Ken Bolton UW-Extension Center For Dairy Profitability



Rental arrangement options
 + Fixed Cash Rent
 + Flexible Cash Rent
 + Crop-Share



RISK EXPOSURE

Landlord

- × Fixed Cash Rent
- Flexible Cash Rent
- × Crop-Share
- × Custom Farming

Renter High Fixed Cash Rent Flexible Cash Rent Crop-Share

× Custom Farming

High

Low

Low

Risk is real, risk has value, risk must be compensated. (5-8% Gross Revenue) (Hay ground- 20% Gross Revenue)

Risk- Price, cost and production

RISK EXPOSURE

Share the wealthShare the risk?



× Primary Objective

- + Fun?
- + Profit?



× Criteria

- + Personal preference
- + Competition
- + Comparison
- + Yield Potential
- + Gross Income Potential
- + Profit potential



x Cash rent value correlation to;

- + Corn Yield (2008)- R² =.8518
- + Northern Wisconsin

County Average Yield (bu.)County Level Cash RentMinMaxAvg.MinMaxAvg.81.2125.8106.8\$28\$62\$45

(2003-2007 Five Year Rolling Average)

Cash rent value correlation to;

+ Gross Revenue (2009)- 1967 to 2010 data

+ Wisconsin

Low	Avg.	High
17%	22%	26%

\$68 \$88 \$104 \$85 \$110 \$130 (Five Year Rolling Average) Corn 100 bushel yield @\$4.00/bu. @ \$5.00

Cash rent correlation to;

- + Land Value
 - × Wisconsin
 - 2.0% 2.5%
 - \$2,400/acre X 0.02/0.025 = \$48 \$60/acre



- × AGRICULTURAL CASH RENTS
- Wisconsin, 2005-2009
 Dollars per acre

** (2010)

× Year

Cropland rented for cash Pasture rented for cash 2005 70.00 38.00

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- × AGRICULTURAL LAND VALUES: Average Value
- * Per Acre, Wisconsin, 2005-2009 1/ Dollars per acre

×	Year	Farm real estate 2/	Cropland	Pasture
×	2005	2,790	2,540	1,450
×	2006	3,100	2,900	1,740
×	2007	3,640	3,370	2,000
×	2008	3,850	3,600	2,130
×	2009	3,750	3,650	2,050
×	2010	2,940	2,770	1,400

1/Value at which the land could be sold under current market conditions. 2/Value includes land and buildings

Crop Land Rent/Acre (WASS) dollars/acre

County	2008	2009
× Ashland	1/	17.50
× Clark	51.50	52.00
× Lincoln	28.50	30.00
× Marathon	49.50	50.00
× Taylor	42.00	47.00
× North Central	45.50	41.00

- × The amount the landlord desires
- The amount the renter can afford or is willing to pay



× Flexible Cash Rent

- + "Price"
 - × Base grain price and rental rate/acre
 - × Base rent X current price/base price = adjusted rent/acre
 - \$50 X (\$5.00/4.75) = \$52.63/acre for current year
 - × Base rent with stated adjustments outside of price range
 - Minimum base rent with upward adjustments only

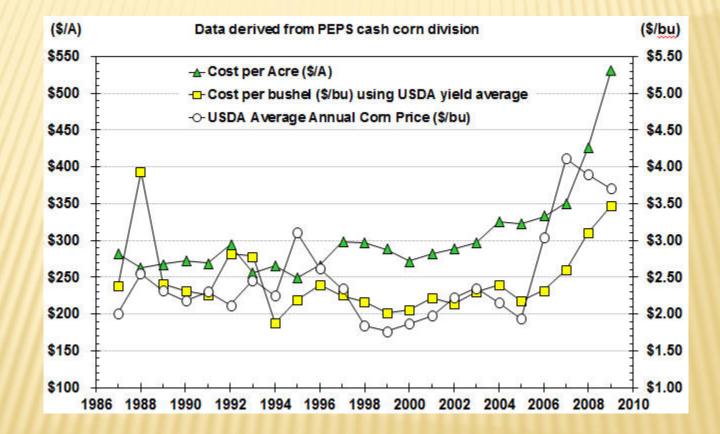
FLEXIBLE CASH RENT, CONTINUED

× "Price and Yield"

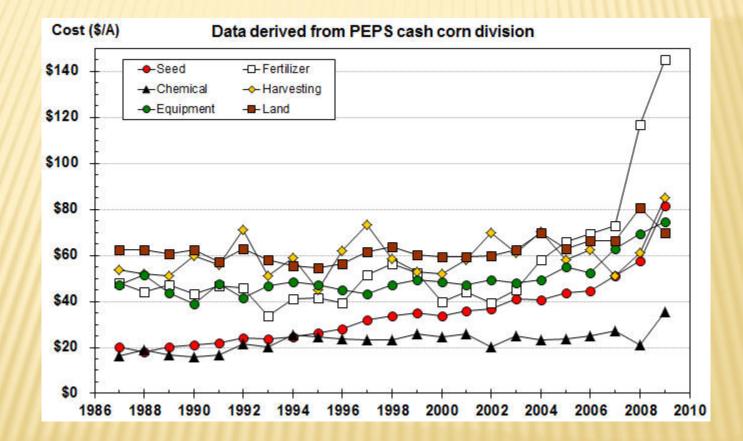
- Base rent X (current price/base price) X (current yield/ base yield) = adjusted current year's rent
- Current year's yield X current year's price X agreed %
- Base rent, yield & price + % increase in crop value/acre over base amount
- × "Yield"
 - Fixed number of bushels/year
- × Avoids renegotiating cash rents annually
- **×** Bottom Line- Compromise!

x "Crop-Share" Rent (50/50; 60/40; 70/30?)

