

2/10/17

Dear Kansas Lawmakers:

My name is Reid Shrauner. I farm in Southwest Kansas as well as the Oklahoma Panhandle. I am a 4<sup>th</sup> generation farmer. My great grandfather homesteaded in Morton County in 1907. He farmed dry land crops until his death in 1941. Irrigation began here in the 1950's and was developed continually through the 1990s. We have been blessed with good wells. My family's livelihood is dependent on irrigated farming put in place by my grandfather and father. I am 36 years old and have not personally drilled a water well, yet everything I do depends on irrigation. I feel that economic circumstances have almost forced us into growing the most irrigation intensive crop, corn. We desperately need a way to farm profitably using less water.

My father is nearly 70 years old, and he will not see the Ogallala aquifer depleted. We monitor the static water drawdown of our wells and one can mathematically predict the end. If I live as long as my dad and granddad, I believe I will see the end of agriculture irrigation as we know it.

I believe in meaningful water conservation. We are as efficient as we can be in our methods of irrigation; the real issue is the economics of our cropping options. I urge you to refer to Kansas State University extension's website, [agmanager.info](http://agmanager.info); specifically, crop budgets by practice and region. You will find that corn is the only crop option with a positive return.

The proposed bill HB 2182 seeks to deliver Kansas farmers like myself a cropping option that will be a less water intensive, yet profitable alternative to corn. This is an opportunity that does not come along everyday. We need to allow farmers and Kansas State to research the full potential of this crop. The products made from industrial hemp are beneficial, renewable, and legal. For Kansas to not seek to capitalize on this opportunity would be foolish.

Farm commodity prices are at historic lows, adjusted for inflation. Governor Brownback has made water a top priority. Kansas is the definition of an ag-based economy. There are numerous studies and predictions of what the western Kansas economy will look like post irrigation, it is not good.

We need to take this opportunity to help farmers be profitable, conserve water, and create much-needed additional tax base for the state and counties. Any opposition to HB 2182 would be a disservice to the state of Kansas.

Sincerely,



Reid Shrauner

# 2017 Irrigated Wheat (Center-Pivot) Cost-Return Budget

-----Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

Summary page

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
<b>INCOME</b>						
Product						
Wheat - Western KS	bu	\$3.77	65.0000	\$244.88	\$244.88	_____
--TOTAL INCOME--					\$244.88	_____
<b>EXPENSES</b>						
Fertilizers						
Nitrogen	lb	\$0.35	89.8000	\$30.19		
Phosphorus	lb	\$0.33	30.8200	\$10.13	\$40.32	_____
Herbicides						
Pre-emergence				\$7.74	\$7.74	_____
Seeds						
					\$24.30	_____
Crop insurance						
					\$29.62	_____
Miscellaneous						
					\$10.00	_____
Fungicides						
					\$9.02	_____
Crop consulting						
					\$6.00	_____
Labor (beyond custom field operations)						
					\$24.00	_____
Custom Field Operations						
Fertilizer application				\$6.14		
Harvesting				\$29.89		
Hauling				\$13.36		
Planting				\$19.07		
Spraying				\$12.08	\$80.54	_____
Natural Gas						
					\$28.53	_____
Repair & Maintenance						
					\$3.30	_____
Interest on operating capital						
	6% on direct expenses			\$7.90	\$7.90	_____
Depreciation						
					\$76.67	_____
Interest on durable equipment						
					\$59.22	_____
Cash rent						
					\$136.00	_____
--TOTAL SPECIFIED EXPENSES--					\$543.15	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						
					-\$298.27	_____

# 2017 Irrigated Wheat (Center-Pivot) Cost-Return Budget

-----Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

Detailed budget page(s)

