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Kansas Department of Revenue Division of Property Valuation

January 22, 2015



- Why the current law?
- Legislators Recognized the Need for Special Use Appraisal of Agricultural
- In Kansas, property is to be valued at fair market value

Land.

- Insulate agricultural land owners from agriculture market influences outside of
- Supported by Farm Organizations.



- Legislation passed in 1985
- Implemented in 1989 along with the tax reappraisal). classification system (statewide
- "land devoted to agricultural use" Establishes valuation procedure for
- Uses a modified income approach to value agricultural land.



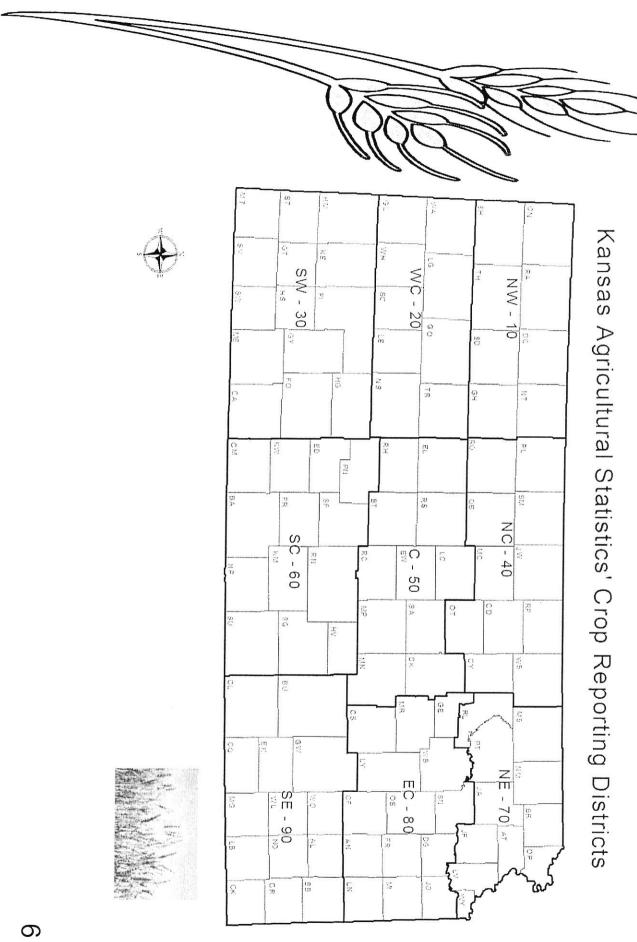
Value is to be based on:

- Use of the Land
- Cultivated **crop** land (dry and irrigated).
- **Grassland** (native and tame).
- Productivity of the Land.
- Simply put, better land should be valued higher valued lower than the average than the average. And poorer land should be
- Director shall adopt a classification system using criteria established by the USDA, Natural Resources Conservation Service (NRCS).
- Currently using the Soil Rating for Plant Growth (SRPG) index provided by NRCS



Procedures Continued

- Value to be based on:
- Management reflecting median production levels
- Average Yields (8-Yr. Avg.)
- Average Prices (8-Yr. Avg.)
- Average Grass Cash Rent (8-Yr. Avg.)
- Source: Kansas Agricultural Statistics
- 8-year average of Landlord Net Income (grass). (crop) or Landlord Net Rental Income
- 5-year average of Farm Credit Bank land loan rate to develop the capitalization rate



