

Pasture Rental Rates

Mykel Taylor & Robin Reid

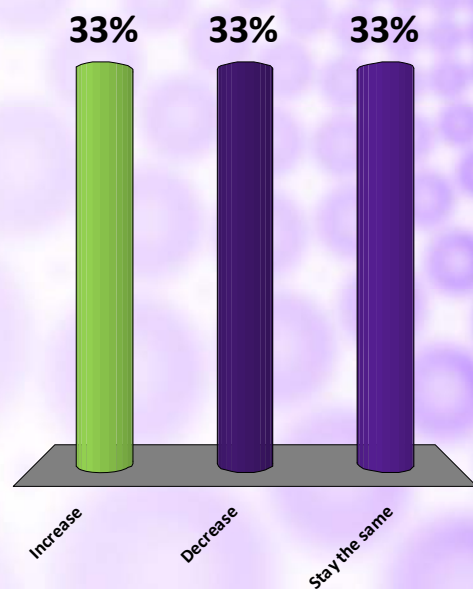
Salina, KS

December 16th, 2015



What do you expect pasture rent to do in 2016?

- A. Increase
- B. Decrease
- C. Stay the same



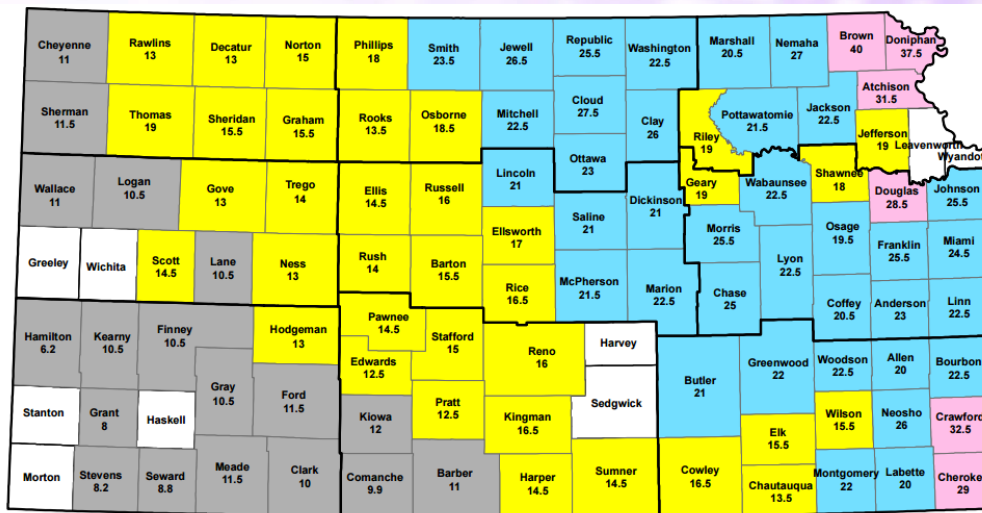
The “Going Rate”

- Depends largely on characteristics of the pasture:
 - When the lease was last negotiated
 - Type of cattle
 - Type of soil/grass
 - Availability of water
 - Who maintains fence
 - Who manages weeds/brush
 - Cattle, forage, and grain markets

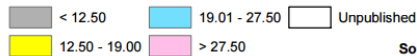
Pasture Rental Rates

- Most common question for K-State Extension
 - What is the going rate for pasture (cropland) in my area?
- How do we answer this question?
 - Publically available information
 - USDA-NASS pasture rent estimates
 - Bluestem Pasture Report

2014 Pasture Cash Rents



Dollars/Acre



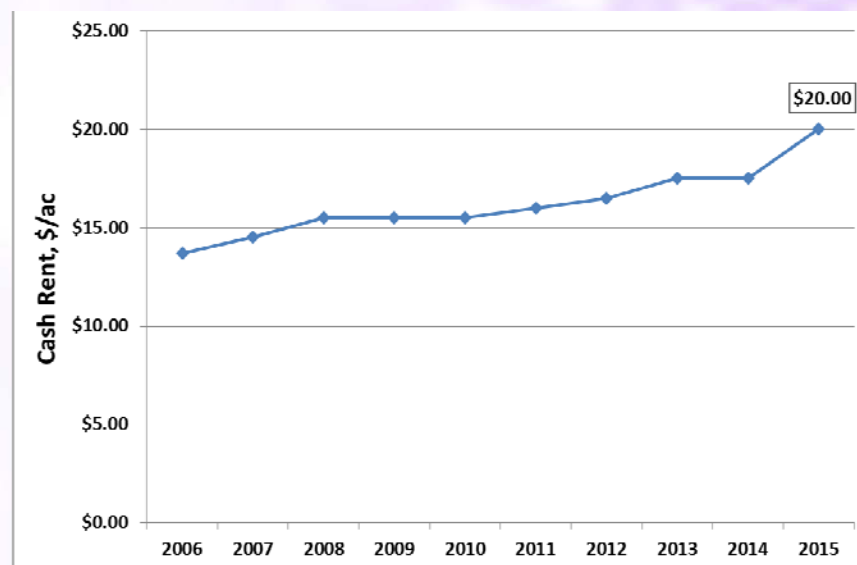
Source: USDA National Agricultural Statistics Service - September 5, 2014

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Source: www.nass.usda.gov/Statistics_by_State/Kansas/Publications/County_Estimates/

Historic Pasture Rates for KS



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Source: www.nass.usda.gov/Statistics_by_State/Kansas/Publications/Economics_and_Misc/Landval

