Grazing Leases: Four important questions and answers

Kate Binzen Fuller, Ph.D. Ag Economics Extension Specialist Montana State University



Overview

What does a "good" lease look like?

What types of pasture leases are available?

How should I set my rate?

Where can I go for more information?



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What makes a good lease?



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Resources:

- Montana Cash Lease Rates, by County
- NASS Montana Average Grazing Rates
- <u>NASS Federal Lands Grazing Fees</u>
- AgLease101.org: General Information, sample leases, and guidelines
- EairDant: An avaluation tool for aron abore and each leases





What makes a good lease: What to include

- Who is responsible for what, and when
- Detail on persons involved and the property itself
- Clearly states duration of lease, terms of renewal, rate or how it will be calculated



What makes a good lease? Once you've decided what to include...

- Written
- Terms are understood and agreed on by both parties
- An appointment with your lawyer and/or accountant is advised.
- Filed at County Clerk and Recorder's office
- **Note:** different states have different lease laws!



Who is responsible for what?



http://cdn2.hubspot.net/hub/13035/file-13126527-jpg/images/cartoon_personal_responsibility.jpg





- Management practices
 - Monitoring? Landlord right to enter and inspect?
- Government program and disaster assistance
 - ARC and PLC (crops only), EQIP, etc.
- Infrastructure and improvements: describe it!
 - Water access and quality, fencing, corrals, salt blocks...
 - Compensation for long-term improvements





Who is responsible for... the expected? (continued)

- Hunting access (and/or revenue)?
- Mineral rights and extraction, windpower
- Risk management: livestock and liability insurance
 - Talk to insurance agent to make sure covered
 - Other risk management (buying puts, etc.)



What about the unexpected?!

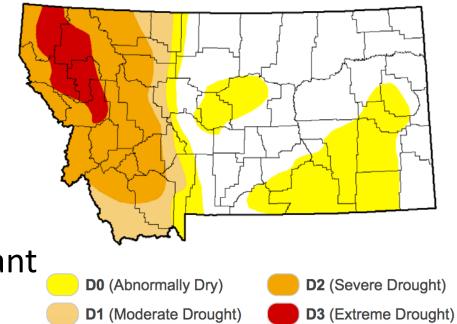






What about the unexpected?!

- Drought
- Flooding
- Fire
- Late payments
- Death of landowner or tenant





Why put the lease in writing?

- Expected:
 - Better understanding of expectations by both parties
 - Documentation for tax purposes
- Unexpected:
 - Serves as a legally enforceable reminder of agreed upon terms
 - Statute of frauds: must be written if more than one year to be enforceable



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Types of Pasture Leases

- Fixed cash
 - Per acre, per head, per cow-calf pair, per AUM
 - Most pasture leases in MT are cash
- Share of gain/value of gain
 - Tenant pays landlord for gain or value of gain
 - Landlord shares in price and/or production risk
- Flexing on price or gain
 - Fixed base rate is adjusted to reflect current condition
 - Landlord shares in price or production risk



- A. A mother cow and calf
- B. One, 1,000 lb animal
- C. 920 lbs of forage/month
- D. 790 lbs of forage/month
- E. None of the above
- F. All of the above



Table 2. Animal unit equivalents			
Type of Animal	AUM		
Mature cow	1.0 to 1.4		
Bull	1.5		
Yearling steer/heifer	0.7 to 0.9		
Two-year-old heifer	1.0 to 1.2		
Calf	0.4		
Ewe	0.20 to 0.28		
Replacement ewe lamb	0.13 to 0.17		
Horse	0.9 to 1.2		