Kansas Agricultural Land Valuation

Basic Valuation Process

Landlord Gross Income

Landlord Expenses

Landlord Net Income
Capitalization Rate

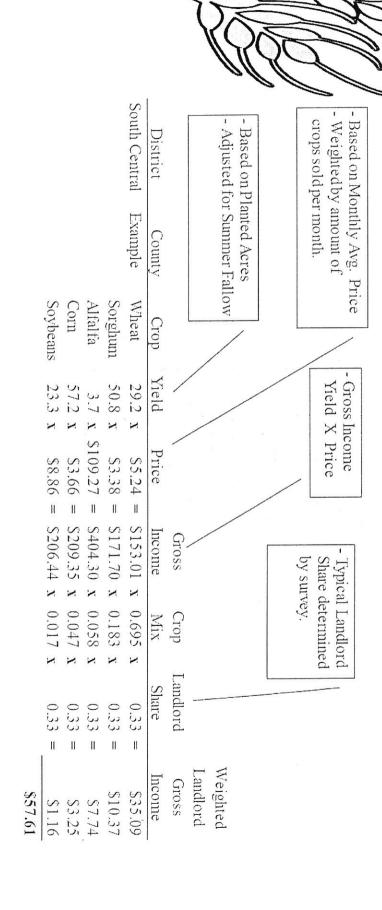
— Ag Use Appraised Value



Crop Land Valuation

- Landlord gross income is determined.
- Information from KS Ag Statistics
- Yields times Prices times Landlord's share weighted by crops grown.
- Landlord expenses deducted
- Management fee. (10% of gross) Landlord's typical share of expenses
- Landlord net income (LNI).
- LNI's provided for all soil map units for all counties. (Irrigated & Dry)

Calculation of LNI Dry Cropland



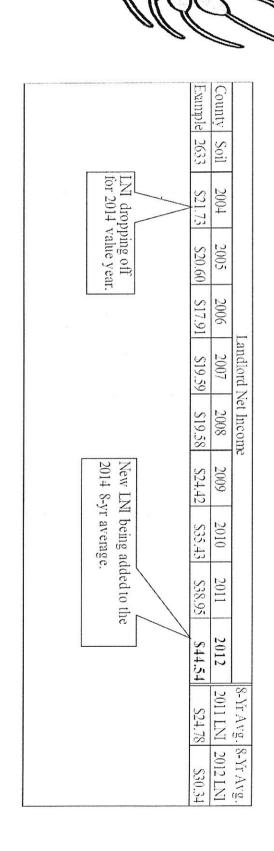
\$12.00 \$10.00 \$14.00 \$8.00 \$2.00 \$4.00 \$6.00 \$0.00 1987 1980 Crop Prices - 8 year average example 1907 7993 1995 700> 7999 2007 2003 2005 2007 2000 2077 7909 1996 1900 2000 2002 2004 ₹000 7000 2010 - Wheat Soybeans Sorghum Com

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Calculations Continued Dry Cropland

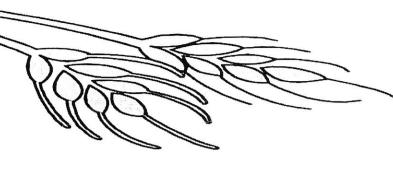
Gross Income are weighted by Crop Mix. Weighted Landlord Landlord County Crop Income Example Wheat Sorghum S10.37 Alfalfa S7.74 Soybeans S1.16 Con S3.25 Soybeans Landlord Production Costs Alfalfa Alfalfa S1.16 Alfalfa S1.16 Con S3.25 Soybeans Landlord Corp Con Con S1.16 Con Con Con S3.25 Con S4.64 Con Con S4.64 Con S5.34 Con Con S5.34 Con Con Con Con Con Con Con Co	The same of the sa	67 76 - 644 64	\$7.31 -	ı		\$57.61			
come Come Landlord Production Costs are weighted by Crop Mix. Weighted Weighted Landlord Landlord Landlord Landlord Manage-Crop Income Costs Mix Costs Charge Wheat S35.09 6.68 x 0.695 = \$4.64 Sorghum \$10.37 7.50 x 0.183 = \$1.37 Alfalfa \$7.74 8.53 x 0.058 = \$0.49 Corn \$3.25 14.58 x 0.047 = \$0.69		10000	\$0.11	0.017 =	6.61 x	\$1.16	Soybeans		
come cal are weighted by Crop Mix. The weighted are weighted by Crop Mix. Weighted Landlord Crop Landlord Landlord Manage- Gross Production Crop Production Ment Crop Income Costs Mix Costs Charge Wheat \$35.09 6.68 x 0.695 = \$4.64 Sorghum \$10.37 7.50 x 0.183 = \$1.37 Alfalfa \$7.74 8.53 x 0.058 = \$0.49			\$0.69	0.047 =		\$3.25	Corn		
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- Landlord Production Costs cal mty Weighted by Crop Mix. Weighted Landlord Crop Landlord Manage- Gross Production Crop Production Ment Crop Income Costs Mix Costs Charge			\$4.64		7	\$35.09	Wheat	South Central Example	
- Landlord Production Costs are weighted by Crop Mix. Weighted Landlord Cross Production Crop Production Manage-	Income	Charge	Costs	Mix	Costs	Income	Crop	District County	
- Landlord Production Costs are weighted by Crop Mix. Weighted Landlord Landlord Weighted 10% Landlord Manage-	Net.	Ment	Production	Crop	Production	Gross			
- Landlord Production Costs are weighted by Crop Mix. Weighted Weighted	Landlord	Manage-	Landlord		Landlord	Landlord			
		10%	Weighted			Weighted			
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			. 11 1	para.		/			
								(Crop Mix).	
					The second secon	Various 100 1100 201	nty	crops grown in county	
				Mix.	ighted by Crop	are we	cal	is weighted by typical	
				Costs	ord Production	- Landle	ome /	- Landlord Gross Income	