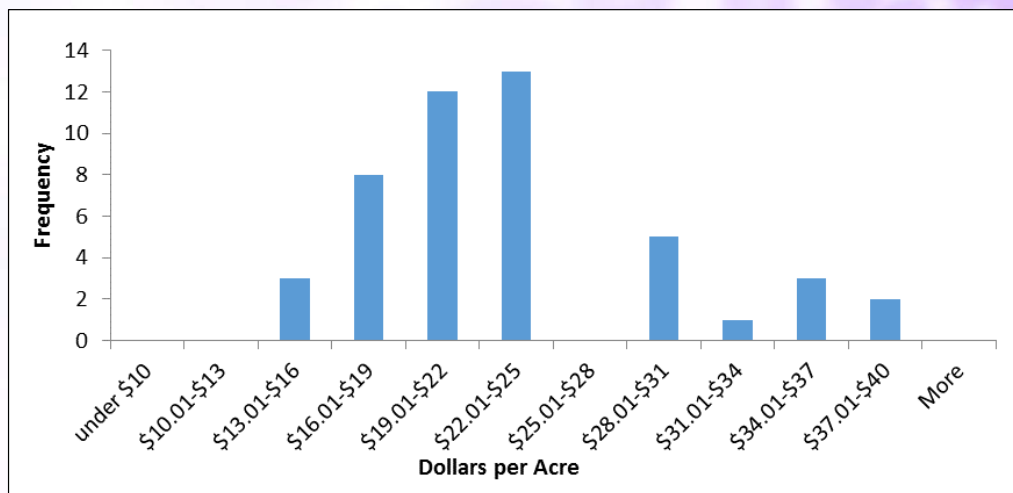
Bluestem Pasture Report

Year	\$/acre
2015*	19.18
2013	20.10
...	...
2009	18.60
2008	19.00
2007	17.60
2006	17.60
* Includes all native pasture types	
**Full summer season (combined with and w/out care)	

Bluestem Pasture Report

Pasture Condition	% of Acres	
	2015	2013
Very Poor	1	16
Poor	7	41
Adequate	28	34
Good	46	8
Excellent	17	1
Total %	100	100
* Includes all native pasture types		
**Full summer season (combined with and w/out care)		

River Valley District Survey, 2013

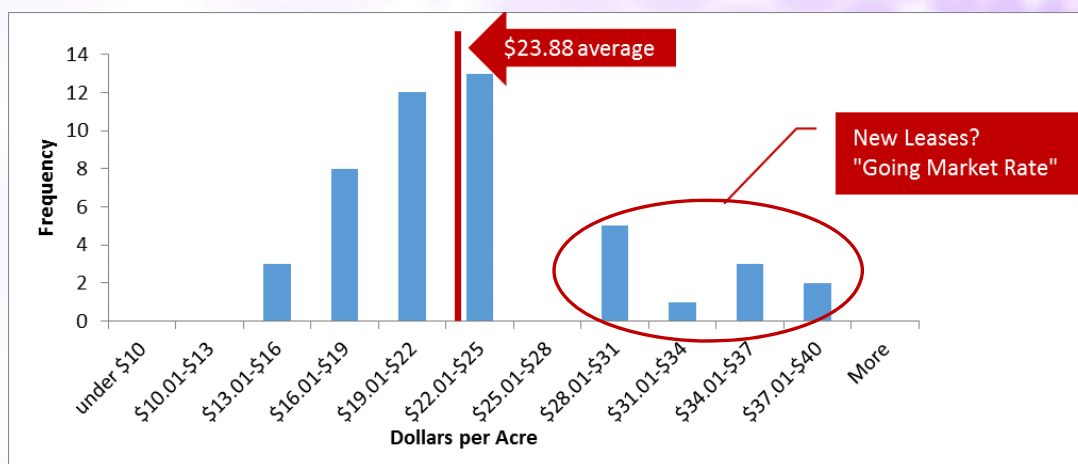


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Source: www.rivervalley.k-state.edu/news/kiml-news-releases/2014%20RVFD%20lease%20Survey%20Summary.pdf

River Valley District Survey, 2013



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Source: www.rivervalley.k-state.edu/news/kiml-news-releases/2014%20RVFD%20lease%20Survey%20Summary.pdf

Pasture Rental Rates

- Public data is limited and lagged
 - Next county-level rent estimates will be in 2016?
 - Bluestem pasture report is transitioning
 - County Extension surveys don't cover the state consistently
- Another option we can pursue is to use
 - Pasture-specific information
 - Operation-specific costs and production practices
 - Current and expected cattle market prices
 - Put into a decision tool (spreadsheet) and...

Voila!

Pasture Rent Tool

- Purpose of the tool
 - Get landowners and ranchers to talk
 - Demonstrate the economic value of good & poor pasture
 - Avoid fixed cash rents that get out of date quickly
 - Give both parties an 'out' if conditions change mid-season
- Have to change our focus from \$/acre
 - Move to productivity-based pricing (\$/AUM)
 - Reward good land management

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1 **BUDGETING FOR A PASTURE RENTAL RATE**

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25 **Explanations and Instructions:**

26 This tool was developed to assist landowner and tenant in determining an equitable grazing lease by considering three levels of pasture productivity.

27 All costs and services provided by each party are taken into consideration and pricing per acre, per head, per AUM, or per pound of gain are reported.

28 The companion publication with full instructions and explanations can be found by clicking [HERE](#)

29

30 Blue values are inputs that should be changed from the defaults to match your operation. Black values are automatically calculated.

31

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Pasture Rent Tool: Inputs

- Expected returns
 - Cattle prices (purchase and sell price)
- Costs of production
 - Assigned to landowner and tenant
- Productivity measures
 - Stocking rates
 - Productive potential under different rainfall conditions
 - Look to NRCS