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
<b>INCOME</b>						
Product						
Wheat - Western KS	bu	\$3.77	65.0000	\$244.88	\$244.88	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$244.88	_____
<b>DIRECT EXPENSES</b>						
Fertilizers						
C - DAP (18-46-0) (1)	lb	\$0.21	67.0000	\$14.35		
C - Urea	lb	\$0.15	169.0000	\$25.97	\$40.32	_____
--- ACTUAL POUNDS - 90 N, 31 P, 0 K						
Herbicides						
B - 2, 4-D LV Ester (1)	oz	\$0.19	8.0000	\$1.52		
B - Ally	oz	\$9.30	0.1000	\$0.93		
B - Banvel 4	oz	\$0.39	4.0000	\$1.55		
B - Glyphosate generic	oz	\$0.12	32.0000	\$3.74	\$7.74	_____
Seeds						
Wheat (base)	lb	\$0.27	90.0000	\$24.30	\$24.30	_____
Crop insurance						
Wheat_West_Irr	acre	\$29.62	1.0000	\$29.62	\$29.62	_____
Miscellaneous						
Wheat_West_Irr	acre	\$10.00	1.0000	\$10.00	\$10.00	_____
Fungicides						
Folicur (1)	oz	\$0.45	1.3300	\$0.60		
Headline	oz	\$3.15	1.3300	\$4.19		
Quilt	oz	\$1.21	3.5000	\$4.23	\$9.02	_____
Crop consulting						
Wheat_West_Irr	acre	\$6.00	1.0000	\$6.00	\$6.00	_____
Labor (beyond custom field operations)						
Additional labor	hour	\$15.00	1.2000	\$18.00		
Irrigation labor	hour	\$15.00	0.4000	\$6.00	\$24.00	_____
Custom Field Operations						
FERTAPP-Dry fertilizer	acre	\$6.14	1.0000	\$6.14		
HARVEST-Wheat (base)	acre	\$20.87	1.0000	\$20.87		
HARVEST-Wheat (extra charge for yields above 22 bu)	bu	\$0.21	43.0000	\$9.02		
HAUL-Wheat - hauling	bu	\$0.21	65.0000	\$13.36		
PLANT-Wheat, min-till planting	acre	\$19.07	1.0000	\$19.07		
SPRAY-Ground herbicide	acre	\$6.01	1.0000	\$6.01		
SPRAY-Ground insecticide	acre	\$6.07	1.0000	\$6.07	\$80.54	_____
Natural Gas						
Well, pump, and gearhead	Mcf	\$4.00	7.1300	\$28.53	\$28.53	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	10.0000	\$3.30	\$3.30	_____
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital	6% on direct expenses			\$7.90	\$7.90	_____

# 2017 Irrigated Wheat (Center-Pivot) Cost-Return Budget

-----Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, and John Holman

Detailed budget page(s)

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
--TOTAL DIRECT EXPENSES--					\$271.27	_____
FIXED EXPENSES						
Depreciation						
Irrigation - Center Pivot	acre	\$22.43	1.0000	\$22.43		
Power unit	acre	\$17.60	1.0000	\$17.60		
Well, pump, and gearhead	acre	\$36.64	1.0000	\$36.64	\$76.67	_____
Interest on durable equipment						
Irrigation - Center Pivot	acre	\$28.04	1.0000	\$28.04		
Power unit	acre	\$3.70	1.0000	\$3.70		
Well, pump, and gearhead	acre	\$27.48	1.0000	\$27.48	\$59.22	_____
Cash rent						
All crops_West_irr	acre	\$136.00	1.0000	\$136.00	\$136.00	_____
--TOTAL FIXED EXPENSES--					\$271.89	_____
--TOTAL SPECIFIED EXPENSES--					\$543.15	_____
RETURNS ABOVE DIRECT EXPENSES					-\$26.38	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					-\$298.27	_____

12 acre-inches of water applied  
 300 foot well depth  
 \$ fuel cost per acre-inch of water applied

# 2017 Irrigated Grain Sorghum (Center-Pivot) Cost-Return Budget

-----Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Detailed budget page(s)