8-Year Summary Dry Cropland



8-Year Summary Dry Cropland

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			Northeast	Central	Southwest Stevens	District	
			Northeast Doniphan \$56.91 \$50.25 \$47.87 \$49.76 \$64.13 \$73.31 \$101.21 \$121.32 \$144.23 \$70.60 \$88.62	Central McPherson S29.66 S27.65 S21.94 S28.38 S24.72 S34.73 S44.30 S51.24		District County	
OTITO			\$56.91	\$29.66	\$4.44	2004	
LIVATI	LNI dropping		\$50.25	\$27.65	\$3.03	2005	LNI's re
		# # # # # # # # # # # # # # # # # # #	\$47.87	\$21.94	\$3.00	2006	flecting
95		1	\$49.76	\$28.38	\$3.66	2007	approxin
arozufo.	New LN		\$64.13	\$24.72	\$4.22	2008	nate aver
	I being a		\$73.31	\$34.73	\$3.73	2009	age for t
	dded to th		\$101.21	\$44.30	S5.64	2004 2005 2006 2007 2008 2009 2010 2011	LNI's reflecting approximate average for the county
	New LNI being added to the 2014 8-yr average		\$121.32	\$51.24	\$4.44 \$3.03 \$3.00 \$3.66 \$4.22 \$3.73 \$5.64 \$13.82	2011	
	yr		\$144.23			2012	
			\$70.60	\$49.17 \$32.83 \$38.97	S5.19 S7.37	2011	8-Yr Avg. 8-Yr Avg.
			\$88.62	\$38.97	S7.37	2012	8-Yr Avg.



Grass Land Valuation

- Cash rental rate is determined.
- Information from KS Ag Statistics
- Used as average gross income
- Landlord expenses deducted
- Fence ownership cost.Pasture maintenance cost.
- Watering cost.
- Management fee. (10% of gross)
- Landlord net rental income.



Capitalization is the division of a rate of return to estimate the value of the income stream, present income by an appropriate (Income / Rate = Value)

Or a composite rate used for property value. converting property income into

Cap Rate Comparison

								,	11	()		1		7	
Overall capitalization rate	Average agricultural tax rate:	Multiply by assessment rate:	Average rural levies:	OR not less than:	Capitalization Rate:	Directors Add on:	Statutory Add On Rate:	Five year average of loan rates:			loan rate:	/ ag land only	Farm Credit Bank		
	+	\times				+	+		2012	2011	2010	2009	2008	2007	ı
14.64%	3.64%	0.30	0.12119	11.00% 11.00%	8.67%	2.00%	0.75%	5.92%		4.97%	5.23%	5.77%	6.29%	7.32%	2013
14.64% 14.66%	3.66%	0.30	0.12119 0.12190	11.00%	8.20%	2.00%	0.75%	5.45%	4.97%	4.97%	5.23%	5.77%	6.29%		2014



- Value per acre calculation
- \$40 LNI divided by 14.66 % = \$273 / Ac
- 160Ac X 30% X .121900 = Tax on a quarter of land at \$273/Ac \$1,597