Pasture Productivity

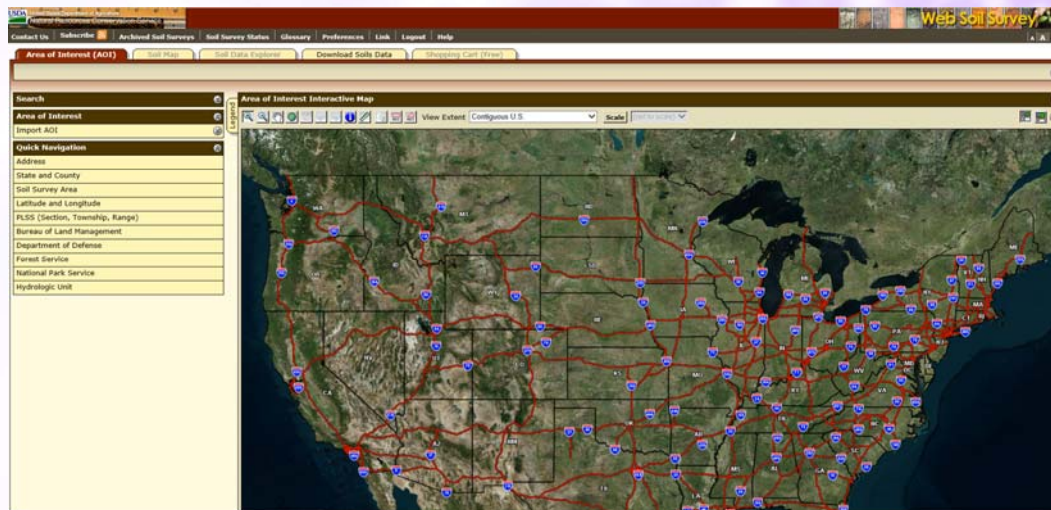
Calculating a Stocking Rate

Inputs				
Grazing Period Start	5/1/2015			
Grazing Period End	10/31/2015			
Grazing Days	183			
Total Acres of Pasture	160			
	Unfavorable Year	Normal Year	Favorable Year	
Pounds of Production per Acre	4500	5500	6500	
Pounds of Grazed Forage per Acre	1125	1375	1625	
AUM's available/Acre	1.23	1.51	1.78	
Total AUM's for pasture	197	241	285	
Consumed pounds of forage on pasture	180,000	220,000	260,000	

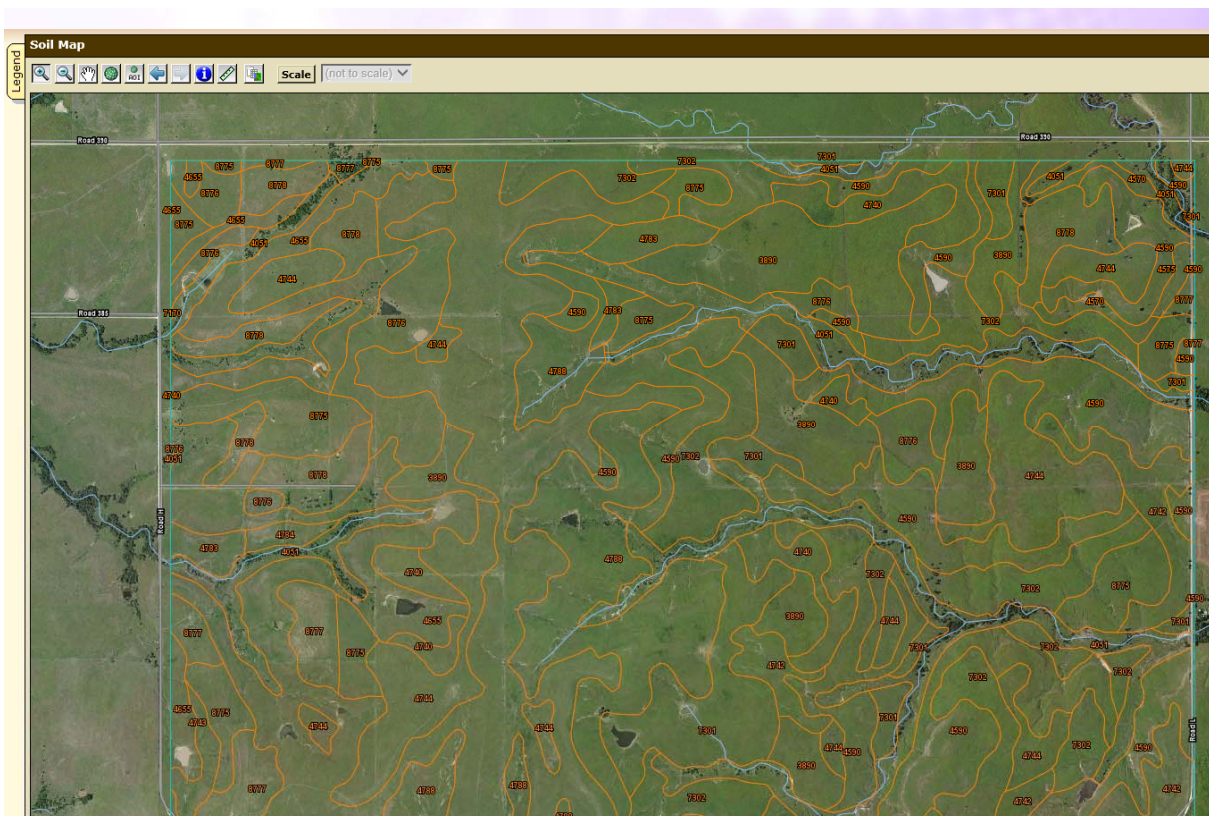
Pasture Productivity

- Convert forage needed to acres per head (pair)
 - How much forage is available?
 - What conditions are we facing? (N, F, U)
 - “Take half, leave half” rule
 - Harvest efficiency = 25% (e.g. trampled, poop)

NRCS Web Soil Survey



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Source: <http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>



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Productivity in a Normal Year

Tables — Range Production (Normal Year) — Summary By Map Unit

Summary by Map Unit — Lyon County, Kansas (KS111)

Map unit symbol	Map unit name	Rating (pounds per acre per year)	Acres in AOI	Percent of AOI
3890	Ladysmith silty clay loam, 0 to 1 percent slopes	3465	283.5	7.6%
4051	Ivan silt loam, channeled	6800	338.4	9.1%
4570	Cline silty clay, 3 to 7 percent slopes	4050	20.8	0.6%
4575	Cline silty clay, 3 to 7 percent slopes, eroded	4050	6.5	0.2%
4590	Cline-Sogn complex, 3 to 20 percent slopes	2725	548.3	14.8%
4655	Florence-Labette complex, 2 to 12 percent slopes	3193	712.0	19.2%
4740	Labette silty clay loam, 1 to 3 percent slopes	3825	102.0	2.8%
4742	Labette silty clay loam, 3 to 7 percent slopes	3825	114.5	3.1%
4743	Labette silty clay loam, 3 to 7 percent slopes, eroded	4575	15.2	0.4%
4744	Labette-Dwight complex, 0 to 3 percent slopes	3438	251.6	6.8%
4783	Tully silty clay loam, 3 to 7 percent slopes	3600	41.6	1.1%
4784	Tully silty clay loam, 3 to 7 percent slopes, eroded	3825	9.6	0.3%
4788	Tully-Cline complex, 7 to 15 percent slopes	4275	294.8	8.0%
7170	Reading silt loam, rarely flooded	7200	0.2	0.0%
7301	Martin silty clay loam, 1 to 3 percent slopes	4900	155.1	4.2%
7302	Martin silty clay loam, 3 to 7 percent slopes	4830	291.3	7.9%
7306	Martin silty clay, 3 to 7 percent slopes, eroded	4850	0.0	0.0%
8775	Kenoma silt loam, 1 to 3 percent slopes	3888	173.1	4.7%
8776	Kenoma silt loam, 3 to 5 percent slopes	3200	147.6	4.0%
8777	Kenoma silty clay loam, 1 to 3 percent slopes, eroded	3865	74.0	2.0%
8778	Kenoma silty clay loam, 3 to 5 percent slopes, eroded	3875	128.1	3.5%
Totals for Area of Interest			3,708.4	100.0%