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
<b>INCOME</b>						
Product						
Grain Sorghum - Western KS	bu	\$3.43	106.0000	\$363.82	\$363.82	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$363.82	_____
<b>DIRECT EXPENSES</b>						
Fertilizers						
B - DAP (18-46-0) (with planter)	lb	\$0.21	89.0000	\$19.06		
B - Urea	lb	\$0.15	148.0000	\$22.74	\$41.81	_____
--- ACTUAL POUNDS - 84 N, 41 P, 0 K						
Herbicides						
A - 2, 4-D LV Ester (1)	oz	\$0.19	8.0000	\$1.52		
A - Dicamba	oz	\$0.46	12.0000	\$5.47		
A - Glyphosate generic	oz	\$0.12	32.0000	\$3.74		
B - Atrazine 4L (1)	pt	\$1.76	0.8700	\$1.53		
B - Bicep II Magnum	pt	\$5.03	2.1000	\$10.57		
B - LumaxEZ	pt	\$6.76	2.7000	\$18.25	\$41.08	_____
Seeds						
Milo - concep treated	lb	\$2.50	5.3300	\$13.33	\$13.33	_____
Crop insurance						
Grain Sorghum_West_Irr	acre	\$37.01	1.0000	\$37.01	\$37.01	_____
Miscellaneous						
Grain Sorghum_West_Irr	acre	\$10.00	1.0000	\$10.00	\$10.00	_____
Crop consulting						
Grain Sorghum_West_Irr	acre	\$6.25	1.0000	\$6.25	\$6.25	_____
Labor (beyond custom field operations)						
Additional labor	hour	\$15.00	1.2000	\$18.00		
Irrigation labor	hour	\$15.00	0.4800	\$7.20	\$25.20	_____
Custom Field Operations						
DRY-Drying grain sorghum	bu	\$0.06	106.0000	\$6.36		
HARVEST-Milo (base)	acre	\$21.89	1.0000	\$21.89		
HARVEST-Milo (extra charge for yields above 31 bu)	bu	\$0.22	75.0000	\$16.61		
HAUL-Milo - hauling	bu	\$0.20	106.0000	\$21.59		
PLANT-Milo, reg-till planting	acre	\$17.38	1.0000	\$17.38		
SPRAY-Ground herbicide	acre	\$6.01	2.0000	\$12.02		
TILL-Cultivating ridge-till	acre	\$16.45	1.0000	\$16.45	\$112.30	_____
Natural Gas						
Well, pump, and gearhead	Mcf	\$4.00	8.5600	\$34.23	\$34.23	_____
Repair & Maintenance						
Well, pump, and gearhead	ac-in	\$0.33	12.0000	\$3.96	\$3.96	_____
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital	6% on direct expenses			\$9.76	\$9.76	_____
--TOTAL DIRECT EXPENSES--					\$334.92	_____

# 2017 Irrigated Grain Sorghum (Center-Pivot) Cost-Return Budget

-----Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Summary page

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm	
<b>INCOME</b>							
Product							
Grain Sorghum - Western KS	bu	\$3.43	106.0000	\$363.82	\$363.82	_____	
					-----		
--TOTAL INCOME--					\$363.82	_____	
<b>EXPENSES</b>							
Fertilizers							
Nitrogen	lb	\$0.35	84.1000	\$28.35			
Phosphorus	lb	\$0.33	40.9400	\$13.46	\$41.81	_____	
Herbicides							
Burndown				\$10.73			
Pre-emergence				\$30.35	\$41.08	_____	
Seeds							
					\$13.33	_____	
Crop insurance							
					\$37.01	_____	
Miscellaneous							
					\$10.00	_____	
Crop consulting							
					\$6.25	_____	
Labor (beyond custom field operations)							
					\$25.20	_____	
Custom Field Operations							
Drying				\$6.36			
Harvesting				\$38.50			
Hauling				\$21.59			
Planting				\$17.38			
Spraying				\$12.02			
Tillage				\$16.45	\$112.30	_____	
Natural Gas							
					\$34.23	_____	
Repair & Maintenance							
					\$3.96	_____	
Interest on operating capital							
		6% on direct expenses		\$9.76	\$9.76	_____	
Depreciation							
					\$76.67	_____	
Interest on durable equipment							
					\$59.22	_____	
Cash rent							
					\$136.00	_____	
					-----		
--TOTAL SPECIFIED EXPENSES--					\$606.81	_____	
					=====		
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						-\$242.99	_____