- + Grower
 - × Value of crop produced/Cost inputs
 - × Machinery cost/acre (Deprec., interest, repairs, insurance)
 - × Labor (2-5 hrs/acre @ \$10.00/hr.)
 - × Management (6% Gross revenue)
- + Landlord- land ownership costs
 - × Value of crop produced/Cost inputs
 - × Interest on investment
 - × Real estate tax
 - × Deprec. (tile, fences), interest, repairs & insurance)



Joe Lauer, UW-Extension Corn Agronomist



Joe Lauer, UW-Extension Corn Agronomist

"Volatility is here to stay in grain and oilseed markets, according to Rabobank Food & Agribusiness Research and Advisory (FAR) vice president Sterling Liddell."

DairyProfit Weekly September 2010

× What costs do you want covered?

- + Total cash expenses
- + Non-cash
 - × Change in Accounts Receivable
 - × Change in Accounts Payable
- + Interest paid
- + Wages and Benefits
- + Depreciation

WHAT COSTS DO YOU WANT COVERED? CONT.

- × Debt service
- × Family living
 - + Household replacement
 - + Health insurance
- × Asset replacement
 - + Equipment
 - + Pickup
- College fund/Savings

- × Profit
 - + Partial Budgets
 - http://www.uwex.edu/ces/ag/teams/grains/

Corn after Soybeans budget

http://cdp.wisc.edu/crop%20enterprise.htm

Many!

+ Cash Rent Evaluator

Bruce Jones homepage http://www.aae.wisc.edu/jones/

- Corn Silage after Alfalfa <u>http://www.uwex.edu/ces/crops/uwforage/Sil</u> <u>age.htm</u>
- Alfalfa and Pasture Budgets
 <u>http://cdp.wisc.edu/crop%20enterprise.htm</u>

× Lease forms

- + <u>http://www.mwps.org/stores/mwps/files/2010cat</u> <u>alog.pdf</u> Guide and form
- + <u>http://agecon.uwyo.edu/riskmgt/legalrisk/CashFar</u> <u>mLease.pdf</u> Form only

- × Machinery cost determination
 - + <u>http://www.uwex.edu/ces/ag/teams/grains/</u>

× Put agreement in writing!

- Assure better understanding of what was agreed on by both parties
- + Serves as a reminder of specifics agreed on
- + Serves as a legal document
 - × Establish material participation/not
 - × Estate settlement of either party
 - × Settle disputes

WRITTEN AGREEMENT; CONTINUED

- × Who, what, when and how
- × Property description
- × Use of property
- × Reservations
- × Term of the lease





× Products

- + Corn Silage 7.37 TDM @ 92.57= \$682.24
- + Crop Insurance
 - × Total

= 40.09 \$722.33/acre

- × Cash Rent
- × Crop Share

× Fixed Expenses

+ Land	\$73
+ Management	43
+ Labor	17
+ Machinery Deprec.	32

+ Machinery, Int, insur.

19

x Expenses/acre; Variable

+ Fertility	120
+ Seed	65
+ Misc.	44
+ Herbicide	60
+ Insecticide	0
+ Fuel & Oil	19
+ Repairs/Main.	10
+ Int. Operating	7

Contributions: Cash Rent			
<u>Owner</u>	(Lessor)	Renter (Lessee)	
Land	0%	100%	
Machinery	0	100	
Labor	0	100	
Management	0	100	
Variable Expenses	0	100	
% Contribution	?	?	
\$ Share	?	?	

Contributions:	Crop Sha	re	
Owner (Lessor) Renter (Lessee)			
Land	100%	0%	
Machinery	0	100	
Labor	0	100	
Management	0	100	
Variable Expense	es O	100	
% Contribution	?	?	
\$ Share	?	?	

Contributions:	Cash/Share	Cash/Share
<u>Owne</u>	er (Lessor)	Renter (Lessee)
Land	\$ 0/73	\$ 73/0
Machinery	0	51
Labor	0	17
Management	0	43
Variable Expenses	0	325
% Contribution	0/15.28%	100/84.72%
\$ Share	\$73/103	\$ 723/ <mark>620</mark>
Diff.	\$ 33 (Risk?)	\$ 103-73= <mark>30</mark> (Risk?)
Return OTC	\$ 73/73 +37	7 \$245/208

Contributions:	"50:50" Crop Share		
<u>Own</u>	<u>er</u> (Lessor	r) <u>Renter</u> (Lessee)	
Land	\$ 73 \$	0	
Machinery	0	51	
Labor	0	17	
Management	0	43	
Variable Expenses	163	163	
% Contribution	46.2%	53.8%	
\$ Share	\$334	\$389	
Return OTC	\$ 98	\$115	