Pasture Productivity

		Forage Consumed per Day (lbs)	Total Forage For Grazing Period (lbs)
COW/CALF PAIRS		49.5	9058.5
Mature Cow Weight	1250		
Calf Starting Weight	250		
Calf Ending Weight	550		
BULLS		54	3294
Average Weight	1800		
Date In	6/1/2015		
Date Out	8/1/2015		
# of Cows per Bull	25		
OR			
		Forage Consumed per Day (lbs)	Total Forage For Grazing Period (lbs)
STOCKER CATTLE		23	4255
Starting Weight	600		
Ending Weight	950		
Average Daily Gain	1.91		

Pasture Productivity

Ideal Stocking Rate			
	Unfavorable Year	Normal Year	Favorable Year
Number of Cow/Calf Pairs	15.2	19.6	23.9
Number of Bulls	0.6	0.8	1.0
Acres per Cow/Calf Pair & Proportion of Bull	10.5	8.2	6.7
OR			
Ideal Stocking Rate			
Stocker Cattle	32.9	42.3	51.7
Acres per Stocker	4.9	3.8	3.1

Expected Returns

Budgetin	Expected Cattle Returns		
		Per Head	
	Beginning Weight (lbs)	600	
	Beginning Cost (\$/cwt)	\$240.00	\$ (1,440.00)
	Death Loss	1.00%	\$ (14.40)
	Ending Weight (lbs)	950	
	Expected Ending Price (\$/cwt)	\$185.00	\$ 1,757.50
	Net Income per head		\$ 303.10

Production Costs

Livestock Costs										Total for Herd				Cost Paid by	
Category:											Unfavorable	Normal	Favorable	Producer %	Landowner %
Harvested Forage	\$ -	per ton	x	0	total lbs	=	\$0.00			\$ -	\$ -	\$ -	\$ -	100.00%	0.00%
Grain/Protein Supplements	\$ -	per ton	x	0	total lbs	=	\$0.00			\$ -	\$ -	\$ -	\$ -	100.00%	0.00%
Mineral	\$ 550.00	per ton	x	45.8	total lbs	=	\$12.58			\$ 415.18	\$ 528.41	\$ 654.23	\$ 654.23	100.00%	0.00%
Labor (towards cattle)	\$ 20.00	per hour	x	1.0	hours	=	\$20.00			\$ 750.00	\$ 840.00	\$ 940.00	\$ 940.00	100.00%	0.00%
Vet Medicine/Drugs							\$7.00			\$ 231.00	\$ 294.00	\$ 364.00	\$ 364.00	100.00%	0.00%
Marketing							\$11.00			\$ 363.00	\$ 462.00	\$ 572.00	\$ 572.00	100.00%	0.00%
Utilities,Gas, Fuel, Oil							\$6.00			\$ 225.00	\$ 252.00	\$ 282.00	\$ 282.00	100.00%	0.00%
Machinery charge							\$10.00			\$ 375.00	\$ 420.00	\$ 470.00	\$ 470.00	100.00%	0.00%
Cash interest on Cattle Investment	\$ 1,440.00	purchased cost	x	5.0%	operating interest		\$36.10			\$ 1,191.25	\$ 1,516.14	\$ 1,877.13	\$ 1,877.13	100.00%	0.00%
Miscellaneous							\$2.00			\$ 66.00	\$ 84.00	\$ 104.00	\$ 104.00	100.00%	0.00%
Fixed Overhead	Total dollars						--			\$ 535.50	\$ 535.50	\$ 535.50	\$ 535.50	100.00%	0.00%
Taxes	52.5									\$ 4,151.94	\$ 4,932.05	\$ 5,798.85	\$ 5,798.85		
Insurance	63									\$ 125.82	\$ 117.43	\$ 111.52	\$ 111.52		
Depreciation	420									\$ 1,565.82	\$ 1,557.43	\$ 1,551.52	\$ 1,551.52		
										Per Head plus beg. Value					

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Production Costs

Home / Livestock Marketing						
Market Outlook and Newsletters	Charts and Databases	Marketing Extension Bulletins	USDA News, Reports, Futures Market Prices	Budgets, Economics, LRP and Policy	Related Sites	Cross-Subject Areas
In The Cattle Markets	Livestock & Hay Charts	Marketing Strategies	USDA News	Projected Budgets	BeefBasin.com	Animal ID & Traceability
Livestock Outlook Radio	Monthly Prices	Financial Analysis	Futures Market Prices	Historical Budgets	NAIBER	Animal Well-Being
Cattle Finishing Returns	Reef Demand Charts	Trade and Demand	Pork Price Reporting	Production Economics	LMIC	Animal Health
	Grain Supply & Demand	Price Risk	Interest Rate Forecasts	LRP Insurance		CLPER
		Management		Policy		Food Safety
						Working Papers

Livestock & Meat Marketing: Projected Budgets

2015 Livestock Budgets

The 2015 livestock budgets are currently available in spreadsheet form. Users can click the "Print" button in any section to obtain a 3 page report. Glynn Tonsor (gtonsor@ksu.edu) and Robin Reid (robinreid@ksu.edu)