# 2017 Irrigated Grain Sorghum (Center-Pivot) Cost-Return Budget

-----Western Kansas

Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Detailed budget page(s)

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
FIXED EXPENSES						
Depreciation						
Irrigation - Center Pivot	acre	\$22.43	1.0000	\$22.43		
Power unit	acre	\$17.60	1.0000	\$17.60		
Well, pump, and gearhead	acre	\$36.64	1.0000	\$36.64	\$76.67	_____
Interest on durable equipment						
Irrigation - Center Pivot	acre	\$28.04	1.0000	\$28.04		
Power unit	acre	\$3.70	1.0000	\$3.70		
Well, pump, and gearhead	acre	\$27.48	1.0000	\$27.48	\$59.22	_____
Cash rent						
All crops_West_irr	acre	\$136.00	1.0000	\$136.00	\$136.00	_____
--TOTAL FIXED EXPENSES--					-----	\$271.89 _____
--TOTAL SPECIFIED EXPENSES--					=====	\$606.81 _____
RETURNS ABOVE DIRECT EXPENSES					=====	\$28.89 _____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					=====	-\$242.99 _____

12 acre-inches of water applied  
 300 foot well depth  
 \$ fuel cost per acre-inch of water applied

# 2017 Irrigated Corn (center-pivot) Cost-Return Budget

Summary page

-----Southwest Kansas (ave yields)

Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
<b>INCOME</b>						
Product						
Corn - Southwest KS	bu	\$3.91	210.0000	\$820.36	\$820.36	_____
					-----	
--TOTAL INCOME--					\$820.36	_____
<b>EXPENSES</b>						
Fertilizers						
Nitrogen	lb	\$0.35	168.8200	\$56.86		
Phosphorus	lb	\$0.33	74.0600	\$24.34	\$81.20	_____
Herbicides						
Burndown				\$10.73		
Post-emergence				\$1.87		
Pre-emergence				\$35.10	\$47.70	_____
Insecticides						
					\$15.67	_____
Seeds						
					\$128.00	_____
Crop insurance						
					\$21.38	_____
Miscellaneous						
					\$10.00	_____
Fungicides						
					\$6.93	_____
Crop consulting						
					\$6.50	_____
Labor (beyond custom field operations)						
					\$28.80	_____
Custom Field Operations						
Drying				\$11.34		
Harvesting				\$61.60		
Hauling				\$35.45		
Planting				\$17.48		
Spraying				\$22.86		
Tillage				\$16.45	\$165.19	_____
Natural Gas						
					\$51.35	_____
Repair & Maintenance						
					\$5.94	_____
Interest on operating capital						
	6% on direct expenses			\$17.06	\$17.06	_____
Depreciation						
					\$76.67	_____
Interest on durable equipment						
					\$59.22	_____
Cash rent						
					\$120.00	_____
					-----	
--TOTAL SPECIFIED EXPENSES--					\$841.61	_____
					=====	
RETURNS ABOVE TOTAL SPECIFIED EXPENSES						-\$21.24 _____



# 2017 Irrigated Corn (center-pivot) Cost-Return Budget

Southwest Kansas (ave yields)

Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman

Detailed budget page(s)