https://www.extension.iastate.edu/agdm/wholefarm/html/images/c2-23tbl2.gif



Table 2 Ant	TABLE		AUE
Anin <u>Domestic Animal Kind-Class</u> Cow – dry Cow with calf Bull – mature Calf – weaned Steer/Heifer - 2 Years Sheep – mature ewe or ram Sheep – yearling Goat Horse – mature	<u>AUE</u> 1.00 1.00 1.25 0.60 0.80	Wildlife Animal Kind-Class Antelope Bison Deer – whitetail Deer – mule Elk Goat – mountain Moose Sheep – bighorn (ewe) Sheep – bighorn (ram)	$\begin{array}{c} 0.10 \\ 1.00 \\ 0.13 \\ 0.17 \\ 0.48 \\ 0.14 \\ 0.83 \\ 0.14 \\ 0.18 \end{array}$

http://wagoncreekguardian.com/wp-content/uploads/2015/06/table_1.png

	Table 1. Animal Units (AU) equivalent for each class of livestock and livestock types.				
Table 2 A	Livestock Class and Type	Animal Unit (AU) value	Number/AU	-	
	Cattle:			Kind-Class	AUE
	1,000 lb beef cow/calf pair	1.00	1.00	Millio	0.10
	1,100 lb beef cow/calf pair	1.10	0.91	6.1.7	1.00
Domestic Animal Kir	1,200 lb beef cow/calf pair	1.20	0.83	• 1	0.13
Domestic ma	1,300 lb beef cow/calf pair	1.30	0.77	il	$\begin{array}{c} 0.17 \\ 0.48 \end{array}$
Cow – dry Cow with calf	1,400 lb beef cow/calf pair	1.40	0.71	0.0	0.48
D-11 - mature	Calves by themselves over 3 months	0.30	3.33	tain	0.14
	Weaned calves to yearlings	0.60	1.67		0.14
	Yearling cattle (600-800 lbs)	0.70	1.43	orn (ewe)	0.18
- main	2-year old dry cattle (800- 1000 lbs)	0.90	1.11	norn (ram)	
Sheep – yearling	Mature Bull	1.30	0.77	to 0.17	
Cleat	Sheep:			to 1.2	
Horse – mature	Mature ewe with lambs	0.20	5.00	0 1.2	
	Weaned lambs to yearlings	0.12	8.33	http://onpasture.com	
	Mature ram	0.25	4.00	content/uploads/201 Breakdown.png	5/02/AUM-
MONTANA EXTENSION	Goats:				

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- A mother cow and calf?
- One, 1,000 lb animal
- 920 lbs of forage/month
- 790 lbs of forage/month
- Something else
- All of the above



Cash Leases: Advantages

- Simple
- Common
- Predictable
- Less decision-making for landowner



Cash Leases: Disadvantages

Landowners

- No "good year" windfall profits
- Lower payment compared to share leases

Tenants

Have all yield and price risk



Flexible Arrangement Advantages

- Reduced production or price risk for tenant
- Both parties see benefits in a good year
- More communication



Flexible Arrangement Disadvantages

- Income for landowner becomes variable
- Self-employment tax considerations
- More measurement, record-keeping, and/or trust
- More communication: transactions costs



Share of Gain

Landowner charges per pound of weight gained by calves.

Example: Final weight: 500 lbs Initial weight: 150 lbs

\$/lb gained = \$0.50



Share of Gain

Landowner charges per pound of weight gained by calves.

Example: Final weight: 500 lbs Initial weight: 150 lbs Gain: 350 lbs

\$/lb gained = \$0.50



Share of Gain

Landowner charges per pound of weight gained by calves.

Example: Final weight: 500 lbs \$/lb gained = \$0.50 Initial weight: 150 lbs Gain: 350 lbs **350lbs*\$0.50/lb=\$175 per calf**



- Calculate the change in value of calves during their time on pasture
- Calculate contributions of landowner and tenant
- Divide proceeds according to contribution
- This approach requires a bit more work



• Example:

Initial value: 150 lbs at value of \$1.75/lb=\$262



- Example:
 - Initial value: 150 lbs at value of \$1.75/lb=\$262
 - Final value: 550 lbs at value of \$1.50/lb=\$825