Title	Author	Date	Excel
Beef Budgets: (Cow-Calf, Background, Stocker, Finishing)	Tonsor and Reid	September 9, 2015	Download
Swine (Farrow-Finish, Farrow-Wean, Wean-Finish, Nursery, Finishing)	Tonsor and Reid	September 9, 2015	Download
Dairy (Cow-Milking-Raised Replacements, Cow-Milking-Purchased Replacements, Replacement Heifers)	Tonsor and Reid	September 9, 2015	Download
Master List of Prices Used in Livestock Budgets	Tonsor and Reid	September 9, 2015	Download

2014 Livestock Budget Archives are available [HERE](#).

Other Farm Management Guides		Complete Farm Management Guide Index	
Budgeting	Center Pivot-Irrigated Crops	Public Policy	
Buildings and Improvements	Financial Management	Miscellaneous	
Land Economics	Insurance	2014 Livestock Budgets	
Non-Irrigated Crops	Labor		

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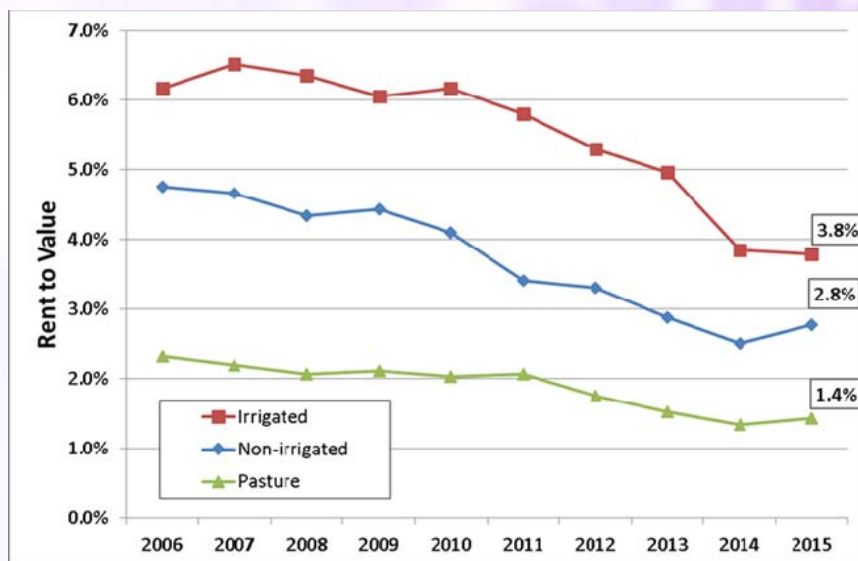
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Source: www.agmanagor.info

Landowner Costs

Land Costs								Cost Paid by	
Category:						\$/acre	Total for Pasture	Producer %	Landowner %
Water Source Maintenance						1.44	\$ 230.40	0.00%	100.00%
Spraying Weeds						6.75	\$ 1,080.00	100.00%	0.00%
Fertilizer						-	\$ -	100.00%	0.00%
Burning Pasture	20.00	per acre	3	years	=	6.67	\$ 1,066.67	100.00%	0.00%
Maintaining Fence						1.50	\$ 240.00	100.00%	0.00%
New Fence Construction						3.89	\$ 621.76	0.00%	100.00%
Corrals						1.03	\$ 165.00	100.00%	0.00%
Other land costs						-	\$ -	100.00%	0.00%
Total Costs						21.27	\$ 3,403.82		
Interest on Land	1,800.00	Land Value per acre	1.0%	rent/value ratio	=	18.00	\$ 2,880.00		

Rent to Value Ratio

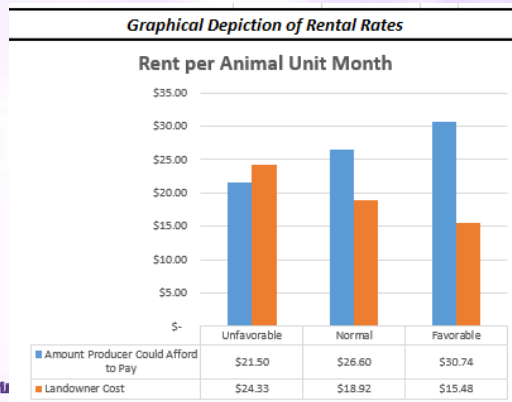
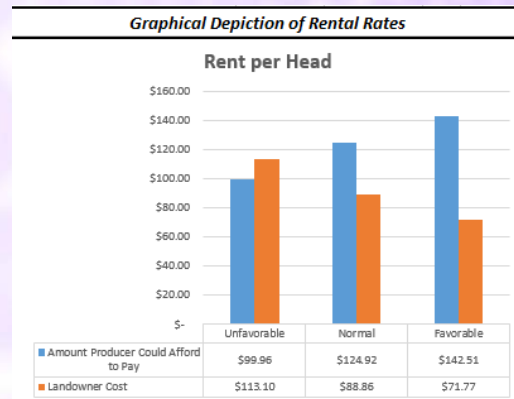
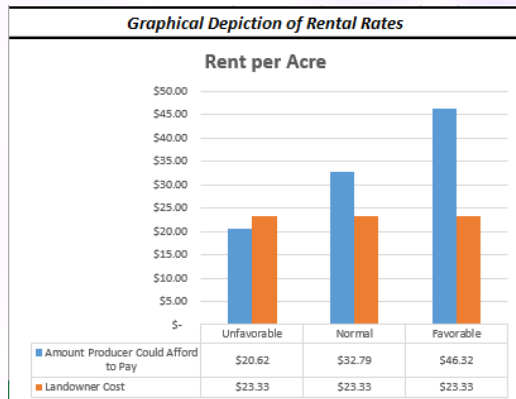


Production Costs

- Budgeting approach
 - Contributions to costs are calculated on shares
 - Simulate impacts from changes in lease agreement
- Start with state-level values & adjust for your area
 - Assign labor costs to landowner if they provide care
 - Add supplemental forage costs
 - Account for fertilizer costs (tame grass)
 - Weed control and/or burning