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
<b>INCOME</b>						
Product						
Corn - Southwest KS	bu	\$3.91	210.0000	\$820.36	\$820.36	_____
Other						
Govt payments, indemnity payments, etc.						_____
--TOTAL INCOME--					\$820.36	_____
<b>DIRECT EXPENSES</b>						
<b>Fertilizers</b>						
B - DAP (18-46-0) (with planter)	lb	\$0.21	161.0000	\$34.49		
B - Urea	lb	\$0.15	304.0000	\$46.72	\$81.20	_____
--- ACTUAL POUNDS - 169 N, 74 P, 0 K						
<b>Herbicides</b>						
A - 2, 4-D LV Ester (1)	oz	\$0.19	8.0000	\$1.52		
A - Dicamba	oz	\$0.46	12.0000	\$5.47		
A - Glyphosate generic	oz	\$0.12	32.0000	\$3.74		
B - Atrazine 4L (1)	qt	\$3.52	1.5000	\$5.29		
B - Covrus	oz	\$5.32	5.6000	\$29.82		
C - Glyphosate generic (.5)	oz	\$0.12	16.0000	\$1.87	\$47.70	_____
<b>Insecticides</b>						
Hero (1)	oz	\$1.52	10.3000	\$15.67	\$15.67	_____
<b>Seeds</b>						
Corn - triple stack	1K seeds	\$4.00	32.0000	\$128.00	\$128.00	_____
<b>Crop insurance</b>						
Corn_SW_Irr	acre	\$21.38	1.0000	\$21.38	\$21.38	_____
<b>Miscellaneous</b>						
Corn_SW_Irr	acre	\$10.00	1.0000	\$10.00	\$10.00	_____
<b>Fungicides</b>						
Headline (.3)	oz	\$3.15	1.5750	\$4.96		
Quilt,Xcel	oz	\$1.25	1.5750	\$1.97	\$6.93	_____
<b>Crop consulting</b>						
Corn_SW_Irr	acre	\$6.50	1.0000	\$6.50	\$6.50	_____
<b>Labor (beyond custom field operations)</b>						
Additional labor	hour	\$15.00	1.2000	\$18.00		
Irrigation labor	hour	\$15.00	0.7200	\$10.80	\$28.80	_____
<b>Custom Field Operations</b>						
DRY-Drying corn (includes fuel, electricity, labor) - bin	bu	\$0.05	210.0000	\$11.34		
HARVEST-Corn (base)	acre	\$27.26	1.0000	\$27.26		
HARVEST-Corn (extra charge for yields above 65 bu)	bu	\$0.24	145.0000	\$34.34		
HAUL-Corn - hauling	bu	\$0.17	210.0000	\$35.45		
PLANT-Corn, reg-till planting	acre	\$17.48	1.0000	\$17.48		
SPRAY-Ground herbicide	acre	\$6.01	2.5000	\$15.02		
SPRAY-Ground insecticide	acre	\$6.03	1.3000	\$7.84		
TILL-Cultivating ridge-till	acre	\$16.45	1.0000	\$16.45	\$165.19	_____
<b>Natural Gas</b>						
Well, pump, and gearhead	Mcf	\$4.00	12.8400	\$51.35	\$51.35	_____
<b>Repair &amp; Maintenance</b>						
Well, pump, and gearhead	ac-in	\$0.33	18.0000	\$5.94	\$5.94	_____

**2017 Irrigated Corn (center-pivot) Cost-Return Budget**  
**-----Southwest Kansas (ave yields)**

*Gregg Ibendahl, Dan O'Brien, Lucas Haag, John Holman*

Detailed budget page(s)

Budget date: Oct-01-2016

item	unit	price	quantity	amount	Sub-total	your farm
Other						
Crop consulting, drying, etc.						_____
Interest on operating capital	6% on direct expenses			\$17.06	\$17.06	_____
--TOTAL DIRECT EXPENSES--					\$585.72	_____
<b>FIXED EXPENSES</b>						
Depreciation						
Irrigation - Center Pivot	acre	\$22.43	1.0000	\$22.43		
Power unit	acre	\$17.60	1.0000	\$17.60		
Well, pump, and gearhead	acre	\$36.64	1.0000	\$36.64	\$76.67	_____
Interest on durable equipment						
Irrigation - Center Pivot	acre	\$28.04	1.0000	\$28.04		
Power unit	acre	\$3.70	1.0000	\$3.70		
Well, pump, and gearhead	acre	\$27.48	1.0000	\$27.48	\$59.22	_____
Cash rent						
All crops_SW_Irr	acre	\$120.00	1.0000	\$120.00	\$120.00	_____
--TOTAL FIXED EXPENSES--					\$255.89	_____
--TOTAL SPECIFIED EXPENSES--					\$841.61	_____
RETURNS ABOVE DIRECT EXPENSES					\$234.64	_____
RETURNS ABOVE TOTAL SPECIFIED EXPENSES					-\$21.24	_____

18 acre-inches of water applied  
 300 foot well depth  
 \$ 2.85 fuel cost per acre-inch of water applied