89           ALLEN         92.88         2.20         2.806           ALLEN         92.88         2.20         7.347           ALLEN         92.88         2.20         7.347           ALLEN         92.88         2.20         7.347           ALLEN         92.88         2.20         6.861           ALLEN         92.88         2.20         6.433           ALLEN         92.88         2.20         6.433           ALLEN         92.88         2.20         6.433 <tr< td=""><td>(tons/acre)           ALLEN         92.88         2.20         1.235         0.962           ALLEN         92.88         2.20         5.992         0           ALLEN         92.88         2.20         4.752         0           ALLEN         92.88         2.20         6.869         0           ALLEN         92.88         2.20         4.366         0           ALLEN         92.88         2.20         4.391         0           ALLEN         92.88         2.20         1.657         0.541           ALLEN         92.88         2.20         0.67         1.527           ALLEN         92.88         2.20         0.67         1.527           ALLEN         92.88         2.20         2.806         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         6.431         0           ALLEN         92.88         2.20         6.433         0           ALLEN</td><td>(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639           ALLEN         92.88         2.20         5.992         0         3.598           ALLEN         92.88         2.20         4.752         0         2.792           ALLEN         92.88         2.20         6.869         0         4.178           ALLEN         92.88         2.20         4.366         0         2.545           ALLEN         92.88         2.20         4.391         0         2.561           ALLEN         92.88         2.20         0.67         1.527         0.328           ALLEN         92.88         2.20         0.67         1.527         0.328           ALLEN         92.88         2.20         0.869         1.308         0.446           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         <t< td=""><td>(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558           ALLEN         92.88         2.20         5.992         0         3.598         0           ALLEN         92.88         2.20         4.752         0         2.792         0           ALLEN         92.88         2.20         4.366         0         2.545         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87           ALLEN         92.88         2.20         7.337         0         4.497         0           ALLEN         92.88         2.20         7.347         0         4.497         0           ALLEN         92.88</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         4.752         0         2.792         0         1.16           ALLEN         92.88         2.20         4.752         0         2.545         0         0.942           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16           ALLEN         92.88         2.20         0.667         1.527         0.328         1.37         0.03           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03           ALLEN         92.88         2.20         0.889         1.306         0.446         1.751         0.051           ALLEN         92.88         2.20         7.347         0         4.497</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245           ALLEN         92.88         2.20         4.366         0         2.561         0         0.952         1.245           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146           ALLEN         92.88         2.20         2.806         0         1.569         0.628         <t< td=""><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245         22,660           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87         0.03         2.167         1.921           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146         12.218</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258         5           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897         3           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216         5           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942         1.255         38,544         2           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660         5           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689         5           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167         1.921         3           ALLEN         92.88         2.20         0.667</td></t<></td></t<></td></tr<>	(tons/acre)           ALLEN         92.88         2.20         1.235         0.962           ALLEN         92.88         2.20         5.992         0           ALLEN         92.88         2.20         4.752         0           ALLEN         92.88         2.20         6.869         0           ALLEN         92.88         2.20         4.366         0           ALLEN         92.88         2.20         4.391         0           ALLEN         92.88         2.20         1.657         0.541           ALLEN         92.88         2.20         0.67         1.527           ALLEN         92.88         2.20         0.67         1.527           ALLEN         92.88         2.20         2.806         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         7.347         0           ALLEN         92.88         2.20         6.431         0           ALLEN         92.88         2.20         6.433         0           ALLEN	(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639           ALLEN         92.88         2.20         5.992         0         3.598           ALLEN         92.88         2.20         4.752         0         2.792           ALLEN         92.88         2.20         6.869         0         4.178           ALLEN         92.88         2.20         4.366         0         2.545           ALLEN         92.88         2.20         4.391         0         2.561           ALLEN         92.88         2.20         0.67         1.527         0.328           ALLEN         92.88         2.20         0.67         1.527         0.328           ALLEN         92.88         2.20         0.869         1.308         0.446           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0         4.497           ALLEN         92.88         2.20         7.347         0 <t< td=""><td>(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558           ALLEN         92.88         2.20         5.992         0         3.598         0           ALLEN         92.88         2.20         4.752         0         2.792         0           ALLEN         92.88         2.20         4.366         0         2.545         