Estimated Rental Rates

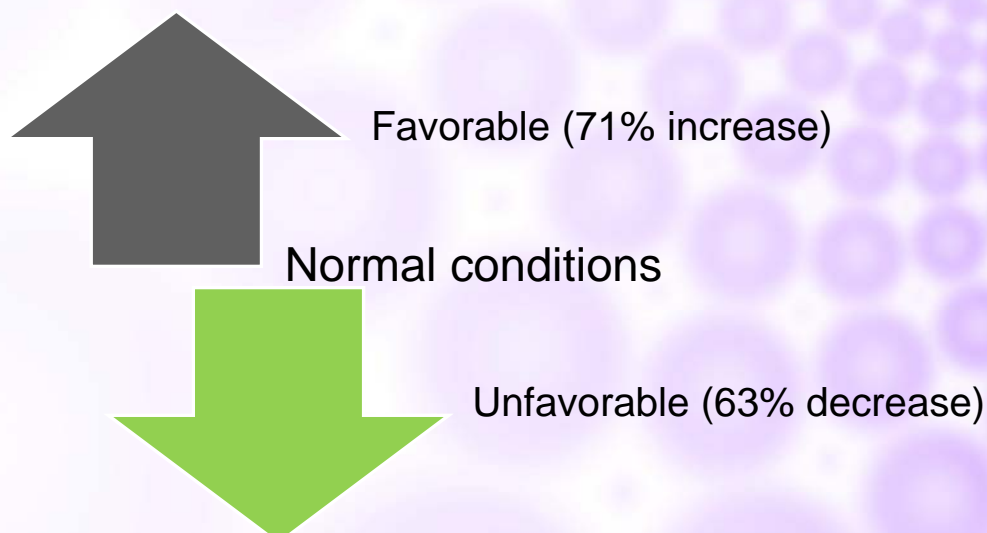
<i>Budgeting a Rental Rate-Stock Cattle</i>				
	Unfavorable	Normal	Favorable	
Producers Share of Cost	\$ 6,703.60	\$ 7,483.72	\$ 8,350.52	
Net Income	\$ 10,002.30	\$ 12,730.20	\$ 15,761.20	
Return over Producer Cost	\$ 3,298.70	\$ 5,246.48	\$ 7,410.68	
<i>Amount Producer Could Afford to Pay</i>				
Rent per Acre	\$ 20.62	\$ 32.79	\$ 46.32	
Rent per Head	\$ 99.96	\$ 124.92	\$ 142.51	
Rent per Pound of Gain	\$ 0.29	\$ 0.36	\$ 0.41	
Rent per AUM	\$ 21.50	\$ 26.60	\$ 30.74	
Landowner Share of Cost	\$ 3,732.16	\$ 3,732.16	\$ 3,732.16	
Net Income	\$ 10,002.30	\$ 12,730.20	\$ 15,761.20	
Return over Landowner Cost	\$ 6,270.14	\$ 8,998.04	\$ 12,029.04	
<i>Landowner Cost</i>				
Rent per Acre	\$ 23.33	\$ 23.33	\$ 23.33	
Rent per Head	\$ 113.10	\$ 88.86	\$ 71.77	
Rent per Pound of Gain	\$ 0.32	\$ 0.25	\$ 0.21	
Rent per AUM	\$ 24.33	\$ 18.92	\$ 15.48	



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Estimated Rental Rates



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Production Risk

Budgeting for Stocker Cattle Grazing -Production Risk

Production Variables		
Death Loss	Normal	1.00%
Stocker Ending Weight	1% lower	940.50
Stocker Selling Price	1% lower	\$183.15

Print all Pages

Print Production Risk Table

Stocker Cattle Production Risk			
	Unfavorable	Normal	Favorable
Producers Share of Cost	\$ 6,703.60	\$ 7,483.72	\$ 8,350.52
Net Income	\$ 8,848.15	\$ 11,261.28	\$ 13,942.54
Return over Producer Cost	\$ 2,144.55	\$ 3,777.56	\$ 5,592.02
Amount Producer Could Afford to Pay			
Rent per Acre	\$ 13.40	\$ 23.61	\$ 34.95
Rent per Head	\$ 64.99	\$ 89.94	\$ 107.54
Rent per Pound of Gain	\$ 0.19	\$ 0.26	\$ 0.31
Rent per AUM	\$ 92.24	\$ 19.15	\$ 23.19
Landowner Share of Cost	\$ 3,732.16	\$ 3,732.16	\$ 3,732.16
Net Income	\$ 8,848.15	\$ 11,261.28	\$ 13,942.54
Return over Landowner Cost	\$ 5,115.99	\$ 7,529.13	\$ 10,210.38
Landowner Cost			
Rent per Acre	\$ 23.33	\$ 23.33	\$ 23.33
Rent per Head	\$ 113.10	\$ 88.86	\$ 71.77
Rent per Pound of Gain	\$ 0.32	\$ 0.25	\$ 0.21
Rent per AUM	\$ 24.33	\$ 18.92	\$ 15.48

Cow/Calf

Budgeting a Rental Rate-Cow/Calf Pairs				
	Unfavorable	Normal	Favorable	
Grazing Period				
Grazing Period				
Gra				
Total Acres of P				
Growing Season				
# of head				
Acres per Head				
Producers Share of Cost	\$ 2,551.67	\$ 2,551.67	\$ 2,551.67	
Net Income	\$ 6,020.63	\$ 8,027.50	\$ 9,633.00	
Return over Producer Cost	\$ 3,468.96	\$ 5,475.83	\$ 7,081.33	
Amount Producer Could Afford to Pay				
Rent per Acre	\$ 21.68	\$ 34.22	\$ 44.26	
Rent per Pair	\$ 231.26	\$ 273.79	\$ 295.06	
Rent per AUM	\$ 22.61	\$ 27.76	\$ 29.37	
Landowner Share of Cost	\$ 4,052.16	\$ 4,052.16	\$ 4,052.16	
Net Income	\$ 6,020.63	\$ 8,027.50	\$ 9,633.00	
Return over Landowner Cost	\$ 1,968.47	\$ 3,975.34	\$ 5,580.84	
Landowner Cost				
Rent per Acre	\$ 25.33	\$ 25.33	\$ 25.33	
Rent per Pair	\$ 270.14	\$ 202.61	\$ 168.84	
Rent per AUM	\$ 26.41	\$ 20.54	\$ 16.81	
				Per Head
				700.00
				1,101.38
				401.38