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- Example:
 - Initial value: 150 lbs at value of \$1.75/lb=\$262
 - Final value: 550 lbs at value of \$1.50/lb=\$825
 - Value of gain=\$825-\$262=\$563
 - Landowner tallies costs: \$80/calf
 - Livestock owner tallies costs: \$120/calf



- Example:
 - Initial value: 150 lbs at value of \$1.75/lb=\$262
 - Final value: 550 lbs at value of \$1.50/lb=\$825
 - Value of gain=\$825-\$262=\$563
 - Landowner tallies costs: \$80/calf (40%)
 - Livestock owner tallies costs: \$120/calf (60%)
 - Total operating costs: \$200/calf



- Example:
 - Initial value: 150 lbs at value of \$1.75/lb=\$262
 - Final value: 550 lbs at value of \$1.50/lb=\$825
 - Value of gain=\$825-\$262=\$563
 - Landowner receives 40% * \$563=\$225/calf
 - Livestock owner receives 60% * \$563=\$338/calf



Flexing on price

- Base rate fixed for term of lease
- Adjusted based on current prices relative to historical



Flexing on price

- Base rate fixed for term of lease
- Adjusted based on current prices relative to historical

Example 1:

- Base rate: \$5/acre
- 10-year avg steer calf \$1.50 per pound
- October 2016 futures contract \$1.60/lb
- Indexed rate = \$5 x (1.60/1.50) = \$5.33/acre

Flexing on price

- Base rate fixed for term of lease
- Adjusted based on current prices relative to historical

Example 2:

- Base rate: \$5/acre
- 10-year avg steer calf \$1.50 per pound
- October 2014 futures contract \$2.20/lb
- Indexed rate = \$5 x (2.20/1.50) = \$7.33/acre

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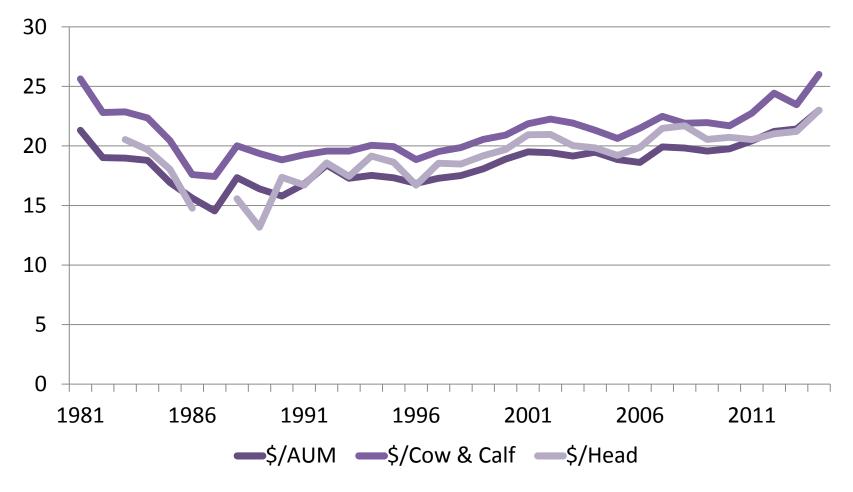
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Montana Cash Pasture Rental Rates (\$2015)



Source: NASS Quickstats

Montana Cash Pasture Rental Rates



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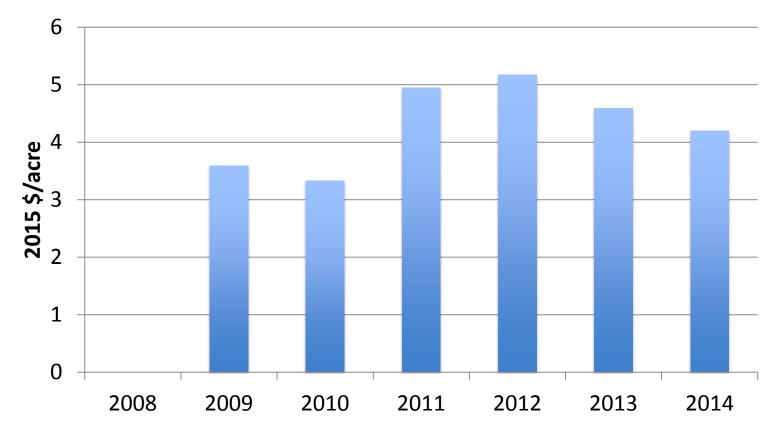
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Lease Rates per Acre, by County