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87           ALLEN         92.88         2.20         7.337         0         4.497         0           ALLEN         92.88         2.20         7.347         0         4.497         0           ALLEN         92.88</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         4.752         0         2.792         0         1.16           ALLEN         92.88         2.20         4.752         0         2.545         0         0.942           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16           ALLEN         92.88         2.20         0.667         1.527         0.328         1.37         0.03           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03           ALLEN         92.88         2.20         0.889         1.306         0.446         1.751         0.051           ALLEN         92.88         2.20         7.347         0         4.497</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245           ALLEN         92.88         2.20         4.366         0         2.561         0         0.952         1.245           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146           ALLEN         92.88         2.20         2.806         0         1.569         0.628         <t< td=""><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245         22,660           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87         0.03         2.167         1.921           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146         12.218</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258         5           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897         3           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216         5           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942         1.255         38,544         2           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660         5           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689         5           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167         1.921         3           ALLEN         92.88         2.20         0.667</td></t<></td></t<>	(tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558           ALLEN         92.88         2.20         5.992         0         3.598         0           ALLEN         92.88         2.20         4.752         0         2.792         0           ALLEN         92.88         2.20         4.366         0         2.545         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         4.391         0         2.561         0           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87           ALLEN         92.88         2.20         7.337         0         4.497         0           ALLEN         92.88         2.20         7.347         0         4.497         0           ALLEN         92.88	(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093           ALLEN         92.88         2.20         4.752         0         2.792         0         1.16           ALLEN         92.88         2.20         4.752         0         2.545         0         0.942           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16           ALLEN         92.88         2.20         0.667         1.527         0.328         1.37         0.03           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03           ALLEN         92.88         2.20         0.889         1.306         0.446         1.751         0.051           ALLEN         92.88         2.20         7.347         0         4.497	(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245           ALLEN         92.88         2.20         4.366         0         2.561         0         0.952         1.245           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146           ALLEN         92.88         2.20         2.806         0         1.569         0.628 <t< td=""><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245         22,660           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87         0.03         2.167         1.921           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146         12.218</td><td>(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258         5           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897         3           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216         5           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942         1.255         38,544         2           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660         5           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689         5           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167         1.921         3           ALLEN         92.88         2.20         0.667</td></t<>	(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216           ALLEN         92.88         2.20         4.366         0         2.545         0         0.952         1.245         22,660           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689           ALLEN         92.88         2.20         0.67         1.527         0.328         1.87         0.03         2.167         1.921           ALLEN         92.88         2.20         0.889         1.308         0.446         1.751         0.051         2.146         12.218	(tons/acre)         (tons/acre)         (tons/acre)           ALLEN         92.88         2.20         1.235         0.962         0.639         1.558         0.093         2.104         8,258         5           ALLEN         92.88         2.20         5.992         0         3.598         0         1.683         0.515         7,897         3           ALLEN         92.88         2.20         4.752         0         2.792         0         1.1         1.097         216         5           ALLEN         92.88         2.20         4.366         0         2.545         0         0.942         1.255         38,544         2           ALLEN         92.88         2.20         4.391         0         2.561         0         0.952         1.245         22,660         5           ALLEN         92.88         2.20         1.657         0.541         0.882         1.316         0.16         2.038         689         5           ALLEN         92.88         2.20         0.667         1.527         0.328         1.87         0.03         2.167         1.921         3           ALLEN         92.88         2.20         0.667



	elective	rargetin			, Kansas (N	omass Remova E 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 of 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	6,137	3.40		1.43	6.24	0.8055	9,571	717,82
GRUNDY	28,986			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