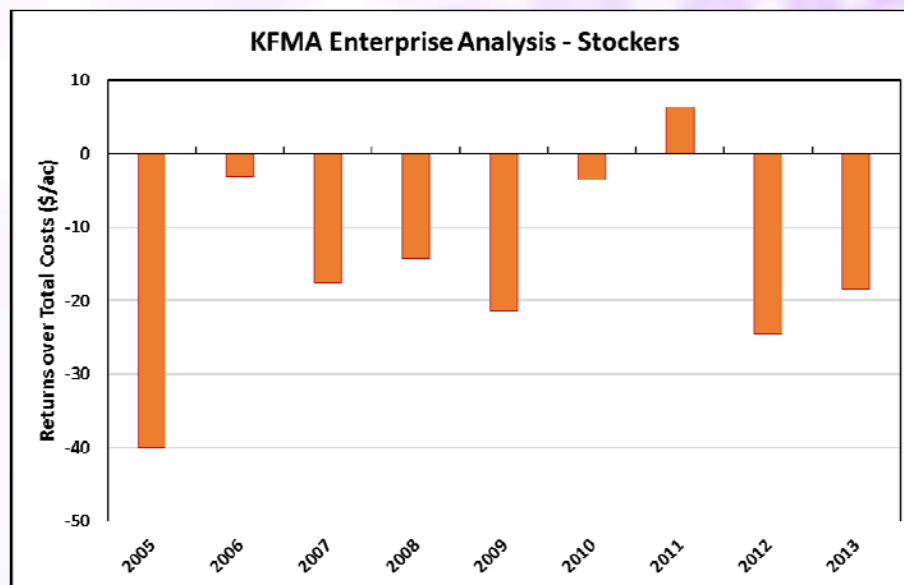
Important Points

- Landowner costs
 - Do not always cover costs, especially when rent is low
 - Tradeoff of higher management costs and better pasture productivity
- Amount tenant can afford to pay
 - Determined by their costs and revenues
 - Higher when value of gain and amount of gain high
 - Pasture productivity is valuable

“Afford to Pay”

- What does this term mean and why do we use it?
 - Why not build in a profit margin?
 - Already paying all costs of production, including labor, interest on capital
- If the remainder is pure profit then what happens?
 - Producers will bid away profit in the long run

Returns to Cattle

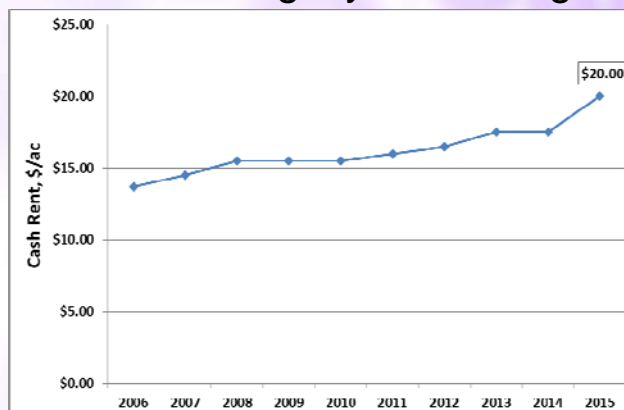


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“Afford to Pay”

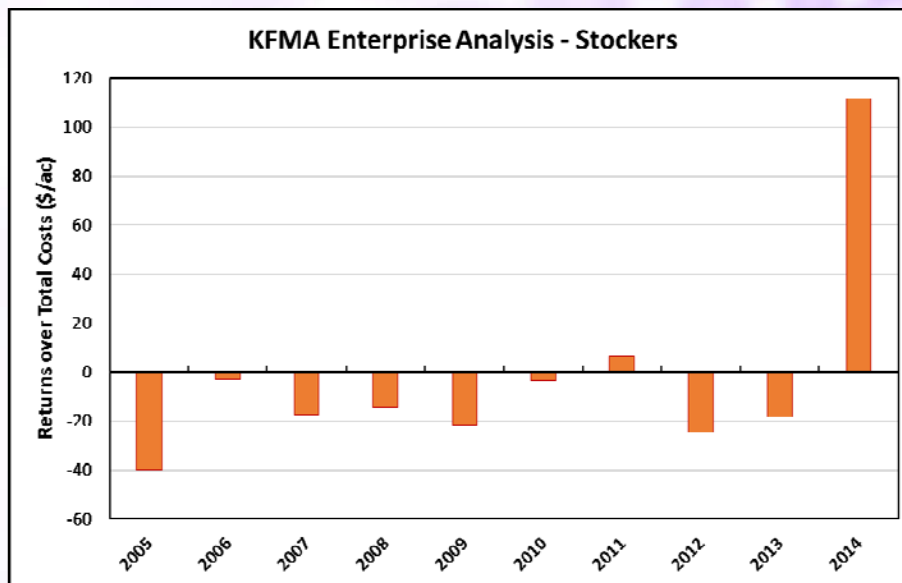
- Profitability is near zero in the long run (stockers)
 - Land rents were stable to slightly increasing for many years



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Returns to Cattle



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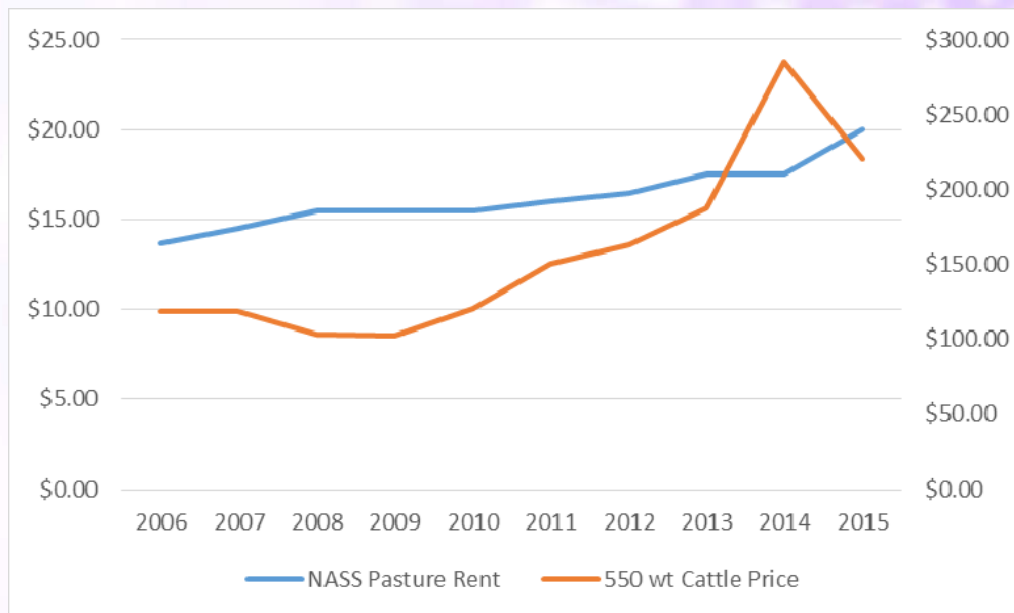
What about 2016?