Powder River



Source: NASS Quickstats

Lease Rates per Acre, by County



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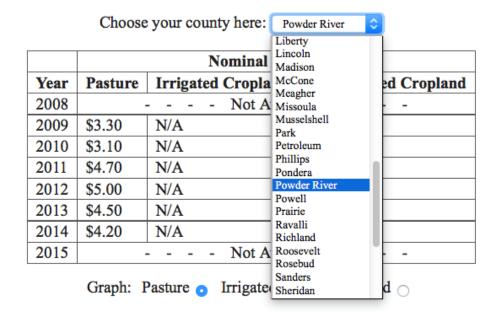
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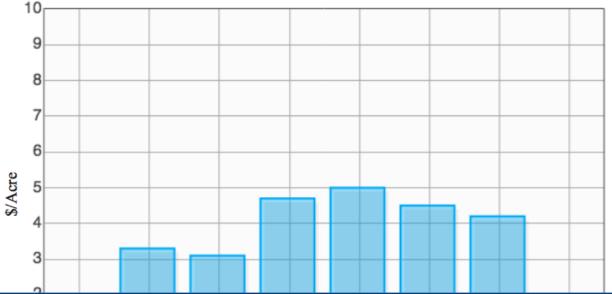
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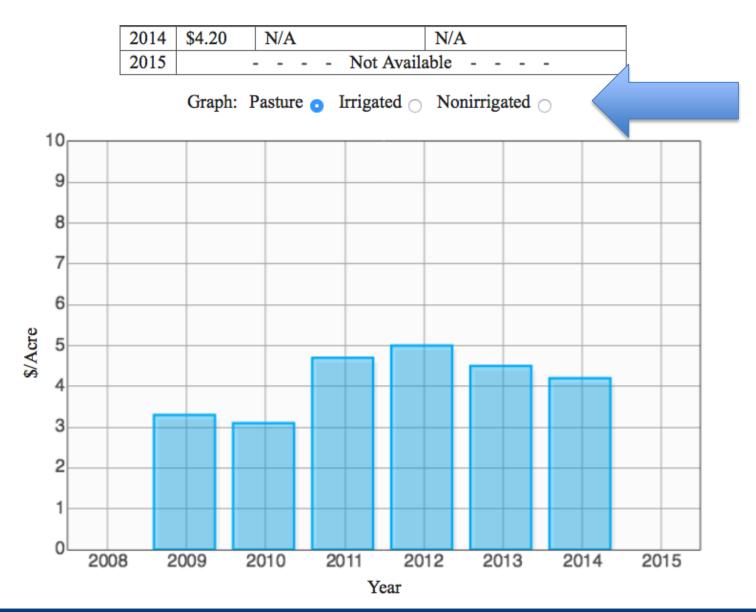
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Lease rates, cont'd: What is affecting these averages???

- Time: new and old leases
- **Productivity:** quality, quantity of forage
- Improvements: fencing, corrals, water, etc.
- Non-market values:
 - Good tenant relationship
 - Want to keep the land in ag



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One-stop shop for many leasing resources:

- NASS rates
- aglease101.org
- National Ag Law Center
- FairRent
- Montana Agricultural Leasing Law webinar
- MontGuides



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- AgLease101.org: General Information, sample leases, and guidelines
- FairRent: An evaluation tool for crop share and cash leases
- NRCS Soil Surveys: Helpful in determining the productive capacity of the land





Questions?

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