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Cash rent vs. Cattle Market



What about 2016?

Expected Cattle Returns		
		Per Head
Beginning Weight (lbs)	600	
Beginning Cost (\$/cwt)	\$160.00	\$ (960.00)
Death Loss	1.00%	\$ (9.60)
Ending Weight (lbs)	950	
Expected Ending Price (\$/cwt)	\$125.00	\$ 1,187.50
Net Income per head		\$ 217.90

Budgeting a Rental Rate-Stocker Cattle				
		Unfavorable	Normal	Favorable
Producers Share of Cost	\$	6,306.52	\$ 6,978.34	\$ 7,724.81
Net Income	\$	7,190.70	\$ 9,151.80	\$ 11,330.80
Return over Producer Cost	\$	884.18	\$ 2,173.46	\$ 3,605.99
<i>Amount Producer Could Afford to Pay</i>				
Rent per Acre	\$	5.53	\$ 13.58	\$ 22.54
Rent per Head	\$	26.79	\$ 51.75	\$ 69.35
Rent per Pound of Gain	\$	0.08	\$ 0.15	\$ 0.20
Rent per AUM	\$	5.76	\$ 11.02	\$ 14.96
Landowner Share of Cost	\$	3,732.16	\$ 3,732.16	\$ 3,732.16
Net Income	\$	7,190.70	\$ 9,151.80	\$ 11,330.80
Return over Landowner Cost	\$	3,458.54	\$ 5,419.64	\$ 7,598.64
<i>Landowner Cost</i>				
Rent per Acre	\$	23.33	\$ 23.33	\$ 23.33
Rent per Head	\$	113.10	\$ 88.86	\$ 71.77
Rent per Pound of Gain	\$	0.32	\$ 0.25	\$ 0.21
Rent per AUM	\$	24.33	\$ 18.92	\$ 15.48

Pasture Rents

- Different way to approach pasture rent questions
 - Start with assumption that not all pasture is created equal
 - Gain flexibility from changing range conditions and market prices
 - Give landowners and tenants a way to estimate the value of good pasture
- Push back
 - But what is the going rate!?!
 - Training for Extension agents, lease workshops

Resources

- www.AgManager.info
 - Farm Management
 - Livestock Marketing
- NRCS
 - Local offices can help you determine your stocking rate
 - Will also assist with a grazing plan
- Contact information
 - Mykel Taylor: mtaylor@ksu.edu
 - Robin Reid: robinreid@ksu.edu

Let's do an example...

- You have an opportunity to rent a quarter-section of native pasture (160 acres) to graze cow/calf pairs on. You plan to turning cattle in on May 1st, 2016 and taking them out on Sept. 30th, 2016.
- Your cows weigh 1400 pounds on average and calves should be about 550 pounds when weaned off the pasture.

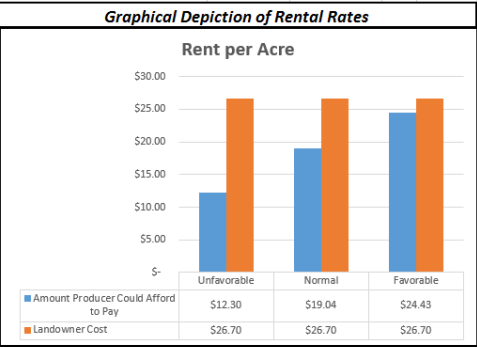
Let's do an example...

- You have a 90% weaning percentage and hope to sell your calves for \$185.00.
- You plan to spray weeds in the pasture but the landlord will pay for the chemical (share expense 50/50)
- You will have to maintain the fence and existing corrals, which you estimate will take you 3 days at 8 hours per day. You value your time at \$15 per hour. (\$2.25 per acre)

Let's do an example...

- The landlord is in charge of burning the pasture which he estimates about \$15 per acre every 3 years.
- He maintains the water and does any new fence construction.
- The pasture is valued at \$1800 per acre.

Budgeting for Cow/Calf Grazing -Results



PER ACRE

PER PAIR

PER AUM

Budgeting a Rental Rate-Cow/Calf Pairs			
	Unfavorable	Normal	Favorable
Producers Share of Cost	\$ 1,700.00	\$ 1,700.00	\$ 1,700.00
Net Income	\$ 3,667.75	\$ 4,746.50	\$ 5,609.50
Return over Producer Cost	\$ 1,967.75	\$ 3,046.50	\$ 3,909.50
Amount Producer Could Afford to Pay			
Rent per Acre	\$ 12.30	\$ 19.04	\$ 24.43
Rent per Pair	\$ 115.75	\$ 138.48	\$ 150.37
Rent per AUM	\$ 12.83	\$ 15.44	\$ 16.22
Landowner Share of Cost	\$ 4,272.16	\$ 4,272.16	\$ 4,272.16
Net Income	\$ 3,667.75	\$ 4,746.50	\$ 5,609.50
Return over Landowner Cost	\$ (604.41)	\$ 474.34	\$ 1,337.34
Landowner Cost			
Rent per Acre	\$ 26.70	\$ 26.70	\$ 26.70
Rent per Pair	\$ 251.30	\$ 194.19	\$ 164.31
Rent per AUM	\$ 27.85	\$ 21.66	\$ 17.72